





UNDERGRADUATE CATALOG 2022-2023

Undergraduate Catalog 2022-2023

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UNIVERSITY ADMINISTRATION

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Dean, Amity Business School
Dean, Humanities Arts & Applied Science School
Vice President Student Affairs
Director, Centre for Teaching and Learning
Associate Registrar
Director Human Resources
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Head of Examinations
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Document Control

Document Reference No.	AMUD-QAIE-MNL-002-03	Approved by:	Pro Vice Chancellor
Date of Initial Approval:	September 2022	Last Revision	04.05.2023
Owner:	Student Affairs	Next Review:	August 2023
Academic Year:	2022-2023	Release Date:	September 2022

Type of change: Review/Revision/Update	Date	Changes & Rational
Revision	25.04.2023	 Demonstrated Alignment of Program Learning Outcomes to QF Emirates for all its programs Included statement about Licensure, conforming to the requirements of the MOE Cooperative relationships with other educational, cultural or community organizations Included Recognition of Nonformal and Informal Prior Learning Policy Revised electives selection criteria for engineering programs
Update	04.05.2023	Engineering Programs Specifications were updated

Document Revision Summary

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AMITY UNIVERSITY DUBAI ACADEMIC CALENDAR 2022-2023

FALL SEMESTER 2022

1 September	Arrival of residence hall students
5-9 September	Registration & Academic Advising Week
7 September	Freshmen Orientation Programme
8 September	School Induction Programme
12 September	Commencement of Classes
14 September	Add and Drop Period Begins
30 September	Add and Drop Period Ends
7 October	Prophet Mohammed's Birthday
31 Oct-4 Nov	Mid-term Exams
1-3 December	UAE Commemoration Day/UAE National Day (tentative)
9 December	Last day for withdrawal from classes
23 December	Last day of classes
26-30 December	Reading Period/Exam Preparatory Week
2-13 January	Fall Break
16-27 January	End-term Exams
27 January	End of Fall Semester

30 Jan- 3 Feb	Registration & Academic Advising Week
6 February	Commencement of Classes
8 February	Add and Drop Period Begins
24 February	Add and Drop Period Ends
22 March	Ramadan (tentatively)
27 March- 7 April	Spring Break
10-14 April	Mid-term Exams
22-23 April	Eid Al Fitr Holidays (tentative)
19 May	Last day for withdrawal from classes
2 June	Last day of classes
5-9 June	Reading Period/Exam Preparatory Week
12-23 June	End-term Exams
23 June	End of Spring Semester

SUMMER SEMESTER 2023

26- 30 June	Registration & Academic Advising Week
26 June	Commencement of classes
28-30 June	Eid Al Adha Holidays (tentatively)
10-14 July	Drop/add period
18 July	Islamic New Year
28 July	Last day for withdrawal from classes

SPRING SEMESTER 2023

11 August	Last day of classes
14-18 August	End- term Exams
18 August	End of Summer Semester
21-31 August	Summer Break

*Holidays and other events may change depending on government declaration.

2. History of Amity University



Amity University Dubai located in the Emirate of Dubai is officially licensed from 27/06/2022 to 02/06/2025 by the Ministry of Education of the United Arab Emirates to award degrees/qualifications in higher education. Amity University Dubai has established itself as a leading institution of Higher education offering undergraduate and graduate programs Business, Engineering, Humanities, Arts and Applied Sciences. With an excellent track record of producing skilled, employable and globally aware graduates, Amity University Dubai has attracted students from more than 50 different nationalities.

Amity University Dubai moved to its purpose-built campus in Dubai International Academic City (DIAC), with stateofthe-art infrastructure, classrooms, labs, sports facilities, student accommodation and learning resources in 2016. The Campus City is spread across 64,364 sqm, area with a building area of 51,614 sqm and an instructional space of 10,018 sqm. The University was awarded 'Best Campus in Middle East' in 2019 by Forbes Middle East for its aw-inspiring facilities for intellectual, physical and social growth of the students. Earlier Amity University operated within the DIAC premises. This shift to a purpose-built campus in the heart of Dubai International Academic City marked watershed movement for Amity to set higher standards for its Program offerings and practices.

To support the wide range of programs being offered at Amity University Dubai, it has 45 classrooms with a seating capacity of 40 each, 27 fully equipped laboratories and studios, a Learning Resource Center (LRC) spread over an extensive 2,139 sqm. in area and located across two floors, training room for faculty, an Incubation Centre comprising six offices, a counselling Centre, seminar halls, auditorium and sports facilities. The University also has fully furnished student residences with double and single occupancy, separately for male and female students.

Amity University Dubai, with its massive infrastructure, has become a hub for community events and engagements. Be it the cultural events or a religious festival or a weekend sports carnival, or graduation events for the local schools, Amity University's auditorium, sports fields, indoor facilities and seminar rooms provide all the facilities people need to feel part of the wider community.

With an international outlook and focus on research and innovation, Amity University Dubai is banking on this rich and diverse experience to further contextualize teaching and learning, within the broader policies and strategies of the UAE on one hand, and on the other aligning its core activities with international standards of higher education. It is just natural for Amity University to be under the Ministry of Higher Education in the UAE and get institutional and program accreditation from Commission of Academic Accreditation in the UAE.

Having grown in the UAE, AMUD is making a positive contribution to the national life and economy in the country. As an independent institution under CAA, are will further engage with the strategic direction of the UAE to be part of the education ecosystem that contributes to developing a competitive knowledge economy, sustainable, safe and healthy environment, and a cohesive society. With investment in human capital, infrastructure, technology and learning resources, we will develop graduates with tangible technical and soft skill to benefit from the future opportunities UAE is creating for young, ambitious and driven young people. In this connection, our focus on innovative pedagogies, technology-centric approaches and interdisciplinary research helps us align with the future full of opportunities.

2.1 Awards, Accreditations and Recognitions

- Licensed by Ministry Of Education (MOE) UAE 2022
- Program accrediated by UAE Commission for Academic Accreditation (CAA) 2022
- UAE Innovation Award 2021
- Hamdan Innovation Incubator 2021
- Sheikh Khalifa Excellence Award 2020
- The UK Quality Assurance Agency for Higher Education (QAA) 2019
- Best Campus Middle East Award by Forbes Middle East in 2019
- Capital Finance International (CFI) 2018
- Dubai Quality Appreciation Award (DQAA) 2019
- Dubai Quality Global Award (DQGA) 2019
- Dubai Human Development Appreciation Award (DHDAA) 2019
- First University outside of India to be approved by Bar Council of India
- First University in Dubai to set up NATA test centre
- Best University for Graduate Recruitment in the GCC Award 2018
- DEWA Conservation Award 2018
- Outstanding contribution to Autism Awareness Award 2018
- Solar Decathlon Middle East Award 2017-2018
- Accredited by UNWTOTedQual, Council of Architecture, India 100 Middle East Centric business Case Studies
- Accredited by WSCUC, IACBE, IET.

2.2 Institutional and Program Accreditations



QAA QAA	Qualified on all ESG standards by Quality Assurance Agency – IQR in 2018
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL	Awarded "A" Grade by National Assessment and Accreditation Council (NAAC) India
The Institution of Engineering and Technology	Engineering Programs accredited by the Institution of Engineering and Technology (IET).
Council of Architecture	Architecture Program is accredited by Council of Architecture, India.
BAR COUNCIL OF INDIA	Law Programs are accredited by and affiliated to Bar Council of India (BCI).
	Undergraduate and graduate Business Management programs are accredited by IACBE since 2016.
certified incubator HI	Dubai SME and Future Foundation Certified Incubation Center.
	UAE Innovation Award 2021

2.3 Contractual Agreements

No.	Organization	Date Signed	Expiration Date	Status
1.	University Alliances Program Associate membership	18-Nov-13	Until Terminated with 6 months notice	Active
2.	Al Otaiba General Transport	02-Jul-14	Until Terminated	Active

3.	Hotel Holiday Inn, Abu Dhabi	19-Oct-15	Until Terminated	Active
4.	The Forensic Institute	15-Feb-16	Until Terminated	Active
5.	Dolphin Air, Sharjah Airport Free Zone	23-Nov-16	Until Terminated with 2 months notice	Active
6.	Ministry of Economy, UAE	20-Nov-17	Until Terminated	Active
7.	Emircom	18-Dec-17	Until Terminated	Active
8.	Dubai Electricity & Water Authority	15-Jan-18	15-Jan-23	Active
9.	University of Fraser Valley	08-Feb-18	08-Feb-23	Active
10.	CSR, Al Ahli Group	-	Until Terminated	Active
11.	Auris Group of Hotels	-	Until Terminated	Active
12.	Caucasus University Georgia	30-Apr-18	30-Apr-23	Active
13.	National Association of Freight and Logistics	02-Sep-18	Until Terminated	Active
14.	Siemens	14-Nov-18	14-Nov-23	Active
15.	Chinese Institute of International Education (CIIE)	01-Dec-18	01-Dec-23	Active
16.	Cisco	-	3yrs	Active
17.	Fischer	24-Feb-19	Until Terminated	Active
18.	Dubai Quality Group	27-Feb-19	Until Terminated	Active
19.	Technology Innovation Pioneers	28-Feb-19	28-Feb-24	Active
20.	Ras Al Khaimah Economic Zone	12-May-19	Until Terminated	Active
21.	No. 1 Railway Middle School, Changsha, Hunan, Pr. C	21-Jun-19	21/06/2024	Active
22.	North Carolina Dental Practice	23-Jun-19	23-Jun-22	Active
23.	Silkway International University	10-Sept-19	Until Terminated	Active
24.	The International Centre for Biosaline Agriculture	22-Sept-19	22-Sept-24	Active
25.	Evolvin Women	27-Nov-19	Until Terminated	Active
26.	Dubai Astronomy Group	17-Feb-20	17/02/2023	Active
27.	AJMS Global Consulting	26-Jul-20	Until Terminated	Active
28.	Oberoi Beach Resort, Al Zorah	07-Sep-20	Until Terminated	Active
29.	Perfection Frontier Contracting	21-Sep-20	Until Terminated	Active
30.	Dubai Future Foundation	02-Aug-20	Until Terminated	Active
31.	Label RM	25-Oct-20	Until Terminated	Active
32.	Amity University Tashkent	04-Apr-21	Until Terminated	Active
33.	Gulf Bio Analytical LLC	22-Mar-21	Until Terminated	Active
34.	Global Jet Technic (GJT), Dubai, UAE	25-Jan-21	25-01-2023	Active
35.	UAE Space Agency	14-Jan-21	Until Terminated	Active
36.	Nepal Astronomical Society	25-Aug-20	25-08-2025	Active
37.	Hilton Dubai Al Seef Hotels	26-Jul-21	Until Terminated	Active
38.	Eduscan Institute	15-Aug-21	Until Terminated	Active
39.	Star Cement Co LLC	21-Jan-22	Unlimited	Active
40.	University of Northampton	04-Jan-22	1/4/2025 (3 years)	Active
41.	British University in Dubai	24-May-22	period of 4 yrs.	Active
42.	Sunway	02-Jun-22	02-Jun-23	Active
43.	Intitute of Management Accountants, INC.	12-Sep-22	12-Sep-24	Active

3 Amity University's Mission, Vision and Core Values

3.1. VISION

Amity University Dubai will strive to build a conscious community that will positively impact society and humanity. We will continue to educate, while also creating long-term sustainable solutions that promote innovation, exploration, creativity, tolerance, equality, opportunity and a better future for generations to come.

3.2. MISSION

We shall create a sustainable eco-system that encourages research and learning in order to explore innovative ideas and accelerate the nation's vision for the future. As a higher education institution, we will nurture talent, inculcate humanitarian values, create opportunities and foster diversity within our community, while also ensuring that we contribute to the national strategy and agenda.

3.3. Core Values

Academic Excellence: University strives for the uncompromising quality and highest standard of excellence in teaching, learning, research and scholarship across various disciplines.

Integrity & Ethics: University upholds the highest ethical values, integrity and professionalism and an unwavering commitment to academic freedom, transparency and accountability.

Diversity & Mutual Respect: University nurtures an environment of safety, trust & mutual respect and embeds equality & diversity in its Strategy by ensuring that the strategic plans are fair and inclusive.

Expand horizons of Knowledge: University is driven by research and innovation and ensures continuous engagement in the scholarly activities in the pursuit of innovation, creativity and excellence.

Shared Governance: University encourages shared decision-making through a process that rests upon collaborative consultation, open flow of information, diverse involvement and collective deliberations of all stake holders.

Social responsibility: University creates and nurtures an inclusive environment where everyone can develop their full potential and contribute to the interest of society as a whole.

Environmental responsibility: University is acutely aware of its environmental responsibilities and embraces principle of sustainable development to ensure that any adverse environmental impact of its activities is minimized.

Service: University seeks to serve the diverse, personal and professional development needs of its constituents and encourage habit of engagement, caring, and civic responsibility by emphasizing on a connect between service, excellence, and career growth.

4. Amity University Institutional Goals

Goal 1: Ensuring Excellence in Education and Empowering Students with Skills Needed In Industry

Goal 2: Enhancing Cutting Edge Research, Innovation and Creativity of High Impact

Goal 3: Creating Professionals with a Global Perspective with Enhanced Employability and an Entrepreneurial Zeal

Goal 4: Enhancing Engagement with Industry, Alumni and Society

Goal 5: Committing To All Aspects of Social, Economic and Environmental Sustainability

Goal 6: Enhancing Ecosystem That Promotes Student and Staff Development Including Physical and Emotional Health and Well-Being

5. Amity University Dubai Organization Chart



6. Amity University Dubai Campus Services

Amity University Dubai, started in 2011, is located in Dubai International Academic City (DIAC), and offers a truly global educational experience with qualified international faculty, and students from over fifty different nationalities. The university has modern state-of-art laboratories, facilities, and classrooms.

6.1. Library/Learning Resource Center (LRC):

The Learning Resource Centre extends over three floors. All these sections are open to the entire university community. Amity LRC houses print and non-print materials (e-resources) and all the different types of hardware needed for the students, faculty and staff use. LRC provides four areas for faculty and students for working on assignments, discussions, and research. The Centre maintains a ratio of 1:10 seats to users of the learning center.

The Centre has different reading facilities. It has three separate reading halls, including one exclusively for faculty.

In addition to these reading halls, a silent study area is located at the second floor to help users focus on study material and research in individual cubicles. Photocopying and printing facilities are available inside the Learning Resource Center (LRC) to all users. The centre is completely linked with high-speed Wi-Fi Internet facility and intra-university network. Users may use their laptop, smart phones, and other gadgets for accessing titles of print books, e-books, databases, journals, manuscripts, electronic thesis and dissertations, and audio-visual materials and services provided by LRC. At present, our LRC has a total of 12 Mac computer systems and 2 print/scan/photocopy machines inside the Periodicals section, that can be used for various IT and reprography services.

6.2. Laboratory:

Amity University Dubai has 27 laboratories and workshops, including specialized labs resourced appropriately for the range of programs on offer.

The details on the laboratories and workshops are as given:

S.No.	Name of the Laboratory/Studio	No. of Labs /Studios
1	Civil Laboratory	1
2	Workshop	1
3	Aerospace Laboratory	1
4	Computer Laboratory	4
5	Communications Laboratory	1
6	Physics Laboratory	1
7	Chemistry Laboratory	1
8	Electronic Laboratory	1
9	Electrical Laboratory	1
10	Dark Room	1
11	Heat Transfer Laboratory	1
12	Nano Technology Laboratory	1
13	Forensic Laboratory	2
14	Psychology Laboratory	1
15	Fashion Design Studio	1
16	Design Studio	6
17	Media Studio	1
18	Hospitality Laboratory	1

6.3. Student Residence:

Amity student residence offers housing to its students within its sprawling campus in Dubai. This contemporary and well-equipped facility intent on offering excellent safety and security for its residents, is well connected to various parts of Dubai through public transportation and has well equipped rooms to provide utmost comfort for its residents.

6.4. Sports and Recreational Facilities

Amity University Dubai believes in overall intellectual, physical and social development of the students. The University besides focusing on developing knowledge, skills and competencies, puts focus on physical and competitive development by providing best facilities for both indoor and outdoor sports and recreation.

S.No.	Name of the Sports and Recreational Facility	No. of Facility
1	Football Field	1
2	Athletics Track and Field	1
3	Cricket Pitch	2
4	Tennis Court	2
5	Swimming Pool	1
6	Multi-Purpose Sports Hall	 Badminton Courts Basketball Court Volleyball Court
7	Gym	1
8	Outdoor Basketball Court	1
9	Table Tennis	5 Tables
10	Gaming Zone	1
11	Campus Living Area	1
12	Paddle Court	1

6.5. Technology Infrastructure:

6.5.1 University Learning Management System (LMS)

Amity University Dubai has a Learning Management System that serves as a rich resource for every student and parent; it is an integral part of student life at Amity University Dubai.

6.5.2 Learning Management System (LMS) For Students -User ID and Password

To access University Learning Management System, a *user ID* and *password* is allocated to every student. Students are required to complete their *Personal Profile* online at the time of registration. It is essential that the correct details are filled in on the form. Students must check notices posted on LMS on a daily basis as all schedules, time tables, dates for fee payment, dates for commencement of the semester, examination schedules, holidays, etc., are available on it. Through the LMS, students can access their program structure, detailed curriculum and course session plans, assignments, continuous assessment marks and examination results, in addition to other information. Attendance is marked online for all courses by the respective academic staff. Students should inform their Program Leaders or the Office of Student Services of any off campus activity that they are required to attend as part of their program, these will then be marked as an official duty.

6.5.3 Usage of LMS by Parents

Parents are also provided with a separate *user ID* and *password* to access the *Parents' Section* on University LMS, which is available once student registration has been completed. Parents may contact the Office of Student Services for their username and password.

7. Undergraduate Admissions

7.1. Admission Criteria for Undergraduate Programs:

Admissions Criteria for Business Programs

- 1. A minimum High School Average of 70% for Advanced or Elite Track or 75% for General Track or equivalent in Standardized International Systems is required.
- 2. EmSAT score of 1100 for English Language or an equivalent English Proficiency Test approved by the CAA.
- 3. EmSAT score of 600 for Arabic Language. Alternatively, international students can register for a non-credited Basic Arabic Language course at the institution.
- 4. EmSAT score of 600 in Mathematics or equivalent.
- 5. Passing a personal interview set by the College of Business in addition to other conditions of admission set by the university.
- 6. Conditional admission can be allowed for not achieving the Arabic Language EmSAT score but not for English Language or overall High School Certificate.

Admission Criteria for Engineering, Architecture and Interior Design Programs:

Bachelor of Architecture

- 1. A minimum High School Average of 65% for Elite Track, or 70% for Advanced Track or 75% for General Track or equivalent in Standardized International Systems is required.
- 2. Passing EmSAT in Arabic Language with a score of 600 or equivalent. Alternatively, non-native Arabic speakers can enroll in a non-credit "Introduction to Arabic Language" course at the institution.
- 3. Passing EmSAT in English Language with a score of 1100, or an equivalent approved English Proficiency test.
- 4. Amity Creative Aptitude Test is mandatory entry requirement.
- 5. In addition to any other admission conditions set by the college/school.

Bachelor of Interior Design

- 1. A minimum High School Average of 60% for Elite Track, or 65% for Advanced Track or 70% for General Track or 75% Professional Track or equivalent in Standardized International Systems is required.
- 2. Passing EmSAT in Arabic Language with a score of 600 or equivalent. Alternatively, non-native Arabic speakers can enroll in a non-credit "Introduction to Arabic Language" course at the institution.
- 3. Passing EmSAT in English Language with a score of 1100, or an equivalent approved English Proficiency test.
- 4. Amity Creative Aptitude Test is mandatory entry requirement.
- 5. In addition to any other admission conditions set by the college/school.

Bachelor of Science in Biotechnology

- 1. A minimum High School Average of 65% for Elite Track, or 70% for Advanced Track or 75% for General Track or equivalent in Standardized International Systems is required.
- 2. Passing EmSAT in Arabic Language with a score of 6 00 or equivalent. Alternatively, non-native Arabic speakers can enroll in a non-credit "Introduction to Arabic Language" course at the institution.
- 3. Passing EmSAT in English Language with a score of 1100, or an equivalent approved English Proficiency test.
- 4. Passing EmSAT score of 800 in Biology or equivalent are required
- 5. Grade 12/13 Chemistry is required
- 6. In addition to any other admission conditions set by the college/school.

Bachelor of Science in Aerospace Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Computer Science, Bachelor of Science in Electrical Engineering and Bachelor of Science in Mechanical Engineering

- 1. A minimum High School Average of 75% for Elite Track, or 80% for Advanced Track or equivalent in Standardized International Systems is required.
- 2. Passing EmSAT in Mathematics with a score of 900 or equivalent.
- 3. Passing EmSAT in Physics with a score of 800 or equivalent.
- 4. Passing EmSAT in Arabic Language with a score of 600 or equivalent. Alternatively, non-native Arabic speakers can enroll in a non-credit "Introduction to Arabic Language" course at the institution.
- 5. Passing EmSAT in English Language with a score of 1100, or an equivalent approved English Proficiency test.
- 6. Grade 12/13 Chemistry is required
- 7. In addition to any other admission conditions set by the college/school.

Bachelor of Science in Information Technology

- 1. A minimum High School Average of 65% for Elite Track, or 70% for Advanced Track or 75% for General Track or equivalent in Standardized International Systems is required.
- 2. Passing EmSAT in Arabic Language with a score of 600 or equivalent. Alternatively, non-native Arabic speakers can enroll in a non-credit "Introduction to Arabic Language" course at the institution.
- 3. Passing EmSAT in English Language with a score of 1100, or an equivalent approved English Proficiency test.
- 4. In addition to any other admission conditions set by the college/school.

Admissions Criteria for Humanity, Arts and Applied Sciences Programs

- 1. A minimum High School Average of 75% for Elite, 80% Advanced Track, and 85% for General Track or equivalent in Standardized International test.
- 2. EmSAT score of 1100 for English Language for programs delivered in English and score of 950 for programs delivered in Arabic, or an equivalent English Proficiency Test approved by the CAA.
- 3. EmSAT score of 800 for Arabic Language for programs delivered in English and score of 1000 for programs delivered in Arabic. Alternatively, international students can register for a non-credited Basic Arabic Language course at the institution.
- 4. EmSAT score of 800 in Mathematics or equivalent.
- 5. Passing a personal interview set by the College of HAAS in addition to other conditions of admission set by the university.

Conditional Admission

Amity Business School

Conditional admission can be allowed for not achieving the Arabic language EmSAT score of 600 but not for English language. Only admitted applicants who have successfully attained the minimum English proficiency score will be allowed to register for courses as per their study plan. Those with a score less than the specified minimum requirement can register for the University's non-transferrable Intensive English Course, and must clear the EmSAT related test (or equivalent) before an acceptance is issued. The same applies to students not fulfilling the math requirements. In this line, students can register for the University's non-transferrable remedial math course. They may be granted conditional admission but will not be permitted to register in any Math or Statistics courses, or any course that has a math Prerequisite, until the successful completion of the necessary remedial-math course.

School of Engineering Architecture Interior Design

Conditional admission can be allowed for not achieving the Arabic language EmSAT score of 600 but not for English language. Only admitted applicants who have successfully attained the minimum English proficiency score will be allowed to register for courses as per their study plan. Those with a score less than the specified minimum requirement can register for the University's non-transferrable Intensive English Course, and must clear the EmSAT related test (or equivalent) before an acceptance is issued. The same applies to students not fulfilling the physics or chemistry or mathematics or biology requirements. In this line, students can register for the University's non-transferrable remedial mathematics or physics or chemistry of biology course. They may be granted conditional admission but will not be permitted to register in any mathematics or physics or chemistry or biology courses, or any course that has that has mathematics or physics or chemistry or biology as Prerequisite(s), until the successful completion of the necessary remedial course (mathematics or physics or chemistry or biology).

School of Humanity Arts and Applied Sciences.

Conditional admission can be allowed for not achieving the Arabic language EmSAT score of 600 but not for English language. Only admitted applicants who have successfully attained the minimum English proficiency score will be allowed to register for courses as per their study plan. Those with a score less than the specified minimum requirement can register for the University's non-transferrable Intensive English Course, and must clear the EmSAT related test (or equivalent) before an acceptance is issued. The same applies to students not fulfilling the math requirements. In this line, students can register for the University's non-transferrable remedial math course. They may be granted conditional admission but will not be permitted to register in any Math or Statistics courses, or any course that has a math Prerequisite, until the successful completion of the necessary remedial-math course.

Remedial Courses for Undergraduate Programs

- Students not meeting the admission requirements have to take non- credit remedial courses as specified by the program
- All students taking remedial courses are given conditional admission and are only eligible for full admission to their specific undergraduate program upon passing the courses.
- A student who is registered for a non-credit remedial course should take a lower load of credit-bearing courses (maximum nine credits) till he/she successfully passes the remedial courses with a minimum grade of 60% (2.0/4.0)
- In order to fulfil the conditional requirements, the student is required to obtain a minimum score GPA of 2.0 on 4.0 scale in the credit bearing courses.

Admission for Transfer Students

- The university or college from which the student is transferring must be accredited by the Ministry of Education.
- The student's CGPA should be 2.0 or above.
- The student must have been a full time student prior to joining to AMUD
- The credits for a course are transferred if the student obtained 'C' or above in the course.
- The content of the transferred course is equivalent to at least 80% of the content of the course at AMUD.
- The final decision on credits for courses have been taken before is made by the Dean.
- Complete a minimum of 50% of the total number of credits required for degree to be awarded at AMUD

Re-admission of Former Students

- 1. New students who have missed two consecutive semesters of enrollment (excluding the summer semester) shall apply for re-admission by completing the re-enrollment form available on the student services. A new university ID will be issued and the student should pay the non-refundable fee for the application.
- Former students who have missed more than four semesters of enrollment at the university may apply for re-admission and a new university ID will be issued, provided that they meet the following requirements:

 The required average in secondary school certificate.
 A valid English Proficiency Certificate with the required score.
 Approval of the Dean and Registrar.
 - \circ Payment of the non-refundable application fee

After reviewing above documents, the Dean of the school and the Registrar confirm student acceptance to the previous program and draft a new study plan.

7.2. Application Process

Admission to all programs at Amity University Dubai are processed through the Admissions Office and in order for students to apply; students can:

- Apply online at the Amity University website <u>https://amityuniversity.ae/join-amity/application-process</u> and upload their applications along with supporting documents
- Contact admissions team at <u>admissions@amityuniversity.ae</u> for additional information
- Visit the Admissions office located on the ground floor of the University campus
- Submit the completed application form along with the required documents to <u>admissions@amityuniversity.ae</u>
- Offer letter shall be sent via email once the application has been accepted upon verification of the eligibility criteria.
- Pay the application and registration fees at the online payment portal on the website <u>https://payment.amityuniversity.ae/info</u>

7.3. List of required Documents:

- a. UAE Secondary School Certificate, or its equivalent, and grade transcript. Certified copies are acceptable
- b. Equivalency certificate issued by the ministry of education UAE for the holders of non UAE high school certificate
- c. Photocopy of valid passport and residency visa
- d. Photocopy of a valid Emirates ID Card
- e. Medical Checkup
- f. Status of UAE National Service for male students**
- g. Valid certificate of good conduct, issued by an official body
- h. Six passport-size photos
- i. A valid certificate of proficiency in the English language

** In line with the Federal law no. 6 of 2014, all Emirati male students graduating from high school in 2013-14 and seeking admission to the Amity University Dubai must show evidence of completing registration for the compulsory national service. This documentation is issued by the National and Reserve Service Authority which can be contacted at www.uaensr.ae.

Successful applicants will be granted a conditional offer until confirmation has been received from the National and Reserve Service Authority that students have been exempted. An updated offer will then be issued.

Applications will be processed by the Office of Admissions only after the payment of application and registration fees.

7.4. Seat Reservation

- a. Seat to a Undergraduate program can be reserved on payment of the non-refundable registration and application fees
- b. If the student asks to defer admission to the following semester and the request is approved, the same registration application fees will be applied to the following semester.

7.5. Falsified Admission Documents

Students found to have submitted falsified documents for seeking admission in any of the programs will be dismissed from the University with no refund of fee paid.

7.6 Recognition of Non-formal and Informal Prior Learning

Non-formal learning refers to various structured learning which do not have a course syllabus or certification associated with it such as program developed by organization, non-credit adult education courses, professional conference styled seminars, and continuing professional development. Informal learning refers to knowledge, skills, competencies learned at the work place in a non-structured mode.

The following policy and procedures set a framework for recognition of non-formal, and informal prior learning of prospective students and awarding credits when eligible. Transfer credits for formal prior education is governed by a separate policy (Transfer Admissions, Transfer Credits, and Advanced Standing).

Policy

This policy establishes a process that authenticates skills, knowledge and competencies gained through non-formal and informal learning as defined above. The principles of this policy are:

- 1. Approval of non-formal and informal prior learning credits necessarily occurs prior to the student's enrolment in the program. In this case, rigor evidence-based and transparent assessments are applied.
- 2. For an applicant to obtain credits, the applicant's knowledge, skills, experiences, and competencies will be weighed against course descriptions and related learning outcomes. The credits are only awarded when there is sufficient evidence that students have achieved all learning outcomes of the course.
- 3. The process provides students with guidelines and support to assemble sufficient evidence in the form of a portfolio and complete their applications. It is consistently applied to all students and across all programs, disciplines, units, courses, and competencies.
- 4. AMUD only recognizes non-formal and informal prior learning that is current, course relevant, and sufficiently covers the breadth and depth of knowledge that can match with university-level learning.
- 5. To grant credits AMUD will conduct a challenge exam to assess the achievement of learning outcomes of the relevant course.

- 6. For every course that has been successfully recognized against non-formal and informal prior learning experience, a grade of 'TR' shall appear on the transcript. This grade will not be used in the calculation of cumulative grade point average (CGPA).
- 7. No more than 50% of the credit for all courses in an individual undergraduate program may be awarded through this process including credit transfer, and not more than 25% for graduate programs.
- 8. In no case this policy and related procedures substitute for admission requirements.

Procedures

- 1. An applicant shall complete the non-formal/informal application stating the non-formal/informal credits that he/she wishes to be considered for recognition
- 2. The complete application form, along with all supporting documents and related evidence and the processing fee, will be submitted to Admissions. Evidence may include authenticated certificates of informal learning, projects, and specific portfolios, but in all cases of informal and non-formal learning, the student has to appear and pass a challenge exam for each course he/she is requesting a credit recognition for.
- 3. Admissions, in consultation with the relevant Dean, shall assign an academic advisor to assist the applicant in terms of assessment process, the kind of evidence that can be used, the administrative course of actions including the possibility to appeal a decision, an outline of the learning or competency outcomes against which students will be assessed, and the forms that can be presented to make the application successful along with the related timeline.
- 4. Admissions shall forward the student application and supporting documents to the Registrar's office. The Registrar office is responsible for making sure that the submitted documents are satisfactory. Upon confirmation, the Registrar Office will forward the complete file to the Dean of the relevant school who will establish an ad-hoc committee chaired by the particular Program Leader to assess and recommend or reject credit recognition. Partial recognition is not allowed.
- 5. The ad-hoc Committee shall complete an Assessment Evaluation form and submit it to the Dean of the relevant School. This form will list all the courses for which the credit recognition has been granted along with a separate list of courses for which no credit recognition was awarded. The ad-hoc committee may also ask the applicant to submit further documentation and/or evidence.
- 6. The Dean will check the assessment form submitted by the ad-hoc Committee and ask for further clarifications, in particular, those related to the recommendations of the Committee and the rationale behind its decisions before approval.
- 7. The approved file including assessment form shall be submitted by the Dean to the Registrar Office who will present the applicant's case to the Vice President of Academics for final approval.
- 8. The decision will then be communicated by the Vice-President Academics Office to Admissions who will forward it to the concerned applicant. If an applicant is not satisfied with the decision, he/she can file an appeal with Admissions within two weeks of receiving the decision.
- 9. In this line, an Appeal Form including the following main details is filled out by the applicant (annexed to this policy):
 - Contact details of the applicant
 - Appeal information including the rational for the appeal and additional supporting documents that he/she wishes to be considered
 - Student declaration that the submitted documents are accurate and authentic.
 - Student declaration that they are aware that they can only appeal once with respect to specific credit recognition.
- 10. Upon receiving the dated appeal, an ad-hoc Appeal Committee shall be established by the Vice-President Academics and Chaired by the Registrar to look at the applicant's appeal and provide its recommendation to the Vice-President Academics within one week of the start of its mandate. The Vice-President Academics will act on the recommendation and render the final decision. This decision is forwarded to Admissions and shall be immediately communicated to the applicant within two days of receipt from the Vice-President Academics Office. The decision is final and cannot be appealed again.

Assessment of Non-Formal and Informal Prior Learning

AMUD will use one or a combination of the following assessment modes in conducting this exercise:

- 1. Comparable examinations or tests that were used to assess the achievement of learning outcomes or qualifications in its programs, modules, and courses.
- Review of the portfolio of evidence which includes documents such as certificates (attendance, completion, achievement, etc.), and/or official job descriptions or statement of duties and responsibilities, letters of reference from employers detailing applicant's relevant skills and experience, and samples of work performed
- 3. Onsite observation of applicant's relevant skill and/or competence under assessment.
- 4. Assessment of reflective papers, journal articles, or similar documents authored by the applicant that can strengthen his/her file.

Assessment Processes

AMUD has an established assessment process that includes but not limited to the following elements:

- 1. A list of undergraduate and graduate courses for which credit recognition may be awarded;
- 2. A list of the learning outcomes for each course or qualification;
- 3. For each course, the qualifications, and experience required of the individual or individuals performing the assessments; currently, the general attributes include a minimum of five years of industry experience, an earned doctoral degree, and three years of academic experience at a recognized institution of higher education.
- 4. A comprehensive and detailed list of the types of evidence that may be submitted with the application (already discussed in this policy under assessment of non-formal and informal prior learning).

Recognition of Nonformal and Informal Prior Learning Policy has been submitted to and approved by the CAA and complies with Annex 20 of CAA Standards.

8. Registration and Withdrawal

Registration is a process in which all students provide specific details which are required to complete admissions process in addition to submitting important personal information required for administrative purposes. All students shall register through University LMS. The *User ID* and *Password* to access University LMS is provided upon payment of full tuition fees, and any other applicable, fees. Students are allotted an Enrollment Number once all information has been successfully submitted on University LMS. Please note that the Enrollment Number is an important reference and required by the student throughout the program of study. As soon as registration fees is paid, students are given access to University LMS to complete their profile submission. Students are also given time to register any remaining details during the orientation process.

8.1. Re-registration

Students who have already been registered and are continuing with their program should re-register and pay the tuition fee and other dues on or before the commencement of the academic session. All re-registration processes must be completed within the first two weeks of the semester. Students failing to re-register will be removed from the student list and shall not be eligible to attend classes.

8.2. Re-admission and Rejoining

Students who have withdrawn or taken academic break for one year and wish to rejoin or take re-admission will need to take prior approval from the Dean. For students rejoining after academic break, the fee structure will be maintained at the same level as was applicable when the break was agreed. However, students who rejoin the program after formal withdrawal or after being declared 'No show', shall pay fee as prevailing for students then on the program.

Add and Drop:

- During the add/drop period, students may add or drop courses without incurring charges. If a student withdraws from one or more courses during the add/drop period, the fees of the dropped course(s) will be credited to the student account for the following semester.
- A student may withdraw from one or more course(s) after the end of the add/drop period, provided she/he remains registered in at least three courses during that semester (nine credit hours). In this case, the student does not have the right to claim any refund for the fees of the withdrawn courses.

8.3. Withdrawal

Students may withdraw from a particular course due to academic/non-academic reasons. Withdrawal from a course does not affect the GPA of the student. Students can withdraw from a course in which they have registered maximum up to 14th week of semester classes. Withdrawal from a particular course should be done before the withdrawal deadline date failing which the request to withdraw from a course will be declined. No refund of fee or adjustments shall be permitted.

8.4. Change of Specialization or Program

Students may request a change from their current program of study or specialization once during their time at the university. This will be considered, provided the student meets all of the eligibility criteria set for the program and there are places on the program or specialization requested. This may incur additional tuition fees and charges. All transfers for a change of specialization or program are to be requested three weeks before the commencement of the new semester and transfers will be effective from the following new semester.

No transfer requests will be entertained two weeks after the commencement of classes. The tuition fees for the new program or specialization will be applicable from the semester in which the change is made. There will be no adjustment to the fees of the previous, completed semesters. Students who are enrolled in programs that have multiple sections are permitted to change sections once only at the beginning of the following semester, if seats are available on a first come first serve basis. Students are required to contact the Registrar's Office and their respective Program leader and complete the required form in advance of the change being made. The University reserves the right to accept or reject requests for a change of specialization or program or section.

8.5. Credit Transfer

Students who secure lateral admission from some other institution / university, will be given credit transfer as per the course mapping done by the institution and approved by the Registration and Admissions Committee. No more than 50% of the credit for all courses in an individual undergraduate program may be awarded through this process including credit transfer, and not more than 25% for graduate programs.

9. Financial Policies

Amity University Dubai finance and fee policies are mentioned in detail in the Policies and Procedures manual. It contains a brief description of different types of fee for programs and policies governing registration and refund.

9.1. Application Fees

An application fee of AED 100 (USD 30) must be included with every application. Applications sent without the application fee will not be processed.

9.2. Registration Fees

Upon receiving and accepting an offer, students should register for the program offered, by paying the non-refundable registration fee of AED 3000 (USD 825). Those students who have been awarded 100% scholarship, the registration fee of AED 3000 must be paid in full, which will not be adjusted against any other dues or will not be refunded.

9.3. Caution Deposit

All students joining the program must pay a one-time caution deposit at the time of joining according to the table given below:

PROGRAM	AED	USD
Amity Business School	2,000(refundable)	550
School of Engineering, Architecture and Interior Design	3,000 (refundable)	825
School of Humanities, Arts and Applied Science	3,000 (refundable)	825

9.4. Tuition Fees

- Tuition fees are payable upon accepting the offer for admission and joining the program.
- Fees are payable in two installments, due on the first day of each semester. A post-dated cheque for the second payment should be given at the start of the first semester.
- International students are required to pay the entire fee in advance.
- Tuition fees for the subsequent academic year must be paid (for by the end of the first week, of each academic year. In case of unpaid fees by the last payment date set by the University, a charge of AED 200 per week will accrue for late fee payment.
- A charge of AED 250 will accrue for any dishonored charges.
- Failure to pay may result in exclusion from all University facilities and from sitting examinations.
- All fees must be cleared in order to receive award certificates and course completion certificates. *In the case of change of program, the program with high fee will be applicable for the rest of the duration of study.

The University reserves the right to increase the tuition and other fees up to 10% per academic year when deemed necessary, and as per Federal Law no. (8) of 2017 on Value Added Tax, 5% VAT will be added to all fee, as applicable.

Undergraduate and graduate fees for courses and programs are determined in accordance with the credit hours system and are available in undergraduate and graduate catalogs. The fees for the remedial courses is also available in respective catalogs.

Additional Fee: Lab fee for each registered course having lab sessions.

Upon registration, students should pay the tuition fees in full in order to avoid the late payment fees or suspension of any or all AMUD services. The University has the right to take necessary action against students with pending/ balance fees.

9.5. Refund of Tuition Fees

9.5.1. Total Refund

- If the student is unsuccessful in obtaining a student visa.
- If the offer is withdrawn by AMUD due to non- fulfillment of eligibility criteria
- If the university is unable to provide the program.

9.5.2. Partial Refund

- If a student withdraws before the commencement of the semester, all tuition fees paid in advance are refundable except the application and registration fee.
- If a student withdraws within the first 14 days from the commencement of semester, the student shall be eligible for a refund of 50% of the tuition fee paid for the respective semester.

9.5.3. No Refund

- If a student withdraws after first 14 days from the commencement of any semester, the student shall not be eligible for a refund of the tuition fee or registration fee paid for the relevant semester.
- Students, who have either suspended or excluded from the university for disciplinary reasons or for not maintaining minimum standards or academic progression, shall not be eligible for any refund of tuition fees.

Fee Program **Program (AED)** (USD) Per Program Per Fee per Total Fee Total Proposed PROGRAM Year Duration Year credit Number per Number Fee Proposed (Years) (USD) (AED) (AED) credit of (USD) of Fee (USD) credits credits (AED) **Amity Business School Bachelor of** 2,100 123 258,300 64,575 4 580 123 71,340 17,835 **Business** Administration 2,100 123 258,300 64,575 4 580 123 71,340 17,835 **Bachelor of** Commerce **Bachelor** of 2,100 123 258,300 64,575 4 580 123 71,340 17,835 Finance School of Engineering, Architecture and Interior Design **Bachelor** of Science in 2,200 140 308,000 77.000 4 605 140 84,700 21,175 Aerospace Engineering **Bachelor** of 2,200 140 308,000 77,000 4 605 140 84,700 21,175 Science in Civil Engineering **Bachelor** of Science in 2,200 140 308,000 77,000 4 605 140 84,700 21,175 Computer Science **Bachelor of** Science in 2,200 140 308,000 77,000 605 140 4 84,700 21,175 Electrical Engineering **Bachelor of** Science in 2,200 140 308,000 77,000 4 605 140 84,700 21,175 Mechanical Engineering **Bachelor of** 2,200 140 308.000 Science in 77,000 4 605 140 84,700 21,175 Biotechnology **Bachelor** of Science in 2,200 140 308.000 77.000 4 605 140 84,700 21.175 Information Technology **Bachelor of** 5 2,200 167 367,400 73,480 605 167 101,035 25,259 Architecture **Bachelor** of 2,200 140 308,000 77,000 4 84,700 16,940 605 140 **Interior Design**

9.6. Tuition Fees (Undergraduate Programs):

AMITY UNIVERSITY DUBAI 29

School of Humanities, Arts, and Applied Sciences										
Bachelor of Digital Media and Communications	2,100	120	252,000	63,000	4		580	120	69,600	17,400
	Program (AED)						Fee Program (USD)			
PROGRAM	Fee per credit (AED)	Total Number of credits	Proposed Fee (AED)	Per Year (AED)	Program Duration (Years)		Fee per credit (USD)	Total Number of credits	Proposed Fee (USD)	Per Year (USD)
Bachelors of Animation and Film Production	2,100	120	252,000	63,000	4		580	120	69,600	17,400
Bachelor of Fashion Design	2,100	120	252,000	63,000	4		580	120	69,600	17,400
Bachelor of Hospitality and Tourism Management	2,100	120	252,000	63,000	4		580	120	69,600	17,400
Bachelor of Science Psychology	2,100	120	252,000	63,000	4		580	120	69,600	17,400
Bachelor of Economics	2,100	120	252,000	63,000	4		580	120	69,600	17,400
Bachelor of Science Forensic Science	2,200	120	264,000	66,000	4		605	120	72,600	18,150

Please note that all fees above are excluding VAT

9.7. Other Fees

OTHER FEES	Payment Frequency	Fee - AED	Fee - USD
Common Fee			
Application Fee	One Time	100	30
Registration Fee -UG/PG/PhD	One Time	3,000	825
Caution Deposit - HAAS and Engineering (Refundable)	One Time	3,000	825
Caution Deposit - Management (Refundable)	One Time	2,000	550
Visa Fee			
Visa Deposit (Refundable)	One Time	3,000	825
Visa Fee (new) - Students outside UAE	One Time	2,400	660
Visa Fee (new) - Students inside UAE	One Time	4,000	1,100
Visa Fee (new) - additional charges for express services	As Applicable	1,500	415

Visa Fee (renewal) - additional charges for express servicesAs Applicable1,000275Medical Insurance FeeAnnual1,500415Medical insurance - Jan intake (for the period Jan to Aug)As Applicable1,000275Medical insurance - (if applied from April onwards)As Applicable750210Hostel FeeMedical insurance - (if applied from April onwards)As Applicable750210Hostel FeeMedical insurance - (if applied from April onwards)One Time2,000550Hostel FeeSingleAnnual40,00010,960Hostel Fee - SharedAnnual25,0006,850Visa Cancellation FeeOne Time500140Visa Cancellation FeeExpressAs Applicable1,200330Other FeeAs Applicable1003030TECOM lettersAs Applicable1003030TECOM letters - driving licenseAs Applicable10030Cheque (PDC) deposit extension chargesAs Applicable10030Questarting fee/Re-checking chargesAs Applicable1,000275Re- Totaling fee/Re-checking chargesAs Applicable1,00030Degree Certificate chargesAs Applicable10030Degree Certificate chargesAs Applicable1,00030Re- Totaling fee/Re-checking chargesAs Applicable10030Medical inservesAs Applicable10030 <tr <td="">3030</tr> <tr><td>Medical Insurance FeeAnnual1,500415Medical insurance - 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9.8. Payment Methods

Payment can be made at the Fee Counter in the university between 9.00am and 3.30pm on all working days by cash, cheque or credit card. Fees can also be paid by bank transfer

Account Name: AMITY UNIVERSITY Account Number

- For Payment in AED use account number AE040260001014339551401
- For Payment in USD use account number AE820260001024339551403
- For payment in EUR use account number AE550260001024339551404

Bank Name: Emirates NBD

Bank address: Dubai Media City Branch, Dubai, UAE

Swift Code: EBILAEAD

All bank charges are to be borne by the remitter. Please include the full name and AUD number of the student with all transfers and send a copy of the bank confirmation to the finance office.

10. Undergraduate Grading Policy

10.1. Undergraduate Grading Policy Letter Grade System

Students' academic performance, as the aggregate of all components of evaluation, shall be reflected by letter grades on a 4 point scale, the descriptions of which are provided in below table (the broad guidelines for which are given in section 10.4).

GRADE UG	MARK EQUIVALENT	NUMERIC VALUE	NOTATION			
А	90-100	4.00	Distinction			
A-	87-89	3.70	Excellent			
B+	84-86	3.30	Very Good			
В	80-83	3.00	Good			
В-	77-79	2.70	Fair High			
C+	74-76	2.30	Fair			
С	70-73	2.00	Satisfactory High			
C-	67-69	1.70	Satisfactory			
D+	64-66	1.30	Weak			
D	60-63	1.00	Conditional Pass			
F	Fail [<60]					
Р	Pass					
W	Withdrawal before the Drop End Period					
Ι	Incomplete					
NC	Credits are not counted towards graduation requirements					
WF	Administrative Withdrawal					
CC	Satisfactory progress in a continuing course					
TR	Transferred credits from another accredited institution or prior learning					
CX	Passing grade via proficiency of challenge exam					
AU	Auditing the course only. No assessment required.					

TABLE

Minimum GPA requirement: for the successful completion of Amity undergraduate program students must secure a minimum cumulative CGPA of 2.0 on 4.0 scale (equivalent to 70%) with no course having a grade less than D (equivalent to 60%) according to the following the grading scheme.

10.2. General Guidelines for Award of Grades are:

(i) Evaluation of different components of a course unit for each student shall be initially done in numerical marks. (ii) The marks of different components shall be assigned out of 100 and the same would be converted into grades as per grading policy.

(iii) Exam board may recommend relative grading for some courses in which the evaluation is very skewed as may be required.

10.3. Passing Criteria

A student has to fulfill the following conditions to pass any academic program of the University:

- (a) A student who has earned minimum number of credits prescribed for the concerned program as per the structure, curriculum and scheme of examinations, shall be declared to have passed the program of study. Credit Units for each program shall be decided by the Academic & Research Council.
- (b) Degree Requirement is 2.0 on 4.0 for all undergraduate programs.

11. Academic Progress

11.1. Academic Probation

- (a) Students who fail to achieve minimum CGPA required as mentioned above will be placed on Academic Probation.
- (b) During the academic probation students will be required to take a lesser work load, as may be advised by their respective program leader/Academic Advisor. Students shall also give an undertaking to that effect.
- (c) Once the student achieved the CGPA above the minimum, the student will come out of Academic Probation
- (d) As per the maximum enrollment duration (refer to AMUD-E03-Undergraduate Completion Requirements), students will have opportunity to improve their CGPA in order to graduate

11.2. Academic Break

(a) The Academic break recommended by Program Leader/Academic Advisor for any justifiable reasons (which must be recorded), can be granted for a period of one year. The final decision on Academic break will be taken by the Dean of respective School, taking in consideration circumstances of each case.

(b) The duration of approved academic break(s) shall not be counted in calculating maximum duration of completing a program.

11.3. Re-Registration

Students will be granted re-registration if they fall under the following categories:

- Students availing themselves of academic break;
- The name of the student has been struck off from the rolls due to non-payment of semester fee as per fee payment rules;
- The name of student has been stuck off due to continuous absences as per attendance policy;
- The student has been rusticated for a semester/year;

11.4. Disciplinary Control of Students in Relation to University Examinations

a. During examinations, the candidates shall be under the disciplinary control of the examination team members who will issue necessary instructions. If a candidate disobeys instructions or misbehaves with any member of the supervisory staff or university observer or the invigilators at the centre, he/she may be asked to leave the examination hall. The invigilator shall immediately report the facts of such a case with full details of evidence to the Head of Examinations who can formulate a committee to look into the case and suggest appropriate actions.

The said committee will make recommendations for disciplinary action as it may deem fit to the Dean of the concerned program.

b. Students shall maintain proper discipline and orderly conduct during the examinations. They shall not make use of any unfair or dishonest means or indulge in disorderly conduct in the examinations.

11.5. Acts of Disorderly Conduct in the Examination

- (i) Intentionally tearing off the answer book(s) or a part thereof or a continuation sheet or any other specific response sheet used in the examination.
- (ii) Causing damage to laboratory equipment.
- (iii) Disturbing or disrupting or instigating others to disturb/disrupt the examination. (iv) Instigating others to leave the examination room.

11.6. Acts of Unfair Means

- (i) Talking to another candidate or any other person, inside or outside the examination hall, during the examination without the permission of a member of the supervisory staff.
- (ii) Leaving the examination hall without handing over the answer book and or continuation sheet, if any, or any other specifically designed response sheet to the invigilator or supervisor concerned or the concerned authorized officer of the University deputed to the examination centre, and taking away, tearing off or otherwise disposing off the same or any part thereof.
- (iii) Possession of writing matter connected with or relating to a question or solving a question on anything (such as piece of paper or cloth, scribbling pad), other than the answer book, the continuation sheet, or any other response sheet specifically provided by the University to the candidate.
- (iv) Deliberately disclosing one's identity or making any distinctive marks in the answer book for that purpose.
- (v) Making appeals to the examiner/ evaluator soliciting favour through the answer book or through any other mode. (vi) Possession or having access to books, notes, paper or any other material, whether written, inscribed or engraved, or any other device, which could be of help or assistance to a candidate in answering any part of the question paper
- (vii) Possession of mobile phone, laptop or any electronic device which can be of help or assistance to the student in answering any part of the question paper.
- (viii) Concealing, destroying, disfiguring, running away with, causing the disappearance of or attempting to do any of these things in respect of any book, notes, paper or other material or device, used or attempted to be used by a student for assistance or help in answering a question or a part thereof.
- (ix) Passing on or attempting to pass on, during the examination hours, a copy of a question, or a part thereof, or solution to a question paper or a part thereof, to any other candidate or to any person.
- (x) Smuggling into the examination hall, and or receiving/attempting to receive any of the following:
 - An answer book or a continuation sheet,
 - Any other form of response sheet or a solution to a question paper or to a part thereof.
 - Taking out or arranging to send an answer book or continuation sheet, or replacing or attempting to get replaced the answer book or continuation sheet or any other response sheet during or after the examination with or without the help of or in connivance with any person connected with the examination, or through any other agency, whatsoever.
- (xi) Arranging to impersonate any person, or be impersonated by any other person at the examination.
- (xii) Forging a document or using a forged document knowing it to be so in any manner relating to the examination.
- (xiii) Any other act of omission or commission declared by the Academic and Research Council/Executive Council to be unfair means in respect of any or all examinations

11.7. Examination Appeals and Review

A student has a right to appeal against any punishment imposed on him/her within 10 days of the punishment being imposed. Student can do a representation to the concern Dean in writing. The Dean after investigating the case will make a final decision which will be binding on all.

12. Academic Appeal Procedure

University aims to ensure that university days are happy and run smoothly. Nevertheless, there may be issues that need to be resolved and suggestions for improvements that should be heard. If there is an issue, students are advised to contact the person in charge of relevant department to resolve the concern. Grievances can also be registered on Amity-Learning Management System (LMS) and will be forwarded to the appropriate person to be resolved. In the event of an unresolved issue, a complaint can be made in writing to the Dean of school to which the student belongs to. The information below details who to contact across a range of areas within the university. The Student Services will be able to help to direct any issues outside of these areas.

12.1. Internal Assessment: Appeals

- A student has a right to appeal against any punishment imposed on him/her within 10 days of the punishment being imposed. Student can do a representation to the concern Dean in writing. The Dean after investigating the case will make a final decision which will be binding on all.
- In the event that the Program Leader is the faculty member of the course in which the student makes an appeal, Dean will appoint an alternative faculty member;
- Final appeals can be made to Deans within two weeks of receiving the outcome of the meeting with the Program Leader. The Deans may identify an academic staff member based on the subject expertise to advise him on the issue. The decision of the Dean is final and binding;
- There shall be no contest on the final academic judgement.

12.2. Appeals against Disciplinary Action

- A student may submit an appeal to the President to review the disciplinary action imposed within ten working days of receiving notice of the punishment.
- The President may refer the appeal to the Disciplinary Committee for review or constitute a committee for the same.

12.3. Examination Appeals

- A student may apply to the Head of Examinations if they have reason to believe that there is an error in the published results. All challenges must be raised within 10 working days of the results being published;
- The Head of Examinations will re-check the answer script to ensure that all marks awarded are included in the total and that no section of any answer left un-evaluated.
- If the recheck reveals, subject to the provisions of the Regulations, any discrepancy resulting in the students' marks being revised, the record shall be corrected accordingly and a revised grade sheet shall be issued after the previous grade sheet is surrendered;

Other appeals not covered in the above categories can be raised to the President's office. The decision of the President on all such matters is final and binding.

12.4. Summer Semester

Summer semester is divided into summer I and II each of 6 weeks duration. Students can take a maximum of 6 credits in each summer semester. Examinations are conducted in last week of the semester. Summer semester aims to provide opportunity for students to improve their academic performance. This also provides additional time so that students can complete their degree plan faster. Internship is a compulsory course in all undergraduate programs. Students can register for internship in summer after completion of 3 years of undergraduate study.

12.5. Issue of Results, Grade Sheets and Degree Certificates

- Grades are usually declared within 12-14 days after the final day of examinations.
- Duplicate Grade Sheets can be issued on payment of the required fee.
- If grades are revised following appeals or re-sits the original grade sheet will be required to be returned prior to using a new one.
- Students may contact the Student Services with regard to attestation of their degree Certificates.

13. Academic Advising

Academic advising is the backbone of the academic operations at Amity University Dubai. The goal of all academic advising is to provide a network of student-centered support across the university and encourage a collaborative relationship between student and advisor that contributes to the overall student success. The sole mission of academic advising at Amity University Dubai is to help students in their holistic growth by developing meaningful educational plans that are compatible with their life goals as well as identify areas of immediate concern and guide them like a friend, philosopher and guide. All faculty members are involved in academic advising and can refer students to the Counselling and Wellbeing Centre, wherever required.

Academic orientations are important for all freshmen students, which is followed by the Registration and advising week. Students are allotted Academic Advisors at the beginning of their first term at AMUD. A minimum of 25 to 30 students are assigned to one Academic advisor and they are advised to maintain student academic records for all semesters. Students are encouraged to maintain a close liaison with their Academic Advisor from the first term till the graduation from AMUD. Academic Advisors often provide students with information and perspective related to academic policy and concerns, address their specific course related problems/issues and are instrumental in other academic professionally related development. However, the ultimate responsibility for fulfilling degree requirements rests only and only with the student as they are required to become intimately familiar with the various program requirements and necessary requisite coursework and sequencing.

The goal of Academic Advising is as follows: -

- Expand students' knowledge on their academic responsibility and familiarize them with the course requirements, course sequencing and work-load during their academic years.
- Acquaint them with the credit system of education followed by Amity University Dubai
- · Facilitate students in the selection of appropriate courses for optimizing their academic performances
- Orient students to the academic warnings and progression policies
- Review the academic records of graduating students and help students with difficulties/ low scorers to have an appropriate graduation plan
- Familiarize freshmen with University services; Learning Resource Centre (LRC), information technology, laboratories, student services, etc.
- Encourage students to reach their full academic potential by setting up regular meetings and staying updated on their academic status
- For existing students who are achieving subpar results due to any personal or emotional reasons, the academic advisor makes a due referral to the Counselling and Wellness Centre for the wellbeing of the student.

14. Attendance Policy:

Students are expected to be in class for all scheduled class periods (including make-up classes). All matters related to student absences are specified in the course syllabus. The university gives flexibility to the faculty to set their attendance policy based on the course, program learning outcomes and practical/laboratory requirements. a. Students are required to be punctual and attend all registered classes and be present for entire duration of the class.

- b. Students are expected to have 100% attendance. However, 75% attendance in each course is compulsory. If their absences are because of ill health or other valid reasons, students must submit written requests, along with the necessary evidence to their Program Leaders whenever they rejoin the classes. These absences should not exceed 25%.
- c. If a student is participating in any national or international level extra-curricular/co-curricular activities representing the University and has achieved a minimum of 50% attendance, they can be permitted to continue in the course with approval of his/her Program Leader.
- d. Students must take responsibility for checking their attendance record and should contact their Program Leader immediately if there are any discrepancies.
- e. Students who have missed classes that they have registered for, without any communication, for a continued period of two weeks and whose attendance is less than 25%, will be declared as "No Show students". The names of such students who are "No Shows" will be de-registered from the list of registered students. In such cases, the student will need to reapply for fresh registration by paying the registration fee again. Student must clear all outstanding dues before reregistration.
- f. Students who do not fulfill the minimum attendance requirement of 75% will have to withdraw from the course irrespective of marks they have been awarded for various components of assessments in that course. There would be no carry forward of marks for any of the assessments completed. The withdrawal will not affect the CGPA but will be reflected on the student transcript. Such students may re-register for that course by paying the prescribed fee, whenever it is offered next. There will be no refund of fee for withdrawal on account of not meeting minimum attendance requirements. Fees already paid will not be adjusted nor refunded.
- g. If a student fails to withdraw from the course where attendance requirement is not met it would be a forced withdrawal with no carry forward of marks.
- h. Any grievance appeal relating to attendance must be submitted to Program Leaders before the withdrawal deadline.
 An attendance appeal form will have to be filled stating the reasons for missed classes and attaching valid documents as required. The Program leader on the basis of student's previous semesters performance and after examining the circumstances of long absences will make necessary recommendations to the Deans. The Deans will make the final decision on withdrawal or continuation of the student in that particular course.

15. Student Services

Student services caters to different needs of students including issuing of recommendation letters, bonafide letters, visa support, health insurance support etc. Other prominent services include:

15.1 Careers and Employment: Corporate Resource Center (CRC)

The Corporate Resource Centre (CRC) at the University is an important unit bringing academicians, leaders from industry and students together. A student who enrolls for an academic program, which includes an internship or placement, is oriented to work base learning. Students attend workshops to improve their CVs, build their profiles and learn communication skills before they go on internship/placement. The programs and services are designed to increase student confidence, positive attitude, and marketability for job opportunity and provide the necessary skills and information to succeed in pursuing a successful career.

The CRC also provides comprehensive career planning services to students by providing expertise, resources, and support. It facilitates students to build bridges for successful future careers and helps them to make a smooth transition from educational environment to employment or further educational pursuits. Summer internships and placements for students are coordinated by the CRC.

Career counselling sessions are also organized for students to orient them towards corporate world. Students are reminded that a successful internship is an integral part of their program and provides opportunities for easy migration to an industry setting. During internship, every student is assigned an *industry guide* and an *academic guide*. While the industry mentor shall facilitate the student to understand the demands of the task assigned, the academic *guide* shall be an easy point of reference to support the student with any additional academic demands placed on him/her. Students shall present themselves on time during the period of internship. Absence, abandoning the project, and/or any unprofessional approach at the internship site may exclude students from consideration for future internships and placements. Students, while on their internships, shall submit periodical reports to their academic *guide*/CRC as may be required. Failure to submit the forms required for the internship at different stages will result in an "F" grade being awarded to the student in internship course.

15.2 Incubation Center

The Incubation Center supports student ventures from concept-stage startup to a sustainable, disruptive business with real-world impact.

These services include, but are not limited to, the following:

- Step-by-step guidance on how to create a successful business.
- Assistance with basic business concepts.
- Help with developing a viable business model.
- Assistance with intellectual property issues.
- Linkages to prospective customers.
- Linkages to strategic partners.
- Networking opportunities among participants.

15.3 Counselling and Wellness Center:

Amity University Counselling and Wellness Centre offers a confidential counselling service. The counsellors can help with social, emotional, personal and behavioral problems and is accessible to all students. When required, outside agencies are also engaged to provide further support. The counselling team also assists students with additional needs to gain access to any other required support to succeed on their chosen program.

Amity University Dubai is committed to providing an environment that encourages personal growth and social interaction in an atmosphere of acceptance and support. We strive to remove all stigma, embrace differences and be an inclusive university where respect for self and others is given.

16 Student Rights and Responsibility

Amity University Dubai endeavors to ensure that all the students joining the institution, successfully complete their programs and pass out as well-rounded graduates. For this, the students are provided with equal opportunities depending on the demands of their respective programs.

In addition, all students have equal access to extracurricular activities. In all such engagements, students shall, at all times, abide by and respect the laws of the land, and uphold its rich culture and heritage, as well as the institutional values. The university expects students to be responsible and meet the higher standards of conduct as they are essential members of the academic community.

(For detailed rights and responsibilities list, please refer to the student handbook)

17 Academic Integrity

Amity University Dubai is committed to operate in a fair and transparent manner in every area to ensure the highest standards in the conduct and delivery of all assessments. In order to demonstrate academic integrity, students must produce their own work. Any material received from other sources or project collaboration must be appropriately acknowledged. Students must also present their findings, conclusions, or any other information based on appropriate and ethical practice.

17.1 Types of Academic Misconduct/Breach of Academic Integrity:

17.1.1 Plagiarism

Plagiarism is an act committed by someone who presents the ideas or work of other people and represents them as his/her own work. It includes copying from a variety of sources and types of materials such as:

- Written research, books, articles, and theses.
- Graphic illustrations, images, and motion pictures.
- Graphs, maps and models
- Audio-visual material
- Online material
- Material including students copying from scripts of other students

Similarly, the following are considered as an act of plagiarism:

- When any academic work is submitted, which is an identical work of someone, and its source is not acknowledged or is without the quotation marks.
- When the same assignment is submitted in different courses without taking the permission from the faculty involved. This also applies to the submission of a student's own previous submitted assignment, or combining the parts of his/her previous assignment in current work, without taking any prior permission from the faculty involved.
- When a student uses phrases from an original source without putting them in quotation marks, or replaces the words with the synonyms and keeps the structure and meaning same as the original source.
- When a student does not cite the source from where he/she has taken the information, and misquotes, or paraphrases the original source using the same structure of the sentences and does not acknowledge the source.
- When a student, without taking any prior permission from the concerned faculty, asks or hires someone to write his/her research or assignment on behalf of him/her.
- When a student presents a false or invalid research data in a given assignment deliberately.

- When a student copies any content from any online source without giving a due credit to the original source.
- When a student uses any graphic materials (audio visual aids, images, motion pictures, etc.) and presents them as his own without giving credit to the original source from where they have been taken.
- When a student presents or submits the translation of someone's work as his own and does not cite or credit the original source or the author.
- When a student Cheats during examination including the following types; \circ The use of materials not permitted by the University during the exams, including stored information on electronic devices. \circ Copying answers from another student during examinations/academic submissions.
 - Amending graded exams or assignments and submitting for re-evaluating.
 - Collaborating with or assisting another student without permission.
 Providing the wrong facts such as wrong or false data for a computer lab exam.
 Getting someone else to help with the exam.
 - Any other form of dishonest behavior that results in undue advantage.

17.1.2 Facilitating Academic Dishonesty

- i. Sharing an assignment with another student and allowing him/her to copy that assignment or set problem which is meant to be done individually.
- ii. Showing the answers during the test or any other assessment to another student and allowing him/her to copy.
- iii. Taking a test or writing an assignment for another student.

17.1.3 Deception

When a student provides information that is fabricated to faculty members regarding a formal academic exercise, which includes making a false excuse for missing a deadline or falsely claiming to have submitted the work.

17.1.4 Sabotage

When a student prevents others from finishing or submitting their work, which includes tearing pages from books borrowed from the library or deliberately disrupting other people's experiments and projects.

17.1.5 Violation of Examination Rules Conducted on Campus or Online:

The provisions of this policy shall apply to all academic students. Appropriate actions will be taken to ensure that the academic integrity is not breached at any time during the examination (On Campus or Online)

17.1.6 Examination Code of Conduct

The following actions will result in the disqualification of a student from the exam, if he/she:

- Arrives 30 minutes late than the scheduled examination time without a valid reason.
- Does not carry valid AMUD student ID and Examination admit card.
- Shows non-compliance with the instructions of the examination hall supervisor or any of the invigilators and disrupts the decorum of the examination, and/or causes examination delays for no reason.
- Attempts to cheat or assists another student to cheat in any form.
- Provides false personal information on answer booklet (on campus) sheets or attendance sheet.

- Possesses or uses any form of communication, storage or any other electronic devices during on- campus or online exams. These include but not limited to mobile phones, smart watches, headphones, and earphones even if switched off.
- Possesses unauthorized academic materials related to the examination subject matter in any shape or form.
- Refuses to hand over the answer booklet to the examination supervisor or any of the invigilators before he/she leaves the exam hall.
- Gets involved in any physical or verbal assault with an invigilator, other students, or any other person in the examination hall.

Cheating in online examinations, tests, quizzes, assignments, projects, or any other form of assessed academic activity. This may include but not limited to: collaborating with one or more students or individuals in conducting assessment activities, unlawful use of any electronic devices or software, unlawful communications with other students or individuals, impersonation, fully or partially obscuring the face and head by wearing for example, a cap or hat, i.e. the face and head must be in the center of the webcam view at all times, leaving the examination for a while, taking screen shots during the examination, taking a break from the examination, and any other act that violates the sanctity of fair online assessment.

17.1.7 Violating Examination Code of Conduct

One of the following penalties shall be imposed on the student who violates the Examination Code of Conduct

- A written warning is issued for every student committing a violation with regards to examination code of conduct (on campus or online).
- A student committing one or more examination violation for the first time will be awarded a failing grade (grade F) for the course in which the student committed the violation. The student shall pay the full course backlog fee.
- A student committing one or more examination violation for the second time will be awarded a failing grade (grade F) for all courses registered in the semester in which the student commits the violation. The student shall pay the full course fee for all courses registered in the semester.
- A student committing one or more examination violation for the third time will be awarded a failing grade "F" for all courses registered in the semester in which the student commits the violation and will be suspended for the following two semesters. The student shall pay the full course fee for all courses registered in the semester.

17.1.8 Responsibility of Faculty:

Faculty members must provide guidance to students on the following points:

- a. How to avoid plagiarism
- b. How to reference the works of others properly and correctly

Faculty members are also required to take every act of plagiarism seriously and must ensure proper penalties for such acts. Faculty members must include warnings in the beginning when they are issuing instruction for assignments and project work. Faculty members must ensure that every student submits the assignments with all relevant documents along with the declaration of originality report.

17.1.9 Responsibility of Students:

Amity University Dubai wants to be fair to the students who do not resort to cheating and plagiarism or any other form of academic misconduct and at the same time wants to lower the probability of plagiarism. For this purpose, a set of procedures are established to detect the occurrence of plagiarism and to penalize those found guilty of being involved in such acts. While doing assignments, projects and making any reports, students must act with integrity and own the responsibility for creation and presentation of the work produced by them. They are also advised to seek guidance on detecting and preventing plagiarism from their faculty from time to time.

Students may take guidance from faculty members and faculty guides on ways to avoid plagiarism and referencing styles. All work must be written in student's own words. However, if required to cite the work of others, all the sources (for words, data, arguments and ideas) have to be appropriately acknowledged. Students are required to pass all written assignments through plagiarism detection software. A duly signed declaration form of originality is also required to be submitted along with all submissions.

In the case of group work submitted for assessment, the responsibility of the assignment is on each member of the group. Equally, the consequences of plagiarism are also on each member of the group. If students have worked in a group, but the submissions are different, it is the responsibility of each student to make sure that the submitted work is his/her own original work.

17.1.10 Originality Report:

AMUD has a zero-tolerance policy for plagiarism and uses software tools that generate originality reports. These reports are used by faculty to assist in the detection of plagiarism. AMUD requires all faculty members to exercise professional judgement accounting for the type, complexity, and the length of the assignment. To ensure that students are not unfairly penalized, faculty should pay particular attention to blocks of borrowed materials, cited sources of diagrams, and misleading concerns that could be due to the usage of common terminologies in particular those related to methods and statistical output.

17.1.11 Late Submission:

As a protocol, students are strictly advised to adhere to the deadline given by the respective faculty for the submission of the course work. In case of the delay in course work submission, the student is advised to seek prior permission from the course faculty/Program Leader stating clear and valid reasons along with evidences for requesting the extension in the submission. Any late submission without the approvals will not be graded.

17.1.12 Plagiarism Penalty

The concerned Faculty is responsible for checking the plagiarism in his/her coursework. If the faculty finds out that the plagiarism has been committed, an incident report along with the supporting evidence must be submitted to Program Leader, which will be subsequently forwarded to the Dean by the Program Leader for necessary action. AMUD has zero tolerance towards any act of plagiarism and overall, the Dean is responsible for taking an appropriate action depending on the seriousness of the case.

The Plagiarism penalty for the student will be as follows: -

- **First-time offense:** the faculty will assign a grade of **zero to the particular assignment** and the case is reported to the Program Leader who will send a warning letter to the student. A copy of the letter is kept in the student record.

- Second-time offense: this is considered as a repeated offense and dictates higher penalties. The faculty will assign a zero to the course. The case is reported to the Dean who issues a second and final warning letter to the student. A copy of the letter is kept in the student record.
- Third-time offense: the matter is reported to the Disciplinary Committee who can make decisions ranging from suspending the student for one semester to expelling him/her from the University.

17.1.13 Copying/Cheating/use of unfair means during examinations:

Use of any unfair means during test or examination would be reported to Examinations department by the faculty concerned. The faculty gives an incident report after which an unfair means form is filled in along with the evidence attached. The examination committee will convene and decide the penalty of the offence depending on the severity.

17.1.14 False documents:

Any falsified documents submitted during admissions would result in immediate dismissal from the university.

Each program includes general education as an essential component, along with major core, major electives, open electives and common courses across programs in a particular school. Each program has a minimum of 30 credits for major core and 15 credits for major electives. Open electives can be taken across programs above 200 level and as long as the prerequisites are met. Registration for open elective courses shall be done on first come first serve basis.

18 General Education

The General Education Program provides students with an overarching framework of knowledge and skills, to facilitate their intellectual, personal and professional growth. It further prepares them for being globally responsible citizens.

18.1 General Education Courses

The courses that fulfill the General Education requirement are:

- Public Speaking
- English for Academic Writing
- Arabic language
- Islamic Culture
- UAE studies
- Ethics and Professional Responsibility
- Innovation, entrepreneurship and sustainability

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CRCOURSE CODECOURSE #COURSE TITLE

CR

ARAB	102	Arabic Language	3
COMM	105	Public Speaking	3
ENGL	102	English for Academic Writing	3
GENE	120	Islamic Culture	3
GENE	210	UAE Studies	3
GENE	340	Innovation, Entrepreneurship and Sustainability	3
GENE	440	Ethics and Professional Responsibility	3

18.2 General Education Learning Outcomes:

- Demonstrate ethical and cultural sensitivity in regional and global contexts
- Formulate sustainable business plans with entrepreneurial prospects
- Demonstrate appropriate oral and written communication skills in various contemporary languages

19 Undergraduate Degrees

19.1 Amity Business School

The vision at Amity Business School is to prepare the next generation of business professionals through a culture that promotes engagement, risk-taking, cross-disciplinary collaboration, and data-driven decisionmaking. The School offers an academic setting that challenges students' intellectual abilities, deploys contemporary teaching and learning strategies to promote experiential learning, cultivates an ecosystem that develops future entrepreneurs, enhances emotional intelligence and soft skills, and practices applied research techniques throughout the curriculum.

Presently the Amity Business School offers programs in Bachelor of Business Administration, Bachelor of Finance and Bachelor of Commerce. The curriculum is aligned with reputable industry certifications in accounting (ACCA, CIMA, and ICAEW), finance (CFA), logistics (CIPS), marketing (CIM), and human resources (SHRM). All undergraduate and graduate programs are accredited by the International Accreditation Council for Business Education (IACBE).

The case-based teaching and learning strategy is a significant aspect of the learning model adopted by Amity Business School. Since 2011 close to a hundred GCC-based business cases have been developed by the Amity Dubai faculty members. The cases address challenges faced by both private and public sectors. All Case Studies are hosted by The Case Center- UK and are used by universities and organisations in various countries. Frequently, ABS brings out publications highlighting important activities in the UAE. In 2019, the school published a case booklet that consists of 11 cases that were focused only on Dubai Expo challenges and its positive impacts on the UAE economy. Applied research is another domain where the school excels. The supportive, collaborative, and vibrant research culture has produced many research papers that are presented or published in the Scopus conferences or journals.

One of the main priorities of the school is to foster strong bonds with private and public sector enterprises at the local, regional, and global levels. Students are given internship opportunities in various prestigious organizations. The School aims to continue to broaden and strengthen these industry relationships.

We are confident that the learning experience of students at the Amity Business School, crafts the next generation of adaptable, flexible, transformative, and ethical industry leaders and innovative start-ups.

19.1.1 Bachelor of Business Administration

BBA MISSION STATEMENT

The Bachelor of Business Administration Program at Amity Business School Dubai equips students with knowledge and skills allowing them to be socially responsible professionals able to make sound

business decisions in local and global dynamic environments. Our graduates are critical thinkers, assertive communicators, and lifelong learners able to conceptualize new ideas and transform them into viable business opportunities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Business Administration at Amity Business School Dubai aims at:

- (G1) Imparting theoretical and practical knowledge of business concepts across the different functional areas of the organization
- (G2) Developing students skills and abilities to make informed business decisions based on a critical analysis of the business environment
- (G3) Facilitating lifelong learning and the development of assertive learners who are able to express themselves responsibly and openly.

PROGRAM LEARNING OUTCOMES:

On successful completion of the Bachelor of Business Administration program, the graduate will be able to:

- 1. Knowledge
 - 1.1.Demonstrate understanding of relevant business management and allied subjects and research concepts and their application to various dynamic business contexts
- 2. Skills
 - 2.1.Critically analyze, solve, and formulate solutions to business problems
 - 2.2.Assess the micro and macro environments of a firm and propose viable business strategies
 - 2.3.Use information technology in data retrieval and business application
 - 2.4.Communicate effectively orally and in writing using appropriate media

3. Competence

- 3.1. Autonomy and Responsibility
 - 3.1.1. Work independently as well as collaborate effectively in a team setting
 - 3.1.2. Express personal views in a range of business contexts
 - 3.1.3. Take responsibility for developing innovative entrepreneurial and sustainable management approaches to ethically overcome complex business challenges

3.2.Self-Development

- 3.2.1. Take responsibility for own learning and development needs
- 3.3.Role in Context

3.3.1. Take responsibility for achieving outcomes with little or no supervision

MARKETING CONCENTRATION

In addition to preceding Program Learning Outcomes, graduates opting for the Marketing Concentration will be able to:

MC1: Demonstrate in-depth understanding of relevant principles of contemporary marketing concepts and their application to business contexts

MC2: Formulate marketing strategies based on market research to achieve sustainable competitive advantages

HUMAN RESOURCE MANAGEMENT CONCENTRATION

In addition to preceding Program Learning Outcomes, graduates opting for the Human Resource Management Concentration will be able to:

HR1: Demonstrate in-depth understanding of principles of contemporary Human Resources Management concepts and practices and their application to business contexts

HR2: Formulate human resource strategies that account for diversity and inclusion in the workplace

FAMILY BUSINESS AND ENTREPRENEURSHIP CONCENTRATION

In addition to preceding Program Learning Outcomes, graduates opting for the Family Business and Entrepreneurship Concentration will be able to:

FB1: Demonstrate in-depth understanding of principles of contemporary Family Business and Entrepreneurship concepts and practices and their application to business contexts

FB2: Conceptualize new ideas and transform them into viable business opportunities

INTERNATIONAL BUSINESS CONCENTRATION

In addition to preceding Program Learning Outcomes, graduates opting for the International Business Concentration will be able to:

IB1: Demonstrate in-depth understanding of global economy forces and related concepts and their application to business contexts

IB2: Evaluate diverse international business strategies by accounting for regulatory, environmental, and multicultural forces

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

BBA – QFEMIRATES [L7]	1. Knowledge 2. Skills									3. Competence										
										3.1.	Autor	nomy (and	2 2	Poloi	n Con	tovt	3	3.3. Se	lf
										R	lespor	sibilit	v	5.2.	NUIE I	n con	lexi	De	velopn	nent
	A1	A2	A3	A4	A5	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
1 Knowledge	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline, encompassing a broad	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional disciplines including	understanding of critical approach to the creation and compilation of a	a comprehensive understanding of critical analysis, research systems	familiarity with sources of current and new research and knowledge	technical, creative and analytical skills appropriate to solving specialised problems using evidentiary and procedural based	evaluating, selecting and applying appropriate methods, procedures or tochniques in processes of invostigation towards idontified colutions	evaluating and implementing appropriate research tools and	highly developed advanced communication and information technology eville to present - evolain and for criticing complex and	can take responsibility for developing innovative and advanced	can manage technical, supervisory or design processes in	can work creatively and/or effectively as an individual, in team bodorebia managing contacts access tochnical or professional	can express an internalised, personal view, and accept responsibility to cociety at brea and to cocie outward borner and calationshipe	can function with full autonomy in technical and supervisory contexts	can take responsibility for the setting and achievement of group or individual outcomes and for the management and supervision of the	can participate in peer relationships with qualified practitioners and	can take responsibility for managing the professional development	can self-evaluate and take responsibility for contributing to	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
T. KIIOWieuge				I																

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BBA – QFEMIRATES [L7]	1. Knowledge				2. Skills				3. Competence								ĺ			
										3.1. F	Auto Respor	nomy nsihilit	and v	3.2.	Role	in Con	text	: De	3.3. Se velonn	elf nent
	A1	A2	A3	A4	A5	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
1.1. Demonstrate understanding of relevant business management and allied subjects and research concepts and their application to various dynamic business contexts	x	x		x																
<u>2. Skills</u>																				
2.1. Critically analyze, solve, and formulate solutions to business problems						x														
2.2. Assess the micro and macro environments of a firm and propose viable business strategies							x													
2.3. Use information technology in data retrieval and business application									x											
2.4. Communicate effectively orally and in writing using appropriate media									x											
3. Competence																				
<u>Responsibility</u> 3.1.1. Work independently as well as collaborate effectively in a team setting												x								
3.1.2. Express personal views in a range of business contexts													х							
3.1.3. Take responsibility for developing innovative entrepreneurial and sustainable management approaches to ethically overcome complex business challenges										x										x
3.2. Self-Development																				

BBA – QFEMIRATES [L7]	1. Knowledge				2. Skills				3. Competence											
				[_						3.1.	Auto	nomy	and	2.2	Dala		4	3	3.3. Se	elf
										F	Respor	nsibilit	y	3.2.	Role	in Con	text	De	velopn	nent
	A1	A2	A3	A4	A5	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
3.2.1. Take																				
responsibility for own																		х	х	
learning and																		~	~	
development needs																				
<u>3.3. Role in Context</u>																				
3.3.1. Take																				
responsibility for																				
achieving outcomes														Х						
with little or no																				
supervision																				
MARKETING																				
CONCENTRATION																				
MC1: Demonstrate in-																				
depth understanding of																				
relevant principles of																				
contemporary	х																			
marketing concepts and																				
their application to																				
business contexts																				
MC2: Formulate																				
marketing strategies																				
based on market																				
research to achieve						Х	Х	Х												
sustainable competitive																				
advantages																				
HUMAN RESOURCE																				
MANAGEMENT																				
CONCENTRATION																				
HR1: Demonstrate in-																				
depth understanding of																				
principles of																				
contemporary Human	~																			
Resources Management	Х																			
concepts and practices																				
and their application to																				
business contexts																				
HR2: Formulate human																				
resource strategies that																				
account for diversity						x														
and inclusion in the						~														
workplace																				

INTERNATIONAL												
BUSINESS												
CONCENTRATION												
IB1: Demonstrate in-												
depth understanding												
of global economy												
forces and related	Х											
concepts and their												
application to												
business contexts												
IB2: Evaluate diverse												
international												
business strategies												
by accounting for		Х			Х							
regulatory,												
environmental, and												
multicultural forces												
FAMILY BUSINESS												
AND												
ENTREPRENEURSHIP												
CONCENTRATION												
FB1: Demonstrate												
in-depth												
understanding of												
principles of												
contemporary												
Family Business and	Х											
Entrepreneurship												
concepts and												
practices and their												
application to												
business contexts												
FB2: Conceptualize												
new ideas and												
transform them into				Х								
viable business												
opportunities												

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR COURSE COURS **COREQUISI** CODE E # **COURSE TITLE** PREREQUISITES CR TES Arabic Language ARAB 102 ENGL 102 English for Academic Writing COMM 105 Public Speaking GENE 120 Islamic Culture 210 UAE Studies GENE Innovation, Entrepreneurship and Sustainability GENE 340 Ethics and Professional Responsibility GENE 440 3 **COMMON CORE (SCHOOL REQUIREMENTS) - 48 CR COREOUISI** COURSE COURS CODE E # **COURSE TITLE** PREREQUISITES TES CR ISYS 110 Computer Software for Business ENGL102 3 **Business Mathematics** QMET 110 ENGL102 3 Financial Accounting I ENGL102 ACCT 110 3 3 ACCT Financial Accounting II 120 ACCT110 3 MRKT Principles of Marketing 120 ENGL102 3 Principles of Management MGMT 120 ENGL102 3 ACCT 220 Managerial Accounting ACCT110 QMET Statistics for Business 210 QMET110 3 Business Law BUSN 220 ENGL102 3 3 Managerial Finance FINE 220 ACCT120; QMET11 3 ECON 210 Microeconomic Theory QMET110 BUSN 230 **Business Communication** ENGL102 3 ECON 310 Macroeconomic Theory ECON210 3 BUSN **Business Research Methods** 340 45 Cr./H 3 MGMT120; MRKT120; FINE220 MGMT 350 Strategic Management QMET210 3 3 **Business Simulation MGMT350** BUSN 450 **MAJOR CORE (PROGRAM REQUIREMENTS) - 33 CR** COURSE COURS **COREOUISI** CODE E # **COURSE TITLE** PREREQUISITES TES CR ISYS ISYS110 220 Management Information System 3 MGMT 240 Human Capital Management MGMT120 3 Fundamentals of Supply Chain Management MGMT 320 **QMET210** 3 3 ISYS 320 ISYS220 E-Commerce Financial Markets and Institutions 3 FINE 340 FINE220 QMET 350 QMET210 **Operations Research** ECON 330 Managerial Economics ECON210 3

MGMT	340	International Business Management	MGMT120; ECON310		3
BUSN	360	Internship	60 Cr./H		3
QMET	430	Business Analytics	QMET210		3
BUSN	440	Business Case Analysis and Writing	90 Cr/H		3
MAIOR FL	FCTIVES (C	CONCENTRATION REQUIREMENTS:	<i>y c</i>		5
MAJOR EL	EC 11VES (C NG) - 15 CR	CONCENTRATION REQUIREMENTS:			
COURSE CO	OURS	COREQUISI CODE E # <u>COURSE TITLE PREF</u>	REQUISITES TES CR		
MRKT	420	Consumer Behavior	MRKT120		3
MRKT	430	Strategic Brand Management	MRKT120		3
MRKT	435	Digital Marketing	MRKT120; ISYS220		3
MRKT	440	Retail Management	MRKT120		3
QMET	445	Marketing Analytics	MRKT120; QMET430		3
MRKT	450	Global Marketing	MRKT120; MGMT340		3
MRKT	490	Market Intelligence and Research	MRKT420		3
MAJOR EL	ECTIVES (C	CONCENTRATION REQUIREMENTS: HUMA	N RESOURCE MANAGEMENT) -		
15 CR	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
COURSE	COURS	COUDCE TITLE	DEDEOLUCITES	COREQUISI	CD
CODE	E #	COURSE IIILE	PREREQUISITES	IES	СК
	410	-			2
MGMT	410	Performance and Competency Assessment	MGM1240		
MGMT	420	Training and Development of the Workforce	MGM1240		
MGMT	425	Employee Engagement and Retention	MGM1240		3
MGMT	430	Managing Diversity and Inclusion	MGM1240		3
MGMT	440	Total Rewards	MGM1240		3
MGMT	470 ECTIVES (C	International Human Resource Management	MGM1240; MGM1340		3
COURSE	EUTIVES (U	UNCENTRATION REQUIREMENTS: INTER	NATIONAL BUSINESS) - 15 CR	COREOUISI	
CODE	E #	COURSE TITLE	PREREQUISITES	TES	CR
BUSN	445	International Legal Frameworks for Business	BUSN220; MGMT340		3
ECON	450	Global Economy	ECON210		3
ECON	455	Shipping and Documentation	MGMT320		3
ECON	460	International Trade	ECON210		3
MRKT	450	Global Marketing	MRKT120; MGMT340		3
MGMT	455	Global Sourcing and Negotiation	MGMT340		3
MGMT	470	International Human Resource Management	MGMT240; MGMT340		3
MAJOR EL	ECTIVES (C	CONCENTRATION REQUIREMENTS: FAMIL	Y BUSINESS AND		
ENTREPRE	ENEURSHIP)) - 15 CR			
COURSE	COURS			COREQUISI	
CODE	E #	COURSE TITLE	PREREQUISITES	TES	CR
	· · -	-			-
MGMT	425	Employee Engagement and Retention	MGMT240		3
MGMT	465	SME Ecosystem	MGMT120; ECON310		3
MGMT	475	Family Business Management and Governance	MGMT120		3
MGMT	480	Managing Venture Growth and Transition	MGMT350		3
		Technology, Innovation and New Product			
MRKT	465	Development	NRKT120		3
			DUGNICO EDIECCO		3
FINE	410	Finance and Tax Strategies for Family Business	BUSN220; FINE220		<u>_</u>
FINE FINE	410 430	Finance and Tax Strategies for Family Business Financial Risk Management	FINE220		3
FINE FINE MAJOR EL	410 430 ECTIVES (G	Finance and Tax Strategies for Family Business Financial Risk Management GENERAL BBA WITH NO CONCENTRATION	FINE220 FINE220 CHOOSE A MIX OF 15 CREDITS	FROM	3
FINE FINE MAJOR EL DIFFERENT	410 430 ECTIVES (G T CONCENT	Finance and Tax Strategies for Family Business Financial Risk Management GENERAL BBA WITH NO CONCENTRATION (RATIONS) - 15 CR	FINE220 FINE220 CHOOSE A MIX OF 15 CREDITS	FROM	3
FINE FINE MAJOR EL DIFFERENT COURSE	410 430 ECTIVES (G I CONCENT COURS	Finance and Tax Strategies for Family Business Financial Risk Management GENERAL BBA WITH NO CONCENTRATION (RATIONS) - 15 CR	FINE220 FINE220 CHOOSE A MIX OF 15 CREDITS	FROM COREQUISI	3

AMITY UNIVERSITY DUBAI 51

Any Combination of Credits from	Offered
Concentrations	

As per Catalog

OPEN ELECTIVES (CHOOSE 6 CREDITS FROM ANY PROGRAM SUBJECT TO FULFILLING THEIR PREREQUISITES IF ANY) - 6 CR

COURSE C	COURS			COREQUISI	
CODE	E #	COURSE TITLE	PREREQUISITES	TES	CR
		Open Elective I	As per Catalog		3
		Open Elective II	As per Catalog		3

PROPOSED SCHEDULE OF DELIVERY

	COURSE	COURS			COREQUISITE	
YEAR/SEM	CODE	E #	COURSE TITLE	PREREQUISITES	<u>S</u>	<u>CR</u>
YEAR 1	ISYS	110	Computer Software for Business		ENGL102	3
FALL	OMET	110	Business Mathematics		FNGI 102	3
THEE	ACCT	110	Financial Accounting I		ENGL102	3
	ENGI	102	English for Academic Writing		ENGETOZ	3
	ENGL	102	English for Academic writing			3
	GENE	120	Islamic Culture			3
						15
						3
SPRINC	ACCT	120	Financial Accounting II	ACCT110		
SI KING	MRKT	120	Principles of Marketing	ENGL102		3
	MGMT	120	Principles of Management	ENGL102		3
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
						15
						3
	L C C T	220		1.0000110		
YEAR 2	ACCI	220	Managerial Accounting	ACCITIO		2
FALL	QMEI	210	Statistics for Business	QMEIIIO	ENCI 102	3
	FINE	220	Managerial Finance	ACCT120: OMET110	ENGLIUZ	3
	GENE	220	UAE Studies	ACC1120, QME1110		3
						15
						3
SPRING	ECON	210	Microeconomic Theory	QMET110		
	ISYS	220	Management Information System	ISYS110		3
	BUSN	230	Business Communication	ENGL102		3
	MGMT	240	Human Capital Management	MGM1120		3
			Open Elective I			3
						15
						3
YEAR 3	ECON	310	Macroeconomic Theory	ECON210		
FALL	MGMT	320	Fundamentals of Supply Chain Management	QMET210		3
	ISYS	320	E-Commerce	ISYS220		3
	FINE	340	Financial Markets and Institutions	FINE220		3
			Innovation, Entrepreneurship and			

15

						3
						15
	GENE	340	Sustainability			
SPRING	ECON	330	Managerial Economics	ECON210		3
	BUSN	340	Business Research Methods	45 CR		3
	QMET	350	Operations Research	QMET210	MGMT320	3
	MGMT	340	International Business Management	MGMT120; ECON310 MGMT120; MRKT120; FINE220;		3
	MGMT	350	Strategic Management	QMET210		3
						15
INTERNSHI						
Р	BUSN	360	Internship	60 CR		
						3
YEAR 4	BUSN	450	Business Simulation	MGMT350		3
						3

				15
FALL	GENE	440	Ethics and Professional Responsibility	3 3
			Major Elective 1	3
			Major Elective 2	3
			Major Elective 3	3
SPRING QMET	430 Business Ana	alytics QN	1ET210	
	BUSN	440	Business Case Analysis and Writing 90 CR	3
			Major Elective 4	3
			Major Elective 5	3
			Open Elective 2	3
				15
			-	123

COMPLETION REQUIREMENTS:

Credit requirements- A student, who has earned the minimum of 123 credits as prescribed for Bachelor of Business Administration, shall be declared to have passed the program of study.

Minimum GPA requirement: for the successful completion of Amity undergraduate program students must secure a minimum cumulative CGPA of 2.0 on 4.0 scale (equivalent to 70%) with no course having a grade less than D (equivalent to 60%) according to the following the grading scheme.

19.1.2 Bachelor of Finance

BFIN MISSION STATEMENT

The Bachelor of Finance program at Amity Business School Dubai provides students with a comprehensive exposure to contemporary financial models, products, and strategies, including those requiring compliance with Sharia laws. Our graduates are team players and life-long learners who possess appropriate financial competencies and skills allowing them to assess and mitigate financial risks and make sound ethical financial decisions.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Finance at Amity Business School Dubai aims at:

- (G1) Imparting theoretical and practical knowledge of finance concepts and models necessary to overcome contemporary financial challenges
- (G2) Developing students skills and abilities to make informed financial decisions based on a critical analysis of the business environment
- (G3) Facilitating lifelong learning and the development of assertive learners who are able to express themselves responsibly and openly.

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Finance, the graduate will be able to:

1. Knowledge

1.1.Demonstrate understanding of relevant financial theories and concepts and their application to overcoming contemporary financial challenges

2. Skills

- 2.1. Assess financial risks and propose strategies to mitigate them
- 2.2. Analyze financial problems and build financial models
- 2.3. Use information technology for data retrieval and financial applications
- 2.4. Communicate effectively orally and in writing using appropriate media

3. Competence

- 3.1. Autonomy and Responsibility
 - 3.1.1. Work independently as well as collaborate effectively in a team setting
 - 3.1.2. Express personal views in a range of business contexts
 - 3.1.3. Take responsibility for developing innovative entrepreneurial and sustainable management approaches to ethically overcome complex business challenges
- 3.2. Self-Development
 - 3.2.1. Take responsibility for own learning and development needs
- 3.3. Role in Context
 - 3.3.1. Take responsibility for achieving outcomes with little or no supervision

ISLAMIC FINANCE CONCENTRATION

In addition to preceding Program Learning Outcomes, graduates opting for the Islamic Finance Concentration will be able to:

IF1: Demonstrate in-depth understanding of Sharia' finance-related concepts and products IF2: Apply Sharia' principles in proposing sustainable solutions to financial problems

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

QFEMIRATES [L7]		1. Kno	wledg	ge			2. Sk	cills	3. Competence											
										3.1.	Auton	оту с	and	3.2.	Role i	n Con	text		3.3. Se	elf
	۸1	۸2	Λ2	A4	Δ5	B1	B2	B3	B/I	C1 Re	espon	sibility		C 5	6	67	60	De	velopm	c11
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline, encompassing a broad and coherent body of knowledge and concepts, with substantive denth in the	an understanding of allied knowledge and theories in related fields of work R or disciplines and in the case of professional disciplines including related	understanding of critical approach to the creation and compilation of a EV	a comprehensive understanding of critical analysis, research systems and	familiarity with sources of current and new research and knowledge with	technical, creative and analytical skills appropriate to solving specialised problems using evidentiary and procedural based processes in predictable	evaluating, selecting and applying appropriate methods, procedures or R	evaluating and implementing appropriate research tools and strategies	highly developed advanced communication and information technology	can take responsibility for developing innovative and advanced approaches $ \mathbf{G} $ to evaluating and managing complex and unpredictable work procedures	can manage technical, supervisory or design processes in unpredictable,	can work creatively and/or effectively as an individual, in team leadership,	can express an internalised, personal view, and accept responsibility to	can function with full autonomy in technical and supervisory contexts and G	can take responsibility for the setting and achievement of group or g individual outcomes and for the management and supervision of the work	can participate in peer relationships with qualified practitioners and lead	can take responsibility for managing the professional development and	can self-evaluate and take responsibility for contributing to professional G	can manage learning tasks independently and professionally, in complex D and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
1. Knowledge1.1. Demonstrateunderstanding ofrelevant financialtheories andconcepts andtheir applicationto overcomingcontemporaryfinancialchallenges2. Skills2.1. Assessfinancial risks and	X						×													
propose strategies to mitigate them 2.2. Analyze financial problems and build financial						x	х 													

QFEMIRATES [L7]	7] 1. Knowledge 2. Skills													3. C	ompet	ence				
										3.1. Autonomy an Responsibility				3.2.	Role i	in Con	text	: De	3.3. Se velopn	elf nent
	A1	A2	A3	A4	A5	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
2.3. Use																				
information																				
technology for									Y											
data retrieval and									~											
financial																				
applications																				
2.4. Communicato																				
Communicate																				
									Х											
and in writing																				
using appropriate																				
media																				
3. Competence																				
3.1. Autonomy																				
and Responsibility																				
3.1.1. Work																				
independently as																				
well as												x								
collaborate												^								
effectively in a																				
team setting																				
3 1 2 Evpress																				
nersonal views in													v							
a range of													^							
a range or																				
2 1 2 Tako																				
5.1.5. Take																				
developing																				
innevetive																				
innovative																				
entrepreneuria																				
and sustainable										Х										Х
management																				
approaches to																				
ethically																				
overcome																				
complex business																				
challenges																				
<u>3.2. Self-</u>																				
Development																				
3.2.1. Take																				
responsibility for																		x	х	
own learning and																		~	~	
development																				
needs																				
<u>3.3. Role in</u>																				
<u>Context</u>																				
3.3.1. Take																				
responsibility for																				
achieving														Х						
outcomes with																				
little or no																				
supervision																				
ISLAMIC FINANCE																				
CONCENTRATION		1																		

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QFEMIRATES [L7]		1. Kno			2. SI	kills						3. C	ompet	ence						
										3.1. Ri	Autor espon	omy o sibility	and /	3.2.	Role i	in Con	text	: De	3.3. Se velopn	elf nent
	A1	A2	A3	A4	A5	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
IF1: Demonstrate in-depth understanding of Sharia' finance- related concepts and products	x																			
IF2: Apply Sharia' principles in proposing sustainable solutions to financial problems							x													

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURSE	COURSE			COREQUISITE	
CODE	#	COURSE TITLE	<u>PREREQUISITES</u>	<u>s</u>	<u>CR</u>

COMMON CO	RE (SCHOOL	REQUIREMENTS) - 48 CR			
COURSE	COURSE			COREQUISITE	
CODE	#		PREREQUISITES	<u>s</u>	CR
ISYS	102				2
AKAB	102	Arabic Language			3
ENGL	102	English for Academic Writing			3
COMM	105	Public Speaking			3
GENE	120	Islamic Culture			3
GENE	210	UAE Studies			3
GENE	340	Innovation, Entrepreneurship and Sustainability			3
GENE	440	Ethics and Professional Responsibility			3
		COURSE TITLE			
	110	Computer Software for Business		ENGL102	3
QMET	110	Business Mathematics		ENGL102	3
ACCT	110	Financial Accounting I		ENGL102	3
ACCT	120	Financial Accounting II	ACCT110		3
MRKT	120	Principles of Marketing	ENGL102		3
MGMT	120	Principles of Management	ENGL102		3
ACCT	220	Managerial Accounting	ACCT110		3
QMET	210	Statistics for Business	QMET110		3

BUSN	220	Business Law		ENGL102	3
FINE	220	Managerial Finance	ACCT120; QMET110		3
ECON	210	Microeconomic Theory	QMET110		3
BUSN	230	Business Communication	ENGL102		3
ECON	310	Macroeconomic Theory	ECON210		3
BUSN	340	Business Research Methods	45 CR		3
MGMT BUSN	350 450	Strategic Management Business Simulation	MGMT120; MRKT120; FINE220; QN MGMT350	MET210	3 3
MAJOR CORE	E (FINANCE P	ROGRAM REQUIREMENTS) - 33 CR			
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITE S	CR

MAJOR ELEC	CTIVES - 15 CF	2		CODEOUUTE	
COURSE CODE	COURSE #		PREREQUISITES	COREQUISITE <u>S</u>	CR
FINE FINE	230	Corporate Finance	FINE 230 FINE 220	_	3
FINE	260	Fundamentals of Financial Technology	ISYS 110		3
FINE	310	Financial Statement Analysis	ACCT 120		3
FINE	320	Investment Analysis	FINE 220		3
ECON	330	Managerial Economics	ECON 310		3
FINE	330	Commercial Banking	ACCT 110		3
FINE	340	Financial Markets and Institutions	FINE 220		3
FINE	350	Financial Simulation	ISYS 110, FINE 320		3
BUSN	360	Internship	60 CR		3
FINE	430	Financial Risk Management	FINE 220		3
BUSN	440	Business Case Analysis and Writing	90 CR		3
		COURSE TITLE			
FINE	450 455	Advanced Corporate Finance Entrepreneurial Finance	FINE 230		3
FINE	460	International Finance	FINE 230		3
FINE	465	Equity Valuation	FINE 320		3
FINE	470	Fixed Income Instruments	FINE 230. FINE 320		3
FINE	475	Financial Derivatives	FINE 320		3
FINE	480	Islamic Finance: Principles and Practices*	FINE 220		3
FINE	482	Islamic Banking*	FINE 330		3
FINE	484	Islamic Insurance: Takaful*	FINE 340		3
FINE	486	Islamic Capital Markets*	FINE 220		3
		-			

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FINE	488	Islamic Wealth Management*	FINE 320		3
OPEN ELECT	IVES (CHOOS	E 6 CREDITS FROM ANY PROGRA	M SUBJECT TO FULFILLING THEIR PREREC	QUISITES IF ANY) - 6 CR	
COURSE	COURSE			COREQUISITE	
CODE	#	COURSE TITLE	PREREQUISITES	S	CR
		Open Elective I	As per Catalog		3
		Open Elective II	As per Catalog		3
	* Choose al	l these courses as major electives to ear	rn a RFIN with concentration in Islamic Finance		

Choose all these courses as major electives to earn a BFIN with concentration in Islamic Finance

PROPOSED SCHEDULE OF DELIVERY

	COURSE	COURSE				
YEAR/SEM	CODE	#	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
YEAR 1	ISYS	110	Computer Software for Business		ENGL102	3
FALL	QMET	110	Business Mathematics		ENGL102	3
	ACCT	110	Financial Accounting I		ENGL102	3
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
						<u>15</u> 3
SPRING	ACCT	120	Financial Accounting II	ACCT110		
	MRKT	120	Principles of Marketing	ENGL102		3
	MGMT	120	Principles of Management	ENGL102		3
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
						15
						3
YEAR 2	ACCT	220	Managerial Accounting	ACCT110		
FALL	OMET	210	Statistics for Business	OMET110		3
	BUSN	220	Business Law		ENGL102	3
	FINE	220	Managerial Finance	ACCT120: OMET110		3
	GENE	210	UAE Studies			3
						15
						3
SPRING	ECON	210	Microeconomic Theory	OMET110		
	FINE	230	Corporate Finance	FINE 220		3
	BUSN	230	Business Communication	ENGL102		3
	FINE	260	Fundamentals of Financial Technology	ISYS 110		3
			Open Elective 1			3
						15
						3
YEAR 3	ECON	310	Macroeconomic Theory	ECON210		
FALL	FINE	310	Financial Statement Analysis	ACCT 120		3
	FINE	320	Investment Analysis	FINE 220		3
	FINE	340	Financial Markets and Institutions	FINE220		3
			Innovation, Entrepreneurship and			
						3
	CENE	240	Systematility			15
	GENE	540	Sustainaonny			

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SPRING	ECON	330	Managerial Economics	ECON210		3
	BUSN	340	Business Research Methods	45 Cr./H		3
	FINE	330	Commercial Banking	ACCT 110		3
	FINE	350	Financial Simulation	ISYS 110, FINE 320		3
						3
						15
INTERNSHIP	BUSN	360	Internship	60 CR		
				MONTING MERTING EDIFORM		
MCMT	250	Stratagia Manag	OMET210	MGM1120; MRK1120; FINE220;		
WIGINIT	330	Strategic Manage	QME1210			
					3	
					-	3
YEAR 4	BUSN	450	Business Simulation	MGMT350		3
FALL	GENE	440	Ethics and Professional Responsibility			3
			Major Elective 1			3
			Major Elective 2			3
			Major Elective 2			2
			Major Elective 5			5
						15
SPRING	FINE	430	Financial Risk Management	FINE 220		3
	BUSN	440	Business Case Analysis and Writing	90 CR		3
			Major Elective 4			3
			Major Elective 5			3
			Open Elective 2			3
						15
						123

COMPLETION REQUIREMENTS

Credit requirements- A student, who has earned the minimum of 123 credits as prescribed for Bachelor of Finance, shall be declared to have passed the program of study.

Minimum GPA requirement: for the successful completion of Amity undergraduate program students must secure a minimum cumulative CGPA of 2.0 on 4.0 scale (equivalent to 70%) with no course having a grade less than D (equivalent to 60%) according to the following the grading scheme.

19.1.3 Bachelor of Commerce in Accounting

BCOM ACC MISSION STATEMENT

The Bachelor of Commerce in Accounting program at Amity Business School Dubai develops learners' numerical abilities and skills and provides them with a strong exposure to the best accounting and auditing practices as promulgated by international professional societies. Our graduates are life-long learners who possess the ability to use digital tools to make informed ethical business decisions across a wide range of business activities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Commerce in Accounting at Amity Business School Dubai aims at:

- (G1) Imparting theoretical and practical knowledge of accounting and auditing as promulgated by leading accountancy bodies.
- (G2) Developing students' skills and abilities to make informed accounting and auditing decisions that observe professional ethical standards.
- (G3) Facilitating lifelong learning and the development of assertive learners who are able to express themselves responsibly and openly.

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Commerce in Accounting, the graduate will be able to:

1. Knowledge

1.1.Demonstrate understanding of accounting and auditing standards and concepts as promulgated by leading accountancy bodies

2. Skills

- 2.1. Critically analyze and solve accounting and auditing problems and interpret the related results
- 2.2.Propose data-driven business decisions that observe professional ethical standards
- 2.3.Use information technology for data retrieval and accounting and auditing applications
- 2.4.Communicate effectively orally and in writing using appropriate media

3. Competence

- 3.1. Autonomy and Responsibility
 - 3.1.1. Work independently as well as collaborate effectively in a team setting
 - 3.1.2. Express personal views in a range of business contexts
 - 3.1.3. Take responsibility for developing innovative entrepreneurial and sustainable management approaches to ethically overcome complex business challenges

3.2.Self-Development

- 3.2.1. Take responsibility for own learning and development needs
- 3.3.Role in Context
 - 3.3.1. Take responsibility for achieving outcomes with little or no supervision

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

QFEMIRATE S [L7]		1. Kn	owled	ge			2. Sk	ills						3. (Compete	ence				
										3.1. R	Auto espor	nomy a nsibility	nd	3.2	. Role ir	n Conte	ext	3.3 Deve	l. Selj	f ent
	A1	A2	A3	A4	A5	B1	B2	В 3	B4	C1	C 2	C3	C4	C5	C6	C7	C8	С9	C1 0	C1 1
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline, encompassing a broad	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional disciplines including	understanding of critical approach to the creation and compilation of a systematic and coherent body of knowledge and concepts gained	a comprehensive understanding of critical analysis, research systems	familiarity with sources of current and new research and knowledge	technical, creative and analytical skills appropriate to solving specialised problems using evidentiary and procedural based processes in predicrable and new contexts that include devising and	evaluating, selecting and applying appropriate methods, procedures	evaluating and implementing appropriate research tools and	highly developed advanced communication and information technology skills to present, explain and/or critique complex and	can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and unpredictable	can manage technical, supervisory or design processes in	can work creatively and/or effectively as an individual, in team leadership, managing contexts, across technical or professional	can express an internalised, personal view, and accept responsibility	can function with full autonomy in technical and supervisory contexts and adont nara-professional roles with little puidance	can take responsibility for the setting and achievement of group or individual outcomes and for the management and supervision of the work of others or self in the rase of a charistication in field of work or	can participate in peer relationships with qualified practitioners and lead multinle complex prouns	can take responsibility for managing the professional development and direct mentoring of individuals and grouns.	can self-evaluate and take responsibility for contributing to professional practice, and undertake regular professional	can manage learning tasks independently and professionally, in	can contribute to and observe ethical standards
1. <u>Knowledge</u> 1.1. Demonstrat e understandi ng of accounting and auditing standards and concepts as promulgate d by leading accountanc y bodies	x	x																		
2. Skills 2.1. Critically analyze and solve accounting and auditing problems and interpret the related results						x														

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QFEMIRATE S [L7]		1. Kn	owled	ge			2. Sk	ills						3. (Compete	ence				
										3.1. R	Auto espoi	nomy a nsibilitv	nd	3.2	. Role ir	n Conte	ext	3.3 Deve	3. Selj lopme	f ent
	A1	A2	A3	A4	A5	B1	B2	B 3	B4	C1	C 2	C3	C4	C5	C6	С7	C8	С9	C1 0	C1 1
2.2. Propose data-driven business decisions that observe professional ethical standards							x				-									X
2.3. Use information technology for data retrieval and accounting and auditing applications									x											
2.4. Communica te effectively orally and in writing using appropriate media									x											
3. Competenc <u>e</u> <u>3.1.</u> <u>Autonomy</u> <u>and</u> <u>Responsibili</u> <u>ty</u> 3.1.1. Work independentl y as well as collaborate effectively in a team setting												X								
3.1.2. Express personal views in a range of business contexts 3.1.3. Take										X			x							X
responsibilit										-										_

QFEMIRATE S [L7]	1. Knowledge						2. Sk	ills						3.	Compete	nce				
										3.1. R	Auto espoi	nomy a nsibility	nd	3.2	. Role ir	n Conte	ext	3.3 Deve	3. Selj lopme	f ent
	A1	A2	A3	A4	A5	B1	B2	В 3	B4	C1	C 2	C3	C4	C5	C6	C7	C8	С9	C1 0	C1 1
y for developing innovative entreprene urial and sustainable manageme nt approaches to ethically overcome complex business challenges																				
3.2. Self- <u>Developmen</u> <u>t</u> 3.2.1. Take responsibilit y for own learning and developme nt needs																		x	x	
3.3. Role in Context 3.3.1. Take responsibilit y for achieving outcomes with little or no														x						

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR COURSE COURSE

COURSE	COURSE			COREQUISITE	
CODE	#	COURSE TITLE	PREREQUISITES	S	CR
ARAB	102	Arabic Language			3
ENGL	102	English for Academic Writing			3
COMM	105	Public Speaking			3
GENE	120	Islamic Culture			3
GENE	210	UAE Studies			3
GENE	340	Innovation, Entrepreneurship and Sustainability			3
GENE	440	Ethics and Professional Responsibility			3
COMMON C	ORE (SCHOOL	REQUIREMENTS) - 48 CR			
COURSE	COURSE			COREQUISITE	
CODE	#	COURSE TITLE	PREREQUISITES	8	CR
ISYS	110	Computer Software for Business		ENGL102	3

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QMET	110	Business Mathematics		ENGL102	3
ACCT	110	Financial Accounting I		ENGL102	3
ACCT	120	Financial Accounting II	ACCT110		
MRKT	120	Principles of Marketing	FNGL 102		3
MONT	120		ENGLIO2		
MGM1	120	Principles of Management	ENGL102		3
ACCT	220	Managerial Accounting	ACCT110		3
QMET	210	Statistics for Business	QMET110		3
BUSN	220	Business Law		ENGL102	3
FINE	220	Managerial Finance	ACCT120; QMET110		3
ECON	210	Microeconomic Theory	QMET110		3
BUSN	230	Business Communication	ENGL102		3
ECON	310	Macroeconomic Theory	ECON210		3
BUSN	340	Business Research Methods	45 CR		3
			MGMT120: MPKT120: FINE220:		
MGMT	350	Strategic Management	OMET210		3
BUSN	450	Business Simulation	MGMT350		3
MAJOR CORF	PROGRAM	REQUIREMENTS) - 33 CR			
COURSE	COURSE			COREOUISITE	
CODE	#	COURSE TITLE	PREREQUISITES	S	CR
ACCT	230	Audit and Assurance	ACCT120		3
FINE	230	Corporate Finance	FINE220		3
ACCT	320	Forensic Accounting Analytics	ISYS 110; QMET 110; ACCT 120		3
ACCT	330	Taxation I	ACCT110		3
ACCT	340	Taxation II	ACCT330		3
ACCT	345	Accounting Information Systems	ACCT 110; ISYS 110		3
ACCT	360	Intermediate Financial Accounting	ACCT120		3
FINE	310	Financial Statement Analysis	FINE220		3
ACCT	430	Advanced Financial Accounting	ACCT360		3
BUSN	360	Internship	60 CR		3
BUSN	440	Business Case Analysis and Writing	90 CR		3
MAJOR ELEC	TIVES - 15				
CR					
COURSE	COURSE			COREQUISITE	
CODE	#	COURSE TITLE	PREREQUISITES	S	CR
ACCT	350	Corporate Governance	ACCT340		3
ACCT	440	Advanced Audit and Assurance	ACCT230		3
ACCT	450	Advanced Taxation	ACCT340		3
FINE	450	Advanced Corporate Finance	FINE230		3
FINE	430	Financial Risk Management	FINE220		3
FINE	460	International Finance	FINE 230		3
OPEN ELECTI	VES (CHOOS	E 6 CREDITS FROM ANY PROGRAM SUB	JECT TO FULFILLING THEIR PREREQUISI	TES IF ANY) - 6	
CR					
COURSE	COURSE			COREQUISITE	
CODE	#	COURSE TITLE	PREREQUISITES	S	CR
		Onen Elective I	As per Catalog		3
		Open Elective I	As per Catalog		5

SCHEDULE OF DELIVERY

YEAR 1 ISYS 110 Computer Software for Business PREREQUISITES COME FALL QMET 110 Business Mathematics ENGL: ACCT 110 Financial Accounting I ENGL: ENGL ACCT 110 Financial Accounting I ENGL: SPRING ACCT 120 Islamic Culture ENGL: SPRING ACCT 120 Financial Accounting II ACCT10 MRKT 120 Principles of Marketing ENGL102 MGMT 120 Principles of Marketing ENGL102 COMM 105 Public Speaking ACCT110 ARAB 102 Arabic Language ACCT110 FALL QMET 210 Statistics for Business QMET110 BUSN 220 Business Law ENGL: FINE 210 UAE Studies ACCT120; QMET110 GENE 210 UAE Studies ACCT120; QMET110 GENE 210 Microeconomic Theory QMET110 ACCT 230 Business Communication ENGL102 FINE 230 Corporate Finance FINE220 QNE 230 Business Communication ENGL102 FINE	02 02 02 02	CR 3 3 3 3 3 3 15 3 3 3 3 2
YEAR 1 ISYS 110 Computer Software for Business ENGL: FALL QMET 110 Business Mathematics ENGL: ACCT 110 Financial Accounting I ENGL: ENGL: ENGL 102 English for Academic Writing GENE ENGL: SPRING ACCT 120 Islamic Culture SPRING ACCT110 MRKT 120 Principles of Marketing ENGL102 MGMT MGMT 120 Principles of Marketing ENGL102 COMM COMM 105 Public Speaking ACCT110 ENGL102 COMM 105 Public Speaking ACCT110 ENGL102 FALL QMET 210 Statistics for Business QMET110 BUSN 220 Business Law ENGL1 ENGL12 FINE 210 UAE Studies ENGL102 ENGL12 SPRING ECON 210 Microeconomic Theory QMET110 QMET110 ACCT 230 Business Communication ENGL102 ENGL102 ENGL102 ENGL102 ENGL102	02 02 02	3 3 3 3 3 15 3 3 3 3 2
FALL QMET 110 Business Mathematics ENGL: ACCT 110 Financial Accounting I ENGL: ENGL: ENGL 102 English for Academic Writing ENGL: ENGL: GENE 120 Islamic Culture ENGL: ACCT110 MRKT 120 Principles of Marketing ENGL102 MGMT 120 Principles of Marketing ENGL102 COMM 105 Public Speaking ACCT110 ARAB 102 Arabic Language ACCT110 FALL QMET 210 Statistics for Business QMET110 BUSN 220 Business Law ENGL12 FINE 210 UAE Studies ENGL12 SPRING ECON 210 UAE Studies SPRING ECON 210 Microeconomic Theory QMET110 ACCT 230 Audit and Assurance ACCT120 ACCT120 BUSN 230 Business Communication ENGL102 FINE 220 Open Elective 1 Open Elective 1 YEAR 3	02	3 3 3 15 3 3 3 3
ACCT 110 Financial Accounting I ENGL: ENGL 102 English for Academic Writing ENGL: GENE 120 Islamic Culture SPRING ACCT 120 Financial Accounting II ACCT110 MRKT 120 Principles of Marketing ENGL102 MGMT 120 Principles of Management ENGL102 COMM 105 Public Speaking ACCT110 ARAB 102 Arabic Language ENGL102 YEAR 2 ACCT 220 Managerial Accounting ACCT110 FALL QMET 210 Statistics for Business QMET110 BUSN 220 Business Law ENGL12 FINE 220 Managerial Finance ACCT120; QMET110 GENE 210 UAE Studies ENGL12 SPRING ECON 210 Microeconomic Theory QMET110 ACCT 230 Audit and Assurance ACCT120 BUSN BUSN 230 Business Communication ENGL102 Fine220 Dopen Elective 1 Toxation in		3 3 3 15 3 3 3 3
ENGL 102 English for Academic Writing GENE 120 Islamic Culture SPRING ACCT 120 Financial Accounting II ACCT110 MRKT 120 Principles of Marketing ENGL102 MGMT 120 Principles of Management ENGL102 COMM 105 Public Speaking ACCT110 ARAB 102 Arabic Language ACCT110 FALL QMET 210 Statistics for Business QMET110 BUSN 220 Business Law ENGL2 ENGL2 FINE 220 Managerial Finance ACCT120; QMET110 GENE 210 UAE Studies ENGL2 SPRING ECON 210 Microeconomic Theory QMET110 ACCT 230 Audit and Assurance ACCT120 BUSN BUSN 230 Business Communication ENGL102 FINE220 FINE 230 Corporate Finance FINE220 FOPE Elective 1 YEAR 3 ECON 310 Macroeconomic Theory ECON210 FALL <t< td=""><td></td><td>3 3 15 3 3 3 3</td></t<>		3 3 15 3 3 3 3
GENE 120 Islamic Culture SPRING ACCT 120 Financial Accounting II ACCT110 MIKT 120 Principles of Marketing ENGL102 MGMT 120 Principles of Management ENGL102 COMM 105 Public Speaking ARAB ARAB 102 Arabic Language ACCT110 FALL QMET 210 Statistics for Business QMET110 BUSN 220 Business Law ENGL3 FINE 220 Managerial Finance ACCT120; QMET110 GENE 210 UAE Studies ENGL3 SPRING ECON 210 Microeconomic Theory QMET110 ACCT 230 Audit and Assurance ACCT120 ENGL302 BUSN 230 Business Communication ENGL302 ECON210 FINE 230 Corporate Finance FINE220 ECON210 FALL FINE 310 Macroeconomic Theory ECON210 FALL FINE<		3 15 3 3 3 3
SPRING ACCT 120 Financial Accounting II ACCT110 MRKT 120 Principles of Marketing ENGL102 MGMT 120 Principles of Management ENGL102 COMM 105 Public Speaking ARAB ARAB 102 Arabic Language YEAR 2 ACCT 220 Managerial Accounting ACCT110 FALL QMET 210 Statistics for Business QMET110 BUSN 220 Business Law ENGL12 FINE 220 Managerial Finance ACCT120; QMET110 GENE 210 UAE Studies SPRING ECON 210 Microeconomic Theory QMET110 ACCT 230 Business Communication ENGL102 FINE 230 Corporate Finance FINE220 Open Elective 1 Vera 310 Financial Statement Analysis FINE220 SYS 110; QMET 110; ACCT 320 Forensic Accounting Analytics ACCT 120 ACCT 320 Forensic Accounting Analytics FINE220 Innovation, Entrepreneurship and Innovation, Entrepreneurship and GENE 340 Sustainability		15 3 3 3
SPRING ACCT 120 Financial Accounting II ACCT110 MRKT 120 Principles of Marketing ENGL102 MGMT 120 Principles of Management ENGL102 COMM 105 Public Speaking ARAB ARAB 102 Arabic Language YEAR 2 ACCT 220 Managerial Accounting ACCT110 FALL QMET 210 Statistics for Business QMET110 BUSN 220 Business Law ENGL12 FINE 220 Managerial Finance ACCT120; QMET110 GENE 210 UAE Studies SPRING ECON 210 Microeconomic Theory QMET110 ACCT 230 Corporate Finance FINE220 BUSN 230 Business Communication ENGL102 FINE 230 Corporate Finance FINE220 Open Elective 1 Open Statement Analysis FINE220 YEAR 3 ECON 310 Macroeconomic Theory ECON210 FALL FINE 310 Financial Statement Analysis FINE220 SPRING ECON 310 Firencial Statement Analysis FINE220 GENE 340 Sustainabilit		3 3 3
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MGMT 120 Principles of Management ENGL102 COMM 105 Public Speaking		3
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ARAB102Arabic LanguageYEAR 2ACCT220Managerial AccountingACCT110FALLQMET210Statistics for BusinessQMET110BUSN220Business LawENGL3FINE220Managerial FinanceACCT120; QMET110GENE210UAE StudiesSPRINGECON210Microeconomic TheoryQMET110ACCT230Audit and AssuranceACCT120BUSN230Business CommunicationENGL102FINE230Corporate FinanceFINE220Open Elective 1VEAR 3ECON310YEAR 3ECON310Macroeconomic TheoryECON210FALLFINE310Financial Statement AnalysisFINE220ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation 1ACCT 120ACCT340SustainabilityACCT 110		3
YEAR 2 ACCT 220 Managerial Accounting ACCT110 FALL QMET 210 Statistics for Business QMET110 BUSN 220 Business Law ENGL3 FINE 220 Managerial Finance ACCT120; QMET110 GENE 210 UAE Studies ACCT120; QMET110 SPRING ECON 210 Microeconomic Theory QMET110 ACCT 230 Audit and Assurance ACCT120 BUSN 230 Business Communication ENGL102 FINE 230 Corporate Finance FINE220 Open Elective 1 Open Elective 1 Statement Analysis FINE220 FALL FINE 310 Financial Statement Analysis FINE220 ISYS 110; QMET 110; ACCT 320 Forensic Accounting Analytics ACCT 120 ACCT 320 Forensic Accounting Analytics ACCT 120 Innovation, Entrepreneurship and GENE 340 Sustainability ACCT 110 Innovation, Entrepreneurship and		3
YEAR 2ACCT220Managerial AccountingACCT110FALLQMET210Statistics for BusinessQMET110BUSN220Business LawENGL:FINE220Managerial FinanceACCT120; QMET110GENE210UAE StudiesSPRINGECON210Microeconomic TheoryQMET110ACCT230Audit and AssuranceACCT120BUSN230Business CommunicationENGL102FINE230Corporate FinanceFINE220Open Elective 1YEAR 3ECON310Macroeconomic TheoryECON210FALLFINE310Financial Statement AnalysisFINE220ISYS 110; QMET 110;ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation IACCT 110Innovation, Entrepreneurship andGENE340Sustainability		15
FALLQMET210Statistics for BusinessQMET110BUSN220Business LawENGL3FINE220Managerial FinanceACCT120; QMET110GENE210UAE StudiesSPRINGECON210Microeconomic TheoryQMET110ACCT230Audit and AssuranceACCT120BUSN230Business CommunicationENGL102FINE230Corporate FinanceFINE220Open Elective 1YEAR 3FCON310Macroeconomic TheoryECON210FALLFINE310Financial Statement AnalysisFINE220ISYS 110; QMET 110;ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation 1ACCT 110Innovation, Entrepreneurship andGENE340SustainabilitySustainabilityACCT 110		3
BUSN220Business LawENGL3FINE220Managerial FinanceACCT120; QMET110GENE210UAE StudiesSPRINGECON210Microeconomic TheoryQMET110ACCT230Audit and AssuranceACCT120BUSN230Business CommunicationENGL102FINE230Corporate FinanceFINE220Open Elective 1YEAR 3FCON310Macroeconomic TheoryECON210FALLFINE310FINE310Financial Statement AnalysisFINE220ISYS 110; QMET 110;ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation IACCT 110Innovation, Entrepreneurship andGENE340Sustainability		3
FINE220Managerial FinanceACCT120; QMET110GENE210UAE StudiesSPRINGECON210Microeconomic TheoryQMET110ACCT230Audit and AssuranceACCT120BUSN230Business CommunicationENGL102FINE230Corporate FinanceFINE220Open Elective 1Open Elective 1FINE220YEAR 3ECON310Macroeconomic TheoryECON210FALLFINE310Financial Statement AnalysisFINE220ISYS 110; QMET 110; ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation I Innovation, Entrepreneurship and GENEACCT 110GENE340SustainabilityFinancial Statement Statement Analysis	.02	3
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SPRING ECON 210 Microeconomic Theory QMET110 ACCT 230 Audit and Assurance ACCT120 BUSN 230 Business Communication ENGL102 FINE 230 Corporate Finance FINE220 Open Elective 1 Open Elective 1 YEAR 3 ECON 310 Macroeconomic Theory ECON210 FALL FINE 310 Financial Statement Analysis FINE220 ISYS 110; QMET 110; ACCT 320 Forensic Accounting Analytics ACCT 120 ACCT 330 Taxation I ACCT 110 Innovation, Entrepreneurship and GENE 340 Sustainability		3
SPRINGECON210Microeconomic TheoryQMET110ACCT230Audit and AssuranceACCT120BUSN230Business CommunicationENGL102FINE230Corporate FinanceFINE220Open Elective 1Open Elective 1YEAR 3ECON310Macroeconomic TheoryECON210FALLFINE310Financial Statement AnalysisFINE220ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation IACCT 110Innovation, Entrepreneurship andGENE340Sustainability		15
ACCT230Audit and AssuranceACCT120BUSN230Business CommunicationENGL102FINE230Corporate FinanceFINE220Open Elective 1Open Elective 1YEAR 3ECON310Macroeconomic TheoryECON210FALLFINE310Financial Statement AnalysisFINE220ISYS 110; QMET 110;ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation IACCT 110Innovation, Entrepreneurship andGENE340Sustainability		3
BUSN230Business CommunicationENGL102FINE230Corporate FinanceFINE220Open Elective 1Open Elective 1YEAR 3ECON310Macroeconomic TheoryECON210FALLFINE310Financial Statement AnalysisFINE220ISYS 110; QMET 110;ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation IACCT 110Innovation, Entrepreneurship andGENE340Sustainability		3
FINE 230 Corporate Finance FINE220 Open Elective 1 Open Elective 1 ECON210 YEAR 3 ECON 310 Macroeconomic Theory ECON210 FALL FINE 310 Financial Statement Analysis FINE220 ACCT 320 Forensic Accounting Analytics ACCT 110 ACCT 330 Taxation I ACCT 110 Innovation, Entrepreneurship and GENE 340 Sustainability		3
Open Elective 1 YEAR 3 ECON 310 Macroeconomic Theory ECON210 FALL FINE 310 Financial Statement Analysis FINE220 FALL FINE 320 Forensic Accounting Analytics ACCT 120 ACCT 330 Taxation I ACCT 110 Innovation, Entrepreneurship and GENE 340 Sustainability		3
YEAR 3ECON310Macroeconomic TheoryECON210FALLFINE310Financial Statement AnalysisFINE220ACCT320Forensic Accounting AnalyticsISYS 110; QMET 110;ACCT330Taxation IACCT 120ACCT330Taxation IACCT 110Innovation, Entrepreneurship andGENE340Sustainability		3
YEAR 3ECON310Macroeconomic TheoryECON210FALLFINE310Financial Statement AnalysisFINE220FALLFINE320Forensic Accounting AnalyticsACCT 120ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation IACCT 110Innovation, Entrepreneurship andGENE340Sustainability		15
FALL FINE 310 Financial Statement Analysis FINE220 ISYS 110; QMET 110; ISYS 110; QMET 110; ACCT 320 Forensic Accounting Analytics ACCT 120 ACCT 330 Taxation I ACCT 110 ACCT 110 Innovation, Entrepreneurship and GENE 340 Sustainability		3
ACCT 320 Forensic Accounting Analytics ISYS 110; QMET 110; ACCT 120 ACCT 330 Taxation I ACCT 120 Innovation, Entrepreneurship and GENE 340 Sustainability		3
ACCT320Forensic Accounting AnalyticsACCT 120ACCT330Taxation IACCT 110Innovation, Entrepreneurship andGENE340Sustainability		
ACCT 330 Taxation I ACCT 110 Innovation, Entrepreneurship and GENE 340 Sustainability		3
GENE 340 Sustainability		3
		3
		15
SPRING ACCT 340 Taxation II ACCT330		3
BUSN 340 Business Research Methods 45 CR		3
ACCT 345 Accounting Information Systems ACCT110: ISYS110		3
ACCT 360 Intermediate Financial Accounting ACCT120		3
MGMT120; MRKT120; FINE220;		<u> </u>
MGMT 350 Strategic Management QMET210		3
		15
INTERNSHIP BUSN 360 Internship 60 CR		2

3

AMITY UNIVERSITY DUBAI 66

YEAR 4	BUSN	450	Business Simulation	3	
FALL	GENE	440	Ethics and Professional Practices		3
			Major Elective 1		3
			Major Elective 2		3
			Major Elective 3		3
					15
SPRING	FINE	430	Financial Risk Management	FINE220	3
	BUSN	440	Business Case Analysis and Writing	90 CR	3
			Major Elective 4		3
			Major Elective 5		3
			Open Elective 2		3
					15
					123

COMPLETION REQUIREMENTS:

Credit requirements: A student, who has earned the minimum of 123 credits as prescribed for Bachelor of Commerce shall be declared to have passed the program of study.

Minimum GPA requirement: for the successful completion of Amity undergraduate program students must secure a minimum cumulative CGPA of 2.0 on 4.0 scale (equivalent to 70%) with no course having a grade less than D (equivalent to 60%) according to the following the grading scheme.

19.2 Introduction to the School of Engineering, Architecture and Interior Design

The School of Engineering, Architecture and Interior Design works in line with the vision of Amity University Dubai to prepare the next generation of engineering professionals through a culture that promotes creative design, problem solving, innovation and entrepreneurship. The School offers an academic setting that challenges students' intellectual abilities, deploys contemporary teaching and learning strategies including laboratory based and experiential learning, enhances soft skills, and practices applied research techniques throughout the curriculum.

Presently the School of Engineering, Architecture and Interior Design offers programs in Bachelor of Architecture, Bachelor of Interior Design, Bachelor of Science Aerospace Engineering, Bachelor of Science Biotechnology, Bachelor of Science Civil Engineering, Bachelor of Science Computer Science, Bachelor of Science Electrical Engineering, Bachelor of Science Information Technology and Bachelor of Science Mechanical Engineering. The Bachelor of Science programs in Aerospace Engineering and Computer Science are accredited by Institution of Engineering and Technology (IET). The Architecture program is accredited by the Council of Architecture. Students take up professional memberships in organizations like the IEEE and IMechE.

Students of Architecture, Interior Design and Civil Engineering were also involved in the *Baitykool* project (done in collaboration with University of Bordeaux, France and Al Najah University in Palestine) that competed and secured third place in Solar Decathlon Middle East (SDME) 2018. The resultant eco sensitive,

energy efficient solar house has been commissioned at Sustainable City Dubai working as a living lab for research and development. Students have been involved in projects funded by EXPO LIVE: *Hydrobeats* and *Le Solarium*. The Le Solarium prototype was recently demonstrated in EXPO 2020. The School faculty have published over 325 Scopus indexed conference or journal papers since 2017. About twenty percent of the School's publications are jointly co-authored by students. The School has organized two editions of the International Conference on Computational Intelligence and Knowledge Economy (ICCIKE) in 2019 and 2021. Students of the School of Engineering, Architecture and Interior Design have started up companies, most notably the Unitors and Pupilar.

One of the main priorities of the school is to foster strong links to the local, regional and global industry. Students are given internship opportunities in various prestigious organizations. The School aims to continue to broaden and strengthen these industry relationships.

We are confident that the learning experience of students at the School of Engineering, Architecture and Interior Design, paves the way for our graduates to become creative, innovative and ethical industry leaders, with human values, providing sustainable solutions to the local, regional and global community.

19.2.1 Bachelor of Architecture

BACHELOR OF ARCHITECTURE MISSION STATEMENT

The mission of the Architecture program is to deliver a modern curriculum that is nationally and internationally benchmarked and that equips graduates with knowledge, skills and competence to analyze, design, apply technology, formulate and solve problems with real-world constraints, including sustainability and resilience, by working in teams and communicating effectively using appropriate tools. Students will be afforded the opportunity for industry and community engagement which builds capacity to incorporate latest industry trends and practices. Our graduates are creative designers, life-long learners, ethical leaders and entrepreneurs: they are professionals who contribute to socio-economic and urban development with competencies for design interventions from concept to detailing who can contribute to the growth of UAE, regional and global communities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Architecture at School of Engineering, Architecture and Interior Design aims at:

- (G1) Create, preserve and disseminate knowledge in the domain of Built Environment, to educate and train future ready professionals, and to promote a culture of trans-disciplinary inquiry throughout and beyond the domain.
- (G2) Provide design solutions in architecture and urban design in relation to developments in the sciences, arts and technology.
- (G3) Provide sustainable solutions to global society through innovation, analysis, formulation, modeling, designing, implementing and verification.
- (G4) Enhance their knowledge, skills and competencies through continuing education, training, engaging in professional activities, graduate studies and lifelong learning.
- (G5) Work independently and collaboratively in teams, demonstrate leadership, autonomy, and ethical, social and professional responsibility.
- (G6) Successfully pursue entrepreneurship, careers in the industry or higher education to contribute to the growth of local and global communities.

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Architecture program, the graduate will be able to:

PLO 1: Acquire and apply knowledge of principles of design, theories of architecture, history, culture, related art, technology, and human sciences.

PLO 2: Implement knowledge based on the relationships between people, buildings, ecosystem and employ research, to arrive at design solutions with iterative processes.

PLO 3: Demonstrate ability to prepare design brief and develop proposals that respond to the local, regional and global context.

PLO 4: Produce designs that illustrate the knowledge of structural design, building services, construction techniques, and information and communications technology into the building design proposal.

PLO 5: Translate and present design ideas, proposals using graphical skills, architectural models, in verbal and written formats.

PLO 6: Work independently and in multidisciplinary teams whose members together provide leadership, take responsibility, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives **PLO 7**: Demonstrate design considering all requirements including regulations, building codes, economic aspects, site factors and other constraints.

PLO 8: Evaluate, select and execute design with computer aided tools to create and communicate appropriate, accurate, and speedy design solutions

PLO 9: Acquire and integrate new knowledge as needed, using appropriate learning strategies and concepts from other allied disciplines.

PLO 10: Demonstrate an understanding of the standards and ethical issues of professional practice.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

BARCH- QFEMIRATES [L7]	1. Knowledge 2. Sl					2. Skills					3. Competence									
											3.1. Autonomy and Responsibility				.2. F Con	Role il text	n	3.3. Self Development		
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	С 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional	understanding of critical approach to the creation and commilation of a systematic and coherent body of knowledge and	a comprehensive understanding of critical analysis, research systems and methods and evaluative problem-solving	familiarity with sources of current and new research and knowledge with integration of concepts from outside fields	technical, creative and analytical skills appropriate to solving snacialised prohlams using avidentiary and procedural based	evaluating, selecting and applying appropriate methods, procedures or techniques in processes of investigation towards	evaluating and implementing appropriate research tools and strateoies associated with the field of work or discipline	highly developed advanced communication and information technology skills to present explain and/or criticule complex and	can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and	can manage technical, supervisory or design processes in unnredictable untamiliar and varving contexts	can work creatively and/or effectively as an individual, in team Jeadershin, manaring contexts, across technical or professional	can express an internalised, personal view, and accept responsibility to society at large and to socio-cultural norms and	can function with full autonomy in technical and supervisory	can take responsibility for the setting and achievement of group or individual outcomes and for the management and supervision	can participate in peer relationships with qualified practitioners and lead multime complex groups	can take responsibility for managing the professional development and direct mentoring of individuals and groups	can self-evaluate and take responsibility for contributing to Intrifessional mactice and undertake regular professional	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards

BARCH– QFEMIRATES [L7]	1. Knowledge						2. S	kills		3. Competence										
[]										3. R	1. Au ai espoi	tonon nd nsibili	ny ity	3	3.2. Role in Context			3.3. Self Development		
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	С 4	C 5	C 6	C 7	C 8	С 9	C1 0	C1 1
PLO 1: Acquire and apply knowledge of principles of design, theories of architecture, history, culture, related art, technology, and human sciences	x					x														
PLO 2: Implement knowledge based on the relationships between people, buildings, ecosystem and employ research, to arrive at design solutions with iterative processes.				x																
PLO 3: Demonstrate ability to prepare design brief and develop proposals that respond to the local, regional and global context.			x																	
PLO 4: Produce designs that illustrate the knowledge of structural design, building services, construction techniques, and information and communications technology into the building design proposal.		x																		
PLO 5: Translate and present design ideas, proposals using graphical skills, architectural models, in verbal and written formats.									x											
PLO 6: Work independently and in multidisciplinary teams whose members together provide leadership, take responsibility, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives											X	x	X	X	X	X	X			
PLO 7: Demonstrate design considering all requirements including regulations, building codes, economic		x																		

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BARCH- QFEMIRATES [L7]	1. Knowledge						2. S	kills		3. Competence										
										3. R	1. Au ai espoi	tonor 1d nsibili	ny ity	3.2. Role in Context			3.3. Self Development			
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
aspects, site factors and other constraints.																				
PLO 8: Evaluate, select and execute design with computer aided tools to create and communicate appropriate, accurate, and speedy design solutions							x	x												
PLO 9: Acquire and integrate new knowledge as needed, using appropriate learning strategies and concepts from other allied disciplines.					x					x	x			X				x	x	
PLO 10: Demonstrate an understanding of the standards and ethical issues of professional practice																				x

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURSE	COURS	(COREQUISI	
CODE	E#	COURSE TITLE	PREREQUISITES	TES	CR [L+P/S]
ARAB	102	Arabic Language			3 [3+0]
ENGL	102	English for Academic Writing			3 [3+0]
COMM	105	Public Speaking			3 [3+0]
GENE	120	Islamic Culture			3 [3+0]
GENE	210	UAE Studies			3 [3+0]
		Innovation, Entrepreneurship and			
GENE	340	Sustainability			3 [3+0]
GENE	440	Ethics and Professional Responsibility			3 [3+0]
BASIC ARC	HITECTURE	E - 30 CR			
COURSE	COURS			COREQUISITE	CR
CODE	E#	COURSE TITLE	PREREQUISITES	S	[L+P/S]
MATH	115	Applied Mathematics			3 [3+0]
PHYS	110	Physics for Architects			3 [2+1]
ARCH	100	Design Fundamentals in Architecture			3[1+2]
ARCH	105	Architectural Graphics			3[1+2]
CSCI	100	Computer Applications I			3[0+3]
ARCH	115	History of Architecture			3[3+0]
ARCH	200	Building Construction I			3[1+2]
CIVL	205	Theory of Structures I			3[2+1]
ARCH	215	Climate Responsive Architecture			3[3+0]
ARCH	315	Environment Science in Architecture			3[3+0]
MAJOR CO	RE (PROGR	RAM REQUIREMENTS) - 96 CR			
COURSE	COURS			COREQUISITE	CR
	E #		PREREQUISITES	5	
ARCH	120	Architectural Design Studio I	ARCH 100		4[2+2]
ARCH	205	Architectural Design Studio II	ARCH 120		5[2+3]
	220		CSCI 100		3[0+3]
	210	I neory of Structures II	A DOLL 005		3[3+0]
ARCH	220	Architectural Design Studio III	ARCH 205		5[2+3]
	220				<u> </u>
	220	Theory of Structures III	0301220		3[U+3] 2[2+4]
	200				S[Z∓1]
	200	Architectural Decign Studie IV			S[Z+1]
ARCH	300	Architectural Design Studio IV	ARCH 220		5[2+5]
	305	supply and Sapitation			2[2+1]
	310	Building Construction III	ARCH 225		3[1+2]
ARCH	320	Architectural Design Studio V	ARCH 300		5[2+3]
AROT	520	Building services and Engineering: Electrical	AIGH 300		5[2+5]
ARCH	325	and Mechanical			3[2+1]
ARID	330	Research Paradigms			3[3+0]
ARCH	335	Landscape Architecture			3[2+1]
ARCH	400	Architectural Design Studio VI	ARCH 320		5[2+3]
ARCH	405	Architectural Professional Practice			3[3+0]
		Building Services and Engineering:			
ARCH	410	Firefighting and Automation			3[2+1]
ARCH	415	Urban Design Studio	ARCH 400		5[1+4]
ARCH	420	Working Drawings	ARCH 310		3[1+2]
ARCH	500	Major Project I	ARID 330, INTE 300		5[0+5]
ARCH	505	Project Management in Built Environment			3[3+0]
ARCH	510	Estimation, Costing and Specifications			3[3+0]
ARCH	515	Major Project II	ARCH 500		5[0+5]
INTE 200		Internship I	70 credit hours		2
-----------	------------------------	--	---------------------------	-------------	---------
INTE 300		Internship II	90 credit hours, INTE 200		2
MAJOR ELE	ECTIVES -	12 CR			
COURSE	COURS			COREQUISITE	CR
CODE	E #	COURSE TITLE	PREREQUISITES	S	[L+P/S]
ARCH	520	Interior Architecture			3[1+2]
ARCH	525	Architectural Conservation			3[3+0]
ARCH	530	Building Information Modeling			3[1+2]
ARCH	535	Architectural Journalism			3[1+2]
ARCH	540	Green Buildings			3[3+0]
ARCH	545	Smart cities			3[3+0]
OPEN ELEC	CTIVES 3 G THEIR PR	CR (CHOOSE 3 CREDITS FROM AI REREQUISITES IF ANY)	NY PROGRAM SUBJECT TO		

COURSE	COURS		,	CR
CODE	E#	COURSE TITLE	PREREQUISITES COREQUISITES	[L+P/S]
		Open Elective I	As per Catalog	3

SCHEDULE OF DELIVERY

YEAR/SE	COURSE			PREREQUIS	COREQUISI	CR
	CODE	C #		IIES	IES	[L+P/5]
YEAR 1	ARCH	100	Design Fundamentals in Architecture			3[1+2]
FALL	ARCH	115	History of Architecture			3[3+0]
	PHYS	110	Physics for Architects			3[2+1]
	ARCH	105	Architectural Graphics			3[1+2]
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
SDDING	CSCI	100	Computer Applications I			3(0+3)
SERING	MATH	115	Applied Mathematics			3[3+0]
	ARCH	120	Architectural Design Studio I	ARCH 100		4[2+2]
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
						16
YEAR 2	ARCH	200	Building Construction I			3[1+2]
FALL	ARCH	205	Architectural Design Studio II	ARCH 120		5[2+3]
		220	Theory of Structures I	CSCI 100		3[0+3]
	GENE	200	LIAF Studies			3[3+0]
	OLINE	210				<u> </u>
SPRING	ARCH	215	Climate Responsive Architecture			3[3+0]
	ARCH	220	Architectural Design Studio III	ARCH 205		5[2+3]
	ARCH	225	Building Construction II	ARCH 200		3[1+2]
	CSCI	225	Computer Applications – III	CSCI 220		3[0+3]
	CIVL	210	Theory of Structures II			3[3+0]
		300	Architectural Design Studie IV			5[2+2]
ILAN J	AIGH	500	Building Services and Engineering: Water	AIGH 220		5[2:5]
FALL	ARCH	305	supply and Sanitation			3[2+1]
	CIVL	235	Theory of Structures III			3[2+1]
	ARCH	310	Building Construction III	ARCH 225		3[1+2]
	ARCH	315	Environment Science in Architecture			3[3+0]
		000				17
SPRING		320	Architectural Design Studio V	ARCH 300		5[2+3] 2[2+1]
	CIVL	200	Building services and Engineering: Electrical			5[2+1]
	ARCH	325	and Mechanical			3[2+1]
	ARID	330	Research Paradigms			3[3+0]
	ARCH	405	Architectural Professional Practice			3[2+1]
						17
INTERNS			late markin l	70 and it have		0
	INTE 200		internship i	70 credit nours		Ζ
FALL	GENE	440	Ethics and Professional Responsibility			3[3+0]
	ARCH	400	Architectural Design Studio VI	ARCH 320		5[2+3]
	ARCH	335	Landscape Architecture			3[3+0]
			Building Services and Engineering: Firefighting			
	ARCH	410	and Automation			3[2+1]
SDDING		240	Innovation Entropropolytopic and Quatricatility			212
SPRING	GEINE	340	Major Elective 1			ა[ა+∪] ა
	ARCH	415	Urban Design Studio	ARCH 400		5[1+4]
	ARCH	420	Working Drawings	ARCH 310		3[1+2]
			× ×			14
INTERNS				90 credit hours	,	<i>r</i>
HIP	INTE 300		Internship II	INTE 200		2

YEAR 5 FALL			Major Elective 2	ARID 330 INTE	3
	ARCH	500	Major Project I	300	5[0+5]
	ARCH	505	Project Management in Built Environment		3[3+0]
	ARCH	510	Estimation, Costing and Specifications		3[3+0]
					14
SPRING			Open Elective 1		3
			Major Elective 3		3
			Major Elective 4		3
	ARCH	515	Major Project II	ARCH 500	5[0+5]
					14
					162

19.2.2 Bachelor of Interior Design

BACHELOR OF INTERIOR DESIGN MISSION STATEMENT

The mission of the Interior Design program is to deliver a modern curriculum that is nationally and internationally benchmarked and that equips graduates with knowledge, skills and competence to analyze, apply technology, design, formulate and solve problems with real-world constraints by working in teams and communicating effectively using appropriate tools. Students will be afforded the opportunity for industry and community engagement which builds capacity to incorporate latest industry trends and practices. Our graduates are life-long learners, aesthetic and creative designers with various spatial typologies in built environment, ethical leaders and entrepreneurs: they are professionals who enhance quality spaces for healthy living cum working experiences incorporating all technicalities and contributing to socioeconomic and cultural sustainability who can contribute to the growth of UAE, regional and global communities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Interior Design at School of Engineering, Architecture and Interior Design aims at:

- (G1) Create, preserve, and disseminate knowledge in the domain of Interior Design, to educate future-ready professionals for entry-level interior design practice, and promote a culture of trans-disciplinary inquiry for advanced study in this domain.
- (G2) Provide design solutions by identifying the intent and purpose of the interior design program concerning creative developments in the field of arts, sciences, and technology.
- (G3) Deliver sustainable solutions to global society through design implementation and verification of innovation, analysis, formulation, and modeling to address the content and student learning using distinguished attributes of educational philosophy and goals.
- (G4) Enhance knowledge, skills, and competencies, by engaging in professional activities, graduate studies, and lifelong learning.
- (G5) Work independently and collaboratively in teams, demonstrate leadership, autonomy, and ethical, social, and professional responsibility that supports strategic planning and program improvement through the program assessment and placement data.
- (G6) Successfully pursue entrepreneurship and interior design careers in the industry and academia to contribute to the growth of local/regional and global communities including structured internal and external feedback from all stakeholders in assessing the overall effectiveness of the program.

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Interior Design program, the graduate will be able to: **PLO 1**: Apply knowledge to execute creative, effective, and evidence-based design solutions by using the design process precedents.

PLO 2: Implement literature research in design-based iterations using appropriate materials, construction technology, aesthetics, and interior detailing.

PLO 3: Evaluate, select, and apply computer-aided tools to create and communicate appropriate, accurate and speedy design solutions.

PLO 4: Prepare design proposals by specifying a broad range of sustainable interior materials, finishes & products considering code compliance, construction techniques & interior services for user comfort, health & safety.

PLO 5: Demonstrate the ability to produce design ideas and solutions using professional vocabulary in documentation and representation for graphical & physical models.

PLO 6: Design independently and in multidisciplinary teams whose members together provide leadership, take responsibility, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

PLO 7: Employ design process and problem-solving skills to develop interior design solutions by applying theories of human behavior, human factors, socio-cultural, and economic aspects.

PLO 8: Acquire and apply new knowledge as needed using appropriate learning strategies and concepts from other allied disciplines.

PLO 9: Demonstrate the understanding of professional ethics & conduct, business practice, formations, instruments of service, elements of project management, and the impact of regional/global markets on interior design practices.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

BS INTERIOR DESIGN – QFEMIRATES [L7]	1. Knowledge				2. Skills				3. Competence											
										3.1. R	Autor	nomy nsihilit	and 'v	d 3.2. Role in Context			3 De	3.3. Sovelopr	elf nent	
	A1	A2	A3	A4	A5	B1	B2	B 3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline.	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional	understanding of critical approach to the creation and compilation of a systematic and coherent body of knowledge and	a comprehensive understanding of critical analysis, research svstems and methods and evaluative problem-solving	familiarity with sources of current and new research and knowledge with integration of concepts from outside fields	technical, creative and analytical skills appropriate to solving specialised problems using evidentiary and procedural based	evaluating, selecting and applying appropriate methods, procedures or techniques in processes of investigation towards	evaluating and implementing appropriate research tools and strategies associated with the field of work or discipline	highly developed advanced communication and information technology skills to present, explain and/or critique complex and	can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and	can manage technical, supervisory or design processes in unoredictable. unfamiliar and varving contexts	can work creatively and/or effectively as an individual, in team leadershio. managing contexts. across technical or professional	can express an internalised, personal view, and accept responsibility to society at large and to socio-cultural norms and	can function with full autonomy in technical and supervisory contexts and adopt para-professional roles with little guidance	can take responsibility for the setting and achievement of group or individual outcomes and for the management and supervision	can participate in peer relationships with qualified practitioners and lead multiple. complex aroups	can take responsibility for managing the professional development and direct mentoring of individuals and aroups	can self-evaluate and take responsibility for contributing to professional practice. and undertake regular professional	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
PLO 1: Apply knowledge to execute creative, effective, and evidence-based design solutions by using the design process precedents	x	X		x																
PLO 2: Implement literature research in design-based iterations using appropriate materials, construction					X			x												

BS INTERIOR DESIGN – QFEMIRATES [L7]		1. K	nowledge 2. Skills 3. Competence																	
										3.1. F	Auto Respo	nomy nsibili	and ty		3.2. Role in 3.3. Self Context Developmen			elf nent		
	A1	A2	A3	A4	A5	B1	B2	B 3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
technology, aesthetics, and interior detailing.																				
PLO 3: Evaluate, select, and apply computer-aided tools to create and communicate appropriate, accurate and speedy design solutions.							x				x									
PLO 4: Prepare design proposals by specifying a broad range of sustainable interior materials, finishes & products considering code compliance, construction techniques & interior services for user comfort, health & safety.		x									x			x						
PLO 5: Demonstrate the ability to produce design ideas and solutions using professional vocabulary in documentation and representation for graphical & physical models.						x			x											
PLO 6: Design independently and in multidisciplinary teams whose members together provide leadership, take responsibility, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.											x	x	x	x	x	x				
PLO 7: Employ design process and problem- solving skills to develop interior design solutions by applying theories of human behavior, human factors, socio- cultural, and economic aspects.						X							X							
PLO 8: Acquire and apply new knowledge as needed using					x					x	x			x				x	x	

BS INTERIOR DESIGN – QFEMIRATES [L7]		1. K	nowle	edge			2. S	kills						3. Competence						
										3.1.	Auto	nomy	and		3.2. I	Role il	n	:	3.3. S	elf
										F	Respo	nsibili	ty		Cor	ntext		De	velopn	nent
	A1	A2	A3	A4	A5	B1	B2	B 3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
appropriate learning																				
strategies and																			1	
concepts from other																		1	1	
allied disciplines.																			1	
PLO 9: Demonstrate																				
the understanding of																			1	
professional ethics &																			1	
conduct, business																		1	1	
practice, formations,																		1	1	
instruments of service,															v	v			1	v
elements of project															^	^		^	1	^
management, and the																		1	1	
impact of																			1	
regional/global markets																		l	1	
on interior design																			1	
practices.																		'	1	

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURSE	COURS			COREQUISI	
CODE	E#	COURSE TITLE	PREREQUISITES	TES	CR [L+P/S]
ARAB	102	Arabic Language			3 [3+0]
ENGL	102	English for Academic Writing			3 [3+0]
COMM	105	Public Speaking	ENG100		3 [3+0]
GENE	120	Islamic Culture			3 [3+0]
GENE	210	U.A.E Studies			3 [3+0]
GENE	340	Innovation, Entrepreneurship and			
		Sustainability			3 [3+0]
GENE	440	Ethics and Professional Responsibility			3 [3+0]
DESIGN FOU	NDATION - 2	2 CR			
COURSE	COURS				
CODE	E#	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
NSCI	100	Natural Sciences			4[3+1]
ARTS	100	Art & Graphics			3[1+2]
IDES	105	Interior Graphics			3[0+3]
IDES	115	Colors in Interiors			3[2+1]
IDES	200	History of Interior Design			3[2+1]
CSCI	100	Computer Applications I			3[0+3]
IDES	215	Textile in Interiors			3[3+0]
MAJOR COR	E (PROGRAI	M REQUIREMENTS) - 69 CR			
COURSE	COURS				
CODE	<u>E#</u>	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
IDES	120	Fundamentals of Interior Design	IDES 105		5[2+3]
IDES	110	Materials in Interiors			3[2+1]
IDES	210	Interior Design Studio I (Residence)	IDES 120		5[2+3]
IDES	220	Interior Services			3[2+1]
IDES	225	Interior Design Studio II (Restaurants)	IDES 210		5[1+4]
IDES	230	Materials & Construction Techniques I	IDES 110		3[1+2]
IDES	235	Furniture Design & Detailing	IDES 120, IDES 230		3[1+2]
CSCI	220	Computer Applications II	CSCI 100		3[0+3]
INTE	200	Internship I	50 Credit Hours		2
INTE	300	Internship II	70 Credit Hours,		_
			INTE200		2

IDES	300	Interior Design Studio III (Retail Outlet)	IDES 225		5[1+4]
IDES	305	Interior Estimation & Specifications	IDES 110		3[3+0]
IDES	310	Professional Practice			3[3+0]
IDES	315	Materials & Construction Techniques II	IDES 230		3[1+2]
CSCI	225	Computer Applications III	CSCI 220		3[0+3]
IDES	325	Interior Design Studio IV (Office)	IDES 300		5[1+4]
ARID	330	Research Paradigms			3[3+0]
IDES	405	Major Project I	ARID 330, INTE 300		5[0+5]
IDES	410	Major Project II	IDES 405		5[0+5]
MAJOR ELECT	FIVE Core -	3 CR			
COURSE	COURS				
CODE	E #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
IDES	420	Lighting design & technology	IDES 220		3[3+0]

MAJOR ELECTIVES - 6 CR

COURSE	COURS				
CODE	E #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
IDES	415	Universal design & ergonomics	IDES 420		3[3+0]
IDES	425	Sustainable Interiors	IDES 420		3[3+0]
IDES	430	Project Management for Interiors	IDES 420		3[3+0]
IDES	435	Product Design & Branding	IDES 420		3[3+0]
IDES	440	Intelligent Interior	IDES 420		3[3+0]

SCHEDULE OF DELIVERY

	COURSE	COURS		PREREQUISI	COREQUISIT	CR
YEAR/SEM	CODE	E#	COURSE TITLE	TES	ES	[L+P/S]
YEAR 1	GENE	120	Islamic Culture			3
FALL	ENGL	102	English for Academic Writing			3
	NSCI	100	Natural Sciences			4 [3+1]
	ARTS	100	Art & Graphics			3[1+2]
	IDES	105	Technical Drawing			3[0+3]
						16
SPRING	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
	IDES	110	Materials in Interiors			3[2+1]
	IDES	120	Fundamentals of Interior Design	ARTS 100		5[2+3]
	CSCI	100	Computer Applications I			3[0+3]
						17
YEAR 2	IDES	115	Colors in Interiors			3[2+1]
	GENE	210	UAE Studies			3
	IDES	210	Interior Design Studio I (Residence)	IDES 120		5[2+3]
	CSCI	220	Computer Applications II	CSCI 100		3[0+3]
						14
SPRING						
	IDES	200	History of Interior Design			3 [2+1]
	IDES	225	Interior Design Studio II (Restaurants)	IDES 210		5[1+4]
	IDES	230	Materials & Construction Techniques I	IDES 110		3[1+2]
	CSCI	225	Computer Applications III	CSCI 220		3[0+3]
						14
INTERNSHIP	INTE	200	Internship I	50 credit hours		2
YEAR 3						
FALL	IDES	300	Interior Design Studio III (Retail Outlet)	IDES 225		5[1+4]
	IDES	220	Interior Services			3[2+1]
	IDES	315	Materials & Construction Techniques II	IDES 230		3[1+2]
	IDES	215	Textile in Interiors			3[3+0]
						14

SPRING

	IDES IDES IDES	235 310 325	Furniture Design & Detailing Professional Practice Interior Design Studio IV (Office)	IDES 120, IDES 230 IDES 300	3[1+2] 3[3+0] 5[1+4]
	ARID	330	Research Paradigins		<u> </u>
INTERNSHIP	INTE	300	Internship II	70 credit hours, INTE 200	2
YEAR 4	GENE	440	Ethics and Professional Responsibility		3[3+0]
FALL	IDES	305	Interior Estimation & Specifications	IDES 110	3[3+0]
(MAJOR ELECTIVE Core)	IDES	420	Lighting design & technology	IDES 220	3[3+0]
,	IDES	405	Major Project I	ARID 330, INTE 300	5[0+5]
SPRING	GENE	340	Innovation, Entrepreneurship and Sustainability Major Elective 1		14 3[3+0] 3
			Major Elective 2		3
	IDES	410	Major Project II	IDES 405 Project I	5 [0+5]
					14
					121

19.2.3 Bachelor of Science in Aerospace Engineering

BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING MISSION STATEMENT

The mission of the Aerospace Engineering program is to deliver a modern curriculum that is nationally and internationally benchmarked and that equips graduates with knowledge, skills and competence to analyze, design, formulate and solve problems pertaining to aeronautical and astronautical systems, with real-world constraints, including sustainability, by working in teams and communicating effectively. The students develop experimental skills in well-equipped Aerospace Engineering Labs. Our graduates are innovators, life-long learners, ethical leaders and entrepreneurs who can contribute to the growth of UAE, regional and global communities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Science Aerospace Engineering at School of Engineering, Architecture and Interior Design aims at:

- (G1) Draw upon the fundamental and allied knowledge, multidisciplinary skills, and tools of Aerospace engineering to solve complex problems and provide sustainable solutions that satisfy constraints imposed by a global society through innovation, analysis, formulation, modeling, designing, implementing and verification.
- (G2) Enhance their knowledge, skills and competencies through continuing education, training, engaging in professional activities, graduate studies and lifelong learning.
- (G3) Work independently and collaboratively in teams, demonstrate leadership, autonomy, and ethical, social and professional responsibility.
- (G4) Successfully pursue entrepreneurship, careers in the industry or higher education to contribute to the growth of local and global communities

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Science Aerospace Engineering program, the graduate will be able to:

PLO 1: Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

PLO 2: Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

PLO 3: Communicate effectively with a range of audiences

PLO 4: Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

PLO 5: Function effectively on a team whose members together provide leadership create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

PLO 6: Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

PLO 7: Acquire and apply new knowledge as needed, using appropriate learning strategies

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

BS AERO – QFEMIRATES [L7]	1. Knowledge					2. SI	kills		3. Competence					e						
							3.	1. Au	tonon	ıy	3	.2. F	Role ii	า	_ 3	.3. S	elf			
	•	•	•	•	•	Б	Б	-	_	and	Resp	onsit	oility	~	Con	text	~	De	velopn	nent
	А 1	А 2	А 3	А 4	А 5	в 1	в 2	в 3	в 4	1	2	3	4	5	6	7	8	9	0	1
PLO 1: identify, formulate, and solve complex engineering problems by applying principles	specialized factual and theoretical knowledge and an understanding of the houndaries in a field of work or discipline	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional	understanding of critical approach to the creation and commitation of a systematic and coherent body of knowledge and	a comprehensive understanding of critical analysis, research systems and methods and evaluative problem-solving	familiarity with sources of current and new research and knowledge with integration of concepts from outside fields	technical, creative and analytical skills appropriate to solving specialised problems using evidentiary and procedural based	evaluating, selecting and applying appropriate methods, procedures or techniques in processes of investigation towards	evaluating and implementing appropriate research tools and strateories associated with the field of work or discipline	highly developed advanced communication and information technology skills to present. explain and/or critique complex and	can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and	can manage technical, supervisory or design processes in unpredictable, untamiliar and varving contexts	can work creatively and/or effectively as an individual, in team leadershin_managing contexts_across technical or professional	can express an internalised, personal view, and accept responsibility to society at large and to socio-cultural norms and	can function with full autonomy in technical and supervisory contexts and adout nara-orofessional roles with little quidance	can take responsibility for the setting and achievement of group or individual outcomes and for the management and supervision	can participate in peer relationships with qualified practitioners and lead multiple. complex groups	can take responsibility for managing the professional development and direct menioring of individuals and groups	can self-evaluate and take responsibility for contributing to professional practice and undertake regular professional	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
of engineering, science, and mathematics	X			Х																
PLO 2: apply engineering design to produce solutions that meet		x	x				х	х												

BS AERO – QFEMIRATES [L7]		1. K	nowle	edge			2. S	kills						3. C	ompe	etenc	е			
										3. and	1. Au Rest	tonon oonsil	ny bility	3	3.2. I Con	Role i Itext	n	3 De	3.3. Sovelopr	elf nent
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	С 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors																				
PLO 3: communicate effectively with a range of audiences									x											
PLO 4: recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts																				x
PLO 5: function effectively on a team whose members together provide leadership create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives											x	x	x	x	x	x	x			
PLO 6: develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions						x	x													
PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies					x					x	x			х				x	x	

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
ARAB	102	Arabic Language			3 [3+0]
ENGL	102	English for Academic Writing			3 [3+0]
COMM	105	Public Speaking			3 [3+0]
GENE	120	Islamic Culture			3 [3+0]
GENE	210	UAE Studies			3 [3+0]
GENE	340	Innovation, Entrepreneurship and Sustainability			3 [3+0]
GENE	440	Ethics and Professional Responsibility			3 [3+0]
BASIC SCIEN	CE AND MAT	TH (ENGINEERING REQUIREMENTS) - 30 CR			
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
PHYS	100	Mechanics and Wave Optics	MATH 100	MATH 105	4[3+1]
MATH	100	Mathematics I			4[4+0]
CHEM	100	General Chemistry			4[3+1]
MATH	105	Mathematics II	MATH 100		3[3+0]
PHYS	105	Electromagnetics and Modern Physics	PHYS 100		3[2+1]
MATH	120	Probability and Statistics			3[3+0]
MATH	200	Linear algebra	MATH 105		3[3+0]
MATH	210	Numerical Methods & Optimization	MATH 105		3[3+0]
MATH	220	Differential Equations	MATH 105		3[3+0]
MAJOR CORE	E (PROGRAM	REQUIREMENTS) - 73 CR			
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
ECON	370	Fundamentals of Engineering Economics			3[3+0]
MECH	200	Engineering Mechanics	MATH 105		5[4+1]
CSCI	200	Introduction to Computers and Programming			3[2+1]
EEEN	200	Basic Electrical and Electronics Engineering	MATH 100		4[3+1]
AERO	200	Elements of Aerospace Engineering	PHYS 100		3[2+1]
AERO	350	Aerodynamics I	MECH 315		3[2+1]
AERO	300	Aircraft Structures	MECH 310		3[2+1]
AERO	305	Space Mechanics and Control	MECH 200		3[3+0]
AERO	310	Aerodynamics II	AERO 350		3[2+1]
AERO	315	Aircraft Propulsion	MECH 300		3[2+1]
AERO	320	Aircraft Stability and Control	AERO 350		3[3+0]
AERO		Aircraft Daoign	AERO 320, AERO 315,		4[4+0]
	330		AERO 300, ECON 370		-[0]
AERO	330 335	Aircrait Design Airplane Performance	AERO 300, ECON 370 AERO 200		3[3+0]
AERO AERO	330 335 340	Airplane Performance Aerospace Materials	AERO 300, ECON 370 AERO 200 MECH 310		3[3+0] 3[2+1]

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AERO	400	Rockets and Missiles	AERO 320	3[3+0]
MECH	205	Engineering Graphics and Workshop Practices		2[0+2]
MECH	300	Engineering Thermodynamics	MATH 105	3[3+0]
MECH	310	Strength of Materials	MECH 200 or CIVL 200	4[3+1]
MECH	315	Engineering Fluid Mechanics	MECH 200 or CIVL 200	4[3+1]
PROE	400	Senior Design Project	INTE 300 AERO 330 90 credit hours	4[1+3]
INTE 200		Internship I	50 credit hours AERO 200	2
INTE 300		Internship II	90 credit hours INTE 200, AERO 305	2

MAJOR ELECTIVES- 9 CR

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
AERO	405	Space System Engineering	AERO 305, ECON 370		3[3+0]
AERO	410	Satellite Engineering	AERO 340, ECON 370		3[3+0]
AERO	415	Unmanned Aerial Vehicles and Artificial Intelligence	AERO 320, AERO 350, ECON 370		3[3+0]
AERO	420	Remote Sensing	AERO 305		3[3+0]
MECH	415	Finite Element Methods	MECH 200, MATH 210, MATH 220		3[2+1]
AERO	430	Computational Fluid Dynamics	AERO 310		3[2+1]

SCHEDULE OF DELIVERY

YEAR/SEM	COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
YEAR 1	MATH	100	Mathematics I			4[4+0]
FALL	CHEM	100	General Chemistry			4[3+1]
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
						14
SPRING	MATH	105	Mathematics II	MATH 100		3[3+0]
	PHYS	100	Mechanics and Wave Optics	MATH 100	MATH 105	4[3+1]
	CSCI	200	Introduction to Computers and Programming			3[2+1]
	MECH	205	Engineering Graphics and Workshop Practices			2[0+2]
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3

					18
YEAR 2	MATH	220	Differential Equations	MATH 105	3[3+0]
FALL	PHYS	105	Electromagnetics and Modern Physics	PHYS 100	3[2+1]
	MECH	300	Engineering Thermodynamics	MATH 105	3[3+0]
	MECH	200	Engineering Mechanics	MATH 105	5[4+1]
	GENE	210	UAE Studies		3[3+0]
					17
SPRING	MATH	200	Linear algebra	MATH 105	3[3+0]
	AERO	200	Elements of Aerospace Engineering	PHYS 100	3[2+1]
	MECH	310	Strength of Materials	MECH 200 or CIVL 200	4[3+1]
	MECH	315	Engineering Fluid Mechanics	MECH 200 or	4[3+1]
	EEEN	200	Basic Electrical and Electronics Engineering		4[3+1]
					18
SUMMER INTERNSHIP	INTE	200	Internship - I	AERO 200 90 Credit Hours	2
YEAR 3	MATH	120	Probability and Statistics		3[3+0]
FALL	AERO	350	Aerodynamics I	MECH 315	3[2+1]
	AERO	340	Aerospace Materials	MECH 310	3[2+1]
	AERO	300	Aircraft Structures	MECH 310	3[2+1]
	AERO	315	Aircraft Propulsion	MECH 300	3[2+1]
	AERO	305	Space Mechanics and Control	MECH 200	3[3+0]
					18
SPRING	MATH	210	Numerical Methods & Optimization	MATH 105	3[3+0]
	ECON	370	Fundamentals of Engineering Economics		3[3+0]
	AERO	310	Aerodynamics II	AERO 350	3[3+0]
	AERO	345	Spacecraft Propulsion	AERO 315	3[3+0]
	AERO	320	Aircraft Stability and Control	AERO 350	3[3+0]
					15
SUMMER INTERNSHIP	INTE 300		Internship - II	90 credit hours, ECON 370	2
YEAR 4	GENE	440	Ethics and Professional Responsibility		3[3+0]
FALL	AERO	330	Aircraft Design	AERO 315, AERO 300, AERO 320,	4[4+0]
	AFRO	335	Airplane Performance	AFRO 200	3[3+0]
	AFRO	000	Major Elective 1		3
	AERO		Major Elective 2		3
	/				16
SPRING	GENE	340	Innovation, Entrepreneurship and Sustainability		3 [3+0]
	AERO	400	Rockets and Missiles	AERO 320	3[3+0]
	AERO		Major Elective 3		3
	PROE	400	Senior Design Project	AERO 330 90 credit hours	4[1+3]

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19.2.4 Bachelor of Science in Biotechnology

BACHELOR OF SCIENCE IN BIOTECHNOLOGY MISSION STATEMENT

The mission of the Biotechnology program is to deliver a modern curriculum that is nationally and internationally benchmarked and that equips graduates with knowledge, skills and competence to analyze, design, formulate and solve technical or scientific problems with real-world constraints by working in teams and communicating effectively. Students will be afforded the opportunity for industry and community engagement. The students will develop experimental skills in well-equipped Biotechnology Labs. Graduates are equipped with research and development skills in science, healthcare, agriculture, environment and sustainability. Our graduates are innovators, life-long learners, ethical leaders and entrepreneurs who can contribute to the growth of UAE, regional and global communities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Science Biotechnology at School of Engineering, Architecture and Interior Design aims at:

- (G1) Draw upon the fundamental and allied knowledge, multidisciplinary skills, and tools of Biotechnology to solve complex problems and provide sustainable solutions that satisfy constraints imposed by a global society through innovation, analysis, formulation, modeling, designing, implementing and verification.
- (G2) Enhance their knowledge, skills and competencies through continuing education, training, engaging in professional activities, graduate studies and lifelong learning.
- (G3) Work independently and collaboratively in teams, demonstrate leadership, autonomy, and ethical, social and professional responsibility.
- (G4) Successfully pursue entrepreneurship, careers in the industry or higher education to contribute to the growth of local and global communities

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Science Biotechnology program, the graduate will be able to:

PLO 1: identify, formulate, and solve broadly defined technical or scientific problems by applying knowledge of mathematics and science and/or technical topics to areas relevant to the discipline.

PLO 2: formulate or design a system, process, procedure or program to meet desired needs.

PLO 3: communicate effectively with a range of audiences.

PLO 4: understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts.

PLO 5: function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.

PLO 6: develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgment to draw conclusions.

PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

BS BIOT – QFEMIRATES [L7]		1. K	nowle	edge			2. SI	kills						3. C	ompe	etenc	е			
[]										3. and	1. Au Resc	tonon oonsit	ny bilitv	3	.2. I Cor	Role i	n	3 De	3.3. S velopr	elf nent
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
	specialized factual and theoretical knowledge and an inderstanding of the buildaries in a field of work or discipline	an understanding of allied knowledge and theories in related ialds of work or disciplines and in the case of professional	understanding of critical approach to the creation and	a comprehensive understanding of critical analysis, research wstems and methods and evaluative problem-solving	amiliarity with sources of current and new research and	echnical, creative and analytical skills appropriate to solving	evaluating, selecting and applying appropriate methods,	evaluating and implementing appropriate research tools and trateories associated with the field of work or discipline	highly developed advanced communication and information .	can take responsibility for developing innovative and advanced	an manage technical, supervisory or design processes in underdictable underniliar and varving contexts	an work creatively and/or effectively as an individual, in team eadershin mananing contexts across technical or professional	an express an internalised, personal view, and accept esnonsihility to society at large and to socio-cultural norms and	can function with full autonomy in technical and supervisory	an take responsibility for the setting and achievement of group	an participate in peer relationships with qualified practitioners	an take responsibility for managing the professional levelonment and direct mentoring of individuals and groups	an self-evaluate and take responsibility for contributing to	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	an contribute to and observe ethical standards
PLO 1: identify, formulate, and solve broadly defined technical or scientific problems by applying knowledge of mathematics and science and/or technical topics to areas relevant to the discipline PLO 2: formulate or design	X			X	<u> </u>	<u>v 1</u>		<u> </u>	4 1	<u> </u>	0		0 2						00	
a system, process, procedure or program to meet desired needs		X	x				x	X												
PLO 3: communicate effectively with a range of audiences.									x											
PLO 4: understand ethical and professional responsibilities and the impact of technical and/ or scientific solutions in global, economic, environmental, and societal contexts.																				x
PLO 5: function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.											x	x	x	x	X	X	x			
experiments or test hypotheses, analyze and interpret data and use						X	x													

BS BIOT – QFEMIRATES [L7]		1. K	nowl	edge			2. S	kills						3. C	ompe	etenc	e			
										3.	1. Au	tonor	ny	3	3.2. 1	Role i	'n	3	3.3. S	elf
										ana	i Resj	onsil	oility		Cor	itext		De	velopn	nent
	Α	Α	Α	Α	Α	В	В	В	В	С	С	С	С	С	С	С	С	С	C1	C1
	1	2	3	4	5	1	2	3	4	1	2	3	4	5	6	7	8	9	0	1
scientific judgment to draw																				
conclusions.																				
PLO 7: acquire and apply																				
new knowledge as needed,					Y					v	v			v				Y	Y	
using appropriate learning					^					^	^			^				^	~	
strategies.																				

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURSE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
					3
ARAB	102	Arabic Language			[3+0]
					3
ENGL	102	English for Academic Writing			[3+0]
					3
COMM	105	Public Speaking			[3+0]
					3
GENE	120	Islamic Culture			[3+0]
	040				3
GENE	210	UAE Studies			[3+0]
		Innovation, Entrepreneurship and			3
GENE	340	Sustainability			[3+0]
		Ethics and Professional			3
GENE	440	Responsibility			[3+0]
BASIC SCIEN		FH (ENGINEERING			
REQUIREME	NIS) - 20 CR				
COURSE	COURSE		BREBEOLUOITEO		
CODE	#		PREREQUISITES	COREQUISITES	[L+P/S]
PHYS	100	Mechanics and Wave Optics	MATH 125 or MATH 10	0	4[3+1]
MATH	125	Mathematics for Biotechnology			3[3+0]
CHEM	100	General Chemistry			4[3+1]
MAIH	130	Computational Statistics			3[3+0}
CHEM	105	Organic Chemistry	CHEM 100		3[2+1]
BIOL	100	Biology I			3[2+1]
MAJOR COR	E (PROGRAM	I REQUIREMENTS) - 71 CR			

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
		Introduction to Computers and		· · · · · · · · · · · · · · · · · · ·	
CSCI	200	Programming			3[2+1]
		Basic Electrical and Electronics			
EEEN	200	Engineering	MATH 125 or MATH 100		4[3+1]
BIOL	105	Biology II	BIOL 100		3[2+1]
BIOT	220	General Genetics	BIOL 105		3[3+0]
BIOT	200	Biochemistry	BIOL 100, CHEM 105		4[3+1]
BIOT	205	General Microbiology	BIOL 100		4[3+1]
BIOT	210	Molecular Biology	BIOT 220		4[3+1]
BIOT	215	IPR Biosafety & Bioethics	BIOL 100		2[2+0]

		Analytical techniques in		
BIOT	300	biotechnology	CHEM 100, BIOT 200	4[3+1]
BIOT	305	Biochemical thermodynamics	BIOT 200	3[3+0]
BIOT	310	Plant & Animal Biotechnology	BIOT 200	4[3+1]
BIOT	315	Bioinformatics	CSCI 200, BIOT 220	3[3+0]
BIOT	320	Environmental Biotechnology	BIOT 205	3[3+0]
BIOT	325	Downstream processing	BIOT205, BIOT210	4[3+1]
BIOT	330	Immunology & Serology	BIOT210	3[2+1]
		Introduction to Nanoscience &		
BIOT	335	Nanotechnology	CHEM 105	4[3+1]
		Biotechnology & Genetic		
BIOT	430	Engineering	BIOT 220, BIOT 210	4[4+0]
BIOT	435	Enzyme Engineering & Technology	BIOT 200	4[3+1]
			BIOL 105,	
INTE	200	Internship – I	50 credit hours	2
			INTE 200, BIOT 300,	
INTE	300	Internship - II	80 credit hours	2
			90 credit hours, INTE 300,	
PROE	400	Senior Design Project	BIOT 430	4[1+3]

MAJOR ELECTIVES – 9 CR

COURSE	COURSE			COREQUISITE	E CR
CODE	#	COURSE TITLE	PREREQUISITES	S	[L+P/S]
BIOT	400	Food Biotechnology	BIOT 205		3[3+0]
BIOT	405	Biopharmaceutical Technology	CHEM 105		3[3+0]
BIOT	410	Nanobiotechnology	BIOT 335		3[3+0]
		Fermentation Technology and			
BIOT	415	Applications	BIOT 325		3[3+0]
BIOT	420	Applied and Industrial Microbiology	BIOT 205		3[3+0]
		Advanced Instrumentation			
BIOT	425	Techniques	BIOT 300		3[3+0]
OPEN ELECTI	VES (CHOOS	SE 6 CREDITS FROM ANY PROGRAM	M SUBJECT TO FULFILLING THEIR		
PREREQUISIT	ES IF ANY) -	- 6 CR			
COURSE	COURSE			COREQUISI	
CODE	#	COURSE TITLE	PREREQUISITES	TES	CR [L+P/S]
		Open Elective I	As per Catalog		3
		Open Elective II	As per Catalog		3

SCHEDULE OF DELIVERY

YEAR/SEM	COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
YEAR 1	MATH	125	Mathematics for Biotechnology			3[3+0]
FALL	BIOL	100	Biology I			3[2+1]
	CHEM	100	General Chemistry			4[3+1]
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
						16
SPRING	PHYS	100	Mechanics and Wave Optics	MATH 125 or MATH	ł 100	4[3+1]
	BIOL	105	Biology II	BIOL 100		3[2+1]
	CSCI	200	Introduction to Computers and Programming			3[2+1]
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
						16
YEAR 2 FALL	MATH BIOT EEEN CHEM	130 220 200 105	Computational Statistics General genetics Basic Electrical and Electronics Engineering Organic Chemistry	BIOL 105 MATH 125 or MATH CHEM 100	I 100	3[3+0} 3[3+0] 4[3+1] 3[2+1]

	GENE	210	UAE Studies		3[3+0]
					16
SPRING	BIOT BIOT BIOT BIOT	200 205 210 215	Biochemistry General Microbiology Molecular Biology IPR, Biosafety & Bioethics	BIOL 100, CHEM 105 BIOL100 BIOT 220 BIOL 100	4[3+1] 4[3+1] 4[3+1] 2[2+0]
					14
	INTE 200		Internship I	BIOL 105, 50 credit hours	<u>2</u> 2
YEAR 3 FALL	BIOT BIOT BIOT BIOT BIOT	320 300 305 330 335	Environmental Biotechnology Analytical techniques in Biotechnology Biochemical thermodynamics Immunology & Serology Introduction to Nanoscience & Nanotechnology	BIOT 205 CHEM 100, BIOT 200 BIOT 200 BIOT210 CHEM 105	3[3+0] 4[3+1] 3[3+0] 3[2+1] 4[3+1]
					17
SPRING	BIOT BIOT BIOT BIOT	315 325 430 310	Bioinformatics Downstream processing Biotechnology & Genetic Engineering Plant & Animal Biotechnology	CSCI 200, BIOT 220 BIOT205, BIOT210 BIOT 220, BIOT210 BIOT 200	4[3+1] 4[3+1] 4[4+0] 3[3+0]
INTERNSHIP	INTE 300		Internship II	INTE 200, BIOT 300 80 credit hours	15 2
YEAR 4 FALL	GENE BIOT BIOT BIOT	440 435	Open Elective 1 Ethics and Professional Responsibility Enzyme Engineering & Technology Major Elective 1 Major Elective 2	BIOT 200	2 3[3+0] 3[3+0] 4[3+1] 3[3+0] 3[3+0]
SPRING	GENE BIOT	340	Innovation, Entrepreneurship and Sustainability Open Elective 2 Major Elective 3		16 3[3+0] 3[3+0] 3[3+0]
	PROE	400	Senior Design Project	INTE 300, BIOT 430 90 credit hours	4[1+3]
					<u>13</u> 127

19.2.5 Bachelor of Science in Civil Engineering

BACHELOR OF SCIENCE IN CIVIL ENGINEERING MISSION STATEMENT

The mission of the Civil Engineering program is to deliver a modern curriculum that is nationally and internationally benchmarked and that equips graduates with knowledge, skills and competence to analyze, design, formulate and solve problems with real-world constraints, including sustainability, by working in teams and communicating effectively. Students will be afforded the opportunity for engagement with industry through site visits, community and professional bodies. The students develop experimental skills in well-equipped Civil Engineering Labs. Our graduates are innovators, life-long learners, ethical leaders and entrepreneurs who can contribute to the growth of UAE, regional and global communities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Science Civil Engineering at School of Engineering, Architecture and Interior Design aims at:

- (G1) Draw upon the fundamental and allied knowledge, multidisciplinary skills, and tools of Civil engineering to solve complex problems and provide sustainable solutions that satisfy constraints imposed by a global society through innovation, analysis, formulation, modeling, designing, implementing and verification.
- (G2) Enhance their knowledge, skills and competencies through continuing education, training, engaging in professional activities, graduate studies and lifelong learning.
- (G3) Work independently and collaboratively in teams, demonstrate leadership, autonomy, and ethical, social and professional responsibility.
- (G4) Successfully pursue entrepreneurship, careers in the industry or higher education to contribute to the growth of local and global communities

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Science Civil Engineering program, the graduate will be able to:

PLO 1: identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

PLO 2: apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

PLO 3: communicate effectively with a range of audiences.

PLO 4: recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

PLO 5: function effectively on a team whose members together provide leadership create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

PLO 6: develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

QFEMIRATES [L7]	1. Knowledge			2. Skills				3. Competence					0.0 0.4							
										3.1. Autonomy and 3.2. Role in Responsibility Context						3.3. Self				
	Δ1	Δ2	Δ3	Δ4	Δ5	B1	B2	B3	B4	C1	espoi	C3	y C4	C5	C6		C8	C9	C10	C11
	becialized factual and theoretical knowledge and an oderstanding of the boundaries in a field of work or discipline, promoscing of broad and ophoret body of heavyload and	ו understanding of allied knowledge and theories in related elds of work or disciplines and in the case of professional	derstanding of critical approach to the creation and moliation of a systematic and coherent body of knowledge and	comprehensive understanding of critical analysis, research stems and methods and evaluative problem-solving	miliarity with sources of current and new research and nowledge with integration of concepts from outside fields	chnical, creative and analytical skills appropriate to solving becialised problems using evidentiary and procedural based coresses in predictable and new contexts that include devision	/aluating, selecting and applying appropriate methods, ocedures or techniques in processes of investigation towards	/aluating and implementing appropriate research tools and rategies associated with the field of work or discipline	ghly developed advanced communication and information chnology skills to present, explain and/or critique complex and	in take responsibility for developing innovative and advanced	an manage technical, supervisory or design processes in noredictable. unfamiliar and varving contexts	an work creatively and/or effectively as an individual, in team adership, managing contexts, across technical or professional	an express an internalised, personal view, and accept sponsibility to society at large and to socio-cultural norms and	an function with full autonomy in technical and supervisory ontexts and adopt para-professional roles with little quidance	an take responsibility for the setting and achievement of group individual outcomes and for the management and supervision	an participate in peer relationships with qualified practitioners	an take responsibility for managing the professional evelopment and direct mentoring of individuals and groups	an self-evaluate and take responsibility for contributing to ofessional practice, and undertake regular professional	an manage learning tasks independently and professionally, in omplex and sometimes unfamiliar learning contexts	an contribute to and observe ethical standards
PLO 1: identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	X	ar		کر مر	fa	te Sr	ev	ev	hi te	C2 at	CC	CC CC	23 26	00	3 10	ar ce	<u>G</u>	8	3 3	8
PLO 2: apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.		x	x				x	x												
PLO 3: communicate effectively with a range of audiences.									x											
PLO 4: recognize ethical and professional responsibilities in engineering situations and make informed																				x

QFEMIRATES [L7]	1. Knowledge				2. Skills				3. Competence											
				-						3.1. Autonomy and 3.2. Role in					1	3.3. Self				
							Responsit			nsibilit	ty		Con	text		De	velopn	nent		
	A1	A2	A3	A4	A5	B1	B2	B 3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
judgments, which																				
must consider the																				
impact of																				
engineering																				
solutions in global,																				
economic,																				
environmental, and																				
Societal contexts.																				
PLO 5: function																				
tere where																				
mombors togothor																				
nrovide leadership																				
create a																				
collaborative and											X	Χ	Х	Χ	Х	Х	Х			
inclusive																				
environment.																				
establish goals,																				
plan tasks, and																				
meet objectives.																				
PLO 6: develop																				
and conduct																				
appropriate																				
experimentation,																				
analyze and						v	v													
interpret data, and						~	Χ													
use engineering																				
iudament to draw																				
conclusions.																				
PLO 7: acquire and																				
apply new																				
knowledge as																				
needed, using					Χ					Х	X			Χ				Χ	X	
appropriate																				
learning strategies.																				
0 0																				

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURSE	COURS			COREQUISITE	
CODE	E #	COURSE TITLE	PREREQUISITES	S	CR [L+P/S]
ARAB	102	Arabic Language			3 [3+0]
ENGL	102	English for Academic Writing			3 [3+0]
COMM	105	Public Speaking			3 [3+0]
GENE	120	Islamic Culture			3 [3+0]
GENE	210	UAE Studies			3 [3+0]
GENE	340	Innovation, Entrepreneurship and Sustainabili	ty		3 [3+0]
GENE	440	Ethics and Professional Responsibility			3 [3+0]

CR COURSE CODE	COURS E #	COURSE TITLE	PREREQUISITES	COREQUISIT ES	CR [L+P/S]		
PHYS	100	Mechanics and Wave Optics	MATH100	MATH105	4[3+1]		
MATH	100	Mathematics I			4[4+0]		
CHEM	100	General Chemistry			4[3+1]		
MATH	105	Mathematics II	MATH 100		3[3+0]		
PHYS	105	Electromagnetics and Modern Physics	PHYS100		3[2+1]		
MATH	120	Probability and Statistics			3[3+0]		
MATH	200	Linear algebra	MATH 105		3[3+0]		
BIOL	100	Biology I			3[2+1]		
MATH	220	Differential Equations	MATH 105		3[3+0]		
MAJOR COR	E (PROGR	AM REQUIREMENTS) - 63 CR					
COURSE	COURS E #	COURSE TITLE	PREREQUISITES	COREQUISIT	CR [L+P/S]		
CIVL	200	Basic Mechanics	MATH 105	-	3[2+1]		
CSCI	200	Introduction to Computers and Programming			3[2+1]		
MECH	205	Engineering Graphics and Workshop Practices			2[0+2]		
CIVL	215	Surveying			4[3+1]		
CIVL	225	Transportation Engineering	CIVL 215 &CIVL 230		4[3+1]		
MECH	310	Strength of Materials	CIVL 200		4[3+1]		
CIVL	230	Building Materials			3[2+1]		
MECH	315	Engineering Fluid Mechanics	CIVL 200		4[3+1]		
CIVL	300	Structural Analysis	CIVL 200		3[3+0]		
CIVL	305	Soil and Rock Mechanics		MECH 315	4[3+1]		
CIVL	315	Design of Reinforced Concrete structures	CIVL300&CIVL230		3[2+1]		
CIVL	320	Water resources and water supply engineering	MECH 315		3[2+1]		
CIVL	405	Waste water engineering	MECH 315		3[2+1]		
CIVL	330	Traffic Engineering management	CIVL 225		3[3+0]		
CIVL	325	Design of Steel Structures	CIVL300		3[2+1]		
CIVL	310	Foundation Engineering	CIVL 305		3[3+0]		
CIVL		Construction Project management			<u>t</u>		
	420		CIVL 230		3[2+1]		
ENGR 400		Senior Design Project I	90 credit hours & INTE 300		2[1+1]		
ENGR 405		Senior Design Project II	ENGR 400		2[0+2]		
INTE 200		Internship I	50 credit hours		2		
INTE 300		Internship II	90 credit hours & INTE 200		2		
MAJOR ELE COURSE	CTIVES COURS			COREQUI	CD [+D/61		
	⊑# ∡∩∩	Quantity surveying and estimation		31123	3[3±0]		
	400	Analysis and design of prestressed concrete					
CIVL	410	structures			3[3+0]		

BASIC SCIENCE AND MATH (ENGINEERING REQUIREMENTS) - 30

AMITY UNIVERSITY DUBAI 96

CSCI	470	Data Science for Engineers			3[2+1]
CIVL		Green building concepts	CIVL		010 11
	435		420		3[2+1]
CIVL	430	Ground improvement techniques	CIVL 305		3[2+1]
CIVL		Health, Safety and Environmental Engineering			
	440	for Construction.			3[3+0]
MAJOR ELE	ECTIVES (G	ENERAL BS CIVIL ENGINEERING WITH NO CO	NCENTRATION: CHOOSE A MIX	(OF 15	
CREDITS F	ROM TWO F	POOLS) - 15 CR			
COURSE	COURS			COREQUI	
CODE	E#	COURSE TITLE	PREREQUISITES	SITES	CR [L+P/S]
CODE	E #	COURSE TITLE Any Combination of Credits from Major	PREREQUISITES	SITES	CR [L+P/S]
CODE	<u> </u>	COURSE TITLE Any Combination of Credits from Major Electives	PREREQUISITES As per Catalog	SITES	CR [L+P/S] 15
CODE OPEN ELEC	E #	COURSE TITLE Any Combination of Credits from Major Electives OOSE 6 CREDITS FROM ANY PROGRAM SUBJ	PREREQUISITES As per Catalog ECT TO FULFILLING THEIR	SITES	CR [L+P/S] 15
CODE OPEN ELEC PREREQUIS	E # CTIVES (CH SITES IF AN	COURSE TITLE Any Combination of Credits from Major Electives OOSE 6 CREDITS FROM ANY PROGRAM SUBJ IY) - 6 CR	PREREQUISITES As per Catalog ECT TO FULFILLING THEIR	SITES	<u>CR [L+P/S]</u> 15
CODE OPEN ELEC PREREQUIS COURSE	E # CTIVES (CHO SITES IF AN COURS	COURSE TITLE Any Combination of Credits from Major Electives OOSE 6 CREDITS FROM ANY PROGRAM SUBJ IY) - 6 CR	PREREQUISITES As per Catalog ECT TO FULFILLING THEIR	SITES	<u>CR [L+P/S]</u> 15 CR
CODE OPEN ELEC PREREQUIS COURSE CODE	E # CTIVES (CH SITES IF AN COURS E #	COURSE TITLE Any Combination of Credits from Major Electives OOSE 6 CREDITS FROM ANY PROGRAM SUBJ IY) - 6 CR COURSE TITLE	PREREQUISITES As per Catalog ECT TO FULFILLING THEIR PREREQUISITES	SITES COREQUISIT ES	<u>CR [L+P/S]</u> 15 CR [L+P/S]
CODE OPEN ELEC PREREQUIS COURSE CODE	E # CTIVES (CH SITES IF AN COURS E #	COURSE TITLE Any Combination of Credits from Major Electives OOSE 6 CREDITS FROM ANY PROGRAM SUBJ IY) - 6 CR COURSE TITLE Open Elective I	PREREQUISITES As per Catalog ECT TO FULFILLING THEIR PREREQUISITES As per Catalog	SITES COREQUISIT ES	CR [L+P/S] 15 CR [L+P/S] 3

YEAR/SE M	COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR [L+P/S]
YEAR 1	BIOL	100	Biology I			3[2+1]
FALL	MATH	100	Mathematics I			4[4+0]
	CHEM	100	General Chemistry			4[3+1]
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
						17
SPRING	MATH	105	Mathematics II	MATH 100		3[3+0]
	PHYS	100	Mechanics and Wave Optics	MATH100	MATH105	4[3+1]
	CSCI	200	Introduction to Computers and Programming			3[2+1]
	MECH	205	Engineering Graphics and Workshop Practices			2[0+2]
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
						18
YEAR 2	MATH	220	Differential Equations	MATH 105		3[3+0]
FALL	MATH	200	Linear algebra	MATH 105		3[3+0]
	PHYS	105	Electromagnetics and Modern Physics	PHYS100		3[2+1]
	CIVL	200	Basic Mechanics	MATH 105		3[2+1]
	GENE	210	UAE Studies			3[3+0]
						15
SPRING	MATH	120	Probability and Statistics			3[3+0]
	CIVL	215	Surveying			4[3+1]
	MECH	310	Strength of materials	CIVL 200		4[3+1]
	CIVL	300	Structural Analysis	CIVL 200		3[3+0]
	CIVL	230	Building Materials			3[2+1]
		late we chin				17
INTE 200		Internship		50 credit hours		2
YEAR 3						
	CIVL	225	Transportation Engineering	CIVL 230 & CIVL215		4[3+1]
FALL	CIVL	305	Soil and Rock Mechanics		MECH 315	4[3+1]
	MECH	315	Engineering fluid mechanics	CIVL 200		4[3+1]
	CIVL	420	Construction Project management	CIVL 230		3[2+1]
	CIVL	<mark>315</mark>	Design of Reinforced Concrete Structures	CIVL 230, CIVL 300		<mark>3[2+1]</mark>
						<mark>18</mark>

SCHEDULE OF DELIVERY

405

CIVL

Waste water engineering

					135
					14
	ENGR	405	Senior Design Project II	ENGR 400	2[0+2]
			Major Elective 5		3
			Major Elective 4		3
	GENE	440	Ethics and Professional Responsibility		3 [3+0]
			Open Elective 2		3
SPRING					
					17
	ENGR	400	Senior Design Project I	90 credit hours & INTE 300	2[1+1]
	GENE	340	Innovation, Entrepreneurship and Sustainability		3 [3+0]
			Major Elective 3		3
FALL			Major Elective 2		3
			Major Elective 1		3
YEAR 4			Open Elective 1		3
INTERNS HIP	INTE 300		Internship II	90 credit hours & INTE 200	2
					15
	CIVL	310	Foundation Engineering	CIVL 305	3[3+0]
	CIVL	325	Design of Steel Structures	CIVL 300	3[2+1]
	CIVL	320	Engineering	MECH 315	3[2+1]
		330	I raffic Engineering management	CIVL 225	3[3+0]
	CIVI		Troffic Engineering menoperat	011/1 005	

19.2.6 Bachelor of Science in Computer Science

BACHELOR OF SCIENCE IN COMPUTER SCIENCE MISSION STATEMENT

The mission of the Computer Science program is to deliver a modern curriculum that is nationally and internationally benchmarked and that equips graduates with knowledge, skills and competence to analyze, design and solve computing problems with real-world constraints (including sustainability) by working in teams and communicating effectively. Students will be afforded the opportunity for industry and community engagement and to develop research skills. Our graduates are innovators, life-long learners, ethical leaders and entrepreneurs who can contribute to the growth of UAE, regional and global communities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Science Computer Science at School of Engineering, Architecture and Interior Design aims at:

- (G1) Draw upon the fundamental and allied knowledge, multidisciplinary skills, and tools of Computer Science to solve complex problems and provide sustainable solutions that satisfy constraints imposed by a global society through innovation, analysis, formulation, modeling, designing, implementing and verification.
- (G2) Enhance their knowledge, skills and competencies through continuing education, training, engaging in professional activities, graduate studies and lifelong learning.
- (G3) Work independently and collaboratively in teams, demonstrate leadership, autonomy, and ethical, social and professional responsibility.

- (G4) Successfully pursue entrepreneurship, careers in the industry or higher education to contribute to the growth of local and global communities

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Science Computer Science program, the graduate will be able to:

PLO 1: analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

PLO 2: design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

PLO 3: communicate effectively in a variety of professional contexts.

PLO 4: recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

PLO 5: function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

PLO 6: apply computer science theory and software development fundamentals to produce computing-based solutions.

PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies

CYBERSECURITY CONCENTRATION

In addition to preceding Program Learning Outcomes, graduates opting for the Cybersecurity Concentration will be able to:

PLO 8: analyze security in enterprise networks, define cybersecurity policies and procedures to manage risks.

PLO 9: apply knowledge to assess and deploy cybersecurity solutions to IT infrastructure.

ARTIFICIAL INTELLIGENCE CONCENTRATION

In addition to preceding Program Learning Outcomes, graduates opting for the Artificial Intelligence Concentration will be able to:

PLO 10: apply basic principles, models, and algorithms in Artificial Intelligence to identify, evaluate and solve complex computing problems.

PLO 11: analyze and solve cognitive problems using machine learning, analytics, and intelligent algorithms.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

BS CSCI – QFEMIRATES		1. K	nowle	edge			2. S	kills		3. Competence										
L=.1										3. R	1. Au aı espoi	tonor nd nsibili	ny itv	3	.2. I Con	Role i ntext	'n	3.3. Self Development		
	A 1	A 2	A 3	A 4	A 5	В 1	B 2	B 3	В 4	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional	understanding of critical approach to the creation and commitation of a systematic and coherent body of knowledge and	a comprehensive understanding of critical analysis, research systems and methods and evaluative problem-solving	familiarity with sources of current and new research and wowledge with internation of concerts from outside fields	technical, creative and analytical skills appropriate to solving senerialised problems using evidentiary and procedural based	evaluating, selecting and applying appropriate methods, procedures or technicmes in processes of investigation towards	evaluating and implementing appropriate research tools and strateries associated with the field of work or discipline	highly developed advanced communication and information accharlow skills to mesent explain and/or criticule commlex and	can take responsibility for developing innovative and advanced	can manage technical, supervisory or design processes in untradictable unfamiliar and varying contacts	can work creatively and/or effectively as an individual, in team leadership, menaning contexts, across technical or professional	can express an internalised, personal view, and accept resonasibility to enciety at Jarne and to socio-cultural norms and	can function with full autonomy in technical and supervisory contexts and adont para-professional roles with little quidance	can take responsibility for the setting and achievement of group re individual outcomes and for the management and supervision	can participate in peer relationships with qualified practitioners and lead multiple complex groups	can take responsibility for managing the professional	can self-evaluate and take responsibility for contributing to	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
PLO 1: analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions		X			. 4 -	X								0		0				
PLO 2: design, implement, and evaluate a computing- based solution to meet a given set of computing requirements in the context of the program's discipline.			x	x			x	x												
PLO 3: communicate effectively in a variety of professional contexts.									x											
PLO 4: recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.																				x
PLO 5: function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline											X	X	X	X	X	X	X			
PLO 6: apply computer science theory and software development fundamentals to produce	x					x														

BS CSCI – QFEMIRATES [L7]		1. K	nowl	edge			2. S	kills						3. C	omp	etenc	e			
										3. R	1. Au a Sespo	ıtonoı nd nsibil	ny ity	3	3.2. Role in Context			3.3. Self Development		
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	B 3	В 4	C 1	C 2	C 3	C 4	C 5	0 C	C 7	C 8	C 9	C1 0	C1 1
computing-based solutions.																				
PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies.					x					x	x			x				x	x	
ARTIFICIAL INTELLIGENCE CONCENTRATION PLO 8: apply basic principles, models, and algorithms in Artificial Intelligence to identify, evaluate and solve complex computing problems.		x				x														
PLO 9: analyze and solve cognitive problems using machine learning, analytics, and intelligent algorithms		x	x				x	x												
CYBERSECURITY CONCENTRATION PLO 10: analyze security in enterprise networks, define cybersecurity policies and procedures to manage risks.		x		x																
PLO 11: apply knowledge to assess and deploy cybersecurity solutions to IT infrastructure.		x	x				x	x												

PROGRAM STRUCTURE

GENERAL I 21 CR	EDUCATIO	ON (UNIVERSITY REQUIREMENTS) -			
COURSE CODE	COUR SE #	COURSE TITLE	PREREQUISITE S	COREQUISITES	CR [L+P/S]
ARAB	102	Arabic Language			3 [3+0]
COMM	105	Public Speaking			3 [3+0]
ENGL	102	English for Academic Writing			3 [3+0]
GENE	120	Islamic Culture			3 [3+0]
GENE	210	UAE Studies			3 [3+0]
GENE	340	Innovation, Entrepreneurship and Sustainability			3 [3+0]

		Ethics and Professional			3
GENE	440	Responsibility			[3+0]
BASIC SCIE		MATH (ENGINEERING			
REQUIREM	ENTS) – 2	3 CR			
COURSE	COÚR				CR
CODE	SE #	COURSE TITLE	PREREQUISITES	COREQUISITES	[L+P/S]
MATH	100	Mathematics I			4[4+0]
MATH	105	Mathematics II	MATH 100		3[3+0]
MATH	110	Mathematics for Technology			3[3+0]
MATH	120	Probability and Statistics			3[3+0]
MATH	210	Numerical Methods & Optimization	MATH 105		3[3+0]
PHYS	100	Mechanics and Wave Optics	MATH 100 or MATH 125	Math 105	4[3+1]
		Electromagnetics and Modern			
PHYS	105	Physics	PHYS 100		3[2+1]
MAJOR CO	RE (PROG	GRAM REQUIREMENTS) - 66 CR			
COURSE	COUR				CR
CODE	SE #	COURSE TITLE	PREREQUISITES	COREQUISITES	[L+P/S]
		Basic Electrical and Electronics			
EEEN	200	Engineering	MATH 100 or MATH 125		4[3+1]
EEEN	215	Digital Design	CSCI 200		4[3+1]
		Introduction to Computers and			
CSCI	200	Programming			3[2+1]
		Object-Oriented Programming using			
CSCI	205	Java			4[3+1]
CSCI	210	Database Management Systems			4[3+1]
CSCI	215	Data Structures and Algorithms	CSCI 200		4[3+1]
CSCI	300	Operating Systems			3[2+1]
	~~-	Computer Architecture and			
CSCI	305	Organization	EEEN 215		4[3+1]
0001	040	Principles of Programming	0001005		010 - 01
	310		CSCI 205		3[3+0]
	315	I neory of Computation	0001015		4[4+0]
	320	Analysis and Design of Algorithms	USCI 215		4[3+1]
	330	Computer Networks	0001005		4[3+1]
	335	Software Engineering	<u>CSCI 205</u>		3[2+1]
	340	Computer Security and the Internet	CSCI 330		3[3+0]
	400	Artificial Intelligence	0001000		4[3+1]
	405	Parallel and Distributed Computing			3[3+0]
INTE 200		Internship I	45 credit hours		2
			80 credit hours and INTE		0
	400		200		2
PROE	400	Senior Design Project	90 credit hours		4[1+3]

MAJOR ELECTIVES (CONCENTRATION REQUIREMENTS:

CYBERSEC	URITY) - 1	I5 CR			
COURSE	COUR			COREQUISIT	CR
CODE	SE #	COURSE TITLE	PREREQUISITES	ES	[L+P/S]
		Advanced Networking and			
CSCI	440	Cybersecurity	CSCI 330		3[3+0]
CSCI	445	Applied Cryptography	MATH 200		3[3+0]
CSCI	450	Network Security			3[3+0]
CSCI	455	Digital Forensics			3[3+0]
		Security Policy, Laws and			
CSCI	460	Governance			3[3+0]
CSCI	465	Information Security Management			3[3+0]
MAJOR ELE	ECTIVES (CONCENTRATION REQUIREMENTS:	ARTIFICIAL INTELLIGENCE) - 15		
CR					
COURSE	COUR			COREQUISIT	CR
CODE	SE #	COURSE TITLE	PREREQUISITES	ES	[L+P/S]
		Digital Image Processing and			
CSCI	410	Computer Vision	MATH 200		3[3+0]
CSCI	415	AI for Data Analytics			3[3+0]

CSCI	420	Natural Language Processing	g	3[3+0]
CSCI	425	Cognitive Robotics		3[3+0]
CSCI	430	Machine Learning	CSCI 215	3[3+0]
CSCI	435	Neural Networks	CSCI 215	3[3+0]

MAJOR ELECTIVES (GENERAL BS COMPUTER SCIENCE WITH NO CONCENTRATION: CHOOSE A MIX OF 15 CREDITS FROM TWO POOLS) - 15 CR COURSE COUR COREQUISIT

COURSE CODE	COUR SE #	COURSE TITLE	PREREQUISITES	COREQUISIT ES	CR [L+P/S]
		Any Combination of Credits from			
		Offered Concentrations	As per Catalog		15

SCHEDULE OF DELIVERY

YEAR/SE	COURSE	COURSE		PREREQUISIT	COREQUISIT	CR
М	CODE	#	COURSE TITLE	ES	ES	[L+P/S]
Year 1	ARAB	102	Arabic Language			3
FALL	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
	MATH	100	Mathematics I			4[4+0] 12
	001414	105	Dublic Creating			
SPRING		105				3[3+0]
	MATH	105	Mathematics II	MATH 100	Math	3[3+0]
	PHYS	100	Mechanics and Wave Optics	MATH 100	105	4[3+1]
	CSCI	200	Introduction to Computers and Programming			3[2+1]
						13
YEAR 2	GENE	210	UAE Studies			3[3+0]
FALL	PHYS	105	Electromagnetics and Modern Physics	PHYS 100		3[2+1]
	EEEN	200	Basic Electrical and Electronics	MATH 100		4[3+1]
	CSCI	205	Object-Oriented Programming using Java			4[3+1]
	CSCI	215	Data Structures and Algorithms	CSCI 200		4[3+1]
						18
SPRING	MATH	120	Probability and Statistics			3[3+0]
	MATH	210	Numerical Methods & Optimization	Math 105		3[3+0]
	EEEN	215	Digital Design	CSCI 200		4[3+1]
	CSCI	210	Database Management Systems			4[3+1]
	CSCI	300	Operating Systems			3[2+1]
						17
INTERNS						
HIP	INTE 200		Internship - I	45 credit hours		2
YEAR 3	MATH	110	Mathematics for Technology			3[3+0]
FALL	CSCI	305	Computer Architecture and Organization	EEEN 215		4[3+1]
	CSCI	310	Principles of Programming Languages	CSCI 205		3[3+0]
	CSCI	315	Theory of Computation			4[4+0]
	CSCI	330	Computer Networks			4[3+1]
CODING		200	Applying and Design of Algorithms			18
SPRING		32U 225	Analysis and Design of Algorithms	CSCI 215		4[3+1] 3[2±1]
		240	Computer Security and the Internet	CSCI 200		را ⊤∠اد 2[2
		540		C3C1 330		5[5+0]
		400				4[3+1]
	USCI	405	Parallel and Distributed Computing	CSCI 300		3[3+0]

		17			
			Internship II	80 credit hours and	2
					2
		4.40			3
YEAR 4	GENE	440	Ethics and Professional Responsibility		3[3+0]
FALL	CSCI		Major Elective 1		3
	CSCI		Major Elective 2		3
	CSCI		Major Elective 3		3
					12
SPRING					
	CENE	240	Innovation, Entrepreneurship and		3
	GENE	340	Sustainability		[3+0]
	CSCI		Major Elective 4		3
	CSCI		Major Elective 5		3
	PROE 400		Senior Design Project	90 credit hours	4[1+3]
					12
					125

19.2.7 Bachelor of Science in Electrical Engineering

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING MISSION STATEMENT

The mission of the Electrical Engineering program is to deliver a modern curriculum that is nationally and internationally benchmarked and that equips graduates with knowledge, skills and competence to analyze, design, formulate and solve electrical engineering problems with real-world constraints (including sustainability) by working in teams and communicating effectively. The students develop experimental skills in well-equipped Electrical and Electronics Engineering Labs. Our graduates are innovators, life-long learners, ethical leaders and entrepreneurs who can contribute to the growth of UAE, regional and global communities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Science Electrical Engineering at School of Engineering, Architecture and Interior Design aims at:

- (G1) Draw upon the fundamental and allied knowledge, multidisciplinary skills, and tools of Electrical engineering to solve complex problems and provide sustainable solutions that satisfy constraints imposed by a global society through innovation, analysis, formulation, modeling, designing, implementing and verification.
- (G2) Enhance their knowledge, skills and competencies through continuing education, training, engaging in professional activities, graduate studies and lifelong learning.
- (G3) Work independently and collaboratively in teams, demonstrate leadership, autonomy, and ethical, social and professional responsibility.

- (G4) Successfully pursue entrepreneurship, careers in the industry or higher education to contribute to the growth of local and global communities.

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Science Electrical Engineering program, the graduate will be able to:

PLO 1: identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

PLO 2: apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors. **PLO 3**: communicate effectively with a range of audiences.

PLO 4: recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

PLO 5: function effectively on a team whose members together provide leadership create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

PLO 6: develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies

SOLAR ENERGY CONCENTRATION

In addition to preceding Program Learning Outcomes, graduates opting for the Solar Energy Concentration will be able to:

PLO 8: use concepts and applications of solar energy to identify, formulate, and solve energy problems. **PLO 9**: design solar energy systems to produce solutions that meet specified needs with sustainable, environmental, and economic factors.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

BS ELECTRICAL – QFEMIRATES [L7]		1. Kı	nowle	edge			2. SI	kills						3. Competence						
										3.: Re	1. Aut ar espor	tonon nd nsibili	ny ity	3	.2. F Con	Role i text	'n	3 De	.3. S velopn	elf nent
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	C 4	C 5	C 6	C 7	8 C	6 C	C1 0	C1 1
	specialized factual and theoretical knowledge and an	an understanding of allied knowledge and theories in related	understanding of critical approach to the creation and	a comprehensive understanding of critical analysis, research evetoms and methode and eveluative problem colving	familiarity with sources of current and new research and	technical, creative and analytical skills appropriate to solving	evaluating, selecting and applying appropriate methods, brocodures or techniques in processes of investigation towards	evaluating and implementing appropriate research tools and otestocion accorded with the field of work or discipling	highly developed advanced communication and information technology skills to prosent explain and/or exiting semilary and	can take responsibility for developing innovative and advanced	can manage technical, supervisory or design processes in unprodictable unfomiliar and uppring contexts	can work creatively and/or effectively as an individual, in team <u>bederebin</u> menaging contexts occess technical or nectoosional	can express an internalised, personal view, and accept reconcibility to excitaty at large and to excite outburd parene and	can function with full autonomy in technical and supervisory	can take responsibility for the setting and achievement of group	can participate in peer relationships with qualified practitioners	can take responsibility for managing the professional	can self-evaluate and take responsibility for contributing to	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards

BS ELECTRICAL – QFEMIRATES [L7]	1. Knowledge					2. Skills				3. Competence										
										3. R	1. Au aı espoi	tonoi 1d nsibil	ny ïty	3	.2. I Cor	Role i itext	in	3 De	.3. S velopr	elf nent
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
PLO 1: identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	X			x																
PLO 2: apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.		x	x				x	x												
PLO 3: communicate effectively with a range of audiences.									x											
PLO 4: recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.																				x
PLO 5: function effectively on a team whose members together provide leadership create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.											x	x	x	x	x	x	x			
PLO 6: develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.						x	x													
PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies.					x					x	x			x				x	x	
SOLAR ENERGY CONCENTRATION PLO 8: use concepts and applications of renewable energy to identify, formulate, and solve energy problems.		x		x																
PLO 9: design renewable energy systems to produce solutions that meet specified needs with sustainable, environmental, and economic factors.		x	x				x	x												

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR COU

COURS	RSE			CORFOLIISIT	
E CODE	#	COURSE TITLE	PREREQUISITES	ES	CR [L+P/S]
					3
ARAB	102	Arabic Language			[3+0]
					3
ENGL	102	English for Academic Writing			[3+0]
COMM	105	Public Speaking			3 [3+0]
COIVIIVI	105	Fublic Speaking			<u>נטדטן</u> א
GENE	120	Islamic Culture			[3+0]
					3
GENE	210	UAE Studies			[3+0]
					3
GENE	340	Innovation, Entrepreneurship and Sustainability			[3+0]
	440	Ethics and Drafassianal Decrementility			3
		Ethics and Professional Responsibility			[3+0]
BASIC SC		AND MATH (ENGINEERING REQUIREMENTS) - 50 CR			
COURS	RSE			COREQUISIT	CR
E CODE	#	COURSE TITLE	PREREQUISITES	ES	[L+P/S]
PHYS	100	Mechanics and Wave Optics	MATH 100	MATH 105	4[3+1]
MATH	100	Mathematics I			4[4+0]
CHEM	100	General Chemistry			4[3+1]
MATH	105	Mathematics II	MATH 100		3[3+0]
PHYS	105	Electromagnetics and Modern Physics	PHYS 100		3[2+1]
MATH	120	Probability and Statistics			3[3+0]
MATH	200	Linear algebra	MATH 105		3[3+0]
MATH	210	Numerical Methods and Optimization	MATH 105		3[3+ 0]
MATH	220	Differential Equations	MATH 105		3[3+0]
MAJOR CO		ROGRAM REQUIREMENTS) - 70 CR			
COURS	PSE			COPEQUISIT	CP
E CODE	K3E #	COURSE TITLE	PREREQUISITES	FS	
	200	Basic Mechanics	MATH 105	20	3[2+1]
CSCI	200	Introduction to Computers and Programming			3[2+1]
EEEN	200	Basic Electrical and Electronics Engineering	MATH 100		4[3+1]
EEEN	205	Circuits and Systems	EEEN 200, MATH 22	0	4[3+1]
EEEN	300	Linear Integrated Circuits	EEEN 200		4[3+1]
EEEN	225	Electrical Machines	EEEN 200		4[3+1]
EEEN	215	Digital Design	CSCI 200		4[3+1]
EEEN	210	Signals and Systems	MATH 220		3[3+0]
EEEN	310	Control Systems	EEEN 210		4[3+1]
EEEN	315	Electronics Measurements and Instrumentation	EEEN 210, EEEN 21	5	4[3+1]
EEEN	220	Microprocessors, Microcontrollers & Interfacing	EEEN 215, CSCI 200		4[3+1]
EEEN	320	Electromagnetic Field Theory	PHYS 105, MATH 22	0	3[3+0]
EEEN	325	Analog and Digital Communications	EEEN 210, MATH 12	0	4[3+1]
EEEN	330	Power Systems	EEEN 305, EEEN 22	5	4[3+1]
EEEN	335	Analog and Digital VLSI Design	EEEN 215		3[2+1]
EEEN	340	Power Electronics	EEEN 300		4[3+1]
EEEN	400	Data Communication Networks	EEEN 325	2	3[3+0]
	400	Saniar Daaign Draigat I	EEEN 220, EEEN 310	J,	014 - 41
	400	Senior Design Project I		0	2[1+1]
ENGR	400		EEEN 330, ENGR 40	0	2[0+2]
	200	Internshin I	Hours		2
	200		FFEN 315 INTE 200		<u> </u>
INIE	300	Internship II	75 Credit Hours	3	2
	COU				
-----------	---------	--	-----------------------	-------------	---------
COURS	RSE			COREQUI	CR
E CODE	#	COURSE TITLE	PREREQUISITES	SITES	[L+P/S]
EEEN	430	Power Plant Instrumentation	EEEN 330		3[3+0]
EEEN	405	Flexible AC Transmission Systems	EEEN 330		3[3+0]
EEEN	415	Power Systems Analysis and Stability	EEEN 330		3[3+0]
EEEN	420	Industrial Automation and Control	EEEN 315		3[3+0]
EEEEN	425	Smart Grid Technologies	EEEN 340		3[3+0]
EEEN	410	Power System Protection and Switch Gear	EEEN 340		3[3+0]
EEEN	475	Digital Signal Processing	EEEN 210		3[3+0]
EEEN	480	Embedded Systems	EEEN 315		3[3+0]
	LECTIVE	ES (CONCENTRATION REQUIREMENTS: SOLAR ENER	GY) - 15 Credit Hours		
	COU				
COURS	RSE			COREQUI	CR
ECODE	#	COURSE TITLE	PREREQUISITES	SITES	[L+P/S]
EEEN	435	Solar Cell Engineering	EEEN 200		3[3+0]
EEEN	440	Design and simulation of Solar Cells	EEEN 200		3[2+1]
EEEN	445	Wind Power Technology	EEEN 200		3[3+0]
EEEN	450	Thin Film Photovoltaics	EEEN 200		3[3+0]
EEEN	455	Energy Management	EEEN 330		3[3+0]
EEEN	460	Energy Storage	EEEN 200, CHEM 100		3[3+0]
EEEN	465	Building Integrated Photovoltaics	EEEN 200		3[3+0]
EEEN	470	Organic Solar Cells	EEEN 200, CHEM 100		3[3+0]
MAJOR E	LECTIVE	ES (GENERAL BS ELECRICAL ENGINEERING WITH NO	CONCENTRATION: CHOOS	SE A MIX OF	
15 CREDI	IS FROM	M TWO POOLS) - 15 CR			
	COU				
COURS	KSE			COREQUI	
ECODE	#	COURSE IIILE	PREREQUISITES	511E5	[L+P/5]
		Any combination of 15 Credit Hours from list of 16	As par Catalog		15
					15
		CHOUSE 3 CREDITS FROM ANT FROGRAM SUBJECT	TO FOLFILLING THEIR		
FILLINEQU					CR
COURS	RSF			CORFOLIISI	[] +P/
E CODF	#	COURSE TITLE	PREREQUISITES	TES	S1
		Open Elective I	As per Catalog		3
ECON	370	Fundamentals of Engineering Economics			3[3+0]
ACCT	110	Financial Accounting I		ENGL 101	3[3+0]

SCHEDUL	E OF DEL	IVERY				
YEAR/SEM	COURSE CODE	COURSE #	COURSE TITLE	PREREQUISIT ES	COREQUISITE S	CR [L+P/S]
YEAR 1	MATH	100	Mathematics I			4[4+0]
FALL	CHEM	100	General Chemistry			4[3+1]
	GENE	102	English for Academic viriting			3[3+0]
	MATH	120	Probability and Statistics			3[3+0]
			· · · · ·			17
SPRING	MATH	105	Mathematics II	MATH 100		3[3+0]
	CSCI	200	Introduction to Computers and Programming			3[2+1]
	COMM	105	Public Speaking			3[3+0]
	ARAB	102	Arabic Language			3[3+0]
	PHYS	100	Mechanics and Wave Optics	MATH 100	MATH 105	4[3+1]
		220	Differential Equations			16
	MATH	220		MATH 105		3[3+0]
FALL	EEEN	200	Basic Electrical and Electronics Engineering	MATH 100		4[3+1]
	GENE	210	UAE Studies			3[3+0]
	PHYS	105	Electromagnetics and Modern Physics	PHYS 100		3[2+1]
	CIVL	200	Basic Mechanics	MATH 105		3[2+1]
SPRING	EEEN	210	Signals and Systems			16
SERING		210	Digital Design	MATH 220		3[3+0] 4[2+4]
		215	Digital Design	CSCI 200		4[3+1]
	EEEN	225	Electrical Machines	EEEN 200		4[3+1]
	EEEN	205	Circuits & System	EEEN 200,		4[3+1]
				MATH 220		
	MATH	200	Linear algebra	MATH 105		3[3+0]
SUMMER	INTE	200	Internship I	EEEN 200, 50 Credit Hours		<u>18</u> 2
				oroait riouro		2
YEAR 3	MATH	210	Numerical Methods and Optimization	MATH 105		3[3+0]
FALL	EEEN	310	Control Systems	FFFN 210		4[3+1]
	FFFN	315	Electronics Measurements and	EEEN 210		4[3+1]
		010	Instrumentation	LLLIN 210,		
	FEEN	300	Linear Integrated Circuits			4[2+1]
		320	Electromagnetic Field Theory	EEEIN 200		3[3±0] +[0 · 1]
		520	Electromagnetic field fileory	PHYS 105,		3[3+0]
				MATH 220		40
SPRING	EEEN	325	Analog and Digital Communications	EEEN 210,		4[3+1]
				MATH 120		
	EEEN	330	Power Systems	EEEN 305,		4[3+1]
				EEEN 225		
	EEEN	340	Power Electronics	EEEN 300		4[3+1]
	EEEN	220	Microprocessors, Microcontrollers &	EFEN 215		4[3+1]
			Interfacing	CSCI 200		
						16
SUMMER	INTE	300	Internship II	EEEN 315, INTE 200, 75 Crodit Hours		2
						2

YEAR 4					
FALL	EEEN	335	Analog and Digital VLSI Design	EEEN 215	3[2+1]
	GENE	340	Innovation, entrepreneurship and sustainability		3[3+0]
	EEEN	-	Major Elective 1		3[3+0]
	EEEN	-	Major Elective 2		3[3+0]
	EEEN	400	Data Communication Networks	EEEN 325	3[3+0]
	ENGR	400	Senior Design Project I	EEEN 220,	2[1+1]
				EEEN 310, 75	
				Credit Hours	
					17
SPRING	GENE	440	Ethics and Professional Practice Open Elective 1		3 [3+0] 3[3+0]
	EEEN	-	Major Elective 3		3[3+0]
	EEEN	-	Major Elective 4		3[3+0]
	EEEN	-	Major Elective 5		3[3+0]
	ENGR	405	Senior Design Project II	EEEN 330,	2[0+2]
				ENGR 400, 90	
				Credit Hours	
					17
					130

19.2.8 Bachelor of Science in Information Technology

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY MISSION STATEMENT

The mission of the Information Technology program is to deliver a modern curriculum that is nationally and internationally benchmarked and that equips graduates with knowledge, skills and competence to select, develop, apply, integrate, and administer computing technologies to achieve customer goals by working in teams and communicating effectively. Students will be afforded the opportunity for industry and community engagement and to obtain professional certifications. Our graduates are innovators, life-long learners, ethical leaders and entrepreneurs who can contribute to the growth of UAE, regional and global communities.

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Science Information Technology at School of Engineering, Architecture and Interior Design aims at:

- (G1) Draw upon the fundamental and allied knowledge, multidisciplinary skills, and tools of Information Technology to solve complex problems and provide sustainable solutions that satisfy constraints imposed by a global society through innovation, analysis, formulation, modeling, designing, implementing and verification.
- (G2) Enhance their knowledge, skills and competencies through continuing education, training, engaging in professional activities, graduate studies and lifelong learning.
- (G3) Work independently and collaboratively in teams, demonstrate leadership, autonomy, and ethical, social and professional responsibility.
- (G4) Successfully pursue entrepreneurship, careers in the industry or higher education to contribute to the growth of local and global communities

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Science Information Technology program, the graduate will be able to:

PLO 1: Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

PLO 2: Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

PLO 3: Communicate effectively in a variety of professional contexts.

PLO 4: Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

PLO 5: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

PLO 6: Develop systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals.

PLO 7: Acquire and apply new knowledge as needed, using appropriate learning strategies.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

BS ITEC – QFEMIRATES		1. Kr	nowle	edge			2. SI	kills						3. Co	ompe	etenc	е			
11										3.	1. Au ar	tonor nd	ny	3	.2. F	Role i	n	3	8.3. S	elf
										R	espor	nsibil	ity		Con	text		De	velopr	nent
	A 1	A 2	с У	A 4	A 5	B 1	B 2	B 3	В 4	C 1	C 2	C 3	C 4	C 5	0 C	С 7	8 O	C 9	C1 0	C1 1
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline	an understanding of allied knowledge and theories in related fields of work or discinitines and in the case of professional	understanding of critical approach to the creation and commilation of a systematic and coherent body of knowledge and	a comprehensive understanding of critical analysis, research systems and methods and evaluative problem-solving	familiarity with sources of current and new research and knowledge with integration of concents from outside fields	technical, creative and analytical skills appropriate to solving specialised problems using evidentiary and procedural based	evaluating, selecting and applying appropriate methods, procedures or techniques in processes of investigation towards	evaluating and implementing appropriate research tools and strateries associated with the field of work or discinitine	highly developed advanced communication and information technology skills to present explain and/or criticule complex and	can take responsibility for developing innovative and advanced	can manage technical, supervisory or design processes in unpredictable unfamiliar and varving contaxts	can work creatively and/or effectively as an individual, in team	can express an internalised, personal view, and accept resensibility to society at large and to socio-cultural norms and	can function with full autonomy in technical and supervisory	can take responsibility for the setting and achievement of group or individual outcomes and for the management and supervision	can participate in peer relationships with qualified practitioners	can take responsibility for managing the professional development and direct mentoring of individuals and groups	can self-evaluate and take responsibility for contributing to professional incretice and undertake recular professional	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
PLO 1: analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions		X				X														
PLO 2: design, implement, and evaluate a computing- based solution to meet a			X	X			X	x												

BS ITEC – QFEMIRATES [L7]		1. K	nowl	edge			2. S	kills						3. C	ompe	etenc	e			
										3. R	1. Au ai espoi	tonor nd nsibili	ny ity	3	3.2. I Cor	Role i ntext	in	3 De	3.3. S velopr	elf nent
	A 1	A 2	A 3	A 4	A 5	В 1	B 2	B 3	В 4	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
given set of computing requirements in the context of the program's discipline.																				
PLO 3: communicate effectively in a variety of professional contexts.									x											
PLO 4: recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.																				x
PLO 5: function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.											x	x	x	x	x	x	x			
PLO 6: Use systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals.	x					x														
PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies.					x					x	x			x				x	x	

PROGRAM STRUCTURE

GENERAL EDUC	ATION (UNIV	ERSITY REQUIREMENTS) - 21 CR			
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
ARAB	102	Arabic Language			3[3+0]
ENGL	102	English for Academic Writing			3[3+0]
COMM	105	Public Speaking			3[3+0]
GENE	120	Islamic Culture			3[3+0]
GENE	210	UAE Studies			3[3+0]
GENE	340	Innovation, Entrepreneurship and Sustainability			3[3+0]
GENE	440	Ethics and Professional Responsibility			3[3+0]
Essentials of IT	- 26 CR				
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
NSCI	100	Natural Sciences			4 [3+1]
MATH	110	Mathematics for Technology			3 [3+0]
ITEC	105	Introduction to Programming			4[3+1]
CSCI	205	Object Oriented Programming with Java			4[3+1]
CSCI	210	Database Management Systems			4[3+1]
MATH	130	Computational Statistics			3[3+0]
ITEC	100	IT Fundamental PC Software			4[3+1]

MAJOR CORE (P	ROGRAM RE	QUIREMENTS) – 61 CR	DDEDEOLUCITEO		00
		COURSE IIILE	PREREQUISITES	COREQUISITES	
ITEC	200	Network Basics	TIEC 100		4[3+1]
TIEC	205	Systems Analysis and Design	TIEC 105		4[4+0]
CSCI	215	Data Structures and Algorithm	ITEC 105		4[3+1]
CSCI	300	Operating Systems			3[2+1]
ITEC	220	Web Technologies and Applications	ITEC 105		3[2+1]
ITEC	225	Cyber and Information Security	ITEC 200		3[3+0]
ITEC	300	Computer Communications and Networking	ITEC 200		3[3+0]
CSCI	335	Software Engineering	CSCI 205		3[2+1]
ITEC	310	Internet of Things	ITEC 200		3[2+1]
		Onen Course Technologiae with DUD and MuCal	ITEC 220 and		
ITEC	315		CSCI 210		3[2+1]
ITEC	320	Python Programming	CSCI 205		4[3+1]
ITEC	400	Data Warehousing and Mining	CSCI 210		3[2+1]
CSCI	400	Artificial Intelligence			4[3+1]
ITEC	330	IT Project Management	CSCI 335		3[3+0]
CSCI	415	AI for Data Analytics			3[3+0]
ITEC	410	Human Computer Interface	ITEC 205		3[2+1]
PROE	400	Senior Design Project	INTE 300	90 Credit Hour	4[1+3]
INTE	200	Internship – I		70 Credit Hour	2
INTE	300	Internship -II	INTE 200	90 Credit Hour	2
MAJOR ELECTIV	/ES - 15 CR	·			
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
ITEC	415	Cloud Computing	ITEC 220		3[3+0]
CSCI	430	Machine Learning	CSCI 215		3[3+0]
ITEC	430	Data Science	ITEC 400		3[3+0]
ITEC	435	Blockchain Technologies	ITEC 225		3[3+0]
ITEC	440	Mobile Application Development	CSCI 205		3[2+1]
CSCI	465	Information Security Management			3[3+0]
ITEC	420	Digital Marketing	ITEC 220		3[2+1]

PROPOSED SCHEDULE OF DELIVERY

	COURSE			PREREQUISITE	COREQUISI	
YEAR/SEM	CODE	COURSE #	COURSE TITLE	S	TES	CR
YEAR 1	GENE	120	Islamic Culture			3[3+0]
FALL	ENGL	102	English for Academic Writing			3[3+0]
	NSCI	100	Natural Sciences			4[3+1]
	MATH	110	Mathematics for Technology			3[3+0]
	ITEC	100	IT Fundamental PC Software			4[3+1]
						17
SPRING	COMM	105	Public Speaking			3[3+0]
	ARAB	102	Arabic Language			3[3+0]
	ITEC	105	Introduction to Programming			4[3+1]
	ITEC	200	Network Basics	ITEC 100		4[3+1]
						14
YEAR 2	MATH	130	Computational Statistics			3[3+0]
FALL	CSCI	205	Object Oriented Programming with Java			4[3+1]
	GENE	210	UAE Studies			3[3+0]
	CSCI	215	Data Structures and Algorithm	ITEC 105		4[3+1]
	ITEC	205	Systems Analysis and Design	ITEC 105		4[4+0]
						18
SPRING	CSCI	210	Database Management Systems			4[3+1]
	CSCI	300	Operating Systems			3[2+1]
	CSCI	335	Software Engineering	CSCI 205		4[3+1]
	ITEC	320	Python Programming	CSCI 205		3[2+1]
						14
INTERNSHIP	INTE	200	Internship –I		45 HRS	2
YEAR 3	ITEC	300	Computer Communications and Networking	ITEC 200		3[3+0]
FALL	ITEC	225	Cyber and Information Security	ITEC 200		3[3+0]
	ITEC	310	Internet of Things	ITEC 200		3[2+1]
	ITEC	220	Web Technologies and Applications	CSCI 210		3[2+1]
	ITEC	400	Data Warehousing and Mining	CSCI 210		3[2+1]
						15
SPRING			Major Elective - 1			3
	ITEC	410	Human Computer Interface	ITEC 205		3[2+1]
	CSCI	400	Artificial Intelligence			4[3+1]
	ITEC	330	IT Project Management	CSCI335		3[3+0]
	ITEC	315	Open Source Technologies with PHP and	ITEC 220 and		3[2+1]
	0	0.0	MySql	CSCI 210		<u>دا</u>]
					70.115.0	16
INTERNSHIP	INIE	300	Internship -II	INTE 200	70 HKS	2
		440	Ethics and Drefessional Description			2
YEAR 4	GENE	440	Ethics and Professional Responsibility			3[3+0]
FALL	CSCI	415	Al for Data Analytics			3[3+0]
			Major Elective 2			3
			Major Elective 3			3
			Learning Fature 1			12
SDDING		240	Innovation, Entrepreneursnip and			10.01
SPRING	GENE	340	Sustainability			3[3+0]
			Najor Elective 4			3
	DDOF	400	IVIAJOF Elective 5		00 have	<u>ح</u>
	PRUE	400	Senior Design Project	INTE 300	90 nours	4[1+3]
						13
						123

19.2.9 Bachelor of Science in Mechanical Engineering

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Science Mechanical Engineering at School of Engineering, Architecture and Interior Design aims at:

- (G1) Draw upon the fundamental and allied knowledge, multidisciplinary skills, and tools of Mechanical engineering to solve complex problems and provide sustainable solutions that satisfy constraints imposed by a global society through innovation, analysis, formulation, modeling, designing, implementing and verification.
- (G2) Enhance their knowledge, skills and competencies through continuing education, training, engaging in professional activities, graduate studies and lifelong learning.
- (G3) Work independently and collaboratively in teams, demonstrate leadership, autonomy, and ethical, social and professional responsibility.
- (G4) Successfully pursue entrepreneurship, careers in the industry or higher education to contribute to the growth of local and global communities

PROGRAM LEARNING OUTCOMES

On successful completion of the Bachelor of Science Mechanical Engineering program, the graduate will be able to:

PLO 1: identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

PLO 2: apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

PLO 3: communicate effectively with a range of audiences.

PLO 4: recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

PLO 5: function effectively on a team whose members together provide leadership create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

PLO 6: develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies

RENEWABLE ENERGY CONCENTRATION

In addition to preceding Program Learning Outcomes, graduates opting for the Renewable Energy Concentration will be able to:

PLO 8: use concepts and applications of renewable energy to identify, formulate, and solve energy problems. **PLO 9**: design renewable energy systems to produce solutions that meet specified needs with sustainable, environmental, and economic factors.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

BS ELECTRICAL – OFEMIRATES (I 7)		1. Kı	nowl	edge			2. S	kills						3. C	ompe	etenc	e			
										3. R	1. Au ai espo	tonoi nd nsihil	my iitv	3	2.2. I Cor	Role i ntext	in	3 De	.3. S velopri	elf nent
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
	pecialized factual and theoretical knowledge and an	n understanding of allied knowledge and theories in related	nderstanding of critical approach to the creation and	comprehensive understanding of critical analysis, research	amiliarity with sources of current and new research and	echnical, creative and analytical skills appropriate to solving	valuating, selecting and applying appropriate methods,	valuating and implementing appropriate research tools and	ighly developed advanced communication and information	an take responsibility for developing innovative and advanced	an manage technical, supervisory or design processes in	an work creatively and/or effectively as an individual, in team	an express an internalised, personal view, and accept	an function with full autonomy in technical and supervisory	an take responsibility for the setting and achievement of group	an participate in peer relationships with qualified practitioners	an take responsibility for managing the professional	an self-evaluate and take responsibility for contributing to	an manage learning tasks independently and professionally, in omplex and sometimes unfamiliar learning contexts	an contribute to and observe ethical standards
PLO 1: identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	X			X		te	Ū.		<u>q</u>	. 8 6		<u> </u>					07		00	
PLO 2: apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.		x	x				x	x												
PLO 3: communicate effectively with a range of audiences.									x											
PLO 4: recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.																				X
PLO 5: function effectively on a team whose members together provide leadership create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.											x	x	x	x	x	x	x			

BS ELECTRICAL – QFEMIRATES [L7]		1. Kı	nowl	edge			2. S	kills						3. C	ompe	etenc	e			
										3. Ri	1. Au ar espoi	tonor 1d nsibil	ny ity	3	.2. F Con	Role i text	in	3 Der	.3. S velopri	elf nent
	A 1	A 2	A 3	A 4	A 5	В 1	B 2	B 3	В 4	С 1	C 2	C 3	C 4	C 5	0 C	C 7	С %	с о	C1 0	C1 1
PLO 6: develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.						x	x													
PLO 7: acquire and apply new knowledge as needed, using appropriate learning strategies.					x					x	x			x				x	x	
SOLAR ENERGY CONCENTRATION PLO 8: use concepts and applications of renewable energy to identify, formulate, and solve energy problems.		x		x																
PLO 9: design renewable energy systems to produce solutions that meet specified needs with sustainable, environmental, and economic factors.		x	x				x	x												

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURS	RSE			CORFOLIISIT	
E CODE	#	COURSE TITLE	PREREQUISITES	ES	CR [L+P/S]
					3
ARAB	102	Arabic Language			[3+0]
					3
ENGL	102	English for Academic Writing			[3+0]
COMM	105	Public Speaking			3 [3+0]
COMM	105				3
GENE	120	Islamic Culture			[3+0]
					3
GENE	210	UAE Studies			[3+0]
					3
GENE	340	Innovation, Entrepreneurship and Sustainability			[3+0]
CENE	440	Ethios and Brafassianal Baapanaihility			3
		ND MATH (ENGINEEPING PEOLIDEMENTS) - 30 CP			[3+0]
BASIC SC		(ND MATTI (ENGINEERING REGUINEMENTS) - 50 CR			
COURS	RSE			COREQUISI	T CR
E CODE	#	COURSE TITLE	PREREQUISITES	ES	[L+P/S]
PHYS	100	Mechanics and Wave Optics	MATH 100	MATH 105	4[3+1]
MATH	100	Mathematics I			4[4+0]
CHEM	100	General Chemistry			4[3+1]
MATH	105	Mathematics II	MATH 100		3[3+0]
PHYS	105	Electromagnetics and Modern Physics	PHYS 100		3[2+1]

MATH	120	Probability and Statistics			3[3+0]
MATH	200	Linear algebra	MATH 105		3[3+0]
MATH	210	Numerical Methods and Optimization	MATH 105		3[3+ 0]
MATH	220	Differential Equations	MATH 105		3[3+0]
MAJOR CO	ORE (PF	ROGRAM REQUIREMENTS) - 70 CR			
	ÚO.				
COURS	RSF			CORFOUISIT	CR
ECODE	#		PREREOUIISITES	FS	[I +P/S]
	200	Engineering Mechanics		LU	2[2+1]
	200	Information to Computers and Dragramming	MATH 105		3[Z+1]
	200	Desis Electrical and Electronical English and	MATH 400		3[2+1]
EEEN	200				4[3+1]
EEEN	205	Circuits and Systems	EEEN 200, MATH 220		4[3+1]
EEEN	300	Linear Integrated Circuits	EEEN 200		4[3+1]
EEEN	225	Electrical Machines	EEEN 200		4[3+1]
EEEN	215	Digital Design	CSCI 200		4[3+1]
EEEN	210	Signals and Systems	MATH 220		3[3+0]
EEEN	310	Control Systems	EEEN 210		4[3+1]
EEEN	315	Electronics Measurements and Instrumentation	EEEN 210, EEEN 215		4[3+1]
EEEN	220	Microprocessors, Microcontrollers & Interfacing	EEEN 215, CSCI 200		4[3+1]
EEEN	320	Electromagnetic Field Theory	PHYS 105, MATH 220		3[3+0]
FFFN	325	Analog and Digital Communications	EEEN 210 MATH 120		4[3+1]
FFFN	330	Power Systems	EEEN 305 EEEN 225		4[3+1]
	335	Analog and Digital VI SI Design	EEEN 215		3[2+1]
	240	Rilaiog and Digital VESI Design			<u> </u>
	400	Power Electronics			2[2+0]
	400	Data Communication Networks			ა[ა+0]
ENIOD	100		EEEN 220, EEEN 310,		014 - 41
ENGR	400	Senior Design Project I	75 Credit Hours		2[1+1]
ENGR	405	Senior Design Project II	EEEN 330, ENGR 400		2[0+2]
			EEEN 200, 50 Credit		
INTE	200	Internship I	Hours		2
			EEEN 315. INTE 200.		
			,		
INTE	300	Internship II	75 Credit Hours		2
INTE MAJOR EI	300 L ECTIVE	Internship II E S	75 Credit Hours		2
INTE Major El	300 LECTIVE COU	Internship II E S	75 Credit Hours		2
INTE MAJOR EL COURS	300 LECTIVE COU RSE	Internship II E S	75 Credit Hours	COREQUI	2 CR
INTE MAJOR EI COURS E CODE	300 LECTIVE COU RSE #	Internship II ES COURSE TITLE	75 Credit Hours PREREQUISITES	COREQUI SITES	2 CR [L+P/S]
INTE MAJOR EL COURS E CODE EEEN	300 LECTIVE COU RSE # 430	Internship II ES COURSE TITLE Power Plant Instrumentation	75 Credit Hours 75 Credit Hours PREREQUISITES EEEN 330	COREQUI SITES	2 CR [L+P/S] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN	300 LECTIVE COU RSE # 430 405	Internship II ES COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330	COREQUI SITES	2 CR [L+P/S] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN	300 LECTIVE COU RSE # 430 405 415	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330	COREQUI SITES	2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN	300 LECTIVE COU RSE # 430 405 415 420	Internship II ES COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 330 EEEN 330	COREQUI	2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN FEEEN	300 LECTIVE COU RSE # 430 405 415 420 425	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 FEEN 340		2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEEN FFEN	300 LECTIVE COU RSE # 430 405 415 420 425 410	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 FEEN 340		2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN EEEN	300 LECTIVE COU RSE # 430 405 415 420 425 410 425	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Divital Signal Processing	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 340 EEEN 340 EEEN 340		2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN	300 LECTIVE COU RSE # 430 405 415 420 425 410 475 480	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 340 EEEN 340 EEEN 210 EEEN 215		2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN EEEN E	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems CONCENTRATION RECUIREMENTS: SOLAD EMI	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 210 EEEN 210 EEEN 315 EEEN 315	COREQUI	2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN EEEN MAJOR EL	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems ES (CONCENTRATION REQUIREMENTS: SOLAR END	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 210 EEEN 315 EEEN 315 EEEN 315 EEEN 315	COREQUI	2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN EEEN MAJOR EL	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU BSE	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems S (CONCENTRATION REQUIREMENTS: SOLAR ENI	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 340 EEEN 210 EEEN 315 EEEN 315 EEEN 315 EEEN 315 EEEN 315 EEEN 315 EEEN 315 EEEN 315		2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN MAJOR EL COURS	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE #	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems S (CONCENTRATION REQUIREMENTS: SOLAR ENI COURSE TITLE	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 340 EEEN 210 EEEN 315 ERGY) - 15 Credit Hours		2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN MAJOR EL COURS E CODE	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # #	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems COURSE TITLE Salar Coll Engineering	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 340 EEEN 340 EEEN 210 EEEN 315 ERGY) - 15 Credit Hours PREREQUISITES EEEN 200	COREQUI	2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 2[2+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN MAJOR EL COURS E CODE EEEN	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # 435	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems S (CONCENTRATION REQUIREMENTS: SOLAR END COURSE TITLE Solar Cell Engineering	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 340 EEEN 210 EEEN 315 ERGY) - 15 Credit Hours PREREQUISITES EEEN 200 EEEN 200	COREQUI	2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 2[3+0] 3[3+0]
INTE MAJOR EL COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN MAJOR EL COURS E CODE EEEN EEEN	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # 435 440	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems S (CONCENTRATION REQUIREMENTS: SOLAR END COURSE TITLE Solar Cell Engineering Design and simulation of Solar Cells With the power set of the	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 340 EEEN 210 EEEN 315 ERGY) - 15 Credit Hours PREREQUISITES EEEN 200 EEEN 200 EEEN 200	COREQUI SITES COREQUI SITES	2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EI COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN MAJOR EI COURS E CODE EEEN EEEN EEEN	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # 435 440 445	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems S (CONCENTRATION REQUIREMENTS: SOLAR ENI COURSE TITLE Solar Cell Engineering Design and simulation of Solar Cells Wind Power Technology	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 340 EEEN 210 EEEN 315 ERGY) - 15 Credit Hours PREREQUISITES EEEN 200 EEEN 200 EEEN 200 EEEN 200	COREQUI SITES COREQUI SITES	2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EI COURS E CODE EEEN EEEN EEEN EEEN EEEN EEEN MAJOR EI COURS E CODE EEEN EEEN EEEN EEEN EEEN	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # 435 440 445 450	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems S (CONCENTRATION REQUIREMENTS: SOLAR END COURSE TITLE Solar Cell Engineering Design and simulation of Solar Cells Wind Power Technology Thin Film Photovoltaics	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 340 EEEN 340 EEEN 340 EEEN 340 EEEN 315 ERGY) - 15 Credit Hours PREREQUISITES EEEN 200 EEEN 200 EEEN 200 EEEN 200	COREQUI SITES COREQUI SITES	2 CR [L+P/S] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0] 3[3+0]
INTE MAJOR EI COURS ECODE EEEN EEEN EEEN EEEN EEEN EEEN MAJOR EI COURS ECODE EEEN EEEN EEEN EEEN EEEN EEEN	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # 435 440 445 450 455	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems S (CONCENTRATION REQUIREMENTS: SOLAR ENI COURSE TITLE Solar Cell Engineering Design and simulation of Solar Cells Wind Power Technology Thin Film Photovoltaics Energy Management	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 340 EEEN 340 EEEN 340 EEEN 340 EEEN 315 ERGY) - 15 Credit Hours PREREQUISITES EEEN 200 EEEN 200 EEEN 200 EEEN 200 EEEN 330	COREQUI SITES COREQUI SITES	2 CR [L+P/S] 3[3+0]
INTE MAJOR EI COURS ECODE EEEN EEEN EEEN EEEN EEEN EEEN COURS ECODE EEEN EEEN EEEN EEEN EEEN EEEN EEEN	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # 435 440 445 450 455 460	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems COURSE TITLE Solar Cell Engineering Design and simulation of Solar Cells Wind Power Technology Thin Film Photovoltaics Energy Management Energy Storage	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 340 EEEN 210 EEEN 315 ERGY) - 15 Credit Hours PREREQUISITES EEEN 200 EEEN 200 EEEN 200 EEEN 200 EEEN 330 EEEN 330 EEEN 330 EEEN 330 EEEN 300 EEEN 200 EEEN 200 EEEN 200 EEEN 200 EEEN 200 EEEN 200 EEEN 200 EEEN 200 EEEN 300 EEEN	COREQUI SITES COREQUI SITES	2 CR [L+P/S] 3[3+0]
INTE MAJOR EI EEEN EEEN EEEN EEEN EEEN EEEN EEEN E	300 LECTIVE COU RSE # 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # 435 440 445 450 455 460 465	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems COURSE TITLE Solar Cell Engineering Design and simulation of Solar Cells Wind Power Technology Thin Film Photovoltaics Energy Management Energy Storage Building Integrated Photovoltaics	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 340 EEEN 340 EEEN 340 EEEN 340 EEEN 315 ERGY) - 15 Credit Hours PREREQUISITES EEEN 200 EEEN 200 EEEN 200 EEEN 330 EEEN 330 EEEN 330 EEEN 330	COREQUI SITES COREQUI SITES	2 CR [L+P/S] 3[3+0]
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INTE MAJOR EL COURS ECODE EEEN EEEN EEEN EEEN EEEN EEEN EEEN E	300 LECTIVE COU RSE 430 405 415 420 425 410 475 480 LECTIVE COU RSE # 435 440 445 450 455 460 465 470 LECTIVE	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems COURSE TITLE Solar Cell Engineering Design and simulation of Solar Cells Wind Power Technology Thin Film Photovoltaics Energy Management Energy Storage Building Integrated Photovoltaics Organic Solar Cells S (GENERAL BS ELECRICAL ENGINEERING WITH I	75 Credit Hours PREREQUISITES EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 340 EEEN 210 EEEN 315 ERGY) - 15 Credit Hours PREREQUISITES EEEN 200 EEEN 200 EEEN 200 EEEN 200 EEEN 330 EEEN 330 EEEN 200 EEEN 200 EEN 20	COREQUI SITES COREQUI SITES	2 CR [L+P/S] 3[3+0]
INTE MAJOR EL COURS ECODE EEEN EEEN EEEN EEEN EEEN EEEN EEEN E	300 LECTIVE COU RSE 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # 435 440 445 450 455 460 465 470 LECTIVE	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems COURSE TITLE Solar Cell Engineering Design and simulation of Solar Cells Wind Power Technology Thin Film Photovoltaics Energy Management Energy Storage Building Integrated Photovoltaics Organic Solar Cells S (GENERAL BS ELECRICAL ENGINEERING WITH I M TWO POOLS) - 15 CR	75 Credit Hours 75 Credit Hours EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 315 EEEN 340 EEEN 315 EEEN 315 EEEN 315 EEEN 315 EEEN 200 EEEN 200 EEEN 200 EEEN 200 EEEN 330 EEEN 200 EEEN 200 <	COREQUI SITES COREQUI SITES	2 CR [L+P/S] 3[3+0]
INTE MAJOR EL COURS ECODE EEEN EEEN EEEN EEEN EEEN EEEN EEEN E	300 LECTIVE COU RSE 430 405 415 420 425 410 425 410 475 480 LECTIVE COU RSE # 435 440 445 450 455 460 465 470 LECTIVE IS FROM COU	Internship II S COURSE TITLE Power Plant Instrumentation Flexible AC Transmission Systems Power Systems Analysis and Stability Industrial Automation and Control Smart Grid Technologies Power System Protection and Switch Gear Digital Signal Processing Embedded Systems COURSE TITLE Solar Cell Engineering Design and simulation of Solar Cells Wind Power Technology Thin Film Photovoltaics Energy Management Energy Storage Building Integrated Photovoltaics Organic Solar Cells S (GENERAL BS ELECRICAL ENGINEERING WITH I M TWO POOLS) - 15 CR	75 Credit Hours 75 Credit Hours EEEN 330 EEEN 330 EEEN 330 EEEN 315 EEEN 340 EEEN 315 EEEN 340 EEEN 315 EEEN 315 EEEN 315 EEEN 315 EEEN 200 EEEN 200 <	COREQUI SITES COREQUI SITES	2 CR [L+P/S] 3[3+0]
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		Any Combination of 15 Credit Hours from list of 16 courses including the 8 Solar Concentration courses	As per Catalog		15
OPEN ELE	ECTIVE (CHOOSE 3 CREDITS FROM ANY PROGRAM SUBJECT	TO FULFILLING THEIR		
PREREQU	ISITES	IF ANY) - 3 CR			
	COU				CR
COURS	RSE			COREQUISI	[L+P/
E CODE	#	COURSE TITLE	PREREQUISITES	TES	S]
		Open Elective I	As per Catalog		3
ECON	370	Fundamentals of Engineering Economics			3[3+0]
ACCT	110	Financial Accounting I		ENGL 101	3[3+0]

SCHEDULE OF DELIVERY

YEAR/SEM	COURSE CODE	COURSE #	COURSE TITLE	PREREQUISIT ES	COREQUISITE S	CR [L+P/S]
YEAR 1	MATH	100	Mathematics I			4[4+0]
FALL	CHEM	100	General Chemistry			4[3+1]
		102	English for Academic Writing			3[3+0]
	MATH	120	Probability and Statistics			3[3+0] 3[3+0]
		120				17
SPRING	MATH	105	Mathematics II	MATH 100		3[3+0]
	CSCI	200	Introduction to Computers and Programming			3[2+1]
	COMM	105	Public Speaking			3[3+0]
	ARAB	102	Arabic Language			3[3+0]
	PHYS	100	Mechanics and Wave Optics	MATH 100	MATH 105	4[3+1]
						16
YEAR 2	MATH	220	Differential Equations	MATH 105		3[3+0]
FALL	EEEN	200	Basic Electrical and Electronics Engineering	MATH 100		4[3+1]
	GENE	210	UAE Studies			3[3+0]
	PHYS	105	Electromagnetics and Modern Physics	PHYS 100		3[2+1]
	CIVL	200	Basic Mechanics	MATH 105		3[2+1]
						16
SPRING	EEEN	210	Signals and Systems	MATH 220		3[3+0]
	EEEN	215	Digital Design	CSCI 200		4[3+1]
	EEEN	225	Electrical Machines	EEEN 200		4[3+1]
	EEEN	205	Circuits & System	EEEN 200.		4[3+1]
				MATH 220		
	MATH	200	Linear algebra	MATH 105		3[3+0]
						18
SUMMER	INTE	200	Internship I	EEEN 200, 50 Credit Hours		2
				Oreal Hours		2
YEAR 3	MATH	210	Numerical Methods and Optimization	MATH 105		3[3+0]
FALL	EEEN	310	Control Systems	FFFN 210		4[3+1]
	EEEN	315	Electronics Measurements and	EEEN 210		4[3+1]
			Instrumentation	EEEN 215,		
	FFFN	300	Linear Integrated Circuits			4[3+1]
	FEEN	320	Electromagnetic Field Theory			3[3+0]
		020		MATH 220		0[0+0]
				MATTI 220		18
SPRING	EEEN	325	Analog and Digital Communications	FFFN 210		4[3+1]
			5 5	MATH 120		
	EEEN	330	Power Systems	FEEN 205		4[3+1]
				ELEN 303,		·[~ ']
	EEEN	340	Power Electronics			4[3+1]
		220	Microprocessors Microcontrollors ?			יניי] ⊿[3+1]
		220	Interfacing	EEEN 215,		
				CSCI 200		40
						16

SUMMER	INTE	300	Internship II	EEEN 315, INTE 200, 75 Crodit Hours	2
					2
YEAR 4					
FALL	EEEN	335	Analog and Digital VLSI Design	EEEN 215	3[2+1]
	GENE	340	Innovation, entrepreneurship and sustainability		3[3+0]
	EEEN	-	Major Elective 1		3[3+0]
	EEEN	-	Major Elective 2		3[3+0]
	EEEN	400	Data Communication Networks	FFFN 325	3[3+0]
	ENGR	400	Senior Design Project I	EEEN 220.	2[1+1]
				FFFN 310, 75	
				Credit Hours	
					17
SPRING	GENE	440	Ethics and Professional Practice		3 [3+0] 3[3+0]
	EEEN	-	Major Elective 3		3[3+0]
	EEEN	-	Maior Elective 4		3[3+0]
	EEEN	-	Major Elective 5		3[3+0]
	ENGR	405	Senior Design Project II	EEEN 330,	2[0+2]
				ENGR 400, 90	
				Credit Hours	
					17
					139

19.3 The School of Humanities, Arts, and Applied Sciences (HAAS)

The vision of the School of Humanities, Arts, and Applied Sciences (HAAS) is anchored to the intellectual core of Amity University-Dubai led by its guiding values. Our vision seeks to inspire our students to fulfil their dreams and ambitions, unleash their creativity, and become lifelong learners and engaged citizens.

HAAS offers seven quality undergraduate and four graduate degree programs pillared on contemporary interdisciplinary and transversal content knowledge. These programs are taught by seasoned faculty members hailing from different academic backgrounds and equipped with outstanding academic and industry experience in their respective areas of specialty. They utilize original styles of pedagogy centering on experiential learning and 21st Century Competencies (21st CC) and skills.

Our curricula, explained in this Catalog, promote analytical and moral reasoning, problem solving, creativity, innovation, and communication skills for preparing knowledgeable, skillful, talented, and engaged citizens.

In line with the University's Mission, HAAS cultivates a sustainable ecosystem that renders numerous opportunities for learners to achieve their career prospects and become socially responsible citizens. In this respect, one of our main priorities is create cooperative links with private and public sector institutions and companies at local, regional, and international levels, through the provision of internships and numerous community engagement activities.

We are confident that our students will enjoy a rich and engaging lifelong learning journey at the School of Humanities, Arts, and Applied Sciences and make use of their education for realizing their career prospects.

19.3.1 Bachelor of Animation and Film Production

PROGRAM LEARNING OUTCOMES (PLO)

Upon successful completion of the Bachelor of Animation and Film Production program, the students should be able to:

1. Knowledge:

- 1.1. Demonstrate concept creation and digital storytelling techniques in the film and animation industries.
- 1.2. Integrate technological concepts and approaches in current industry practices for compilation of systematic and coherent body of knowledge.

2. Skills:

2.1. Use traditional and computer-generated animation skills for media content creation 2.2. Apply production skills using the latest professional equipment and software.

3. Competences:

- 3.1. Autonomy and Responsibility
 - 3.1.1. Work creatively as an individual or in team settings to produce media outputs.
 - 3.1.2. Can produce content using advance approaches to evaluate and manage complex and unpredictable work processes, resources
- 3.2. Self-Development
 - 3.2.1. Can undertake life-long learning and professional development in the media and digital landscapes.
- 3.3. Role in context
 - 3.3.1. Take responsibility for individual and group achievements for desirable outcomes.

Concentration Film and Television

CFT 1.1: Demonstrate in-depth knowledge of the craft of filmmaking and television production processes. CFT1.2: Use media equipment and software applications to create, record, and edit media content.

Concentration Animation

CA 1.1: Recognize critical and aesthetic principles and workflows of both traditional and computer-generated animated films.

CA 1.2: Design, create, and animate objects and characters in both 2D and 3D with naturalistic and expressive movements and poses.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

QFEMIRATES [L7]		1. Kno	wledge			2. Sk	ills						3. Co	ompete	ence					
• •										3.1. A Re	Auton	omy a sibilit	and v		3.2. F Con	Role i text	in	3. Dev	3. S elopr	elf nent
	A1	A2	A3	A 4	A 5	B1	В 2	В 3	В 4	C1	C 2	C 3	C 4	C 5	C6	C 7	C8	C 9	C 10	C 11
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline, encompassing a broad and coherent body of knowledge and concepts, with substantive depth	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional disciplines including related requisitions standards codes conventions	understanding of critical approach to the creation and compilation of a systematic and coherent body of knowledge and concepts gained from	a comprehensive understanding of critical analysis, research systems	familiarity with sources of current and new research and knowledge with internation of concents from outside fields	technical, creative and analytical skills appropriate to solving specialised problems using evidentiary and procedural based	evaluating, selecting and applying appropriate methods, procedures or herbinities in proceedures or herbinities in proceedures of investigation towards identified collitions	evaluating and implementing appropriate research tools and strategies	highly developed advanced communication and information technology 4	can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and unpredictable	can manage technical, supervisory or design processes in	can work creatively and/or effectively as an individual, in team Loadeschin annancing contexts across technical or professional	can express an internalised, personal view, and accept responsibility to 4	can function with full autonomy in technical and supervisory contexts	can take responsibility for the setting and achievement of group or individual outcomes and for the management and supervision of the	can participate in peer relationships with qualified practitioners and lead	can take responsibility for managing the professional development and direct mentoring of individuals and groups	can self-evaluate and take responsibility for contributing to professional contributing to professional contribution.	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
<u>1. Knowledge</u> 1.1 Demonstrate theoretical and practical knowledge in the evolution of film and animation industries.	x		X																	
1.2. Integrate technological concepts and approaches in current industry practices for compilation of systematic and coherent body of knowledge.	x		x																	
2.1. Use traditional and computer- generated animation skills for media content creation							x													

QFEMIRATES		1. Kno	wledg		2. Skills				3. Competence											
L1										3.1. A	Auton	omy a	and		3.2. F	Role i	n	3.3 Dov	3. S	elf
	A1	A2	A3	A	A	B1	В	B	B	C1	C C	C	C	C	C6	C 7	C8	C	C 10	C
2.2. Apply production skills using the latest professional equipment and software.				-		x	-					5		5		1		5	10	
3. <u>Competence</u> <u>3.1. Autonomy</u> <u>and</u> <u>Responsibility</u> 3.1.1. Work creatively as an individual or in team settings to produce media outputs.												x								
3.1.2. Can produce content using advance approaches to evaluate and manage complex and unpredictable work processes , resources													x							
3.2. Self- <u>Development</u> 3.2.1. Can undertake life- long learning and professional development in the media and digital landscapes.																		x	x	
3.3. Role in <u>Context</u> 3.3.1. Take responsibility for individual and group achievements for desirable outcomes. <u>FILM AND</u> <u>TELEVISION</u> <u>CONCENTRA</u> TION														x						

QFEMIRATES [L7]		1. Knowledge					2. Sk	3. Competence												
										3.1. A Re	Auton	omy a sibilit	and V		3.2. F Con	Role i text	'n	3. Dev	3. S elopn	elf nent
	A1	A2	A3	A 4	A 5	B1	В 2	В 3	В 4	C1	C 2	C 3	C 4	C 5	C6	C 7	C8	C 9	C 10	C 11
CFT 1.1: Demonstrate in-depth knowledge in craft of filmmaking and television production.	x	x																		
CFT1.2: Use latest technologies and software for new age storytelling.							x													
ANIMATION CONCENTRA TION CA 1.1: Demonstrate in-depth knowledge of traditional and computer- generated animation content.		x				x														
CA 1.2: Use latest technologies and software to create naturalistic and expressive movements.						x	x	X												

PREREQUISITES COREQUISITES

CR

PROGRAM STRUCTURE

COURSE CODE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR COURSE CODE COURSE # COURSE TITLE COURSE CODE

ARAB	102	Arabic Language		3
ENGL	102	English for Academic Writing		3
COMM	105	Public Speaking		3
GENE	120	Islamic Culture		3
GENE	210	UAE Studies		3
GENE	340	Innovation, Entrepreneurship and Sustainability		3
GENE	440	Ethics and Professional Responsibility		3
HAAS ELECTIV	ES - COMMO	N CORE (SCHOOL REQUIREMENTS) - 12 CR	
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES COREQUISITES	CR
HAAS	102	Media Literacy	ENGL102	3
HAAS	202	Practicing Sustainability	ENGL102	3
HAAS	208	Life and Future Skills	ENGL102	3
HAAS	302	Research Methods and Data Analysis		3
COMMON COR	E (DEPARTM	ENT REQUIREMENTS) - 15 CR		
COURSE	COURSE #	COURSE TITLE	PREREQUISITES COREQUISITES	CR
MDIA	101	Introduction to Storytelling		3
MDIA	102	Basics of Camera Techniques		3
MDIA	201	Post-production for Moving Images		3
	202	A duranticin a		2
MDIA	203	Advertising		3
MDIA	203 207	Media Ethics, Laws and Regulations		3
MDIA MDIA MAJOR CORE (P	203 207 ROGRAM RE	Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR		3
MDIA MDIA MAJOR CORE (P COURSE CODE	203 207 ROGRAM RE COURSE #	Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE	<u>PREREQUISITES</u> COREQUISITES	3 CR
MDIA MDIA MAJOR CORE (P COURSE CODE ANIM	203 207 ROGRAM RE COURSE # 101	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space	<u>PREREQUISITES</u> COREQUISITES	3 CR 3
MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM	203 207 ROGRAM RE COURSE # 101 201	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation	<u>PREREQUISITES</u> COREQUISITES	3 CR 3 3
MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM	203 207 ROGRAM RE COURSE # 101 201 210	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices	<u>PREREQUISITES</u> COREQUISITES	3 CR 3 3 3 3
MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM	203 207 ROGRAM RE COURSE # 101 201 210 301	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures	<u>PREREQUISITES</u> COREQUISITES	3 CR 3 3 3 3 3
MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM ANIM	203 207 ROGRAM RE COURSE # 101 201 210 301 301	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation	<u>PREREQUISITES</u> COREQUISITES	3 CR 3 3 3 3 3 3 3
MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM ANIM FILM FILM	203 207 ROGRAM RE COURSE # 101 201 210 301 301 301 315	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation Filmmaking Theory and Practices	<u>PREREQUISITES</u> COREQUISITES	3 CR 3 3 3 3 3 3 3 3 3
MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM FILM FILM ANIM FILM	203 207 ROGRAM RE COURSE # 101 201 210 301 301 301 315 305	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation Filmmaking Theory and Practices Motion Graphics Design	PREREQUISITES COREQUISITES	3 CR 3 3 3 3 3 3 3 3 3 3 3 3
MDIA MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM ANIM FILM ANIM ANIM ANIM	203 207 ROGRAM RE COURSE # 101 201 210 301 301 301 315 305 308	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation Filmmaking Theory and Practices Motion Graphics Design 3D Modeling Techniques	PREREQUISITES COREQUISITES	3 CR 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM FILM ANIM FILM ANIM ANIM ANIM ANIM	203 207 ROGRAM RE COURSE # 101 201 210 301 301 301 315 305 308 310	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation Filmmaking Theory and Practices Motion Graphics Design 3D Modeling Techniques Lighting and Rendering	PREREQUISITES_COREQUISITES	3 CR 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MDIA MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM ANIM FILM ANIM ANIM ANIM ANIM ANIM FILM	203 207 ROGRAM RE COURSE # 101 201 210 301 301 301 315 305 308 310 317	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation Filmmaking Theory and Practices Motion Graphics Design 3D Modeling Techniques Lighting and Rendering Sound Design for Film and Animation	PREREQUISITES_COREQUISITES	3 CR 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MDIA MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM ANIM ANIM ANIM ANIM ANIM FILM FILM FILM	203 207 ROGRAM RE COURSE # 101 201 210 301 301 301 315 305 308 310 317 320	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation Filmmaking Theory and Practices Motion Graphics Design 3D Modeling Techniques Lighting and Rendering Sound Design for Film and Animation VFX and Digital Compositing	PREREQUISITES_COREQUISITES 	3 CR 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MDIA MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM ANIM FILM ANIM ANIM ANIM FILM FILM FILM FILM FILM	203 207 ROGRAM RE COURSE # 101 201 210 301 301 301 315 305 308 310 317 320 325	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation Filmmaking Theory and Practices Motion Graphics Design 3D Modeling Techniques Lighting and Rendering Sound Design for Film and Animation VFX and Digital Compositing Cinematic Color Grading	PREREQUISITES_COREQUISITES ANIM201 ANIM305	3 CR 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MDIA MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM ANIM ANIM ANIM ANIM FILM FILM FILM FILM FILM	203 207 ROGRAM RE COURSE # 101 201 210 301 301 301 315 305 308 310 317 320 325 328	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation Filmmaking Theory and Practices Motion Graphics Design 3D Modeling Techniques Lighting and Rendering Sound Design for Film and Animation VFX and Digital Compositing Cinematic Color Grading Set Designing: Traditional and Virtual	PREREQUISITES_COREQUISITES ANIM201 ANIM305	3 CR 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MDIA MDIA MDIA MAJOR CORE (P COURSE CODE ANIM ANIM FILM FILM ANIM FILM ANIM ANIM FILM FILM FILM FILM FILM FILM FILM FILM	203 207 ROGRAM RE COURSE # 101 201 210 301 301 301 305 308 310 317 320 325 328 318	Adventising Media Ethics, Laws and Regulations QUIREMENTS) - 45 CR COURSE TITLE Drawing and Space Visual Design for Film and Animation Photography Theory and Practices History of Motion Pictures Principles of 2D Animation Filmmaking Theory and Practices Motion Graphics Design 3D Modeling Techniques Lighting and Rendering Sound Design for Film and Animation VFX and Digital Compositing Cinematic Color Grading Set Designing: Traditional and Virtual AR VR Technologies	PREREQUISITES_COREQUISITES ANIM201 ANIM305	3 CR 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

ANIM	402	Digital Modeling for Props and Environments	ANIM308	3
ANIM	403	Organic Surface Modeling		3
ANIM	404	3D Animation		3
ANIM	405	Animation Look Development		3
ANIM	406	Animation Production Workflow		3

	MAJOR ELECT	TIVES (CONCENTRATION REQ	UIREMENTS: Film and Televis	sion) - 15 CR	
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
FILM	402	Cinematography	MDIA102		3
FILM	403	Television Production Process			3
FILM	404	Directing for Mise-en-scene	MDIA101		3
FILM	405	Creative Video Productions	FILM320		3
FILM	406	Fiction Production	FILM315		3

OPEN ELECTIVES (CHOOSE 6 CREDITS FROM ANY PROGRAM SUBJECT TO FULFILLING THEIR PREREQUISITES IF ANY) - 6 CR

3

3

COURSE CODE COURSE #

COURSE TITLE PREREQUISITES

SITES COREQ

COREQUISITES CR

Open Elective IAs per CatalogOpen Elective IIAs per Catalog

PROPOSED SCHEDULE OF DELIVERY

YEAR/SEM	COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	C R
YEAR 1	MDIA	101	Introduction to Storytelling		ENGL102	3
FALL	MDIA	102	Basics of Camera Techniques		ENGL102	3
	ANIM	101	Drawing and Form		ENGL102	3
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
CODING		201				15
SPRING	ANIM	201	Visual Design for Film and Animation			3
	MDIA	201	Post-production for moving Images			3
	HAAS	101	Media Literacy			3
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
						15
YEAR 2	MDIA	203	Advertising			3
FALL	FILM	210	Photography Theory and Practices			3
	FILM	301	History of Motion Pictures			3
	HAAS	201	Practicing Sustainability			3
	GENE	210	UAE Studies			3
						15
SPRING	MDIA	207	Media Ethics, Laws, and Regulations			3
	ANIM	301	Principles of 2D Animation			3
	ANIM	308	3D Modeling and Techniques			3
	HAAS	204	Life and Future Skills			3
			Open Elective 1			3
						15

YEAR 3	ANIM	305	Motion Graphics Design	ANIM201	3
FALL	FILM	315	Film Production Theory and		3
	ANIM	310	Practices Lighting and Rendering		3
	HAAS	301	Research Methods and Data Ar	nalysis	3
	GENE	340	Innovation, Entrepreneurship a	nd Sustainability	3
					15
SPRING	FILM	317	Sound Design for Film and Animation		3
	FILM	320	VFX and Digital Compositing	ANIM 305	3
	FILM	325	Cinematic Color Grading		3
	FILM	328	Set Designing: Traditional and	Virtual	3
	ANIM	318	AR VR Technologies		3
					15
INTERNSH	IP		Internship	60 CR	
HAAS		340			3
YEAR 4	ANIM	401	Industry Practices & Digital po	rtfolio	3
FALL	GENE	440	Ethics and Professional Respon	sibility	3
			Major Elective 1		3
			Major Elective 2		3
			Major Elective 3		3
					15
SPRING	наас	450	Project		r
	ΠΑΑδ	430	Major Elective 4		3
			Major Elective 5		3
			Open Elective 2		3
			•		12

19.3.2 Bachelor of Economics

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Economics at Amity Business School Dubai aims at:

(G1) Impart comprehensive understanding of economics to prepare learners to address real-life economic challenges. (G2) Develop analytical and problem-solving skills needed to make informed decisions in dynamic local and global environments

(G3) Cultivate a culture of independent inquiry and personal development facilitating ethical and professional approaches to modern economic issues

(G4) Create social awareness and advocates of responsible management of scarce resources for a sustainable world

PROGRAM LEARNING OUTCOMES (PLO)

Upon successful completion of the Bachelor of Economics program, the students should be able to:

1. Knowledge

- 1.1. Demonstrate knowledge of theories and concepts in the domain of economics and allied disciplines.
- 1.2. Apply research and analytical techniques to understand economic problems.
- 1.3. Understand the application of economics principles in a global environment.

2. Skills

- 2.1. Use appropriate methods to identify, evaluate and solve complex economic problems
- 2.2. Demonstrate information technology skills to explain and critique economic predictions in contexts.

3. Competences

3.1. Autonomy and Responsibility

3.1.1. Can work creatively and effectively as an individual and in teams to manage varied professional activities.

3.2. Self-Development

3.2.1. Take responsibility to manage learning tasks independently and professionally in complex and unfamiliar contexts.

3.3. Role in context

3.3.1. Take responsibility for setting and achieving individual and group outcomes in the chosen discipline.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

QFEMIRATES	1. Knowledge 2. Skills												3. C	ompe	etenc	е				
• •										3.1. R	Auto	nomy nsihili	and tv	3	3.2. F Con	Role ii	n	3 De	3.3. Se	elf nent
	A 1	A 2	A 3	A 4	A 5	B 1	B 2	B 3	B 4	C	C 2	C	C A	C 5	C	C 7	C 8	C	C1	C1
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline. encompassing a broad and	an understanding of allied knowledge and theories in related fields of work N or disciolines and in the case of orofessional disciplines including related	understanding of critical approach to the creation and compilation of a systematic and coherent body of knowledge and concepts gained from a	a comprehensive understanding of critical analysis, research systems and the thods and ethods and ethods and ethols and ethols and ethols and ethols are been as the problem solving techniques are as the problem solving tec	familiarity with sources of current and new research and knowledge with c intearation of concepts from outside fields	technical, creative and analytical skills appropriate to solving specialized oroblems using evidentiary and procedural based processes in predictable	evaluating, selecting and applying appropriate methods, procedures or techniques in processes of investigation towards identified solutions	evaluating and implementing appropriate research tools and strategies s	highly developed advanced communication and information technology kills to present. explain and/or critique complex and unpredictable matters	can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and unpredictable work	can manage technical, supervisory or design processes in unpredictable, nufamiliar and varving contexts	can work creatively and/or effectively as an individual, in team leadership, c manacing contexts across technical or professional activities	can express an internalized, personal view, and accept responsibility to a society at large and to socio-cultural norms and relationships	can function with full autonomy in technical and supervisory contexts and a adopt para-professional roles with little guidance	can take responsibility for the setting and achievement of group or dividual outcomes and for the management and supervision of the work	can participate in peer relationships with qualified practitioners and lead	can take responsibility for managing the professional development and direct mentoring of individuals and oroups	can self-evaluate and take responsibility for contributing to professional dractice. and undertake regular professional development and/or further	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
<u>1. Knowledge</u> 1.1. Demonstrate knowledge of theories and concepts in the domain of economics and allied disciplines.	X	X	2	e		tt D	Et C	υœ			0 1		00		<u> </u>	0	00	0 0		0
1.2. Apply research and analytical techniques to understand economic problems.			x	x		x	x	x												
1.3. Understand the application of economics principles in a global environment.			x		x															
2. Skills 2.1. Use appropriate methods to identify, evaluate and solve complex economic problems							x	x												

QFEMIRATES [L7]		1. K	nowle	edge			2. S	kills						3. C	ompe	etenc	e			
										3.1. F	Auto Sespo	nomy nsibili	and tv		3.2. I Cor	Role il ntext	า	3 De	3.3. So velopn	əlf 1ent
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	С 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
2.2. Demonstrate information technology skills to explain and critique economic predictions in relevant contexts						x	x	X												
3. Competence 3.1. Autonomy and <u>Responsibility</u> 3.1.1. Can work creatively and effectively as an individual and in teams to manage varied professional activities.										x		X								
3.2. Self- <u>Development</u> 3.2.1. Take responsibility to manage learning tasks independently and professionally in complex and unfamiliar contexts.																		x	x	x
3.3. Role in Context 3.3.1. Take responsibility for setting and achieving individual and group outcomes in the chosen discipline.															X	X				

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR COURSE CODE COURSE # COURSE TITLE

COURSE CODE	COURSE #	COURSE TITLE	<u>PREREQUISITES</u> COREQUISITES	CR
ARAB	102	Arabic Language		3
ENGL	102	English for Academic Writing		3
COMM	105	Public Speaking		3
GENE	120	Islamic Culture		3
GENE	210	UAE Studies		3
GENE	340	Innovation, Entrepreneurship and Sustainability		3

GENE

440 Ethics and Professional Responsibility

3

HAAS ELECTIVES - COMMON CORE (SCHOOL REQUIREMENTS) - 12 CR											
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR						
HAAS	102	Media Literacy		ENGL102	3						
HAAS	202	Practicing Sustainability		ENGL102	3						
HAAS	208	Life and Future Skills		ENGL102	3						
HAAS	302	Research Methods and Data Analysis		NIL	3						

MAJOR CORE (PROGRAM

RE COURSE CODE	COURSE #	UIREMENTS) - 60 CR COURSE TITLE	PREREQUISITES	COREQUISITES	CR
QMET	110	Business Mathematics	ENGL 101		3
ECON	210	Microeconomic Theory	NIL		3
MGMT	120	Principles of Management	NIL		3
ECON	310	Macroeconomic Theory	ECON 210		3
QMET	210	Statistics for Business	QMET 110		3
ECON	215	Intermediate Microeconomics	ECON 210		3
BUSN	220	Business Law	ENGL 102		3
ACCT	110	Financial Accounting, I	NIL		3
ECON	315	Intermediate Macroeconomics	ECON 310		3
ECON	320	History of Economic Thoughts	NIL		3
FINE	330	Commercial Banking	ECON 315 &ACCT 110		3
ECON	325	Economics of Growth & Development	ECON 315		3
ECON	335	Basics of Health Economics	ECON 215		3
ECON	340	Fundamentals of Public Finance	ECON 315 & ACCT 110		3
ECON	345	Economics & E-Commerce	ECON 315		3
ECON	350	Labor Economics	ECON 315		3
ECON	355	Economic Environment of Business	ECON 315		3
ECON	365	Special Topics in Economics	ECON 325		3
ECON	400	International Economics	ECON 315		3
FINE	482	Islamic Banking	FINE 330		3

MAJOR ELECTIVES - 15 CR COURSE CODE COURSE

	#	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
ECON	405	Regional Economics	ECON 355		3
ECON	410	Industrial Economics	ECON 355		3
ECON	415	Econometrics	ECON 215		3
ECON	420	Knowledge Economy	ECON 355		3
ECON	425	Behavioral Economics	ECON 355		3

OPEN ELECTIVES (CHOOSE 6 CREDITS FROM ANY PROGRAM SUBJECT TO FULFILLING THEIR PREREQUISITES IF ANY) - 6 CR

COURSE CODE COURSE #

COURSE TITLE PREREQUISITES

COREQUISITES CR

Open Elective I	As per Catalog	3	
		2	
Open Elective II	As per Catalog	3	

PROPOSED SCHEDULE OF DELIVERY

YEAR/SEM	COURSE CO	OURSE	COURSE TITLE PREREQU	ISITES COREQUISIT	TES CR CODE	#
YEAR 1	ECON	210	Microeconomic Theory		GMET 110	3
FALL	MGMT	120	Principles of Management			3
	QMET	110	Business Mathematics	ENGL101		3
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
						15
SPRING	ECON	310	Macroeconomic Theory	ECON 210		2
	QMEI	110	Statistics for Business	GMET 110		3
	COMM	102	Public Speaking			3
	ARAB	105	Arabic Language			3
						15
YEAR 2	ECON	215	Intermediate Microeconomics	ECON 210		3
FALL	BUSN	220	Business Law	ENGL 102		3
	ACCT	110	Financial Accounting, I	NIL		3
	HAAS	202	Practicing Sustainability			3
	GENE	210	UAE Studies			3
						15
SPRING	ECON	315	Intermediate Macroeconomics	ECON 310		3
	ECON	205	History of Economic Thoughts			3
	FTNE	330	Commercial Banking	ECON 310 & ACCT 110		3
	HAAS	204	Life and Future Skills			3
			Open Elective I			3
VEAR 3	FCON	325	Economics of Growth &	FCON 315		<u>15</u> 3
I LAR J	LCON	525	Development	LCOIV 515		5
FALL	ECON	335	Basics of Health Economics	ECON 215		3
	ECON	340	Fundamentals of Public Finance	ECON 315		3
	HAAS	301	Research Methods and Data			3
	GENE	240	Analysis Innovation Entropropourship and			2
	GENE	340	Sustainability			5
						15
SPRING	ECON	345	Economics & E-Commerce	ECON 315		3
	ECON	350	Labor Economics	ECON 315		3
	ECON	355	Economic Environment of	ECON 315		3
	ECON	365	Business Special Topics in Economics	ECON 325		3
	ECON	460	International Economics	ECON 315		3
						-

INTERNSHIP	HAAS	340	Internship	60 CR	3 3
YEAR 4	ECON	405	Regional Economics	ECON 315	3
FALL	ECON	410	Industrial Economics	ECON 315	3
	ECON	415	Econometrics	ECON 215	3
	GENE	440	Ethics and Professional Responsibility		3
	ECON	420	Knowledge Economy	ECON 355	3
					15
SPRING	ECON	425	Fundamentals of Behavioral Economics	ECON 355	3
	HAAS	450	Project	90 CR	3
	FINE	482	Islamic Banking	FINE 330	3
			Open Elective2		3
					12

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19.3.3 Bachelor of Fashion Design

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Fashion Design at Amity School of HAAS Dubai aims at:

(G1) 1. Provide knowledge of traditional and modern approaches to creative design, and an understanding of the intersections of diverse disciplines within the core domain of fashion.

(G2) Develop creative, artistic, and mind mapping skills that enable the identification of minute nuances allowing socially responsible futuristic designs

(G3) Foster hand-making, technical, and digital skills necessary to create and innovate marketable products

(G4) Develop entrepreneurial acumen and sensitivity to multicultural norms while taking responsibility for setting and achieving outcomes

PROGRAM LEARNING OUTCOMES (PLO)

Upon successful completion of the Bachelor of Fashion Design program, the students should be able to:

1. Knowledge

- 1.1. Demonstrate in-depth knowledge of fashion design concepts and theories and their application in real industry contexts.
- 1.2. Integrate knowledge of allied fields as they relate to the core domain of fashion design.

2. Skills

- 2.1. Use software applications to create designs and convert them into digital portfolios.
- 2.2. Use tools and equipment to transform textiles into garments and accessories.
- 2.3. Identify technical and social problems in the realm of fashion and apply research tools in view of proposing feasible solutions.
- 2.4. Communicate, in written, verbal, and visual means design projects to interested audiences.

3. Competences

3.1. Autonomy and Responsibility

- 3.1.1. Work creatively as an individual or in team settings in managing fashion design projects.
- 3.1.2. Take responsibility for developing entrepreneurial and sustainable approaches to create innovative designs.
- 3.2. *Role in context*
 - 3.2.1. Take responsibility for supervising the work of others to achieve desirable outcomes.
- 3.3. Self-Development
 - 3.3.1. Take responsibility for your own learning and development needs.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

QFEMIRATES [L7]		1. 1	Cnowled	dge		2.Skills 3. Competence													
										3	.1. Autoi Respoi	nomy an nsibility	d	3.2	2. Role	in Conte	ext	3.3. Develo	Self opmen
	A1	A2	A3	A4	A5	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of	an understanding of allied knowledge and theories in related fields of work or disciplines and in the	understanding of critical approach to the creation and compilation of a systematic and coherent body	a comprehensive understanding of critical analysis, research systems and methods and evaluative	familiarity with sources of current and new research and knowledge with integration of concepts from	technical, creative and analytical skills appropriate to solving specialised problems using evidentiary	evaluating, selecting and applying appropriate methods, procedures or techniques in processes of	evaluating and implementing appropriate research tools and strategies associated with the field of work	highly developed advanced communication and information technology skills to present, explain	can take responsibility for developing innovative and advanced approaches to evaluating and managing	can manage technical, supervisory or design processes in unpredictable, unfamiliar and varying	can work creatively and/or effectively as an individual, in team leadership, managing contexts,	can express an internalised, personal view, and accept responsibility to society at large and to socio-	can function with full autonomy in technical and supervisory contexts and adopt para-professional	can take responsibility for the setting and achievement of group or individual outcomes and	can participate in peer relationships with qualified practitioners and lead multiple, complex groups	can take responsibility for managing the professional development and direct mentoring of	can self-evaluate and take responsibility for contributing to professional practice, and undertake	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar
1. Knowledge																			
1.1. Demonstrat e in-depth knowledge of fashion design concepts and theories and theories and their application in real industry contexts.	x		x																
1.2. Integrate knowledge of allied fields as they relate to the core		x	x																

domain of fashion design.												
2. Skills												
2.1. Use software applications to create designs and convert them into digital portfolios.			x			x						
2.2. Use tools and equipment to transform textiles into garments and accessories.				x	x							
2.3 Identify technical and social problems in the realm of fashion and apply research tools in view of proposing feasible solutions.			x	×	×							
2.4. Communicat e, in written, verbal, and visual means design projects to interested audiences.						x						
<u>3.</u> Competenc e												
<u>3.1.</u> <u>Autonomy</u> <u>and</u> <u>Responsibili</u> <u>ty</u>												
3.1.1. Work creatively as							 х	Х				

an individual or in team settings in managing fashion design projects.										
3.1.2. Take responsibilit y for developing entrepreneu rial and sustainable approaches to create innovative designs.					x					
<u>3.2. Self-</u> <u>Developmen</u> <u>t</u>										
3.2.1. Take responsibilit y for supervising the work of others to achieve desirable outcomes.								x		
<u>3.3. Role in</u> <u>Context</u>										
3.3.1. Take responsibilit y for your own learning and developmen t needs.										x

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
ARAB	102	Arabic Language			3
ENGL	102	English for Academic Writing			3
COMM	105	Public Speaking			3
GENE	120	Islamic Culture			3
GENE	210	UAE Studies			3

GENE	340	Innovation, Entrepreneurship and			3
GENE	440	Ethics and Professional Responsibility			3
	H	AAS ELECTIVES - COMMON CORE (SCHOOL REQUIREMENTS) - 12 CR		
COUDSE	COUDSE				
CODE	COURSE	COURSE TITLE	PREREOUISITES	CORFOLIISITES	CR
CODE	#	COURSE ITTLE	TREALQUISTIES	COREQUISITES	CK
HAAS	102	Media Literacy		ENGL102	3
HAAS	202	Practicing Sustainability		ENGL102	3
HAAS	208	Life and Future Skills		ENGL102	3
HAAS	302	Research Methods and Data Analysis			3
		MAJOR CORE (PROGRAM R	EOUIREMENTS) - 60 CR		
COURSE	COURSE				
		COURSE TITLE	PREREQUISITES	COREQUISITES	CR
CODE	#				
FASH	101	Introduction to Global Fashion			3
DSGN	102	Elements Of Design			3
FTEC	103	Textiles			3
FASH	204	History of Fashion			3
DSGN	205	Model Drawing-I			3
FTEC	306	Garment Construction			3
FTEC	207	Introduction to Pattern Making			3
DSGN	308	Model Drawing - II	DSGN 205- Model Drawing-I		3
DSGN	309	Art Illustration			3
FTEC	310	Advanced Pattern Making	FTEC 207- Introduction to Pattern		3
FTEC	311	Dyeing and printing	FTEC 103- Textiles		3
FTEC	412	Pattern Grading	FTEC 207- Introduction to Pattern		3
FASH	106	Fashion Photography	Making		3
FASH	435	Digital Marketing			3
FTEC	415	Material studies	FTEC 103- Textiles		3
FASH	320	E- Commerce			3
FTEC	417	Draping			3
DSGN	413	Computer Aided Design			3
FASH	419	Studio			3
DSGN	420	Portfolio Development			<u>3</u>

COURSE

COURSE

MAJOR ELECTIVES - 15 CR

COURSE TITLE PREREQUISITES COREQUISITES CR CODE

#

DSGN	414	Visual merchandising	3
FASH	418	Fashion forecasting	3
FASH	420	Fashion Advertising	3
DSGN	421	Art Appreciation	3
FASH	422	Fashion Communication	3

HAAS	340	Internship		3		
HAAS	450	Project				3
OPEN ELECTIV	ES (CHOC	OSE 6 CREDITS	FROM ANY PROGRA	M SUBJECT TO FULF	ILLING THEIR PREREQ	UISITES IF ANY) -
COURSE CODE	CO	URSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
	Ope	en Elective I	As per Catalog As per Catalog			3
	Ope	en Elective II				3

PROPOSED SCHEDULE OF DELIVERY

COURSE COURSE YEAR/SEM COURSE TITLE PREREQUISITES COREQUISITES CR CODE #

YEAR 1	FASH	101	Introduction to Global Fashion	ENG	GL102	3
FALL	DSGN	102	Elements Of Design	ENG	GL102	3
	FTEC	103	Textiles	ENG	GL102	3
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
						15
SPRING	DSGN	205	Fashion Model Drawing-I	DSGN 205- Model Drawing-I		3
	FASH	106	Fashion Photography			3
	HAAS	102	Media Literacy			3
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
						15
YEAR 2	FASH	204	History of Fashion			3
FALL	FTEC	207	Introduction to Pattern Making			3
	DSGN	308	Fashion Model Drawing - II			3
	HAAS	202	Practicing Sustainability			3
	GENE	210	UAE Studies			3
						15
SPRING	FASH	320	E- Commerce			3
	DSGN	309	Fashion Art Illustration			3
	FTEC	306	Garment Construction			3
	HAAS	208	Life and Future Skills			3
			Open Elective 1			3
						15
YEAR 3	FASH	435	Digital Marketing			3
FALL	FTEC	310	Advance Pattern Making	FTEC 207- Introduction to Pattern Making		3
	DSGN	413	Computer Aided Design	0		3
	HAAS	302	Research Methods and Data Analysis			3

GE	ENE 34	40	Innovation, Entrepreneurship and Sustainability	3

15

		• 10	· · ·						
INTERNSHIP	HAAS	340	Internship			2			
SPRING	FASH	419	Studio			3			
	DSGN	420	Portfolio Development			3			
	FTEC	417	Draping			3			
	FTEC	412	Pattern Grading	FTEC 306- Garment Construction		3			
	FTEC	311	Dyeing and Printing	FTEC 103- Textiles		<u>3</u>			
					15				
				<u>60 CR</u>		3			
						3			
YEAR 4	FTEC	415	Material Studies	FTEC 103-Textiles		3			
			Ethics and Professional						
FALL	GENE	440	Responsibility			3			
			Major Elective 1			3			
			Major Elective 2			3			
			Major Elective 3			3			
			-						
						15			
SPRING	HAAS	450	Project			3			
			Major Elective 4			3			
			Major Elective 5						
			Open Flective 2			3			
			12		120	5			
			12		120				

19.3.4 Bachelor of Hospitality and Tourism Management

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Hospitality and Tourism management at Amity Dubai aims at:

- (G1) Provide a broad knowledge to understand hospitality & tourism concepts and its impact on economy, culture and environment
- (G2) Apprehend the importance of continuous learning, conduct appropriate research to evaluate, analyze and present data in hospitality & tourism
- (G3) Develop acumen for digital literacy to function with full autonomy in technical and supervisory context related to hospitality and tourism

- (G4) Develop advanced communication skills to communicate effectively to explain complex and unpredictable matters
- (G5) Demonstrate self-development and take responsibility for the setting and achievement of team and individual outcomes

PROGRAM LEARNING OUTCOMES (PLO)

Upon successful completion of the Bachelor of Hospitality and Tourism Management program, the students should be able to:

1. Knowledge

1.1. Demonstrate in-depth knowledge of hospitality and tourism concepts, theories and their application in real industry contexts.

2. Skills

- 2.1. Use various tools, equipment and digital platforms for executing standard operational procedures for providing efficient and effective services
- 2.2. Apply critical thinking in research analysis to formulate solutions to complex business problems
- 2.3. Demonstrate effective customer service skills, interpersonal, verbal and written communication proficiency with all stakeholders

3. Competences

3.1. Autonomy and Responsibility

3.1.1 Work independently as an individual and effective team member in managing complex and unpredictable operational procedures

3.2. Self-Development

3.2.1 Take responsibility for personal and professional development while observing ethical industry standards *3.3Role in context*

3.3.1. Take responsibility for goal setting and achieving individual and group outcomes for business development

4. Concentration Tourism PLO

TOUR 1.1 Demonstrate comprehensive knowledge of geopolitical and socio-cultural terrain. TOUR 1.2 Apply digital, technical, creative and analytical skills in specific domains of tourism.

5. Concentration Hospitality PLO

HOSP1.1 Integrate practical knowledge from core departments of hospitality to administer day to day operations and business

HOSP1.2 Use skills of multi-tasking, customer service, attention to detail within the specific domains of hospitality

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

QFEMIRATES	1. Knowledge					2. Skills				3. Competence										
• •										3. R	1. Au ar əspor	tonor nd nsibili	ny ity	3	.2. F Con	Role i text	in	3 De	.3. S velopr	elf nent
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline, encompassing a broad and coherent body of knowledge and concepts, with substantive	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional disciplines including related regulations, standards, codes, conventions	understanding of critical approach to the creation and compilation of a systematic and coherent body of knowledge and concepts gained from a range of sources	a comprehensive understanding of critical analysis, research systems and methods and evaluative problem-solving techniques	familiarity with sources of current and new research and knowledge with integration of concepts from outside fields	technical, creative and analytical skills appropriate to solving specialized problems using evidentiary and procedural based processes in predictable and new contexts that include devising and sustaining	evaluating, selecting and applying appropriate methods, procedures or techniques in processes of investigation towards identified solutions	evaluating and implementing appropriate research tools and strategies associated with the field of work or discipline	highly developed advanced communication and information technology skills to present, explain and/or critique complex and unpredictable matters	can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and unpredictable work procedures and processes. resources or learning	can manage technical, supervisory or design processes in unpredictable, unfamiliar and varying contexts	can work creatively and/or effectively as an individual, in team leadership, managing contexts, across technical or professional activities	can express an internalized, personal view, and accept responsibility to society at large and to socio- cultural norms and relationships	can function with full autonomy in technical and supervisory contexts and adopt para-professional roles with little auidance	can take responsibility for the setting and achievement of group or individual outcomes and for the management and supervision of the work of others or self in the case of a specialisation in field of work	can participate in peer relationships with qualified practitioners and lead multiple, complex groups	can take responsibility for managing professional development and direct mentoring of individuals and proups	can self-evaluate and take responsibility for contributing to professional practice, and undertake regular brofessional development and/or further learning	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
<u>1. Knowledge</u> 1.1 Demonstrate in-depth knowledge of hospitality and tourism concepts, theories and their application in real industry contexts.	x																			
2. Skills 2.1 Use various tools, equipment's and digital platforms for executing standard							x													

QFEMIRATES [L7]	1. Knowledge						2. S	kills		3. Competence										
											1. Au	tonor	пу	3.2. Role in 3.3. Self						
										and Responsibility		Context				Development				
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C1 0	C1 1
operational			-		-			-				-		-	-	-	-			
procedures for																				
providing																				
efficient and																				
2.2 Apply critical																				
2.2. Apply childan																				
thinking in																				
analysis to																				
formulate						x														
solutions to						^														
complex																				
business																				
problems																				
2.3 Demonstrate																				
effective																				
customer service																				
skills.																				
interpersonal,									v											
verbal and									X											
written																				
communication																				
proficiency with																				
all stakeholders																				
3. Competence																				
<u>3.1. Autonomy</u>																				
<u>and</u>																				
<u>Responsibility</u>																				
3.1.1. Work																				
independently as																				
an individual and																				
effective team																				
member in												Х								
managing																				
complex and																				
procedures																				
3.2 Solf-																				
Development																				
321 Take																				
responsibility for																				
personal and																				
professional																				
development																		X	X	
while observing																				
ethical industry																				
standards																				
3.3. Role in																				
Context																				
QFEMIRATES [L7]	1. Knowledge					2. Skills				3. Competence										
---	--------------	--------	--------	--------	--------	-----------	--------	--------	--------	---------------	----------------------	------------------------	-----------	--------	--------------	-----------------	--------	--------------------------	---------	-------------
										3. Ri	1. Au ar espoi	tonor nd nsibili	ny ity	3	.2. F Con	Role i itext	in	3.3. Self Development		elf nent
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	C 4	C 5	0 C	C 7	C 8	C 9	C1 0	C1 1
3.3.1 Take responsibility for goal setting and achieving individual and group outcomes for business development														x						
4. Tourism Management Concentration 4.1 Demonstrate comprehensive knowledge of geopolitical and socio-cultural terrain. 4.2 Apply digital	x																			
4.2 Apply digital, technical, creative and analytical skills in specific domains of tourism.							x													
5 Hospitality Management CONCENTRATI ON 5.1 Integrate practical knowledge from core departments of hospitality to administer day to day operations and business	x																			
5.2 Use skills of multi-tasking, customer service, attention to detail within the specific domains of hospitality							x													

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR												
COURSE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR							
CODE												

COURSE	COURSE #	COURSE TITLE	PREPEATISITES	CORFOLUSITES	CR
	HAAS	E LECTIVES - COMMON COR	E (SCHOOL REQUIREMENTS) - 12 CR		
GENE	440	Ethics and Professional Respons	ibility		3
GENE	340	Innovation, Entrepreneurship and	d Sustainability		3
GENE	210	UAE Studies			3
GENE	120	Islamic Culture			3
COMM	105	Public Speaking			3
ENGL	102	English for Academic Writing			3
ARAB	102	Arabic Language			3

CODE	COURSE #	COURSE IIILE	PREREQUISITES	COREQUISITES	
HAAS	102	Media Literacy		ENGL102	3
HAAS	202	Practicing Sustainability		ENGL102	3
HAAS	208	Life and Future Skills		ENGL102	3
HAAS	302	Research Methods and Data Analysis			3

MAJOR CORE (PROGRAM REQUIREMENTS) - 60 CR

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
FBSP	102	Food Safety and hygiene			3
FBSP	104	Introduction to culinary arts I			3
FBSP FBSP	202 203	Introduction to culinary Arts II Food and beverage service I		FBSP104	3 3
FBSP FBSP	204 304	Food and beverage service II Facility management		FBSP203	3 3
HOTM	101	Introduction to hospitality and Tourism			3
HOTM	103	Interpersonal skills and customer relationship ma	nagement		3
НОТМ	105	Event Management			3
НОТМ	301	Aviation and Logistics Management			3
НОТМ	307	Destination planning and development			3
НОТМ	306	leisure and MICE Tourism			3
RDHM	201	front office operations I			3
RDHM RDHM	206 302	Front office operations II Housekeeping operations		RDHM201	3 3
RDHM FASH	401 435	Room Division Management Digital Marketing		RDHM206	3 3
HOTM	420	Consumer Behavior			3
HOTM	240	Human Capital Management			3
ACCT	110	Financial Accounting, I			3
COURSE CODE	MAJOR ELE COURSE #	CTIVES (CONCENTRATION REQUIREMENT) COURSE TITLE	S: Tourism Management) - PREREQUISI TES	15 CR COREQUISITES	CR
TOUM	402	Experiential Tourism			3
TOUM	403	sustainable Tourism			3
TOUM	404	Ticketing and Computer Reservation Systems in	tourism	110711207	3
TOUM	405	I ourism impact, planning and management		HO1M30/	3
TOUM	406 MA IOD EL 1	World Geography in Tourism	TS. Hatal Managamant) 14	CD	3
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
FBSP	407	Advance Food Production and culinary Arts		FBSP202	3

FBSP	408	Restaurant Concept and Design	FBSP304	3
FBSP	409	Patisserie operations	FBSP202	3
FBSP	410	Food and Beverage controls and Management	FBSP204	3
RDHM	411	Global Strategy for guest retention		3
HAAS HAAS	340 450	Internship Project		3 3

OPEN ELECTIVES (CHOOSE 6 CREDITS FROM ANY PROGRAM SUBJECT TO FULFILLING THEIR PREREQUISITES IF ANY) - 6 CR COURSE CODE COURSE # COURSE TITLE PREREQUISITES COREQUISITES CR

Open Elective I As per Catalog Open Elective II As per Catalog

3

3

PROPOSED SCHEDULE OF DELIVERY

YEAR/SEM	COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
YEAR 1	НОТМ	101	Introduction to hospitality and Tourism			3
FALL	FBSP	102	Food Safety and Hygiene			3
	НОТМ	103	Interpersonal skills and customer relationship			3
	ENGL	102	management English for Academic Writing			3
						3 15
	GENE	120	Islamic Culture			
SPRING	FBSP	104	Introduction to culinary arts, I			3
	HOTM	105	Event Management			3
	HAAS	102	Media Literacy			3
	COMM	105	Public Speaking			3
						3
		100				15
	AKAB	102	Arabic Language			
YEAR 2	RDHM	201	front office operations I			3
FALL	FBSP 3	202	Introduction to culinary Arts II		FBSP 104	
	FBSP	203	Food and beverage service I			3
	HAAS	202	Practicing Sustainability			3
			с .			3
						15
	GENE	210	UAE Studies			
SPRING	НОТМ	301	Aviation and Logistics Management			3
	ACCT	110	Financial accounting, I			3
	НОТМ	240	Human Capital Management			3
	HAAS	208	Life and Future Skills			3

					3
			Open Elective 1		15
YEAR 3	FBSP	204	Food and beverage service II	FBSP 203	3
FALL	FASH	435	Digital Marketing		3
	RDHM	206	Front Office Operations II	RDHM 201	3
	HAAS	302	Research Methods and Data Analysis		3
	GENE	340	Innovation, Entrepreneurship and Sustainability		3
					15
SPRING	FBSP	304	Facility management		3
Silaito	RDHM	302	Housekeeping Operations		
					3
	HOTM	420	Consumer Behavior		3
	HOTM	306	Leisure and MICE Tourism		3
					15
INTERNSHI	P		Internship		
	НОТМ	307	Destination planning and development		
	HAAS	340			3
			Major Elective 3		
SPRING	HAAS	450	Project Major Elective 4 Major Elective 5 Open Elective 2		

					3
					$\frac{15}{3}$
YEAR 4	RDHM	401	Room Division Management	RDHM206	3
FALL	GENE	440	Ethics and Professional Responsibility		3
			Major Elective 1		3
			Major Elective 2		3
					3
					3
					3
				_	
					<u>120</u>

19.3.5 Bachelor of Science Forensic Science

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Science Forensic Science at Amity School of HAAS Dubai aims at:

- (G1) Develop in-depth knowledge of concepts and theories related to forensic science and their applications in real contexts.
- (G2) Equip learners with advanced techniques for the identification and analysis of various physical evidence related to real-time forensic problems.
- (G3) Develop high standards of writing and communication skills relevant to scientific and courtroom environments.
- (G4) Nurture learners' ability to work effectively either independently or in team settings in resolving forensic science cases.
- (G5) Enable students to individualize their educational experience toward specific career goals and/or further education.

PROGRAM LEARNING OUTCOMES (PLO)

Upon successful completion of the Bachelor of Science Forensic Science program, the students should be able to: **1. Knowledge**

1.1. Demonstrate understanding of the principles and conceptual framework of forensic science, and its applicability to the legal contexts.

2. Skill

- 2.1. Employ critical evaluation and analytical skills in forensic investigation and evidence management.
- 2.2. Use effective verbal and written communication skills in legal settings.

3. Competence

- 3.1. Autonomy and responsibility
 - 3.1.1 Take individual and team responsibility in examining forensic evidence and casework.
- 3.2. Role in context

3.2.1 Participate professionally with peers to observe and opine on complex forensic cases.

- 3.3. Self-development
 - 3.3.1 Take responsibility for advanced learning and professional development.
 - 3.3.2 Facilitate forensic science solutions in social, ethical and legal contexts.

CSI Concentration

CSIM1.1: Demonstrate in-depth understanding of methods and techniques applicable to crime scene investigation. CSIM2.1: Apply the specialized skills of crime scene investigation and reconstruction in legal and professional settings.

QDFP Concentration

QDFP1.1: Demonstrate in-depth understanding of tools and techniques applicable to the fields of questioned documents and dermatoglyphics.

QDFP2.1: Use specialized technology for questioned document and fingerprint evidence examination.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

A1 A2 A3 A4 B1 B2 B3 B4 B5 C1 IC2 CI3 C2 C5 C7 C8 C9 C3 Self- to Context Development 3.3 44 B1 B2 B3 B4 B5 C1 IC2 CI3 C2 IC5 C7 C8 C9 C3 Self- Development 3.4 Automatical Self 0 D Self- Context Self- Self- Development Self- Development	QFEMIRATES [L9]	1. Knowledge			e	2. Skills				3. Competence								
Image: state of the state o		A1	A2	A3	A4	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	C7	C8	C9
Image: spectral spectr											3.1. AL	itonon	ny	3.2.	Role	_ 3.	3. Se	lf-
Image: second					1 -						and Res	ponsil	oility in Context Develo		elopn	nent		
1. Knowledge 1.1. Demonstrate a comprehensive and critical understanding of Forensic Science and its practices 1.2. Demonstrate a davanced research methodology and techniques in the analysis of physical evidence 2. Skills 2.1. Apply specialized skills and advanced research methodol/instrumental techniques in the single science indexing of the second methods/instrumental techniques in the single science indexing science indexing science indexing and solving real-time forensic problems 2.2. Skills 2.1. Apply specialized skills and advanced research methodology and techniques in the single science indexing scince ind		omprehensive, highly specialized knowledge in a field of work, iscipline and/or professional practice, and at the interface	dvanced knowledge of applicable research principles and	ritical awareness of knowledge issues, as the basis for riginal thinking: encompassing appropriate processes of	etailed body of knowledge of recent developments in a field of	dvanced skills required in research, analysis, evaluation addretionovation of complex idease information concepts	kills to develop new knowledge and procedures and to ttegrate knowledge from different fields using highly	dvanced problem-solving skills to analyze highly complex sues with incomplete data and develop innovative solutions	lanning a skill to develop and execute a major project or omparable activities (that includes a significant range of	ighly developed specialist communication and information schnology skills to present, explain and/or critique highly	an function autonomously and/ or take responsibility for nanaging professional practices, work, processes or systems, r learning contexts that are highly complex, unpredictable and	an account for high level governance of processes and	an analyze and reflect on socio-cultural norms and	an initiate and manage professional activities that may include highly complex environment	an take responsibility for leading the strategic performance od development of professional teams and self	an self-evaluate and take responsibility for contributing to	an develop and implement further learning consistently and	an consistently and sensitively manage highly complex ethical
analysis of physical Image: Solution of the system of	1. Knowledge1.1. Demonstrate a comprehensive and critical understanding of Forensic Science and its practices1.2. Demonstrate advanced research methodology and techniques in the	X	X	<u>, 2 0</u>		5 5	<u> </u>	<u><u>o</u>. <u></u></u>				80		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>9. C</u>
2. Skills 2.1. Apply specialized skills and advanced research methods/instrumental x x x techniques in identifying, analyzing and solving real-time forensic problems z z x 2.2. Demonstrate z z x proficiency in z z x communicating z z x scientific data z z z through verbal and z z z	analysis of physical evidence																	
	 2. Skills 2.1. Apply specialized skills and advanced research methods/instrumental techniques in identifying, analyzing and solving real-time forensic problems 2.2. Demonstrate proficiency in communicating scientific data through verbal and written means 3. Competence 					x		X	x	x								

QFEMIRATES [L9]	1. Knowledge 2. Skills					3. Competence											
	A1	A2	A3	A4	B1	B2	B3	B4	B5	B5 C1 C2 C3 C4 C5 C7 C8				C8	C9		
										3.1. Au and Res	ıtonor ponsil	ny bility	3.2. in Cor	Role ntext	3. Dev	.3. Se velopn	lf- nent
3.1. Autonomy and <u>Responsibility</u> 3.1.1 Demonstrate ethical responsibility and social sensitivity in a legal and professional environment										x		x					
3.2. Role in Context																	
3.2.1. Take responsibility for managing complex forensic problems, independently and as a team member													x	x			
3.3. Self- <u>Development</u> 3.3.1. Engage in independent learning and management of ethical issues in the field of Forensic Science															x		x

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
ARAB	102	Arabic Language			3
ENGL	102	English for Academic Writing			3
COMM	105	Public Speaking			3
GENE	120	Islamic Culture			3
GENE	210	UAE Studies			3
		Innovation, Entrepreneurship and			
GENE	340				3
		Sustainability			
GENE	440	Ethics and Professional Responsibility			3
		HAAS ELECTIVES - COMMON CORE (SO	CHOOL REQUIREMEN	TS) - 12 CR	

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
HAAS	102	Media Literacy		ENGL102	3
HAAS	202	Practicing Sustainability		ENGL102	3
HAAS	208	Life and Future Skills		ENGL102	3
HAAS	302	Research Methods and Data Analysis			3
		MAJOR CORE (PROGRAM RE	QUIREMENTS) - 60 C	R	

COURSE	COURSE	COUDSE TITLE	DEDEOLUCITES	CODEQUISITES	CD
CODE	#	COURSE IIILE	PREREQUISITES	COREQUISITES	CR

FRSC	102	Elements of Criminology and Police Administration			3
BIOL	102	Introduction to Forensic Biology and Serology			3
CSIM	102	Fundamentals of Crime Scene Investigatio	n		3
CHEM	102	Introduction to Forensic Chemistry			3
QDFP	202	Introduction to Fingerprint Science			3
FRSC	204	Trace Evidence Analysis			3
QDFP	206	Introduction to Questioned Documents			3
FRSC	302	Introduction to Forensic Psychology			3
CHEM	302	Forensic Toxicology - I			3
DIOI	202	Forensic Anthropology and Personal			2
BIOL	302	Identification			3
BIOL	306	Introduction to Forensic Medicine			3
CHEM	402	Forensic Toxicology - II	Forensic Toxicology - I		3
CSCI	455	Digital Forensics			3
BIOL	312	Wildlife Forensics			3
FRSC	406	Forensic Ballistics			3
BIOL	402	DNA Fingerprinting			3
CHEM	408	Forensic Instrumentation			3
CHEM	416	Arson and Explosive Investigation			3
FRSC	412	Forensic Engineering			3
FRSC	416	Quality management system and accreditation			3
		MA JOB ELECT	TVFS - 15 CR		
		CONCENTRATION REQUIREME	ENTS: Crime Scene		
		Investigation			
COURSE		E COURSE TITLE	PREREQUISITES	COREQUISITES	CR
CODE	#		CSIM102 -		
		Physical Evidence and Expert Witness	Fundamentals of		
CSIM	302				3
		Testimony	Crime Scene		
			Investigation		
CSIM	402	Forensic Photography	CSIMI02 -		3
			Fundamentals of		-
			Crime Scene		
			Investigation		
			CSIM102 -		
CSIM	100	Forensia Evidence Management	Fundamentals of		2
COIM	406	Forensic Evidence Management	Crime Scene		3
			Investigation		
			Investigation CSIM102 -		
CSIM			Investigation CSIM102 - Fundamentals of		2
CSIM	416	Advanced Crime Scene Investigation	Investigation CSIM102 - Fundamentals of		3

			Investigation	
CSIM	422	Incident Management	CSIM102 - Fundamentals of Crime Scene Investigation	3

MAJOR ELECTIVES - 15 CR

CONCENTRATION REQUIREMENTS: Questioned Documents & Fingerprints

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
			QDFP206		
QDFP	302	Handwriting Analysis	Introduction to		302
			Questioned Documents		
			QDFP206		
QDFP	402	Electronic Printers and Ink Analysis	Introduction to		402
			Questioned Documents		
			QDFP206		
QDFP	406	Documents and Security Features	Introduction to		406
			Questioned Documents		
			QDFP202		
QDFP	412	Biometrics	Introduction to		412
			Fingerprint Science		
			QDFP202		
QDFP	416	Dermatoglyphics and other Impressions	Introduction to		416
			Fingerprint Science		

MAJOR ELECTIVES (GENERAL DEGREE WITH NO CONCENTRATION: CHOOSE A MI CREDITS FROM DIFFERENT CONCENTRATIONS) - 15 CR

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
Any Combination of Credi	ts from Offered Con	As per Catalog		15	

OPEN ELECTIVES (CHOOSE 6 CREDITS FROM ANY PROGRAM SUBJECT TO FULFILLING THEIR PREREQUISITES IF ANY) - 6 CR											
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR						
		Open Elective I	As per Catalog		3						
		Open Elective II	As per Catalog		3						

3

PROPOSED SCHEDULE OF DELIVERY

YEAR/SEM	COURSE C COURSE TITLE	OURSI	E PREREQUISITES	COREQUISITES CR CODE	#
YEAR 1	FRSC	102	Elements of Criminolog	gy and Police	ENGL102
			Administration		

FALL	BIOL	102	Introduction to Forensic Biology and		ENGL102	3
	CSIM	102	Fundamentals of Crime Scene		ENCL 102	2
	CSIM	102	Investigation		ENGL102	2
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
						15
SPRING	CHEM	102	Introduction to Forensic Chemistry			3
	QDFP	202	Introduction to Fingerprint Science			3
	HAAS	102	Media Literacy			3
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
						15
YEAR 2	FRSC	204	Trace Evidence Analysis			3
FALL	QDFP	206	Introduction to Questioned Documents			3
	FRSC	302	Introduction to Forensic Psychology			3
	HAAS	202	Practicing Sustainability			3
	GENE	210	UAE Studies			3
SPRING	CHEM	302	Forensic Toxicology - I			15 3
			Forensic Anthropology and Personal			-
	BIOL	302	Identification			3
	BIOL	306	Introduction to Forensic Medicine			3
	HAAS	208	Life and Future Skills			3
			Open Elective 1			3
						15
				Forensic Toxicology -		10
YEAR 3	CHEM	402	Forensic Toxicology - II	Ι		3
FALL	CSCI	455	Digital Forensics			3
	BIOL	312	Wildlife Forensics			3
	HAAS	302	Research Methods and Data Analysis			3
	GENE	340	Innovation, Entrepreneurship and			3
			Sustainability			
						15
SPRING	FRSC	406	Forensic Ballistics			3
	BIOL	402	DNA Fingerprinting			3
	CHEM	408	Forensic Instrumentation			3
	CHEM	416	Arson and Explosive Investigation			3
	FRSC	412	Forensic Engineering			3
						15
INTERNSHIP	HAAS	340	Internship	60 CR		3
						3

YEAR 4	FRSC	416	Quality management system and accreditation	3
FALL	GENE	440	Ethics and Professional Responsibility Major Elective 1 Major Elective 2 Major Elective 3	3 3 3
			Major Elective 5	5
SPRING	HAAS	450	Project	$\frac{15}{3}$
SPRING	HAAS	450	Project Major Elective 4 Major Elective 5 Open Elective 2	15 3 3 3 3

19.3.6 Bachelor of Science Psychology

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Science Psychology at Amity University Dubai aims at:

- (G1) Develop fundamental knowledge and understanding of traditional and contemporary theories in Psychology.
- (G2) Develop the skills of intellectual inquiry and ethical practice through experiential and researchbased approaches within the discipline of Psychology.
- (G3) Build the student's ability to independently apply their knowledge and experience in working effectively with a diverse range of individuals and groups through interdisciplinary collaborations and assessments and diagnosis.

PROGRAM LEARNING OUTCOMES (PLO)

Upon successful completion of the Bachelor of Science Psychology program, the students should be able to:

1. Knowledge

- 1.1. Demonstrate knowledge and understanding of the fundamental principles and theories in Psychology.
- 1.2. Explain solutions scientifically using psychological knowledge and research methodology.

2. Skills

- 2.1. Apply basic psychological assessment skills to identify the social and cultural impacts on human behavior.
- 2.2. Use skills of counseling, critical thinking, inquiry, and effective communication in providing solutions to manage the complexities of human behavior.

3. Competences

3.1. Autonomy and Responsibility

- 3.1.3. Take responsibility to independently manage psychological projects within a diverse team.
- 3.4. Self-development
- 3.4.1. Pursue lifelong learning in various domains of psychology.
- 3.5. Role in context
- 3.5.1. Be responsible for developing a sense of personal, social, professional, cultural, and ethical competence.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

QFEMIRATES	1. Knowledge					2. Skills				3. Competence										
• •										3.1. R	Autor	nomy nsibili	and tv	3	.2. F Con	Role ii text	ז	3 De	.3. Se velopn	elf nent
	A 1	A 2	A 3	A A B B B C							C	C1	C1 1							
	specialized factual and theoretical knowledge and an understanding - of the boundaries in a field of work or discipline. encompassing a	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional disciplines	understanding of critical approach to the creation and compilation of c a systematic and coherent body of knowledge and concepts gained	a comprehensive understanding of critical analysis, research	familiarity with sources of current and new research and knowledge c with integration of concepts from outside fields	technical, creative, and analytical skills appropriate to solving specialised problems using evidentiary and procedural based	evaluating, selecting, and applying appropriate methods, procedures, or techniques in processes of investigation towards identified	evaluating and implementing appropriate research tools and strategies associated with the field of work or discipline	highly developed advanced communication and information technoloαv skills to present. explain and/or criticiue complex and	can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and unpredictable	can manage technical, supervisory or design processes in unpredictable. unfamiliar, and varving contexts	can work creatively and/or effectively as an individual, in team cleadership, managing contexts, across technical or professional	can express an internalised, personal view, and accept responsibility # to societv at large and to socio-cultural norms and relationships	can function with full autonomy in technical and supervisory contexts c and adopt para-professional roles with little guidance	can take responsibility for the setting and achievement of group or dindividual outcomes and for the management and supervision of the	can participate in peer relationships with qualified practitioners and lead multiple. complex aroups	can take responsibility for managing professional development and direct mentoring of individuals and groups	can self-evaluate and take responsibility for contributing to professional practice. and undertake regular professional	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards
<u>1. Knowledge</u> 1.1. Demonstrate knowledge and understanding of the fundamental principles and theories in Psychology.	x		x																	
1.2. Explain solutions scientifically using psychological knowledge and research methodology.		x		x																
2. Skills 2.1. Apply basic psychological assessment skills to identify the social and cultural impacts on human behavior.							x	x												

QFEMIRATES [L7]		1. Knowledge					2. Skills				3. Competence									
										3.1. Autonomy and 3.2. Role in 3.3.					3.3. S	əlf				
	_	-	-	L .	L .	_	_	_	_	K	respoi	nsıbili	ty	_	Cor	itext	_	De	velopn	nent
	A 1	A 2	A 3	A 4	A 5	В 1	В 2	В 3	В 4	C 1	C 2	C 3	C 4	C 5	С 6	С 7	C 8	C 9	C1 0	C1 1
2.2. Use skills of counseling, critical thinking, inquiry, and effective communication in providing solutions to manage the complexities of human behavior.						x			x											
3. Competence 3.1. Autonomy and Responsibility 3.1.1. Take responsibility to independently manage psychological projects within a diverse team.										x		x								
3.2. Self- <u>Development</u> 3.2.1. Pursue lifelong learning in various domains of psychology.																		X	X	
3.3. Role in <u>Context</u> 3.3.1. Be responsible for developing a sense of personal, social, professional, cultural, and ethical competence.														x	x					x

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR COURSE CODE COURSE # COURSE TITLE

COURSE CODE	COURSE #	_COURSE TITLE	PREREQUISITES	COREQUISITES	CR
ARAB	102	Arabic Language			3
ENGL	102	English for Academic Writing			3
COMM	105	Public Speaking			3
GENE	120	Islamic Culture			3
GENE	210	UAE Studies			3
GENE	340	Innovation, Entrepreneurship and Sustainability			3
GENE	440	Ethics and Professional Responsibility			3

HAAS ELECTIVES - COMMON CORE (SCHOOL REQUIREMENTS) - 12 CR COURSE CODE COURSE # COURSE TITLE I COURSE CODE

COURSE CODE COURSE #		_COURSE TITLE	PREREQUISITES	COREQUISITES	CR
HAAS	102	Media Literacy		ENGL102	3
HAAS	202	Practicing Sustainability		ENGL102	3
HAAS	208	Life and Future Skills		ENGL102	3
HAAS	302	Research Methods and Data Analysis			3

MAJOR CORE (PROGRAM REQUIREMENTS) - 60 CR

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR	
PSGP	101	General Psychology		ENGL102	3	
PSGP	103	Introduction to Behavioral Neuroscience			3	
PSGP	105	Theoretical Paradigm of Psychology		ENGL102	3	
PSCL	201	Psychological Testing and Assessment			3	
PSGP	203	Developmental Psychology		ENGL102	3	
PSGP	205	Cognitive Psychology	PSGP 101		3	
PSCO	207	Ethics in Psychology, Research and Practice			3	
PSGP	303	Applied Statistics				
PSGP	305	Introduction to Child Psychology	PSGP 203		3	
PSAP	307	Personality Psychology	PSGP 101		3	
PSAP	309	Organizational Psychology	PSGP 101		3	
PSAP	311	Educational Psychology	PSGP 203			
PSCL	405	Psychopathology	PSGP 305		3	
PSAP	407	Health Psychology	PSAP 307		3	
PSCL	411	Introduction to Psychotherapeutic	PSCL 405		3	
DSCD	412	Developer of Motivation and Londorship	DS A D 200		2	
rour	415		F SAP 309		3	
PSCO	415	Counseling and Interviewing Skills	PSAP 307		3	

PSAP	417	Social and Community Psychology	3
PSCO	419	Positive Psychology Interventions and	3
PSCO	421	Psychology of Exceptional Children	3

MAJOR ELECTIV	ES - 15 CR				
COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
FRSC 302		Introduction to Forensic Psychology			3
PSAP	427	Psychology of Creativity			3
PSGP	429	Climate and Environmental Psychology			3
PSAP	431	Coaching Psychology			3
PSAP	435	Sports and Performance Psychology			3

OPEN ELECTIVES (CHOOSE 6 CREDITS FROM ANY PROGRAM SUBJECT TO FULFILLING THEIR PREREQUISITES IF ANY) - 6 CR

COURSE CODE COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES CR	
Open Elective I	As per Catalog	3		
Open Elective II	As per Catalog	3		

PROPOS	SED SCHE	DULE OF	DELIVERY			
YEAR/S	COURSE	COURS	COURSE TITLE	PREREQUIS	COREQU	CR
EM	CODE	E #		ITES	ISITES	
YEAR 1	PSGP	101	General Psychology		ENGL102	3
FALL	PSGP	203	Developmental Psychology		ENGL102	3
	PSGP	105	Theoretical Paradigm of		ENGL102	3
			Psychology			
	ENGL	102	English for Academic Writing			3
	GENE	120	Islamic Culture			3
						15
SPRING	PSCL		Psychological Testing and			
			Assessment			3
	PSGP	201	Introduction to Behavioral			
		201	Neuroscience			3
	HAAS	103	Media Literacy			2
	COMM	105	Public Speaking			3
	ARAB	102	Arabic Language			3
		102	0 0			3
		102				
						15
YEAR 2	PSGP		Cognitive Psychology			
FALL	PSCO		Ethics in Psychology, Research		PSGP 101	3
		205	and Practice			3
	PSGP	207	Introduction to Child		PSGP 203	
		205	Psychology			3
	HAAS	305	Practicing Sustainability			2
	GENE	201	UAE Studies			3
		201				3
		210				15
CDDDC						15
SPRING	PSAP		Personality Psychology		DSCD 101	3
	PSAP	307	Organizational Psychology		PSGP 101	3
	PSAP	309	Life and Eutona Skills		PSGP 203	3
	пааз	311	Open Elective 1		1561 205	3
		208	Open Elective I			3
						c c
						15
YEAR 3	PSCL	405	Psychopathology			
FALL	PSGP	303	Applied Statistics		PSGP 305	3
	PSCO	421	Psychology of Exceptional			3
			Children			3
	HAAS	302	Research Methods and Data			2
	CENE		Analysis			3
	GENE	340	Innovation, Entrepreneurship and	1		3
			Sustainability			-
						15
SPRINC	ΡςΔΡ	407	Health Psychology			
OT MINU	PSAP	407	Psychology of Motivation and		PSAP 307	3
	1 5/11	413	Leadershin		PSAP 309	3
	PSCO	415	Counseling and Interviewing		-	
		110	Skills		PSAP 307	3
	PSAP	417	Social and Community			-
			Psychology			3
	PSCO	419	Positive Psychology			2
			Interventions and Applications			3
			rr			

					15
INTERN SHIP	HAAS	340	Internship	60 CR	3
					3
YEAR 4	PSL		Introduction to	DSCI 404	3
FALL	GENE	411	Psychotherapeutic Interventions Ethics and Professional	PSCL 40.	5
			Responsibility		3
		440	Major Elective 1		3
			Major Elective 2		3
			Major Elective 3		3
					15
SPRING			Project		
			Major Elective 4		3
			Major Elective 5		3
			Open Elective 2		3
					3
					12
				,	AMITY UNIVERSITY DUBAI 97
					120

19.3.7 Bachelor of Digital Media and Communications

EDUCATIONAL AIM OF THE PROGRAM

The Bachelor of Digital Media Communications at Amity HAAS Dubai aims at:

- (G1) Develop an understanding of the relationship between media and society through relevant theories and mass communication processes as they relate to contemporary issues
- (G2) Provide guidance towards best media practices in local and global contexts in view of fostering sustainable and responsible environments
- (G3) Equip students with the skills necessary for ethical and mindful newsgathering, digital media content creation, and content dissemination across all media platforms

PROGRAM LEARNING OUTCOMES (PLOs)

Upon successful completion of the Bachelor of Digital Media and Communications, the students should be able to:

1. Knowledge

- 1.1 Demonstrate knowledge of mass media concepts, production processes, approaches, and theories.
- 1.2 Integrate a systematic understanding of the diverse allied disciplines in creating multimedia stories.

2. Skills

- 2.1 Use software applications and equipment to create, record, and edit media content.
- 2.2 Apply research methods to gather information from credible sources and present it ethically in print and audiovisual forms.
- 2.3 Summarize complex arguments and communicate them effectively on varied platforms.

3. Competences

3.1 Autonomy and Responsibility

- 3.1.1. Work efficiently as an individual or in team settings to produce creative media outputs using the latest media technologies.
- 3.1.2. Perform a variety of roles connected with media productions on different platforms

3.2 Role in context

- 3.2.1. Take responsibility for adopting paraprofessional roles in a given social and cultural context.
- 3.2.2. Can participate in peer relationships with qualified practitioners and lead multiple complex groups.

3.3 Self-Development

3.3.1. Take responsibility to contribute toward professional practice and undertake further learning.

Mapping (PLOs) to National Qualifications Framework (NQF)

The following matrix illustrates the link of Program Learning Outcomes to the National Qualifications Framework strands.

QFEMIRATES [L7]		1. Knowledge 2. Skills						kills		3. Competence										
• •																				
										3.1.	Autor	nomy	and	3	8.2. F	Role ir	1	3	3.3. S	elf
										R	espoi	nsibilit	ty	Context				De	velopn	nent
	Α	Α	Α	Α	Α	В	В	В	В	С	Ċ	С	С	С	С	С	С	С	C1	C1
	1	2	3	4	5	1	2	3	4	1	2	3	4	5	6	7	8	9	0	1
1. Knowledge	specialized factual and theoretical knowledge and an understanding of the boundaries in a field of work or discipline, encompassing a broad and coherent body of knowledge and	an understanding of allied knowledge and theories in related fields of work or disciplines and in the case of professional disciplines including related regulations. standards. codes.	understanding of critical approach to the creation and compilation of a systematic and coherent body of knowledge and concepts gained from a range of sources	a comprehensive understanding of critical analysis, research systems and methods and evaluative problem-solving techniques	familiarity with sources of current and new research and knowledge with integration of concepts from outside fields	technical, creative and analytical skills appropriate to solving specialised problems using evidentiary and procedural based processes in predictable and new contexts that include	evaluating, selecting and applying appropriate methods, procedures or techniques in processes of investigation towards identified solutions	evaluating and implementing appropriate research tools and strategies associated with the field of work or discipline	highly developed advanced communication and information technology skills to present, explain and/or critique complex and unpredictable matters	can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and unpredictable work procedures and processes. resources or	can manage technical, supervisory or design processes in unpredictable, unfamiliar and varving contexts	can work creatively and/or effectively as an individual, in team leadership, managing contexts. across technical or professional activities	can express an internalised, personal view, and accept responsibility to society at large and to socio-cultural norms and relationships	can function with full autonomy in technical and supervisory contexts and adopt para- professional roles with little αuidance	can take responsibility for the setting and achievement of group or individual outcomes and for the management and supervision of the work of others or self in the case of a	can participate in peer relationships with qualified practitioners and lead multiple, complex aroups	can take responsibility for managing the professional development and direct mentoring of individuals and aroups	can self-evaluate and take responsibility for contributing to professional practice, and undertake regular professional development and/or further learning	can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	can contribute to and observe ethical standards

QFEMIRATES [L7]	1. Knowledge				2. Skills			3. Competence												
										31	Auto	าดทาง	and		32 1	Role ii	n	3.3. Self		
										0.7. R	espoi	nsibili	ty	,	Con	text	'	De	velopn	nent
	A	A	A	A	A	B	B	B	B	C 1	C	C	C	C	C	C	C	C	C1	C1
1.1 Demonstrate knowledge of mass media concepts, production processes, approaches, and theories	x	x	5	-	5		2	5				5		5	0		0	5	0	
1.2. Integrate a systematic understanding of the diverse allied disciplines involved in creating multimedia stories.		x	x																	
2. Skills 2.1 Use software applications and equipment to create, record, and edit media content.						x	x	x												
2.2 Apply research methods to gather information from credible sources and present it ethically in print and audiovisual forms.							x													
2.3 Summarize complex arguments and communicate them effectively on varied platforms.							x	x												
3. Competence 3.1. Autonomy and <u>Responsibility</u> 3.1.1. Work efficiently as an individual or in team settings to produce creative media outputs using the latest media technologies.											x	x								
3.1.2. Perform a variety of roles connected with media productions on different platforms															x	x				
Role in Context: 3.2.1 Take responsibility for adopting paraprofessional roles in a given social and cultural context.															x		x			
3.2.2 Can participate in peer relationships with qualified practitioners and lead multiple complex groups.																x	x			
<u>3.2. Self-</u> Development																				

QFEMIRATES [L7]	1. Knowledge						2. S	kills		3. Competence										
										3.1. F	Auto Respo	nomy nsibili	and ty	3	3.2. F Con	Role il ntext	n	: De	3.3. Sevelopn	elf nent
	Α	Α	Α	Α	Α	В	В	В	В	С	Ċ	С	C	С	С	С	С	С	C1	C1
	1	2	3	4	5	1	2	3	4	1	2	3	4	5	6	7	8	9	0	1
3.3.1 Take responsibility to contribute toward professional practice and undertake further learning.															x			x		

PROGRAM STRUCTURE

GENERAL EDUCATION (UNIVERSITY REQUIREMENTS) - 21 CR

COURSE CODE	<u>COURSE</u> #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR	
ARAB	102	Arabic Language			3	
ENGL	102	English for Academic Writing			3	
COMM	105	Public Speaking			3	
GENE	120	Islamic Culture			3	
GENE	210	UAE Studies			3	
GENE	340	Innovation, Entrepreneurship and			3	
		Sustainability				
GENE	440	Ethics and Professional Responsibility			3	
	НА	AS ELECTIVES - COMMON CORE (SCH	IOOL REQUIREMENTS	S) - 12 CR		
COURSE CODE	COURSE	<u>#_</u> COURSE TITLE	PREREQUISITES	COREQUISITES	CR	
HAAS	102	Media Literacy		ENGL102	3	
HAAS	202	Practicing Sustainability		ENGL102	3	
HAAS	208	Life and Future Skills		ENGL102	3	
HAAS	302	Research Methods and Data Analysis			3	
		COMMON CORE (DEPARTMENT R	EQUIREMENTS) – 15 C	R		
COURSE	COURSE #	COURSE TITLE	PREREOUISITES	COREOUISITES	CR	
CODE						
MDIA	101	Introduction to Storytelling			3	
MDIA	102	Basics of Camera Techniques			3	
MDIA	201	Post-production for Moving Images			3	
MDIA	203	Advertising			3	
MDIA	207	Media Ethics, Laws, and Regulations			3	

MAJOR CORE (PROGRAM REQUIREMENTS) – 45 CR

COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITES	COREQUISITES	CR
BDMC	101	Understanding Media		ENGL102	3
BDMC	201	Writing for Print			3
FILM	202	Digital Photography			3
BDMC	301	Radio Programming and Production			3
ANIM	302	Graphic Design			3
BDMC	304	Public Relations and Corporate Communication			3
BDMC	308	Media and Society			3
FASH	435	Digital Marketing			3
BDMC	312	Social Media and Content Creation			3

BDMC	316 0	Global Media and Culture			3	
BDMC	401 C	Communication for Development				
BDMC	405 H	Emerging Media Platforms	and Audiences			3
BDMC	410 U	Jrban Radio and Podcastin	g			3
BDMC	415 N	Multimedia Campaigns				3
FILM	405	Advertising & Corporate MAJ	Film Production	- 15 CR		3
COURSE CODE	COURSE #	COURSE TITLE		PREREQUISITES	COREQUISITE S	CR
BDMC	418	Principles of Converger	nt Journalism			3
BDMC	421	News Anchoring and P	ackaging			3
BDMC	425	News Gathering and Me	edia Technologies			3
BDMC	426	Lifestyle Journalism				3
BDMC	429	Non-Fiction / Documen	tary Filmmaking			3
OPEN ELECTIVH - 6 CR COURSE CODE CO	ES (CHOOSE 6 OURSE #	CREDITS FROM ANY	PROGRAM SUBJ REREQUISITES	ECT TO FULFILLING COREQUISITI	G THEIR PREREQUI ES CR	SITES IF ANY)
	Open Elective I	As per Catalog	3			
	Open Elective II	As per Catalog	3			

Open Elective IAs per CatalogOpen Elective IIAs per Catalog

PROPOSED SCHEDULE OF DELIVERY

YEAR/SEM	COURSE CODE	COURSE #	COURSE TITLE	PREREQUISITE S	COREQUISITE S	CR
YEAR 1	MDIA	101	Introduction to Storytelling		ENGL102	3
FALL	MDIA	105	Basics of Camera Techniques		ENGL102	3
	BDMC	101	Understanding Media		ENGL102	3
	ENGL	102	English for Academic Writing			3
						15
	GENE	120	Islamic Culture			
SPRING	BDMC	201	Writing for Print			3
	MDIA	201	Postproduction for moving images			3
	HAAS	101	Media Literacy			3
	COMM	105	Public Speaking			3
						<u> </u>
	ARAB	102	Arabic Language			
YEAR 2	MDIA	203	Advertising			3
FALL	FILM	202	Digital Photography			3
	BDMC	301	Radio Programming and Production			3
	HAAS	201	Practicing Sustainability			3
						3
	GENE	210	UAF Studies			15
	GLAD	210	OTHE Studies			
SPRING	MDIA	207	Media Ethics, Laws, and Regulations			3

	ANIM	302	Graphic Design	3
	PDMC	204	Public Relations and Corporate	3
	BDIVIC	504	Communication	
	HAAS	204	Life and Future Skills	3
			Open Elective 1	
YEAR 3	BDMC	308	Media and Society	3
FALL	FASH	435	Digital Marketing	3
	BDMC	312	Social Media and Content Creation	3
	HAAS	301	Research Methods and Data Analysis	3
	GENE	340	Innovation, Entrepreneurship and Sustainability	3
			Sustainaointy	15
SPRING	PDMC	216	Global Modia and Cultura	3
STILLIO	BDMC	316		
	BDMC	401	Communication for Development	3
	BDMC	405	Emerging Media Platforms and Audiences	3
	BDMC	410	Urban Radio and Podcasting	3
				3

15

3

						15
INTERNSI P	HI		Internship	60 CR		3
	BDMC	415	Multimedia Campaigns			
	HAAS	340				
YEAR 4	FILM	405	Advertising & Corporate Film Production		ENGL102	3
FALL	GENE	440	Ethics and Professional Responsibility		ENGL102	3
			Major Elective 01			3
			Major Elective 02			3
			-			3
						15
			Major Elective 03			
SPRING						
			Project			3
			Major Elective 04			3
			Major Elective 05			3
						3
						12

Open Elective

20 Faculty-List

Amity Business School Faculty

Dr. Elie Menassa

Dean of Amity Business School Ph.D. in Accounting and Finance - Leicester Business School, De Montfort University, Leicester, United Kingdom

Dr. Adel Ahmed Professor

Ph.D. in Accounting and Finance - Liverpool Business School, Liverpool JM University, UK

Prof. Mehrdad Mohasses

Professor Masters of Education - University of Southern Queensland, Australia

Dr. Shahzia Khan

Associate Professor Ph.D in Marketing - MJP Rohilkhand University, India

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Associate Professor Ph.D in Organizational Development - JRN University, Udaipur, India

Dr. Ashok Chopra

Associate Professor Ph.D in Logistics and Supply Chain - Banasthali University Jaipur, India

Dr. Ankita Rajdev

Assistant Professor Ph.D in Management, Barkatullah University, India

Dr. Kamaladevi Baskaran

Assistant Professor Ph.D in Marketing - Bharathiar University, India

Dr. Swapna Nair

Assistant Professor Ph.D in Mathematics, Visvesvaraya Technological University,India

Dr. Swamynathan Ramakrishnan

Assistant Professor Ph.D in Supply Chain Management, Bharathiar University, India

Dr. Alaa Abdalla

Assistant Professor Ph.D in Sustainable Development and Management, Universiti Sains Malaysia, Malaysia

Dr. Shaista Alvi

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Mr. Gary Smith Assistant Professor Masters in Marketing - University of South Wales, UK

Ms. Nisha Pai Lecturer Chartered Accountant & Masters in Commerce - Mumbai University, India

Dr. Ruhi Sethi Assistant Professor Ph.D. Management - Amity University Uttar Pradesh, Noida India

Dr. Shabir Ahmad Hakim

Assistant Professor PhD in Business Administration - International Islamic University Malaysia

Dr. Nancy Bouchra Hanna

Assistant Professor Ph.D in Strategic Management - The German University in Cairo

School of Engineering, Architecture and Interior Design

Dr. Ramachandran Anand Kumar Dean of School of Engineering, Architecture and Interior Design PhD in Electrical and Computer Engineering- Rice, University, USA

Dr. Vinod Kumar Shukla

Associate Professor

Ph.D in Information Technology, Mewar University, India

Dr. Swaroop R

Associate Professor Ph.D in Electrical and Electronics Engineering, Jadavpur University, India

Dr. Ved Prakash Mishra

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Dr. Jihene Mrabet

Assistant Professor Ph.D. in Clinical Psychology, University of Rouen Normandie, France

Dr. Malini Bishnoi

Assistant Professor Ph.D. in Sociology, Delhi University, India

Mr. Michael Lohan

Assistant Professor MA ELT & Applied Linguistics, Kings College London, UK

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Ms. Mona Abdallah

Lecturer Masters in Multimedia Design, Brunel University London, UK

Ms. Nilam Khunti

Lecturer Masters in Fashion & Marketing, ESMOD Dubai, UAE

Ms. Palak Jagtiani

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Ms. Rania Mahmoud

Lecturer Masters in Arabic & Islamic Studies, International Islamic University, Egypt Pursuing Ph.D. from International Islamic University, Egypt

Mr. Robert Studholme

Lecturer Masters in Applied Linguistics, University of Southern Queensland, Australia

Mr. Robin Sharma

Lecturer MBA in Hospitality & Tourism, SBS Swiss Business School, UAE Pursuing Ph.D. from Banasthali University, India

Mr. Sambhram Pattanayak

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21 Course Descriptions

ARAB 102 Arabic Language

The Arabic language is a popular and the fifth largest spoken language worldwide. It contributes to understanding culture and people, and increases job opportunities. This course is designed to develop an understanding of Arabic to help students communicate confidently with others, and to equip them with the skills needed in a variety of situations by promoting the four language skills, namely, reading, writing, speaking and listening, by acquiring day to day words of common parlance and expressions in addition to some grammatical rules through a combination of lectures and interactive elements, such as group work, in-class exercises, conversations and audiovideo aids.

COMM 105 Public Speaking

Civility and ethical speech are the foundations of effective public interaction. The course emphasises the practical skill of public speaking, including techniques to lessen speaker's anxiety, and the use of visual aids to enhance delivery. The course is heavily practice-oriented and has been designed to develop the skills of speech-making through class discussions, group work, presenting papers, and giving seminars.

ENGL 102 English for Academic Writing

Writing persuasively is a fundamental skill required by students throughout their academic and professional career. Students learn to identify and use persuasive language, summarize, paraphrase, and read and write critically. Additionally, they learn to compose and construct well-written pieces of composition that meet the requirements of the university's curricula. Through group activities, discussion, debate, and analysis of authentic writings, students apply and demonstrate their understanding of language competency.

GENE 120 Islamic Culture

Islamic Culture is one of the richest cultures in the world and reflects tolerance in diversity. Students realize key beliefs and practices of Islam, the broad spectrum of cultural and social diversity, and gain skills which they apply across different fields. It also discusses social values, ethics and human rights and highlights the contribution of

Islamic civilization to human civilization in general. It also provides an understanding of Islamic tolerance and connection to all nations based on moderate non-extremist approach. Course teaching methodologies like: Presentations, discussions, audio-video aids, storytelling and group projects are used.

GENE 210 UAE Studies

UAE is a unique cohesive society that is inclusive of all, while preserving its culture, heritage and traditions. Students acknowledge the UAE identity, and appreciate the history and achievements of Emirati culture through the social moorings of the community and its values. It covers a variety of important fields related to the UAE history, geography, political economy, social responsibility, women empowerment, and highlights the UAE tolerance, liberal approach and position in the global competitiveness through class discussions, storytelling, documentary films, project-based learning and other teaching methodologies.

GENE 440 Ethics and Professional Responsibility

Ethically sensitive employees are valuable to creating socially responsible workplaces and improved business outcomes. It also helps equip students to develop an overarching ethics-based approach to professional conduct. The course examines changing societal demands and expectations and elaborates on existing ethical norms and practice. The course offers insight into relationship of ethics and professions, ethical nuances of employee relationship, whistleblowing and women and family issues in professional settings. Through case studies, current events, open discussions and debates students address the concept of professional ethics.

GENE 340 Innovation, Entrepreneurship and Sustainability

The need, significance and movement for sustainable practices around the world is driven by the policies, practices and the spirit of innovation and entrepreneurship transcending business size and industry. Students explore the relationship between creativity, innovation, entrepreneurship and sustainability using techniques and concepts such as the lean canvas, design thinking, MVP (minimum viable product) ideation, incubation and the acceleration of business ideas and concepts. Through a combination of case studies, research, group projects, interactive discussions, seminars, activities and role play the students develop the ability to recognize, create and deliver sustainable innovative solutions to a complex global market.

ACCT 220 Managerial Accounting

Cost and Management accounting is essential for assessing business performance and management decision making. The students garner knowledge of different cost accounting tools, techniques, and methods and their practical applications. In addition, the students develop budgetary control skills and the awareness of recent trends and developments in cost and management accounting. The pedagogy will focus on class discussions, lectures, assignments, case studies illustrating real-life business situations and solving numerical. *Pre-Requisite(s): ACCT110*

ACCT 230 Audit and Assurance

Auditors play a significant role in the true and fair disclosure of a corporation's financial performance and position. Students gain an in-depth understanding of the auditing concepts and standards, role and responsibility of auditors (including legal liability), regulation of audit function, audit evidence and risk-based approach to auditing. Classroom lectures, individual and group activities, case studies, role-plays, debates, and discussions are used to help students appreciate the role of auditors.

Pre-Requisite(s): ACCT 120

ACCT 320 Forensic Accounting Analytics

The early detection of accounting frauds has become increasingly important in the aftermath of major accounting scandals over the past two decades. Students learn a spectrum of computer-assisted analytics techniques used to detect frauds in large accounting data sets. The pedagogical approach used in this course includes in-class discussions, problem-based case studies, computer-based analysis, and projects based on real accounting data. *Pre-Requisite(s): ISYS 110; QMET 110; ACCT 120*

ACCT 330 Taxation I

Taxation is a means to fund public services and ensure social equity. Students will be acquainted with the basic principles underlying direct tax laws and their application in various business situations. The teaching and learning focus on class discussions, lectures, problem solving, and tax cases illustrating real-life tax issues. *Pre-Requisite(s): ACCT 110*

ACCT 340 Taxation II

Ethical compliance with direct and indirect tax obligations is required by the Law. Students are introduced to the scope of inheritance, coporation, and value added taxes as well as their appropriate application in business contexts. Teaching and learning focus on class discussions, lectures, assignments, case studies, and analysis of real-life taxation issues.

Pre-Requisite(s): ACCT 330

ACCT 345 Accounting Information Systems

Accountants use information technology in recording, analyzing, and reporting financial information to internal and external users of accounts. Students assess the role of Accounting Information Systems (AIS) in business contexts and learn how these systems contribute to data modelling and managing business processes. Moreover, students are introduced to emerging technologies including automation and artificial intelligence as well as to how to evaluate and audit AIS. Hands-on sessions, case studies focusing on the application of information technology, and projects are used to deliver the course.

Pre-Requisite(s): ACCT 110, ISYS 110

ACCT 350 Corporate Governance

Effective corporate governance fosters transparency and accountability and aids in avoiding major financial disasters. Students learn about ownership structures, regulatory guidelines, corporate social responsibility and overall principles and practices of corporate governance. Through case studies, group and individual assignments, debates, and role-play, the students learn to appreciate and imbibe globally accepted best practices in Corporate Governance.

Pre-Requisite(s): ACCT 340

ACCT 360 Intermediate Financial Accounting

International Financial Reporting Standards (IFRS) make the financial statements of public companies consistent and comparable around the globe. The students gain a working knowledge of the accounting standards—IFRS, GAAP—and their comparative characteristics. They also develop skills in applying IFRS and underlying theoretical framework in the preparation of financial statements of business entities. Class lectures, assignments, case studies and practice questions are used to demonstrate the application of IFRS and strengthens students' knowledge of financial accounting.

Pre-Requisite(s): ACCT 120

ACCT 430 Advanced Financial Accounting

The main emphasis of this course is on the application of advanced accounting concepts and techniques to situations dealing with business combinations and consolidated financial statements. The students gain in-depth understanding of the parent company-subsidiaries relationships and the different methods for arranging business combinations. Inter-company transactions, hedging foreign exchange risk accounting, translation of foreign currency financial statements, as well as contemporary accounting diversity issues, are some of the topics covered in this course. problem solving, cases and class discussions, are used to help students understand the application of the course contents. *Pre-Requisite(s): ACCT 360*

ACCT 440 Advanced Audit and Assurance

Stakeholders rely on auditor's judgement to make informed decisions with respect to their relationship with the organization. Students learn the methodology and intricacies of auditing various types of institutions, and how analyse, evaluate and conclude social, cost, management and forensic audit engagements. This is done through classroom lectures, individual and group activities, case studies, role-plays, and debates. *Pre-Requisite(s): ACCT 230*

ACCT 450 Advanced Taxation

Businesses need to understand the impact of major taxes on their revenue line and factor them in their financial decisions. The students apply the knowledge of local and international tax laws towards tax planning of corporates and evaluate the impact of taxation on business revenue. In addition, the students will develop the skills to differentiate between tax avoidance and tax planning. The pedagogy is lectures, assignments, case studies on direct and indirect taxation, and numerical exercises on corporate tax planning. *Pre-Requisite(s): ACCT 340*

BUSN 220 Business Law

Every business should work within the legal framework under which it operates. This course is designed to provide students with an understanding of the fundamentals of business law. It provides an overall working knowledge of the legal framework within which business organizations must operate. The course particularly focuses on the nature and types of business law, including contract, tort, employment, labour, partnership and agency laws. The students will acquire this knowledge through lectures, class discussions, group activities, quiz and presentations.

Pre-Requisite(s): ENGL 102

BUSN 230 Business Communication

Communication skills are important in the market place. Students are introduced to verbal, nonverbal, written, and oral forms of communication. Further, they get trained in specific techniques for delivering presentations and writing reports. Resume writing and interviews are also emphasized. Teaching methodologies include discussions, multimedia aids, and case studies.

Pre-Requisite(s): ENGL 102

BUSN 340 Business Research Methods

Research is key to solving business problems through the application of suitable business methods. Students learn the basic principles of defining research problems, literature review, data collection and analysis using statistical tools and interpretation. Using spreadsheets and SPSS, students analyse and interpret industry problems through project-based learning, case studies and collaborative learning. *Pre-Requisite(s): 45 CR*

BUSN 360 Internship

Industry exposure builds up career aspirations in students and drives them to attain professional goals. The students will be exposed to industry environment for a specific period to build corporate connections, apply theory into practice and understand the industry expectations to develop hard and soft skills. Internship in a specific domain enhances technical and professional skills to succeed in the competitive environment. For internship, students select the domain in consultation with the industry and faculty guide in terms of the academic requirements and compile the internship experience in his report. *Pre-Requisite(s): 60 CREDITS*

BUSN 440 Business Case Analysis & Writing

Complex business problems can be effectively addressed through case-based analysis. Students learn to analyse business cases and report the findings. They will also be introduced to the art of writing business cases. This is done through group activities, case analysis, and writing exercises. *Pre-Requisite(s): 90 CR/H*

BUSN 445 International Legal Frameworks

In a globalized world, businesses grow transnational, operate across borders and need to observe the global trading practices and compliance framework. The students learn international trade procedures and documentation for efficient handling of multinational trade transactions. Through lectures, class discussions, role-plays, group activities and case studies, students get an insight into the complexities of international trade, strategies to resolve them and effectively running a business spread globally across the domestic borders. *Pre-Requisite(s):BUSN220; MGMT340*

BUSN 450 Business Simulation

Simulating real life business situations and operational processes through technology-based pedagogy significantly contributes to preparing students for real-life business challenges. Students learn to coordinate and manage different business functions, particularly marketing, finance, strategy, and operations. Through simulated exercises and projects, individual assignments, and group activities, students practice complex decision-making as a prequel to their entry into the real world of business.

Pre-Requisite(s): MGMT 350

ECON 210 Microeconomic Theory

Determinants of demand and supply and their influence on consumer behaviour are essential to understand the dynamics of various forms of markets and prudent business decision making. The students learn about various forms of markets, theories of consumer behaviour, producer's equilibrium, profit maximisation and pricing of commodities and factors of production. By using case studies and numerical examples, the students gain an insight into making practical business decisions for optimising returns.

Pre-Requisite(s): QMET 110

ECON 310 Macroeconomic Theory

A fair understanding of the fundamental principles governing macroeconomic variables is essential for business practitioners. Students learn to define, measure and critically appraise the fundamental macroeconomic variables like national income, price stability, interest rates, employment of resources, aggregate demand and supply and the overall level of economic activity. Through project-based techniques and group assignments, the students develop an insight into the roles of fiscal and monetary policy in stabilizing an economy within the framework of Classical, Keynesian, and other models of economic growth both in developed and developing economies. *Pre-Requisite(s): ECON 210*

ECON 330 Managerial Economics

Understanding economic theory and its application in management decision-making is fundamental to the survival and growth of a business. Students explore the dynamics of demand and supply from the perspective of individuals and businesses, market arrangements within which enterprises operate, and the impact of business cycles on economic activities. Through class discussions, exercises, and case studies, students gain managerial dimensions of Economics and its application in decision making.

Pre-Requisite(s):ECON310, ECON210

ECON 450 Global Economy

The changes in global economy have significant impact on the everyday life, which affect practically everyone. The students examine the increasing economic interdependence of the nations against a globalized backdrop and learn the significance of trade and capital flows, exchange rates, challenges of balance of payment, factors hindering growth of international trade and the way out. Through case studies, group activities and project-based approaches, the students gain an insight into the forces promoting and impeding global economic development and the required framework within which a sustained growth and development of the global economy may be achieved.

Pre-Requisite(s): ECON 210

ECON 455 Shipping and Documentation

The advancements in the shipping business and documentation have been instrumental in the emergence of the contemporary world trade order. Students gain an in-depth understanding of the components, procedures, and legal provisions of shipping documentation. They learn the role of documentation in identifying permissible imports and duties levied on them. Case studies, flip classes, group activities, and assignments and presentations are used to acquaint the students with the practical aspects of shipping and documentation. *Pre-Requisite(s): MGMT 320*

ECON 460 International Trade

The increased economic integration in recent years had a major impact on the welfare of nations. The purpose of the course is to introduce students to the analytical framework that is used to study international trade and trade policy. After a short introduction to the principles of international trade, students analyse the causes and consequences of international trade and investment. Case studies, lecturing, class debates, and guest lectures by trade and policy experts are used to educate the students about the intricacies and nuances of international trade. *Pre-Requisite(s): ECON 210*

FINE 220 Managerial Finance

All business activities center around the concept of value addition to an organization and working knowledge of the fundamentals of finance is required of the managers across the functional areas in an organization. Students are introduced to the founding concepts of the time value of money, returns and associated risks, valuation of securities used by companies to raise funds, and short- and long-term investment decisions. Practical exercises, case studies and discussions are used to help students build a solid conceptual foundation in financial management.

Pre-Requisite(s): ACCT 120; QMET 110

FINE 230 Corporate Finance

Managing the finance portfolio of a corporate implies complex decision making aimed at maximizing shareholders' wealth. Students get acquainted with investing, financing and pay out decisions as pillars of corporate finance. Through case studies, group activities and numerical assignments students develop an understanding of conceptual and practical aspects of corporate finance. *Pre-Requisite(s)*: FINE 220

FINE 260 Fundamentals of Financial Technology

Financial Technology (FinTech) has pervaded all spheres of the financial world and transformed the way financial institutions and markets operate. Students learn the fundamentals of the main components of Fintech such as cryptocurrencies, blockchain, and machine learning and their role in the contemporary financial world. Discussions, case studies, and assignments on the use of Fintech are used as pedagogical tools for the delivery of the course.

Pre-Requisite(s): ISYS 110

FINE 310 Financial statement Analysis

Managers' ability to make strategic financial decisions depends on a thorough analysis of the financial statements of firms using relevant financial tools. Students learn about tools and techniques used to analyze financial statements, the quality of reported reporting, and credit and security analysis. Discussions, group work, reviews financial reports of, and case studies will be used for content delivery. *Pre-Requisite(s): ACCT 120*

FINE 320 Investment Analysis

Investments in financial markets contribute to capital formation and growth of an economy. Students explore topics such as dynamics of financial markets, security market indexes and valuation of securities using fundamental and technical analytical tools. Also, they learn how to formulate investment strategies that help individuals and institutions to achieve their investment objectives. Through in-class discussions, case studies and market simulation exercises, students develop a strong foundation in tools and techniques used in investment analysis.

Pre-Requisite(s): FINE 220

FINE 330 Commercial Banking

Banks are major growth partners in any economic system. The unavoidable dependence of individuals and institutions on banks makes the understanding of commercial banking essential for a student of finance for transacting with banks and also for seeking a rewarding career in banking. Students are acquainted with the role and major functions of commercial banks, their expertise in working capital finance and various other products and services they offer to their clientele in general. Through case studies, group activities and simulation exercises, the students learn the nuances of commercial banking. *Pre-Requisite(s): ACCT 110*

FINE 340 Financial Markets and Institutions

Financial markets and institutions bring together the economic agents with varied financial and investment objectives to facilitate efficient flow of funds for the benefits of all participants. The students learn the distinguishing characteristics of different types of financial institutions, financial markets and the instruments trade thereon, and the key performance ratios for the analysis of bank and insurance companies. The primary methods of course delivery are classroom exercises, quizzes, case study, projects and lectures. *Pre-Requisite(s): FINE 220*

FINE 350 Financial Simulation

Computer technology has transformed the landscape of the financial world by facilitating instantaneous access to information and providing sophisticated data modelling tools. Students gain expertise in using computer technology to perform a range of financial tasks including planning use of money over different time periods, analyzing risk and return feature of individual assets and portfolios, financial forecasting, and planning long-term capital investments. Hands-on sessions, case studies, and projects based on real data are used to deliver the content.

Pre-Requisite(s): ISYS 110, FINE 320

FINE 410 Finance and Tax Strategies for Family Business

Growth of entrepreneurial firms depends massively on their ability to access and secure funds. Students explore the different financing options that can help entrepreneurs scale up their business operations, including venture capitalists, angel investors, loans, crowdfunding, leasing and strategic partners. They also learn how to develop pro-forma financial statements and proper company valuation to obtain investments and improve its terms. Through case studies, in-class discussions and exercises, students grasp the financing process and cycles of smallmedium firms that; if effectively implemented; can nurture their growth. *Pre-Requisite(s): BUSN 220; FINE 220*

FINE 430 Financial Risk Management

The nature of risks and the tools used to manage them are becoming increasingly similar among diverse types of financial institutions like commercial banks, savings banks, investment banks, and insurance companies. The students gain an insight into the nature and management of financial risks that emanate from the markets, modes of financing, local and internal business operations, and evolving technology. Through case studies, simulation exercises, and projects based on real life situations, the students gain thorough understanding of the dynamics of financial risk management. *Pre-Requisite(s): FINE 220*

FINE 450 Advanced Corporate Finance

Corporate finance in its advanced version incorporates theories and policies for evaluation and analysis of financial strategies pursued by the corporations. Students are acquainted with the techniques of long-term capital investment, assessment of capital structure, payout theories and policies and fundamentals of corporate restructuring in the context of value creation. Real world practices, case analysis, and projects are used to help students master the course. *Pre-Requisite(s): FINE 230*

FINE 455 Entrepreneurial Finance

Entrepreneurial activities play a significant role in innovation and job creation in an economy and act as a hub of economic growth. The major challenge faced by the entrepreneurs is the arrangement of financing for their ventures. Students are introduced to modes and processes of financing for entrepreneurial activities, valuation of
entrepreneurial ventures, and benefits that accrue to the parties that finance entrepreneurial activities. Case studies, assignments and projects based on real data are used as pedagogical tools are used to equip students with a solid foundation in various dimensions of entrepreneurial finance. *Pre-Requisite(s): FINE 230*

FINE 460 International Finance

With ever growing globalization, business has crossed the domestic frontiers and is increasingly extending across the borders in various formats. That has added enormous significance to the practice and modes of international finance. Students are acquainted with the international monetary system and financial markets, sources of international finance, exchange rate determination, management of foreign exchange risk and multinational capital structure. Through case studies, group activities, and project-based learning, the students imbibe the nuances of international finance.

Pre-Requisite(s): FINE 230

FINE 465 Equity Valuation

Equity markets are considered barometers of investor confidence in an economy. Fair valuation of securities is mandatory for both survival of the markets and the attainment of investment objectives by market participants. Students learn the dynamics of valuation process, types of models that are applied for valuing firms with different characteristics with respect to earnings, investment policies, and stages in lifecycle. Case studies, practical problems, and real-world projects are used to help students master the techniques of equity valuation. *Pre-Requisite(s): FINE 320*

FINE 470 Fixed Income Instruments

Fixed income securities not only act as source funds for governments, government agencies and corporations but also cater to the investment needs of wide range of investors. Students are exposed to the vast universe of fixed income securities; their distinctive features and designs, risk and return dimensions, and models used for their valuation. In additions, students learn about the securitization of mortgages. Real cases and data-driven projects are used to help gain a good understanding of the dynamics of the fixed income world. *Pre-Requisite(s): FINE 230, FINE 320*

FINE 475 Financial Derivatives

Financial Derivatives are crucial for managing risk and availing arbitrage opportunities in contemporary volatile financial markets. Students explore the features and application of derivative instruments, such as forward, futures, options, and swaps. They also learn back-to-back parallel agreements and application of hedging techniques in risk management. Case studies, group discussions and activities, and projects based on real data are used to deliver the course. *Pre-Requisite(s): FINE 320*

FINE 480 Islamic Finance – Principles and Practices

Islamic Finance has witnessed an unprecedented surge in the market share in the global financial system in recent years. Students learn about the major tenets of the Islamic financial system like the governing laws, the nature of prohibitive financial activities, the characteristics and applications of financing agreements and investment options. The pedagogical tools used are case studies, analysis of the relevant industry data, group presentations and role plays.

Pre-Requisite(s): FINE 220

FINE 482 Islamic Banking

Shariah based Islamic banking with all its religious connotations is transforming from a regional to a global phenomenon. It is growing in presence and gaining wider acceptability with every passing decade. Students

acquaint themselves with fundamental principles of Islamic finance, prohibitions, types of contracts and the overall principles of Islamic finance and their practical applications. Through case studies, project-based activities and group discussions students understand the nuances of Islamic banking and its role in adding to the bouquet of available banking options for the eligible clientele.

Pre-Requisite(s): FINE 330

FINE 484 Islamic Insurance-Takaful

Islamic insurance has gained prominence in financial world and has become an integral part of the insurance industry. Students are familiarized with the characteristics and applications of the various types of Takaful products, their relevance to the insurance needs of the customers, and the management of Takaful products by professionals. Through real world cases, and group assignments students gain a boarder understanding of the Islamic insurance.

Pre-Requisite(s): FINE 340

FINE 486 Islamic Capital Markets

Shariah-compliant investment vehicles cater to the financial and investment needs of a sizable portion of the investment community around the globe. The students gain an insight into the framework of the Islamic capital markets and the products traded on them, which include equity and debt securities, different types of funds, and derivatives. Case studies, assignments and projects based on the real-world data are used to help students comprehend the dynamics of the Islamic financial markets.

Pre-Requisite(s): FINE 220

FINE 488 Islamic Wealth Management

The awareness of Islamic principles as applicable to investments, income generation, accumulation of wealth and protection against law suits, is essential for a finance professional. The students learn the treatment and governance of wealth under Islamic laws, functioning of Islamic institutions and Sovereign Wealth Funds, wealth distribution through Waqfs and the mechanism of Zakat. The pedagogy tools employed are lectures, case studies and group presentations. *Pre-Requisite(s): FINE 320*

ISYS 110 Computer Software for Business

Computerization and digitalization are central concepts to modern business world. The main focus of this course is to introduce students to the most popular office productivity application software including word processing, spreadsheets, databases, presentation graphics, and business intelligence software. Lectures, hands-on practice, laboratory experience, group assignments, and assignments are among learning activities in the course. *Pre-Requisite(s): ENGL101*

ISYS 220 Management Information System

The information system plays a vital role in achieving strategic and operational goals. After a short introduction to the essential components of a management information system, students learn about information structures, basic business processes, information system security, and networks. Students will have an opportunity to apply their skills by designing a management information system for a small or medium enterprise. Through group discussions, projects, and assignments students learn to use emerging business technologies for managing business intelligence. *Pre-Requisite(s): ISYS 110*

ISYS 320 E-Commerce

Technology has dramatically transformed the way companies orchestrate value-creation. This course provides the learner with an overview of the basic principles of electronic commerce and the related concepts. Students will be provided with opportunity to gain in-depth knowledge in establishing and conducting a successful online business. They also are expected to examine the ethical, legal, and environmental issues on shaping the rules of modern electronic business environments. Through projects, class discussion and hands on activities, students will develop the skills and knowledge required to function successfully in the digital world. *Pre-Requisite(s): ISYS 220*

MGMT 120 Principles of Management

A dynamic and evolving business environment have made the managerial assignments challenging. Students are exposed to the main management functions including planning, organizing, staffing, directing, and controlling. They also learn about the different management concepts, techniques, and principles necessary for acquiring important managerial skills. It is done through classroom lectures, group projects, case studies, industrial visits, and guest lectures.

MGMT 240 Human Capital Management

Effective management of human resources has significant impact on organizations and employees. Students learn methods and techniques employed for managing, forecasting and planning human resource activities. Through case analysis, role play and group activities, students are introduced to the underlying human resource concepts, related challenges and application in various business contexts.

Pre-Requisite(s): MGMT 120

MGMT 320 Fundamentals of Supply Chain Management

Organizations deliver value to their customers by creating a well-integrated supply chain. Students develop an understanding of basic concepts and the role of Logistics and supply chain management in business and how supply chain drivers play an important role in redefining the value chain excellence of organizations. Another significant aspect of the course is providing opportunities for developing analytical and critical skills for planning, designing, and operations a domestic and an international supply chain system. Through lectures, case studies, and in-class discussions, students will learn how to optimize the supply chain process for effective business operations.

Pre-Requisite(s): QMET 210

MGMT 340 International Business Management

Compared with domestic business international business is fraught with multiple risk obligations and complexities making its management all the more challenging. Students learn different theories and practices of international business management and acquire the required skills to assess the impact of international operations on firms' internal management and long-term profitability. Through case studies, group projects industrial visits, role plays, and guest lectures students grasp the nuances of international business management. *Pre-Requisite(s): MGMT 120, ECON 310*

MGMT 350 Strategic Management

Sustainable competitive advantage is the product of well-formulated strategies. As such, students explore how strategies are developed in firms by pertaining to the tools and principles of strategy formulation and competitive analysis. Concepts as environmental scanning, internal analysis, levels and types of strategies aid the students to grasp the strategic management process with its different phases. Through case studies, readings, in-class presentations and discussions, students acquire knowledge on how to articulate appropriate strategies that address

market challenges and enable firms to pursue valuable business opportunities. *Pre-Requisite(s):MGMT120; MRKT120; FINE220; QMET210*

MGMT 410 Performance and Competency Assessment

Performance management helps to identify, measure and develop individual and team performance, aligning it with the strategic objectives of the organization. Students learn to map competencies, use various performance appraisal tools, and develop job related performance standards to enhance productivity in the organization. Through case analysis, group projects, and role play exercises they link performance management systems with development plans of employees in the organization.

Pre-Requisite(s): MGMT 240

MGMT 420 Training and Development of the Workforce

The development of an organization's human resources is becoming more critical as an organization attempts to survive in an increasingly turbulent, dynamic, and competitive global marketplace. Students get an overview of the individual and organizational approaches to learning in organizations. Major topics include identifying training and development needs through needs-assessments, analysing jobs and tasks to determine training and development objectives. Such a process includes learning, designing, and evaluating the effectiveness of a variety of T&D programs. Through case analysis, training projects, presentations and role plays they learn to structure training plans and processes for organizations.

Pre-Requisite(s): MGMT 240

MGMT 425 Employee Engagement and Retention

Engaged workforce is essential to accelerate profitability in a competitive economy. Students learn the principles and approaches of employee engagement in the organization. They also identify successful retention strategies followed by organizations to enhance employee experience. Through case analysis, integrated projects and group discussions students are introduced to the engagement and retention practices, related challenges and application in various business contexts.

Pre-Requisite(s): MGMT 240

MGMT 430 Diversity and Inclusion in the Workplace

Successful management of diverse workforce is one of the most important challenges faced by organizations globally. Inclusion is the key to unleashing the potential embedded in a multicultural workforce. Students learn the concepts of cross-cultural management, inclusion, socio economic transitions to make sound management decisions in a multi-cultural environment. Through presentations, role plays, group discussions and projects students learn to develop diversity management strategies in organizations. *Pre-Requisite(s): MGMT 240*

MGMT 440 Total Rewards

Total Reward management helps organizations to successfully compete in the ongoing competition for talent. Students learn to formulate compensation and reward plans and assess the role of internal and external stakeholders in designing pay systems. Through case analysis, assignments, and group activities, students are introduced to the underlying concept of total reward management, related challenges and application in various business contexts.

Pre-Requisite(s): MGMT 240

MGMT 455 Global Sourcing and Negotiation

In the modern supply chain, global procurement of raw materials, components, and manufacturing is the norm rather than the exception. The objective of the course is to provide students with concepts, models, and frameworks to analyze and develop global sourcing management practices. Students learn to identify new suppliers, negotiate contracts, review new products with existing suppliers, and confirm supplier production deadlines. Students comprehend subject intricacies through case studies, assignments, presentations learning, and guest lectures.

Pre-Requisite(s): MGMT 340

MGMT 465 SME Ecosystem

Small and Medium Enterprises (SME) contribute to the national economy's growth by expanding markets and creating more job opportunities. Students are introduced to how small businesses are formed and managed in entrepreneurial manner. They learn about the different forms of small businesses including family business or private small businesses. Additionally, they study the different elements constituting an SME's ecosystem including the customers, competitors, investors, intermediaries, suppliers and firms providing complementary business activities. Through case studies, in-class discussion and presentations and quizzes students develop knowledge on SMEs practices to operate in a healthy ecosystem where all parties are benefiting. *Pre-Requisite(s): MGMT120; ECON310*

MGMT 470 International Human Resource Management

Managing a diversified workforce is important for international human resource managers and organizations. Students learn about issues related to cross-cultural management, talent management, diversity management, international assignments, and pay models for international organizations. Through case analysis, projects and field visits, students learn to apply HR practices in global context. *Pre-Requisite(s): MGMT 240; MGMT 340*

MGMT475 Family Business Management & Governance

World's famous brands originated as family businesses. Students will explore and analyze business practices, functions, operations, and dynamics of family businesses from a strategic management perspective. Through a combination of case studies, research, group projects, interactive discussions, seminars, activities and role play the students develop the ability to recognize the challenges and opportunities for family-owned enterprises in the modern global market. *Pre-Requisite(s):MGMT120*

MGMT480 Managing Venture Growth & Transition

The creation, formulation and growth of new entrepreneurial ventures is the key driving force for the global economy. The start-ups of today are the unicorns of tomorrow. Students explore the relationship between the management and growth of new ventures using techniques and concepts such as growth hacking, strategic positioning, Blue Ocean thinking, unique vale proposition and design thinking. Through case studies, research, group projects, interactive discussions, seminars, and role play the students develop the ability to recognize, create, deliver and manage the growth of promising new ventures. *Pre-Requisite(s): MGMT350*

MRKT 120 Principles of Marketing

Marketing offers opportunity for businesses to create purpose driven, sustainable and ethical solutions to consumer needs. Students will explore the marketing environment and its influence on regional and international marketing strategies. They will gain insight into vital concepts like market segmentation, positioning and target marketing strategies. Through case studies and group discussions, students will examine the shifts and contemporary issues in marketing.

Pre-Requisite(s): ENGL 101

MRKT 420 Consumer Behavior

Understanding consumer behavior is vital for making customer-centric business decisions. It helps to identify the internal and external forces that influence pre-purchase, purchase, and post-purchase behavior of the target market. Students are exposed to various models and frameworks that enable them to develop insight into theoretical and conceptual knowledge of consumer behavior critical for achieving competitive advantage. With the help of research, case discussions and industry-based projects, students learn to analyze consumer behavior for strategic marketing decisions. *Pre-Requisite(s): MRKT 120*

MRKT 430 Strategic Brand Management

Branding helps in acquiring and building a loyal customer base in a dynamic business environment. Students will learn aspects of strategic branding, brand equity, value chain analysis and gain insights into managing brands and positioning in a global market. Through interactive discussions, integrated projects, business cases and group work, students will develop in-depth understanding of branding strategies and its application to cultivate strong brands.

Pre-Requisite(s): MRKT 120

MRKT 435 Digital Marketing

The rising demand for establishing online business presence has opened doors to colossal opportunities for digital marketing specialists. To succeed in competitive digital environment, students need to possess a comprehensive knowledge of digital marketing strategies and analytics. Students develop understanding of digital channels and knowledge of integrating variety of digital media to create effective marketing strategies. This will be done through case discussions, projects, and hands-on activities.

Pre-Requisite(s): MRKT 120; ISYS 220

MRKT 440 Retail Management

Retail management is critical for planning retail operations to achieve sustainable competitive advantage in a rapidly changing retail landscape. Students will develop insight into retail formats, location decisions, and global retail practices, by integrating dynamics of retail environment with the theoretical framework. Through retail site visits, case discussions and hands-on project, students gain comprehensive knowledge, skills, and attitude necessary to carve a career in retail industry.

Pre-Requisite(s): MRKT 120

MRKT 450 Global Marketing

The exponential growth of online business and the challenges of emerging technologies create huge opportunities to exploit global markets. Students develop understanding of the strategic implications of segmentation, targeting, and positioning on a global scale. Emphasis will be placed on the role of disruptive positioning strategies and how firms can utilize such strategies to their advantage. Through a combination of case studies, research, group project, interactive discussions, seminars, activities, and role play, the students develop the ability to recognize, create and deliver sustainable innovative solutions to a complex global market. *Pre-Requisite(s): MRKT120, MGMT340*

MRKT 465 Technology, Innovation and New Product Development

Start-up's competitiveness depends on its ability to innovate and create new products. Students explore the different types of technology and innovation that can be adopted by firms to diversify and grow its business operations. Concepts such as patents, copy rights protection, process and product innovation and resource acquisition inform the students about critical elements of technology and innovation management. Through class

simulations, case studies, projects and presentations, students learn how firms develop new and innovative products to sustain a competitive position in the market. *Pre-Requisite(s):MRKT120*

MRKT 490 Market Intelligence and Research

Business intelligence is a key enabler for organizations to have a sustained competitive advantage. Students learn the aspects of strategic planning, supply chain management, innovation, product portfolio management from a market intelligence perspective. Through class discussions, hands-on activities, project, and case studies students will be able to review tools and techniques critical to effective marketing intelligence. *Pre-Requisite(s): MRKT 420*

QMET 110 Business Mathematics

Numeracy is an essential skill for the market place. The students are introduced to essential mathematical methods needed to understand, analyze, and solve business problems related to business and economics. Topics related to matrix operations, simple and compound interest, and annuities are used to evaluate various financial decisions, while topics related to business calculus are used to determine marginal revenue and costs. Through problemsolving, group activities and assignments, numerical skills are introduced and emphasized. *Pre-Requisite(s): ENGL 101*

OMET 210 Statistics for Business

Quantitative tools and methods are necessary skills required in the contemporary world of business. The current business environment demands managers' ability to analyze and summarize data and use statistical tools for decision-making and problem solving. Students are acquainted with the topics related to data organization, visualization, hypotheses testing for parametric and nonparametric test. Through group activities, assignments and using Microsoft Excel students are prepared to deliver effective business presentations. *Pre-Requisite(s): QMET110*

QMET 350 Operations Research

Mathematical models assist managers in making decisions and finding optimal solutions to operational problems. Students are trained in building models for linear programming, simplex algorithm, transportation, network and non-linear data to solve real world business problems. Through problem solving sessions, group activities and projects students learn how to use the Microsoft Excel/SAS to create mathematical models for optimal solutions. *Pre-Requisite(s):* QMET 201, MGMT 320

QMET 430 Business Analytics

Data Analytics provide a competitive edge for business managers. Analytical knowledge refers to the way in which enterprises such as businesses, non-profits and governments use data to gain meaningful insights and make better decisions. The course focuses on developing insights from various visualization techniques, predictive analysis, forecasting techniques and to interpret the results using performance measures. Through assignments, group-activities students will be analyzing the business problems to improve business performance and support important decisions using Microsoft excel/R.

Pre-Requisite(s): QMET210

QMET 445 Marketing Analytics

Quantitative tools are used to develop models that uncover customer insights, monitor and maximize the effectiveness of marketing initiatives. Students will have a clear progression from foundation of statistics to techniques in predictive modelling, segmentation, pivotal role of consumer behavior and big data analytics. Through assignments, group activities and projects students will develop innovative ways for marketing analytics techniques using Excel/SAS/R. *Pre-Requisite(s): MRKT120, QMET430*

QMET 480 HR Analytics

The availability of classified data on employees enables human resource managers to optimize their performance and enhance business capabilities in a dynamic business environment. Students learn to improve human resource practices by using techniques like HR metrics, recruitment and selection analytics, compensation analytics, career planning and attrition analysis. Students get a practical exposure to analysis and application of HR data through SAS/Excel, group projects and case studies.

Pre-Requisite(s): MGMT 240, QMET430

AERO 200 Elements of Aerospace Engineering

The prospects of aerospace engineering is promising as technology for space exploration and travel advances. This course provides an overview of aircraft engineering from a design perspective. The student will learn about flight mechanics, principles of aerospace propulsion, airframe, aircraft systems, airports and airspace management. Students will also acquire skills to sketch aircraft components using 3D CAD software through the practical sessions. The course will be delivered through lectures, assignments, and hands-on laboratory practices. *Pre-Requisite(s) - PHY100*

AERO 300 Aircraft Structures

The aerospace vehicles are intricate systems with millions of interrelated parts and the aerospace industry is vastly adapting to the new design and development of aerospace structures. Aerospace structures function in harsh conditions, including a wide range of temperatures experienced during flight operation. The course provides students with a detailed understanding of linear static analysis of determinate and indeterminate structures, columns and buckling plates and stress analysis of aircraft wings and fuselage. Students will also conduct aircraft structural loading experiments in aerospace laboratory. At the end of the course, student will be able to design an aircraft component or a part by considering every possible structural failure theories. The course will be delivered through lectures with audiovisual support, industry visit, presentation, assignment and quiz *Pre-Requisite(s)* - *MECH 200*

AERO 305 Space Mechanics & Control

Space exploration was the catalyst for the commercial growth of space that has continued every year since and when it comes to space flight and exploration, orbital mechanics is essential. The course is structured to provide students acquaint with basic orbital mechanics applications such as intercept, rendezvous, planetary motions, orbital determination and interplanetary trajectories. The course will be delivered through lectures, special guest lectures by industry experts, projects, solving of exercises and problems, assignments and quiz

AERO 310 Aerodynamics II

Advanced aerodynamics will play a crucial role in the design and engineering approaches of rockets/missiles. The advancements in aerodynamics bring out the cutting edge innovations in aerospace industry. The course focuses on acquainting the students with the concept of compressibility and theories behind the formation of shocks and AMITY UNIVERSITY DUBAI

expansion fans in supersonic flows. This subject deals with basic concepts pertinent to finite wings. It highlights the approaches made toward the oblique shock waves along with normal shock wave relations and hypersonic technology. The course will be delivered through lectures, assignments, projects and hands-on laboratory practices

Pre-Requisite(s) - AERO 350

AERO 315 Aircraft Propulsion

Jet propulsion redefined the study of flight and rendered space exploration practicable by enabling higher speeds and altitude. The primary consideration in the design and operation of an aircraft or spacecraft mission is the propulsive force. The structure of course is built to enlighten students with basics of propulsion systems of an aircraft. The course will cover fundamentals of air breathing engines, discovering different types of inlets, nozzles, turbines and combustion chambers available for aircraft engine. Students also analyze performance characterizes the gas turbine engine and its components during the laboratory sessions. The course will be delivered through lecturers, industry expert guest lectures, industry visits, hands on lab sessions, quiz and assignment. *Pre-Requisite(s) – MECH 300*

AERO 320 Aircraft Stability and Control

The ease and accuracy with which a pilot can maintain balance and execute maneuvers depends on an aircraft's stability and control qualities, which ultimately affect flight safety and operational efficiency. Modern methods for aircraft stability and control are briefly reviewed in this course, along with applied aerodynamics. Static stability, trim, stability derivatives, typical longitudinal and lateral motions, and the actual effects of the wing, fuselage, and tail on aircraft motion are all addressed in this course. The study of control methods and systems places a focus on the stability of flight vehicles using both traditional and modern control methods. The course will be delivered through lectures with audiovisual support, special guest lectures by industry experts, assignment and quiz.

Pre-Requisite(s) – AERO 350

AERO 330 Aircraft Design

In order to address issues like reduced carbon emissions, reduced noise pollution, and increased passenger comfort, new aircraft design is crucial. Integrating new technologies and systems with existing and advanced configurations is a key feature of modern aircraft design. Students who complete this course will gain knowledge of the iterative nature of the design process as well as the concepts of aircraft design that combine practical design and analysis. Additionally, the cost analysis, aircraft performance computation and optimization, provisions for payload, crew, and avionics, powerplant selection and size, aerodynamic configuration optimization, stability and control characteristics are also covered in the course. The course will be delivered through lectures with audiovisual support, special guest lectures by industry experts, project, assignment and quiz. *Pre-Requisite(s) - AERO 350 ; AERO 315 ; AERO 300*

AERO 335 Airplane Performance

The ability of an aircraft to be operated effectively and economically must be taken into account when developing and testing the aircraft. Knowing an aircraft's actual performance is crucial for safe and fuel-efficient flight as the

aerospace industry anticipates more sustainable flying. This course aims to teach students about the features of a typical atmosphere, how flying objects behave in the available atmospheric conditions, and how aerodynamic forces interact to keep an object in flight at a constant speed while performing maneuvers and being subjected to control at various flying speeds. Student will also able to do performance analysis of aircraft using various numerical approaches in this course. The course will be delivered through lectures, special guest lectures by industry experts, project, assignment and quiz.

AERO 340 Aerospace Materials

The aerospace manufacturing industry is very demanding when it comes to new developments and quality control. Selecting the right metal alloys and materials for aircraft and spacecraft parts and components is always important to ensure high performance, strength and resistance to extreme heat. Students who complete this course will gain knowledge on various materials and material requirements for aerospace industry. The course also covers the topics such as mechanical and durability testing of aerospace materials, composite material manufacturing, manufacturing process of metal components of an aircraft, inspection methods in aerospace manufacturing and corrosion. The course will be delivered through lectures with audiovisual support, industry visit, presentation, assignment and quiz

AERO 345 Spacecraft Propulsion

The foundation of space exploration is in-space propulsion systems, which are becoming progressively more crucial as businesses and governments put more low-earth orbit (LEO) satellite constellations into operation. The ideas underlying various spacecraft propulsion methods in various space areas are made clear to the students in this course. The student will learn various advanced propulsion technologies includes electric, nuclear, solar thermal, laser propulsion, plasma physics and solar sails. The course will be delivered through lectures with audiovisual support, special guest lectures by industry experts, discussion and solving of exercises and problems, presentation, assignments and quiz.

Pre-Requisite(s) - AERO 315

AERO 350 Aerodynamics I

Aerodynamic advancements can make a substantial contribution to lowering the total environmental effect of air travel as well as greatly increasing the operator's bottom line. It is crucial to understand fundamental aerodynamic concepts in order to understand how the parts and subparts of an airplane operate. In this course, students will learn the theory of flow over aerofoils and wings, bluff bodies including lifting-line theory, vortex panel methods, boundary layer and thin-aerofoil theory. The course will be delivered through lectures, assignments, presentations and hands-on laboratory practices.

Pre-Requisite(s) - MECH 315

AERO 400 Rockets & Missiles

In the modern space economy, the launch services sector plays an essential and inevitable role for launching and transferring cargo into orbit. This course is aimed to provide knowledge of rockets / missiles, their performance, stability & control, launch operation & re-entry. The course also covers methods of stabilization and mathematical treatment of stability and maneuverability. Student will also able to do design rockets and analyze the performance characteristics of rockets in this course. The course will be delivered through lectures, special guest lectures by industry experts, project, assignment and quiz.

Pre-Requisite(s) - AERO320

AERO 405 Space System Engineering

Space Missions are effectively created through space systems engineering and it takes into account a wide range of choices and trade-offs made between various possibilities in terms of performance, risk, cost, dependability, and turnaround time. This course offers a thorough understanding of space mission, mission goals, principles, and useful techniques for mission planning and operations. In-depth introductions are also given to risk management, failure mode analysis of space systems, test and evaluation, and standards of space systems, including reliability issues. The course will be delivered through lectures, guest lectures by industry experts, project, assignment and quiz.

AERO 410 Satellite Engineering

The course enlightens students on the concepts of engineering for manufacturing a satellite and its payload based on standards set by the aerospace industry. The students will understand the fundamentals of design and sizing, challenges of manufacturing a satellite, quality assurance and qualification programs of satellite manufacturing. The student will have a basic understanding of the factors influencing subsystem design by the end of the course and be able to assess the effects of tradeoffs between subsystem needs on performance at the system level. The course will be delivered through lectures, industry expert guest lectures, projects, quiz and assignments.

AERO 415 Unmanned Aerial Vehicles & Artificial Intelligence

Unmanned Aerial Vehicles (UAVs) increase human potential by enabling us to carry out risky or challenging jobs in a safe and effective manner, which also saves time and money. Incorporating Artificial Intelligence (AI) techniques into UAVs enables the aircraft to discern and respond intelligently to its environment. The course will cover modeling, dynamics, and standard control techniques for aerial vehicles, fundamentals of artificial intelligence, and artificial neural networks. Students will also be able to design the UAVs by considering aerodynamics, guidance, communication, and navigation with the integration of AI for various applications. Lectures, Hands on Sessions, project, assignment and quiz are used to deliver the course.

AERO 420 Remote Sensing

With increasing importance in contemporary life, remote sensing enables the collection of data from hazardous or inaccessible locations. Remote sensing data is essential for tracking and forecasting weather and climate change, as well as large-scale changes in land use. This course intends to provide students with an in-depth understanding of fundamental concepts of remote sensing. It also focuses on acquainting them with modern-day methodology used to acquire and analyze datasets, and effectively utilize the results obtained from experimental analysis. Having successfully completed the course, students will demonstrate an exemplary understanding of different remote sensing technologies, processing methodology and able to evaluate satellite imagery datasets downlinked from earth observation satellites like Landsat and Sentinel launched by NASA and ESA. Lectures, special guest lecture by industry experts, Assignments and project are used to deliver the course

AERO 430 Computational Fluid Dynamics

In the aerospace sector, computational fluid dynamics (CFD) has become crucial for product design and analysis. The objective of this course is to teach students about the computational techniques of aerodynamic problems with the flow visualization and usage of the flow properties for different geometries with different boundary conditions. Students can learn about the various CFD tools through this course. This improves the students' experimental skills by allowing them to evaluate flow visualization and simulation around aerodynamic bodies in various flow streams. The course will be delivered through lectures, special guest lectures by industry experts, project, assignment and quiz. *Pre-Requisite(s) - AERO310*

ARCH 100 Design Fundamentals in Architecture

Fundamental rules in design and its application are crucial in creating an effective architectural design. The key to an aesthetically pleasing, functional and sustainable design is based on the balance maintained in the elements, principles of design and use of design process with unique concepts and design solutions. The course aims at introduction of elementary design, outline based on design principles and its application in Architecture. Students will learn the development of sensory perception with abstraction and generating solutions to context-based problems instilling the aptitude of creative imagination under a set of context and constraints. The course also enables development of architectural graphic skills necessary for design visualization and communication. The studio course has engagements with lectures, site studies, analysis, demonstration for skill development and creative working, documentation, architecture project visits, concept mapping, case studies, presentations, design discussions, consultation, review and critique.

ARCH 105 Architectural Graphics

Architectural Graphics is one of the fundamental course establishing a base for presentation and working drawings. The course aims to familiarize students with the drawing tools, instruments and accessories used in drafting and lettering techniques to prepare technical drawings and a clear understanding about scale, measurement, drafting and dimensioning techniques. It will impart knowledge on orthogonal projections, concept of plans, elevations and sections along with descriptive drawing skills of plane geometry, solid geometry, interaction between solids, surface development and orthogonal projections. The course also aims to impart knowledge on Isometric and Axonometric drawings, perspective drawings and development of Sociography of an object or a group of objects. The course is also based on learning and application of digital soft wares such as SketchUP, required for generating above type of drawings. The studio course has engagements with lectures, demonstration for skill development on drawing techniques, design representation, consultation, review and critique.

ARCH 115 History of Architecture

The course is key in establishing an exploration of history of architecture in chronological order including prehistoric civilization such as Indus civilization to, Roman period in World Architecture, European movements of Gothic, Renaissance, Baroque, and Rococo to Modern Architecture. The aim of this course is to enhance the students' knowledge of different styles of Architecture flourishing in different places in a given timeline, analyse, understand, and relate architectural characteristics (elements, spatial organization, scale and proportion, structural and construction systems). Understand the roles of physical and non-physical parameters with its impact on the architectural characteristics of a given place. Students shall be able to comprehend and compare the architectural styles, influence of art and culture, construction techniques evolved over the period of time. Lectures, case studies, documentaries, discussion, focussing on knowlwge of history of architecture used in course delivery.

ARCH 120 Architectural Design Studio I

Architectural design is the art of articulating spaces with the purpose of creating shelter with improved life & healthy spaces. The translation of the non-physical problems to physical building using design concept with aesthetics in form and space is important is an architectural practice. The course introduces architecture as the design of human shelter with the study of anthropometrics, ergonomics in relation with various human activities. It aims to inculcate critical observation techniques, conceptualization, creative working with design principles, forms, functional interaction and appreciation for natural structures as ingredients and inspiration for architectural Design. The course shall enable students to create simple functional spaces based on a context in a logical manner and communicate designs to human/visual Scale, Proportions with rapid visualization, graphical representation and model making skills. The studio course has engagements with lectures, site studies analysis and documentation, architectural project visits, concept mapping, case studies, presentations, design discussions, consultation, review and critique.

Pre-Requisite(s)- ARCH 100

ARCH 200 Building Construction I

The course deals with the art of applying the knowledge of materials, construction techniques and technology in design solutions from an aesthetic and utilitarian perspective. Students study and analyze the elements of buildings, structural components, materials used in building construction, properties and application techniques. The course familiarizes with the structural and enclosure systems, the types of construction and other related factors like loads, forces, spans, patterns for low, mid and high rise buildings. The concepts and working details are explored with examples of architectural projects for walls, floor plates, arches, vaults, domes, shell structures, membranes and its materials, joints and connections. The course delivery includes lectures, case study, discussions, site visits, studio working with drawings and architectural models.

ARCH 205 Architectural Design Studio II

A design process with a defined problem statement leads to creation of systematic architectural design solutions with exploration of ideas and concepts. The studio aims at design of a low rise residential project typology like artist / professionals living and co-working space with the application of design process. The course promotes design thinking inculcating an aptitude of association between space, form and function to achieve a spatial relationship. Design proposal developed in the studio with iterations communicated with sketches, drawings, presentations, architectural models as concepts and strategies using the approaches of the design process. The studio course has engagements with lectures, site studies analysis and documentation, architectural project visits, concept mapping, case studies, presentations, design discussions, consultation, review and critique. *Pre-Requisite(s)- ARCH 120*

ARCH 215 Climatic Responsive Architecture

Climate responsive design is the core tactic strategy to achieve a sustainable built environment. An important function of a building is to make its occupants comfortable. Students acquaint with procedure and practice of climate-based design approaches. It focuses on concepts of climatology with the understanding of design strategies to develop appropriate responses to the application of construction processes, materials choice and finishes relevant to the architectural typology. Moreover, students learn design simulation for the development of shading devices and setting the building orientation based on the local and contextual climatic conditions. The course lays emphasis on case study discussions, environmental design portfolio preparation, and design software simulations to learn about the climatic design aspect of architecture.

ARCH 220 Architectural Design Studio III

Architectural site planning is an art of organizing structures on land, shaping spaces. It needs to create linkages locating activities in space and time responsive to the climate of the region. The course aims at site planning with horizontal spaces using multicellular units. The architectural design deals with creating an interrelationship between spaces and their respective hierarch. The studio exercise lays focus on development of design proposals for an architectural typology like primary school, community health center, shopping complex etc. Further the course will incorporate the design working and evolution with respect to climate responsive design strategies for the buildings and its surrounding spaces. The students has engagements with lectures, site studies analysis and documentation, architectural project visits, concept mapping, case studies, presentations, design simulation studies, discussions, consultations, reviews and critiques.

Pre-Requisite(s)- ARCH 205

ARCH 225 Building Construction II

The knowledge of building systems, materials and its application becomes an integral in design decision making and development of technical drawings with details for construction, estimation and building performance. The course covers the fundaments of materials and construction process for the building foundation systems, elements AMITY UNIVERSITY DUBAI of building floor, walls, roof, doors, and windows. The properties, emerging technologies and application process for building materials like concrete, masonry, steel, nonferrous metals, stone, wood, engineered wood, wood panel products, plastics, glass, hardware's, tools and machinery familiarized. The course delivery includes lectures, case study, market survey, industry visits, class discussions, site visits, studio working with drawings, architectural and computer aided models.

Pre-Requisite(s) - ARCH 200

ARCH 300 Architectural Design Studio IV

Architectural design for large congregational spaces demands large span column free spaces achieved by integrating structural systems, innovative technology with aesthetic harmony inspired from nature. The studio introduces the design of large span structures to house multi- function, large audiences, and activities for public buildings like Cultural center, Museums, Exhibition spaces etc. with a site context . Focus of the design development based on bye-laws applicable to the site context. Design developed with an architectural identity integrating the building form with structural systems. The studio enables exploration of design strategies with responses to climate along with use of innovative technology, intelligent systems. The students has engagement with lectures, site studies, analysis, documentation, architectural project visits, concept mapping, case studies, presentations, design modeling with computer aided tool, discussions, consultations, reviews and critiques. *Pre-Requisite(s) - ARCH 220*

ARCH 305 Building Services & Engineering Water Supply & Sanitation

Water supply and Sanitation services in buildings are vital for utilization, maintenance, user safety and functional requirement. The subject introduces building services and systems, its importance in built environment and the scope of Architects. It deals with the study of water supply, drainage, sanitation, sewage and waste disposal systems and fundamental knowledge of artificial intelligence in smart management of building systems. Students will be taught the integration of building services in their Architectural Design studio projects according to local and international codes and standards, selecting appropriate plumbing fixtures, accessories and sanitary wares using market surveys and site visits for construction details.

ARCH 310 Building Construction III

The building performance, efficiency and safety is based on the selected systems, materials, finishes, and application of emerging technologies with the relevant level of details. The course covers the mode of connections and mobility between levels in building using staircase, ramps and mechanical systems, the varied materials and construction technology. The finishing materials for building elements wall, floors & ceiling based on performance for durability, aesthetics, fire safety, acoustics and moisture and thermal protection. The course delivery includes lectures, case study, market survey, industry visits, class discussions, site visits, studio working with drawings, architectural and computer aided models.

Pre-Requisite(s) - ARCH 225

ARCH 315- Environment Science in Architecture

Environmental studies and architecture are natural allies and it is important to scrutiny of the environment in which the building is to be built; understanding its social/cultural context, climatic conditions, land type, etc. It is difficult to design good structures without an understanding of how buildings interact with natural systems. Students are able to identify and analyze environmental problems as well as the risks associated with them. They learn about natural resources, ecosystems, biodiversity, their importance and measures for their conservation in detail. Furthermore, it enhances students' contextual understanding of the effect of the built environment on the environment and ecology; environmental impact assessment (EIA) study, pollution control; and current major environmental issues such as global warming and the efforts required for its mitigation. The course consists of AMITY UNIVERSITY DUBAI

nature walks, case study discussions, and review of environmental impact assessments activities to learn about the role of the environment in the built environment

ARCH 320 Architectural Design V

The rise in popularity of walkable urban environments has created a demand of mixed-use architectural projects bringing together the combination of offices, hotels, shopping and community serving uses. The studio aims at imparting knowledge on design of multi-storied functionally complex and critically serviced building with activated public realm spaces by weaving functional, open, pedestrian, breakout spaces having transit connections with retail, dining, co-working spaces. The salient planning and design goals of the project shall involve achieving seamless, streamlined, and impeccable services, energy efficiency and structural efficacy, aesthetically innovative and significant edifice complying with the International Building Codes, the local by-laws and apply knowledge of Integrated Building Systems (AI & ML) in the multi-functional building based on an urban context. The studio has engagements with lectures, industry expert talk, urban walk, site studies, analysis and documentation. architectural project visits for the mixed use typology study, concept mapping, case studies, presentations, design modeling with computer aided tool, discussions, consultations, reviews and critiques. *Pre-Requisite(s) - ARCH 300*

ARCH 325 Building services and Engineering Electrical and Mechanical

Electrical and mechanical services in buildings are vital for operation and maintenance that includes various types and control systems for user safety and functional requirement. Students will be able to incorporate these services in building designs with specific codes, clients' needs, required capacity & load calculations and use of emerging technologies. The study of mechanical systems will cover HVAC, pumps and machineries and mechanical transport systems in buildings. Electrical services will explore supply, distribution, and installation of electricity in building, natural & artificial lighting, and acoustics. Application in projects will cover preparing technical drawings and layouts with specifications, using local and international codes and standards, selecting appropriate fixtures and accessories using market surveys and site visits for construction details

ARCH 330 Architectural Research Paradigms

Architectural Research helps to comprehend the basic principles of research focused on Architectural design and user experience. The course enables students to indulge in systematic and appropriate methods of conducting research for design questions considering socio-cultural, economic, and environmental framework. The course provides an opportunity to explore and present individual research topics related to architectural practices with reference to its theoretical and practical objectives and methodologies for design research. Lectures, tutorials, field research, case studies and report writing are used to deliver the course.

ARCH 335 Landscape Architecture

Landscape architectural design helps in creating a living synthesis between people and place using spatial language that is vital to environmental and social identity. The aim of this course is to enhance the students' knowledge of Landscape Architecture and the various natural elements used to design transitional, outside spaces and establish a linkage between nature and the built environment. Further the course enables the analysis of site,

context and communicate landscape design graphically with construction details. Lectures, case studies, site visits focusing on landscape design and projects are used to deliver the course.

ARCH 400 Architectural Design Studio VI

Housing is a fundamental urban issue faced by most of the global cities and the quantity and quality of this residential strata, greatly shapes a city's growth and sustainability. The design studio explores housing project for a site with definite physical, cultural and climatological context. The studio enables create design solutions integrating environmental, climatological, structural systems, building services, landscape, and urban design to provide a comprehensive approach in designing of the residential project. The studio demands significant importance on passive design strategies along with the use of artificial intelligence in home/project automation & various building services to comprehend fundamental application of BIM software for studying various design parameters. The studio has engagements with lectures, industry expert talk, urban walk, housing project case studies, site studies, analysis and documentation. The studio develops the design project proposal with concept mapping, presentation drawing, architectural model, design modeling with computer aided tool, discussions, consultations, reviews and critiques.

Pre-Requisite(s) - ARCH 320

ARCH 405 Architectural Professional Practice

Architectural Professional Practice emphasize practice management and procedures in design development within regulatory frameworks inculcating qualities of professionalism and ethics. The course aims to familiarize students with the understanding of the basic principles and legal aspects of organizational practice, financial management, business planning, project management, risk mitigation, mediation, and arbitration. The study also covers understanding of trends that affect practice, such as globalization, outsourcing, project delivery, expanding practice settings and diversity. The course delivery includes Lectures, case studies focusing on application of Architectural Professional Practice, management of architectural projects, interaction with architects, architectural firm visits and discussions with built environment professionals.

ARCH 410 Building Services and Engineering Firefighting and Automation

Fire-fighting and prevention provide safety and security for life and property, while automation is used for efficient management of building envelop and systems. The course deals with fire prevention and control, integrated building management system, application of AI in building automation and application of BIM (Building Information Modeling) in architectural projects with respect to efficiency, safety & control. Students shall be acquainted with the fire safety regulation and security systems to be applied in building design projects and preparing technical drawings. The course delivery includes lectures, market survey, projects, site visit, guest lectures and case studies focusing on the application of information technology are used to deliver the course.

ARCH 415 Urban Design Studio

The urban sprawl with inefficient use of land causes problems of housing, transport, affordability issues and use of finite resource. It is important to stimulate creativity and problem solving, and effective design technique to resolve difficult urban design and management problems. The course aims is introduce urban design and understand part of the city and the pluralities of space syntax using data collection and methodical analyses. Further evolve people-centric design solutions through design-thinking and experiential learning. The urban design studio enables to resolve open ended problem based approaches by considering the current issues of the real world. The studio has engagements with lectures, industry expert talk, urban walk, urban case studies, site studies, analysis and documentation. The proposals developed based on performance oriented planning using

urban design tools with study, presentation drawing, three dimensional models, modeling with computer aided tool, discussions, consultations, reviews and critiques. *Pre-Requisite(s) - ARCH 400*

ARCH 420 Working Drawings

Working drawings with design details and specifications becomes an important tool in communicating designs and development of tangible outcomes for real time construction. The course aims to provide knowledge about the preparation of working drawings and details following building bye-laws, regulation and building codes. Skills developed on dealing with different projects typologies considering the inter-relationships with materials, construction technology and building services. The studio explores the process of construction drawing and documentation with design detailing communicated with standards and graphical depiction of building design specifics with accuracy for implementation of the elements in design. Ethical practice, standards and guidelines followed as applicable to the local, regional and global context for construction drawings of buildings. The course delivery includes lectures, case study, market survey, industry visits, class discussions, site visits, studio working with drawings, design detailing, specification writing, development of computer aided models for accurate and speedy design solution. *Pre-Requisite(s) - ARCH 310*

ARCH 500 Major project I

Major project I offers opportunity to demonstrate knowledge and acquired skill sets to visualize, analyze, design and represent complete design solution of a multi-disciplinary architectural typology. The course aims to provide design implementation of research (ARCH 330) done in previous semester. It enables students to create a design project for a building typology focusing on design elements & principles, organization of forms & spaces, visual perception, ordering principles, measurements, circulation, proportion & scale, building systems, sustainable and smart applications, codes, and guidelines. Final portfolio presentation includes design concept, space planning and visualization adding further research in relevant project-specific sub-topics and conducted under the supervision of a faculty member.

Pre-Requisite(s) - ARCH 330

ARCH 505- Project Management in Built Environment

Project Management imparts basic knowledge and skills required by construction project manager, while developing management solutions in a variety of situations. This course enables to provide an overview of components of built environment in general & construction sector. It fosters the knowledge of appropriate theories, concepts, and principles of management used in construction projects. Further, it appraises the overall process within which construction projects are conceived, designed, constructed and evaluate the problems that are encountered in each stage. It also helps students to develop understanding of operation management requirements of construction projects and organizations. The course consists of site visits, conference and exhibition visits, case study discussions, and review of project management reports, experts lectures to acquire skills to pursue a career in construction project management.

ARCH 510 Estimation, Costing and Specifications

Theory and practice of writing specification and estimation is essential part of quality & cost control of building construction and contract administration. The course aims at providing knowledge of writing the specifications

and preparing cost estimation as per the prescribed standard and rate. Students learn the importance and application of costing & specifications in building projects. They will be able to prepare material and cost estimates along with the required skills to develop specifications of materials and construction techniques essential for meeting the challenges of the changing world of construction. Lectures, tutorials, site visit, guest lecture by industry expert and working on estimation of a small scaled architectural project will be part of course delivery

ARCH 515 Major project II

Architectural major project II offers opportunity to demonstrate knowledge and acquired skill sets to develop a design solution from design scheme stage to detailed design of a multi-disciplinary architectural typology. The course aims to provide design detailing of Major project I (ARCH 500) done in previous semester. It enables students to create detail design drawings of selected building typology focusing on performance, materials and constructions details, using sustainable and smart applications, codes and guidelines. Final portfolio presentation include construction details of building components developed for topical issues like green and intelligent buildings, parametric architecture, universal accessibility, rehabilitation, adaptable re-use, preservation and conservation etc., and conducted under the supervision of a faculty member. *Pre-Requisite(s) - ARCH 500*

ARCH 520 Interior Architecture

The course is key in establishing an exploration of elements and principles of Interior Design comprised in interior space planning and layout. Students will learn designs with anthropometric, ergonomics and aesthetic considerations. Understand the relationship between form, space, and its order in interior space. Foster creative ability in students and inculcate skills to conceive and design. Further the course helps optimize and improve the functional working of interior spaces with aesthetic sensitivity and develop interior design considering health, wellness, sustainability, and energy efficiency. Lectures, case studies focusing on the application of Interior Architecture to projects are used to deliver the course.

ARCH 525- Architectural Conservation

Architectural conservation is the process of conserving the values of heritage buildings while preserving them. It is a field that requires specialized training and knowledge to deal with its multidisciplinary nature. The course introduces the concepts of architectural conservation with a study exploring the history, fundamentals, and theory of architectural conservation. The program exposes students to world heritage sites, building analysis, design intervention, and conservation technology. Furthermore, the course enables students to understand building repair and preservation techniques as well as architectural conservation planning regulations. The course consists of site visits, historic walks, case study discussions, and review of conservation activities to acquire skills to pursue a career in historic building conservation.

ARCH 530- Building Information Modeling

Building Information Modelling (BIM) in Design, Construction, and Operations is inevitably becoming the standard method for building lifecycle planning, analysis, and management. Students are enabled a systematic understanding and critical awareness of current and emerging Building Information Modelling technologies in relation to the construction industry. Students acquaint with knowledge of BIM processes, tools and techniques and to understand the method of implementation of the tools for project designing, execution and closure. The course covers use of latest BIM software to explore the process through theory lectures, and hands on practical to acquire required skill sets

ARCH 535- Architectural Journalism

Architectural journalism is the practice of writing and commenting on architecture, design, and urbanism. The increasing scope of architectural projects has created a demand for expert individuals who are skilled in the art of writing, reporting and critiquing architectural landmarks. This course intends to develop an element of inquisitiveness in student's thought process and equip them with technical writing skills. The module enables students with both content and criticism, as well as things like form, format, graphics and publishing software, production values, photography, drawing reproduction, printing, and distribution. The course consists of documenting the architectural works with the use of latest visual aids, site visits, case study discussions, expert lectures and involvement in concurrent activities to acquire skills to pursue a career in architectural journalism.

ARCH 540 Green Buildings

The course is key in establishing a connection between arts, aesthetics, the, health, and wellbeing. Students will learn traditional & alternative approaches to health and well-being in interior environment with an awareness drawn to our surroundings and the built environment in which we live, learn and work. The course will enable the students to apply wellness focused principles for improving the health and human experience through design. Students will be able to analyze biophilic design and designs inspired by nature. Lectures, case studies and workshops focusing on the application of Green Buildings to projects are used to deliver the course.

ARCH 545 Smart Cities

Smart cities are performance oriented and operate with better synergy between citizens and the local government for resource and asset management. The course aims to introduce students to a comprehensive learning program for designing high-performing, sustainable and livable cities considering infrastructures and forward-thinking governance. It examines role of information and communication technologies in shaping the built environment at various scales, cities, districts, neighborhoods, blocks, and buildings. The course covers wide range of topics that encompasses IT data, E-Governance, human-centric design, urban sustainability, and natural resources combining technology and urbanism. Lectures, case studies focusing on the application of information and communication technology (ICT), and projects are used to deliver the course.

BIOL 100 Biology I Final

Biology-1 deals with the study of living organisms and vital processes of life. It focuses on the various hierarchy of cell life, cell reproduction, molecular biology of gene, concepts of evolution, origin of species, concepts of biological diversity, plant structure and growth. Moreover, students are exposed to the fundamentals of ecology, behavioral adaptations and population dynamics. Lab experiments are conducted on fundamental concepts of biology relevant to ecological diversity. Lectures, theoretical assignments, lab experiments and case studies are used to deliver the course.

BIOL 105 Biology II

Biology-2 deals with the advanced study of biology and its applications. Students are exposed to biophysical and chemical mechanisms of gene expression and evolution. Topics include eukaryotic RNA processing, cell cycle differentiation, apoptosis and membrane bound receptors for signal transduction. Lab experiments are conducted on advanced concepts of biology relevant to cell study and nucleic acid quantification. Lectures, theoretical assignments, lab experiments and case studies are used to deliver the course. *Pre-Requisite(s) - BIOL 100*

BIOL 110 Remedial Biology

Remedial biology deals with the fundamentals of cell and cellular functions of biology. Students will be exposed to the concepts of chromatin, chromosome and cell nucleus involved in the process of gene expression. Topics include chemical and physical background of cell, DNA packaging, central dogma, membrane structure, essentials of cellular adhesion and cell cycle. Lectures, theoretical assignments and demonstrations are used to deliver the course.

BIOT 200 BIOCHEMISTRY

Biochemistry is the bridge between biology and chemistry. It emphasizes on the fundamental concepts of biological processes, organization of biological molecules within the cell, structure and function of biological molecules. Students explore the basic concepts of biochemistry and their application to biology and chemistry focusing on human metabolism. Topics include biological macromolecules like proteins, carbohydrate, amino acids, lipids, fats, nucleic acids and their metabolic pathways. Lectures, theoretical assignments, lab experiments and R & D lab visits are used to deliver the course.

Pre-Requisite(s) - CHEM 105, BIOL100

BIOT 205 General Microbiology

General Microbiology deals with the principles of microbiology and their impact on environment and human life. It includes the evolution process, features of microbes like virus, bacteria, fungi and genetics related to these microbes and their metabolism. Students are introduced to emerging technology like rDNA technology using microbes, soil microbiology, drug microbial resistance as well as characterization mechanisms of microbes. Lectures, hands-on lab sessions, assignments, and R & D lab visits are used to deliver the course. *Pre-Requisite(s)* - *BIOL100*

BIOT 210 Molecular Biology

Molecular Biology deals with the principles of molecular system in a living being. It includes the genetic formulation of a cell relevant to genes, genomes, subcellular genetic elements and DNA. Students are introduced to system biology, DNA sequencing, regulation of genes & their expression along with synthetic biology, transcription and translation of a cell. Lectures, theoretical assignments, lab experiments and R & D lab visits are used to deliver the course. *Pre-Requisite(s) - BIOL100*

BIOT 215 IPR, BIOSAFETY & BIOETHICS

The course focuses on analyzing ethical aspects involved in biotechnology. In this various topics like concepts of ethics and safety that are essential for different disciplines of science, procedures involved, protection of intellectual property and related rights are discussed. Students learn about the scientific basics and will also investigate and present viewpoints on ethical issues in various fields of biotechnology. Lectures, theoretical assignments and demonstrations are used to deliver the course.

BIOT 300 Analytical techniques in biotechnology

This course provides an introduction to the fundamental principles underlying important analytical techniques used in modern biotechnology. It deals with review of general principles of analytical instrumentation, general terminologies used and performance assessment of biological experiments. Students are also introduced to different bio analytical techniques along with their theory, common instrumentation and possible applications. Lectures, theoretical assignments and demonstrations are used to deliver the course. This course also provides

hands on training in operating instruments like compound microscope, UV visible spectrophotometer, IR spectroscope etc and analyzing samples for different biological applications.

BIOT 305 Biochemical Thermodynamics

Thermodynamics is considered as one of the essential tools to analyze biological systems. It relates work, heat, temperature, and states of matter to each other. It helps the students in predicting the feasibility of a process or a chemical reaction and to determine the extent to which a process can attain equilibrium under a given set of conditions. The course focusses on laws of thermodynamics and its significance in biochemical processes. Lectures, theoretical assignments, and demonstrations are used to deliver the course.

BIOT 310 Plant and Animal Biotechnology

This course deals with the concepts of plant and animal biotechnology in agricultural sciences, industry, and medicine. It focusses on the fundamentals of evolution of farm animal biotechnology, embryo transfer techniques and its preservation methodologies. Students learn the applications of biotechnology like crop improvement, remote sensing mechanism and different sources of animal husbandry. Lectures, assignments, and case studies are used to deliver the course.

Pre-Requisite(s) - BIOL 100, BIOL 200

BIOT 315 Bioinformatics Final

This course is an introduction to the application of computational methods to biological data analysis and proteomic discovery. It focuses on the various biological data using BLAST and FASTA tools. Topics include sequencing of biological databases like Genbank, NCBI, Pubmed, Data mining and their predictive methods of detection. Laboratory exposure with computational approach for the application of biological data interpretation using various tools and softwares are used to deliver the course. *Pre-Requisite(s) - CSCI 200*

BIOT 320 Environmental Biotechnology

The subject introduces the fundamental concepts and applications of biotechnology in all aspects of environment including its protection, restoration and sustainability. This course applies biochemical and microbial principles in the application of microbial systems to remediate environmental issues and examine microorganisms. Topics are structured to provide the students with fundamental concepts of environmental biotechnology, role of biotechnology in pollution abatement, bioremediation and biodegradation principles, processes and applications will be discussed. Lectures, assignments, and demonstrations/site visits are used to deliver the course. *Pre-Requisite(s) - BIOL 100*

BIOT 325 Downstream processing

Downstream processing is a significant step of bioprocess where the crude product is processed to attain purity and quality requirements. The course covers various topics like cell breakage, isolation of solids, product recovery, product polishing, finishing etc. Students will learn various separation and concentration techniques such as extraction, adsorption and membrane separation. Furthermore, the theoretical and practical aspects of purification by means of precipitation and chromatography is addressed. This course also provides hands on training in downstream processing through simple experimentations in the laboratory. Lectures, theoretical assignments and demonstrations are used to deliver the course.

Pre-Requisite(s) - BIOT 205, BIOT 210

BIOT 330 Immunology and Serology

This course deals with the concepts of immune system and serology of human. It focusses on the fundamentals of antigen, immunoglobulins, cell regulation, and immunity related to various types of diseases. The topics include

innate and acquired immunity, markers and receptors related to them, immunopathology, acquired immune deficiency and the serology of associated diseases. The course is structured to provide the students with immense knowledge on the molecular level approach of cellular organs, receptors and their role in immune responses. Lectures, theoretical assignments, lab experiments and R&D site visits are used to deliver the course. Pre-Requisite(s) - BIOL 100, BIOT 210

BIOT 335 Introduction to Nanoscience & Nanotechnology

Nanotechnology is a fast-growing interdisciplinary scientific field leading to applications in a wide range of science and engineering fields. This course introduces basic principles and theories relevant at the nanoscale dimension. Different properties of nanomaterials in comparison with bulk materials and its applications in engineering, materials, biology, electronics, and energy are also discussed. Lectures, theoretical assignments and demonstrations are used to deliver the course. This course also provides hands on training in the synthesis of nanomaterials by different methodologies and its characterization by DLS & UV visible spectrophotometer.

BIOT 400 Food Biotechnology

Food biotechnology focuses on the role of natural science and genetics in food industry. This course gives an insight to the students in various mechanisms using enzymes for microbial system, dairy products, cross-linking of proteins and role of biotechnology in beverages. Topics also include genetically modifies food & animals, impact of carbon print and role of nanotechnology in food industry. Lectures, assignments, and case studies are used to deliver the course

BIOT 405 Biopharmaceutical Technology

Biopharmaceutical technology deals with the drug administration and drug development strategies of industry. Students explore the pharmaceutical formulations and physiochemical properties involved in the drug development. Topics include pharmacokinetics and pharmacodynamics of a drug, rheology, polymers in drug, radio-pharmaceuticals and biotechnology based drug delivery systems. Lectures, assignments, and case studies are used to deliver the course.

BIOT 410 Nanobiotechnology

This course provides an insight into the fundamentals of nanotechnology in biological and biomedical research. It will guide the students to understand the significance of nanomaterial and demonstrate the role of bionanomaterials with the principles of biotechnology and nanotechnology. Topics include interphase system, microfluidics and nanostructures, cell-nanostructure interaction, protein based nanostructures, microbial nanoparticle production, polymer nanocontainers, DNA template electronics, DNA- gold nanoparticle, bioconjugate nanoparticles and their applications. Lectures, theoretical assignments and case studies are used to deliver the course

Pre-Requisite(s) - BIOT 335

BIOT 415 FERMENTATION TECHNOLOGY

Fermentation technology emphasizes on the application of biological and engineering principles related to problems involved in biological & biochemical systems. Main aim of this course is to provide technical and biological knowledge related to the microbial utilization in production of metabolites. Students will be exposed to topics like media used for fermentation, microbial growth kinetics, and different type of fermenters & application of fermentation technology. Lectures, theoretical assignments and demonstrations are used to deliver the course.

Pre-Requisite(s) - BIOT 325

BIOT 420 Applied and Industrial Microbiology

This course focuses on the role of micro-organisms in industrial applications. It includes the generation of microbial products and biosynthetic pathways of micro-organisms. Students are introduced to different methods of preservation of industrial organisms, significance of fermentation in microbial industry, bioleaching, single cell protein and fermented food production. Lectures, theoretical assignments and case studies are used to deliver the course.

BIOT 425 ADVANCED INSTRUMENTATION TECHNIQUES

Advanced instrumentation techniques deals with the application of instrumental methods in qualitative and quantitative analysis of compounds and biomaterials. Students are exposed to advanced knowledge on the principle, instrumentation & application of UV Visible spectroscopy, IR spectroscopy, Raman spectroscopy, HPLC, and gas chromatography. Application of electron microscopic studies of biomaterials and nanomaterials are also included. Lectures, theoretical assignments and demonstrations are used to deliver the course. *Pre-Requisite(s) - BIOT 300*

BIOT 430 Biotechnology and Genetic Engineering

This course deals with the fundamentals of biotechnology and genetic engineering in various medical and health science applications. Students are exposed to in-vitro culture mechanisms relevant to gene transfer and disease diagnosis. Topics include molecular markers and plant breeding, application of genetic engineering bio-industries, transmission of transgenes through food and regulatory mechanism in genetic improvement. Lectures, assignments, and demonstrations are used to deliver the course. *Pre-Requisite(s) - BIOL 100, BIOT 210*

BIOT 435 ENZYME ENGINEERING & TECHNOLOGY

Enzyme technology deals with biochemical nature of enzymes and its industrial application. The course covers topics like basic enzymatic concepts, enzyme kinetics, enzyme inhibition, various characterization techniques etc. This will help students to acquire advanced knowledge about the technical use of enzymes and the possibilities to change and improve enzyme performance for adaptation to technical applications. This course also provides hands on training in enzyme extraction, purification, & its characterization through simple experimentations in the laboratory. Lectures, theoretical assignment and demonstrations are used to deliver the course. *Pre-Requisite(s)* – *BIOT 200*

CHEM 100 General Chemistry

The motive of this course is to develop analytical techniques, principles, methods to understand different Engineering materials. Through this course, students will gain technical knowledge, skill and also to identify, comprehend and solve problems in industry, research and academics. This course also brings adaptability to the concepts of chemistry and to acquire the required skills to become successful/perfect engineer. The students will acquire knowledge of water technology, polymer science, spectroscopy and concept of corrosion and to apply them into respective field of Engineering. Lectures, theoretical assignments and demonstrations are used to deliver the course.

CHEM 105 Organic chemistry

This course introduces fundamental concepts of organic molecules and its significance in a chemical reaction. It encompasses nomenclature, classification of organic molecules, bonding and functional groups. Students learn the mechanistic theory of chemical reactions in the context of free radical reactions, substitution reactions and

elimination reactions. Chirality and stereochemistry of molecules will help the students to understand the three dimensionality of organic and biomolecules and their significance Lectures, theoretical assignments and experimentations are used to deliver the course.

CHEM 110 Remedial Chemistry

The course is essential to develop analytical capabilities of students so that they can characterize, transform and use materials in engineering and apply knowledge in their field. The course deals with various types of fundamental properties of atoms and molecules. It includes the study of periodic table, basic rules of organic chemistry and aspects of inorganic chemistry. Topics include chemical equilibrium and kinetics, concept of electrochemistry, volumetric analysis.

Pre-Requisite(s) - Basic Knowledge of Mathematics

CIVL 200 Surveying

Understanding the principles of surveying is a primary need to any Architect involved in design and construction of any Civil Engineering project. Students study about various principles of surveying, chain surveying, levelling, traversing, preparation of contour maps and global positioning systems. Lectures, analyzing numerical solutions and hands on experience in the surveying laboratory are main teaching and learning aids of this course.

CIVL 205 Theory of structures I

Understanding the basic principles of mechanics of structures is vital for an architect, an artist who is competent to resolve design and construction problems. Students learn about Concepts of stress and strain in various systems of forces, understand the behavior of various structural materials, identify and analyse the critical elements in the structure. Fundamentals of applying equilibrium, compatibility, and force deformation relationships to structural elements are emphasized. Lectures, analyzing numerical solutions and hands-on experience in the solid mechanics laboratory are the main teaching and learning aids of this course.

CIVL 210 Theory of structures II

Knowledge about concepts of determining structural stability and determinacy, analysis of statically determinate structures is very important for an architect to realize the feasibility of architectural layouts that is suitable for structural adaptability. Students learn about advanced concepts of structural analysis to identify various parameters to be considered for design while preparing the architectural drawings. Complex structural includes truss, arches, long-span structures and special form of structures that will be focused for its application. Lectures, analyzing numerical solutions and hands-on experience with real-life model are the main teaching and learning aids of this course

CIVL 215 SURVEYING AND GEOINFORMATICS

Understanding the principles of surveying is a primary need to any Civil Engineer involved in design and construction of Civil Engineering project. Students study about various principles of surveying, chain surveying, levelling, preparation of contour maps, curves, triangulations, hydrographic surveying, mine surveying including advanced techniques like remote sensing, photogrammetry and geographic information system. Lectures, analyzing numerical solutions and hands on experience in the surveying laboratory are main teaching and learning aids of this course.

CIVL 235 Theory of structures III

Soil engineering is necessary for every architect to learn as all structures rests on ground, and understanding of structural design philosophies of super structure and sub structural elements is very critical to develop a feasible architecture layout. Students learn about analyzing soils required for design of foundations, focuses on Limit

State Methods of Design and the students will learn to use output of Structural Analysis to design different elements according to the codal provisions and detailing of the reinforcement. Lectures, analyzing numerical solutions and hands-on experience with real-life model are the main teaching and learning aids of this course

CIVL 225 TRANSPORTATION ENGINEERING

Knowledge on transportation engineering is necessary for every Civil Engineer as they will be involved in design and construction of various transport systems like roads that are used in everyday life. Students learn about various principles of highway engineering focusing on planning of various traffic surveys (example: spot speed study), geometric design, traffic engineering as well as pavement materials and design. Lectures, analyzing numerical solutions, and hands on experience in the transportation laboratory are the main teaching and learning aids of this course.

CIVL 230 BUILDING MATERIALS

Knowledge on various building materials is a prime need for any Civil Engineer as all constructions are made of different materials. Students study about various building materials like stones, bricks, timber, cement, mortar, concrete etc. along with laboratory testing, field testing that helps in selection of materials during construction. In addition, students learn about different building foundations, construction systems, ventilation systems, and plumbing systems used in buildings. Lectures and hands on experience in the testing laboratory are main teaching and learning aids of this course.

CIVL 300 Structural Analysis

Understanding concepts about basic and complex Structural analysis/design process is very important for a civil engineer from all domains to work with construction in site, it aids to specialize in structural engineering field. Structures subject to analysis include all that must withstand loads, such as buildings, bridges, vehicles, machinery, furniture, soil strata. Students learn about advanced concepts of structural analysis to identify various parameters to be considered for design while preparing the design drawings. Complex structure includes truss, arches, long-span structures and special form of structures that will be focused for its application. The results of the analysis are used to verify a structure's fitness for use, often saving physical tests. Lectures, analyzing numerical solutions and hands-on experience with real-life model are the main teaching and learning aids of this course.

CIVL 305 SOIL AND ROCK MECHANICS

Soil mechanics and rock mechanics knowledge is necessary for every Civil Engineer to learn as all structures rests on ground. Students learn about analyzing mechanics of soils and rocks required for design of foundations. Lectures, analyzing numerical solutions, field visits and hands on experience in the geotechnical laboratory are the main teaching and learning aids of this course.

CIVL 310 FOUNDATION ENGINEERING

Knowledge of foundation engineering is necessary for any Civil Engineer as it is required to design/construct foundations for various Civil Engineering structures in practice. Students learn about subsurface exploration, selection of foundation type as well as analysis and geotechnical design of shallow foundations and pile foundations. In addition, students study about foundations on problematic soils and get introduced to geosynthetics and retaining walls. Lectures and analyzing numerical solutions are the main teaching and learning aids of this course.

CIVL 315 Design of reinforced concrete structures

In-depth knowledge and skill for the design of different elements of a building structure using reinforced concrete are very critical for a civil engineer to work in any field of built environment. The structure being the back bone of construction, starting from the design phase till the execution phase a civil engineer will be closely working with the reinforced concrete elements. Students will learn about basic elements governed by bending, shear, axial forces or combination of them are identified and are considered as building blocks of the whole structure. Different methods of design will be briefly described before introducing the limit states of collapse and serviceability. The design will be done as per international standards. Lectures, analyzing various case studies focusing on design applications and hands-on experience in the concrete laboratory are the main teaching and learning aids of this course. *Pre-Requisite(s) - CIVL 300*

CIVL 320 WATER RESOURCES AND WATER SUPPLY ENGINEERING

Knowledge of water resources engineering is necessary for a Civil Engineer as it is required in the planning and design of various water retaining and canal structures. In addition, understanding water supply engineering is essential for Civil Engineers as they will be involved in water treatment and supply to public. In water resources engineering, students learn about analysis of rainfall data, irrigations systems and canals. As part of water supply engineering, student study about demands of water, quality parameters, treatment methods and distribution networks to the public. Lectures, analyzing numerical solutions and hands on experience of testing water in the laboratory for drinking purpose are main teaching and learning aids of this course.

CIVL 325 Design of steel structures

Today's world is majority of structures are built with steel. In-Depth knowledge of designing and detailing of steel structures is very important for civil engineers in order to make structures safe and serviceable during its life span. Limit State design philosophy is currently used worldwide for design of steel structures and its various components.

Student will learn about behaviour and design of steel structural members according to the limit states design concept. The behaviour and design of tension members, compression members, laterally restrained and unrestrained beams, beam-columns and design of connections will be discussed. Students are expected to obtain basic knowledge about the design and failure mode of steel structural members. Lectures, analyzing numerical solutions and hands-on experience with real-life model are the main teaching and learning aids of this course. STAAD Pro, Excel and SAFE softwares will be used as a tool in this course

CIVL 330 TRAFFIC ENGINEERING MANAGEMENT

Knowledge of traffic engineering is necessary for any Civil Engineer as it is required to plan and design traffic systems for various road transport systems. Students learn about traffic components, assess traffic characteristics and related problems. In addition, students study about traffic planning and it management as well as traffic control devices used in transport system. Lectures and analyzing numerical solutions are the main teaching and learning aids of this course.

CIVL 400 QUANTITY SURVEYING AND ESTIMATION

Knowledge of costing and estimation is necessary for a Civil Engineer to plan quantities of various items required in engineering works. Students learn about detailed estimating of various items in buildings like slabs, beams etc. In addition, students also gain knowledge on preparation of specifications, estimating earthworks and road works. Lectures and analyzing numerical solutions are the main teaching and learning aids of this course.

CIVL 405 WASTE WATER ENGINEERING

Knowledge of waste water engineering is necessary for Civil Engineers as they will be part of design and construction of sewage treatment works and disposal. Students study about characteristics of waste water, AMITY UNIVERSITY DUBAI

assessment of their quantities generated in a community and design of various treatment units involved in the treatment process. In addition, students learn about various aspects related to soil waste management. Lectures and hands on experience of testing waste water samples in the laboratory are main teaching and learning aids of this course.

CIVL 410 Analysis of prestress concrete structures

Precast and prestress concrete construction technology is widely used across the globe for its inherent advantages. It has been widely adopted in all developing countries but limited to infrastructures such as tunnels, bridges and underpasses. Today with critical housing shortage, rising labour and overhead cost use of precast is considered as the future of construction and has put more emphasis on quality and timely delivery of structures. Students will learn about prestressed concrete-prestressing concepts that includes pre-tensioning and post-tensioning, full and partial prestress, the need for prestress, methods of prestressing, forces imposed by prestressing. It also covers special problems in prestressing which includes losses; effect of creep and shrinkage, end block design-bursting and spalling forces in post anchorages, transmission lengths in pre-tensioned members. This course will enable students to design prestressed concrete structures and to identify potential execution methods. Lectures, handson experience with real-life model are the main teaching and learning aids of this course.

<u>CIVL 420 Construction project management</u>

Introducing management concepts and techniques used on construction projects is extremely critical for a civil engineer to understand the life cycle of a construction project from conception through completion and commissioning. Students shall have the skills and knowledge necessary to understand and select delivery and pricing systems, and prepare them to manage, coordinate, and supervise the construction project within the constraints of the project's defined scope, time schedule, budgeted costs, and intended design. The course covers overview of practice of construction management theory, project feasibility processes and real estate development, pre-construction, delivery methods and pricing systems, procurement, project administration, project closeout and commissioning. Lectures, analyzing numerical solutions and hands-on experience with reallife models are the main teaching and learning aids of this course. Primevera and MS project software will be used as a tool in this course.

CIVL 425 Fire and safety engineering

Safety and Fire Engineering is critical to create an atmosphere of safety against fire in any structure. Developing competent fire safety professionals is inevitable and it deals with various methods and techniques required for protecting people, environment and property from fire. Students will learn fundamentals of Fire /Chemical process safety which is critical along with the codes and regulations that determine safety practices that are diverse . It also covers various topics like accident prevention & risk management, fire hydraulics & fire loss control, safety in electrical systems along with fire prevention control, fire design Lectures, hands-on experience with reallife model are the main teaching and learning aids of this course.

CIVL 430 GROUND IMPROVEMENT TECHNIQUES

Knowledge of ground improvement techniques is necessary for Civil Engineers in situations where ground modifications are required to be carried out before construction of any Civil Engineering structure. Students study about various ground improvement techniques like mechanical modification methods, hydraulic modification methods, soil-reinforcement techniques, grouting techniques etc. In addition, students learn about how to conduct lab experiments and identify soil characteristics before and after modification. Lectures and hands on experience of testing soil samples in the laboratory are main teaching and learning aids of this course.

CIVL 440 HEALTH SAFETY AND ENVIRONMENT Final

Knowledge of health, safety and environment (HSE) is required for every Civil Engineer to plan various construction activities at site keeping view the wellbeing of various site personnel and environment. Students learn about various hazards with their control systems, regulations and guidelines. Students will acquire knowledge on emergency preparedness like what to do, whom to notify when something happens at the site considering various hazards associated with construction activities. Lectures and site visits to construction sites are the main teaching and learning aids of this course.

CSCI 100 Computer Applications I

Application of Computer-Aided Design (CAD) enables the design process be developed, modified, and optimized for architects. Students learn to place emphasis on modeling objects and spaces, rendering with the appropriate use of materials and lighting, and presenting and visualizing designs to get a better representation of designs in 2Dimesnion and 3Dimension. Students can prepare presentations and portfolios with the latest modeling software, tutorials, and hands-on experience.

CSCI 200 INTRODUCTION TO COMPUTERS AND PROGRAMMING

Computers are the main part of information technologies. It is required to develop programs. Students will learn the history of computer, hardware, software, number system, c programming concepts like operators, expressions, arrays, loops, control structures, and file handling. Lectures, Laboratory sessions, assignment and project will be used to deliver the course

CSCI 205 Object Oriented Programming using JAVA

Industry uses the Object-oriented programming (OOP) model to organize software design around data or objects rather than functions and logic. The student will learn about Object-Oriented Programming, Decisions, Control statements and Loops, Arrays, Class and objects, Inheritance and Interfaces, Exception Handling, Object-Oriented Design, Recursion, Databases, Connectivity and GUI in the Java programming environment. Lectures, practical lab sessions, and assignments will be used to deliver the course.

CSCI 210 Database Management Systems-Syllabus

Database management system serves the foundation needs with a career in database development or data warehousing for business intelligence specialization. Students will learn to create relational databases, write SQL statements to extract information to satisfy business reporting requests, create entity relationship diagrams (ERDs) to design databases, and analyze table designs for excessive redundancy. The course will be delivered in both theory and hands-on practical approach to work on rigorous database querying, optimization techniques, database tuning, normalization techniques, transaction processing, concurrency control and recovery and new application developments

CSCI 215 Data Structures and Algorithms

Computer scientists use the data structures for efficient data persistence. Students learn the concepts of linear and nonlinear data structure, various sorting and search techniques and the use of basic algorithm analysis including both theoretical and empirical methods. Hands-on sessions focusing on basic data structure algorithmic concepts, project, assignments and lab sessions are used to deliver the course. *Pre-Requisite(s) - CSCI 200 or ITEC 105*

CSCI 220 Computer Applications II

Building Information Modeling (BIM) is the foundation for digital transformation in the architectural, engineering, and construction (AEC) sector. Students are enabled to explore tools and techniques with the BIM software to create drawings and 3D models and set them up as working drawings to communicate the design ideas

and generate a workflow. The course lay emphasis on Design detailing with material and finishes, area calculations, Perspective views, Walkthroughs and detailed Schedules. *Pre-Requisite(s) - CSCI 100*

CSCI 225 Computer Applications III

Architectural visualization facilitates the communication of ideas between architects and their clients. It enables architects and designers' collaboration and communication more efficiently. Students learns an advanced threedimensional modeling, rendering and presentation software package for 3D visualization and design presentation with rendered views walkthroughs. They utilize their learning skills to develop their projects and design analysis outcome, which will enhance their visualization skills, as well as generative types of CAD concepts. The course covers use of software to model, apply material, add lights and cameras, render still images and animate architectural or interior scenes and explore the process in architectural design working. *Pre-Requisite(s) - CSCI 220*

CSCI 300 Operating System

Operating systems are main components of recent computer technology. It is software that bridges users and hardware. It manages memory, processes, processor, software, and hardware. The primary purpose of this course is to understand processes under the operating systems and improve students' skills to develop applications on the subsystems of operating systems. Lecture, Laboratory sessions, Assignment, case discussion and presentations are used to deliver the course.

CSCI 305 Computer Architecture and Organization

Computer Architecture and Organization is the study of internal working, structuring, and implementation of a computer system. Student will learn internal hardware connections, structures and behavior of the computer system. The course covers the concepts of Computer Organization and Design, Micro-Programmed Control, Central Processing Unit, Memory Organization and Multiprocessor. Lectures, Practical and theoretical assignments will be used to deliver the course.

Pre-Requisite(s) - EEEN 215

CSCI 315 Theory of Computation

Computer scientists and mathematicians use theory of computation to simplify the logic of computation using computational models and to address the issues of which problems can be solved by computational means. Students learn the general theory of automata, regular and context free languages, pushdown automata, Turing machines, linear bounded automata, computability and complexity theories. Lectures focusing on applying theory of automata concepts, assignments and computational models case studies are used to deliver the course.

CSCI 320 Analysis and Design of Algorithms

Computer scientists use advanced algorithmic concepts to solve complex real-world problems. Students learn advanced data structure, elements of dynamic programming, greedy algorithms, graph algorithms and methods for designing and analyzing efficient algorithms and their implementation. Lectures focusing on applying advanced algorithmic concepts, project, assignments, and Lab sessions are used to deliver the course. *Pre-Requisite(s)* - *CSCI 215*

CSCI 310 Principles of Programming Language

Programming languages are an essential part of computer science. Various languages have their own structures. The purpose of this course is to facilitate the adaption of an individual to new languages by presenting basic programming after examining the basic and common methods of programming languages. The students will learn Programming Languages Design Criteria, Functional, Logic, Object Oriented, and Parallel Programming concepts. The course will also cover syntax, basic semantics, and data types. Lectures focusing on principles of programming languages, project, and assignments are used to deliver the course.

CSCI 325 Compiler Construction

Compilers are used in computer to translate the source language in to target language. This course is designed with the aim of enriching the knowledge and understanding of students in various phases of compiler and its use. Student learn syntax specifications of programming languages, parsing theory, top-down and bottom-up parsing, parser generators, syntax-directed code generation, symbol table organization and management, dynamic storage allocation and code optimization. Lecture sessions focusing on compiler construction concepts, assignments and lab sessions are used to deliver the course. *Pre-Requisite(s): CSCI 200, CSCI 215, CSCI 315*

CSCI 330 Computer Networks

Industry uses a computer network to interconnected computing devices that can exchange data and share resources. The student will learn about computer networks, their components, and network reference models. The course covers the concepts of routing algorithms, addressing, and network security. Lectures, Practical lab sessions, simulations, case studies and assignments will be used to deliver the course.

CSCI 335 Software Engineering

Software Engineering is used for a systematic, disciplined and quantifiable approach for the development, operation, and maintenance of software. Students learn how robust software systems are built most economically to assure the best quality and maintenance techniques in the software industry through life cycle models, software reengineering techniques, test methods and UML diagrams. The course will be delivered using lectures and lab sessions, projects and case studies.

Pre-Requisite(s): CSCI 205

CSCI 340 Computer Applications IV

Visualization in design aids in the communication of data between interior designer and their clients. It improves the capacity of designer to collaborate and share information. Students are exposed to a state-of-the-art 3D modelling, rendering, and presentation software package for creating visually stunning presentations of their designs with interactive 3D models and rendered views. They apply what they've learned to create projects and the results of design analysis that will improve their visualization abilities and understanding of generative CAD concepts. The course covers use of software to model, apply material, add lights and cameras, render still images and animate architectural or interior scenes and explore the process in interior design working. *Pre-Requisite(s)* - *CSCI 225*

CSCI 400 Artificial Intelligence

Artificial Intelligence aims to mimic the cognitive efforts of humans to equip machines with automated problemsolving capabilities. Students will learn concepts and strategies that form the core of artificial intelligence, including fundamental concepts like AI-based problem solving, knowledge representation, understanding of natural language, expert systems, and learning. Lectures focusing on AI fundamentals, Lab sessions, project, and assignments are used to deliver the course.

CSCI 405 Parallel and Distributed Computing

Current computing problems require solutions that can provide a parallelizable and distributable application. Developing these solutions requires concepts that can provide a bedrock for scalable platforms and architecture. The students will learn the foundations for designing distributed applications with a parallelizable set of operations. This course covers necessary foundations, including parallel computing platforms, design of parallel algorithms, programming using message passing and shared address space, distributed computing paradigm, and the design of a fault-tolerant system. This course includes alternative parallel computing methods with their advantages and drawbacks. Lectures focusing on parallel and distributed computing principles, project, and assignments are used to deliver the course.

Pre-Requisite(s) - CSCI 300

CSCI 410 Digital Image Processing and Computer Vision

Digital Image processing and Computer Vision are core domain applications of Artificial Intelligence used to solve complex real-world problems in various industries. The students will learn to apply multiple techniques, such as Image Enhancement and Segmentation, Color Image Processing, Morphological Image Processing, and Object Representation, which will help them design efficient algorithms for real-world applications. Lectures focusing on Digital Image processing and Computer Vision fundamentals, projects, and assignments are used to deliver the course.

CSCI 415 AI for Data Analytics

Data analytics helps analyze raw data and detect the hidden patterns, which is then needed to develop logic for better decision making. The students will learn the foundations required for the transformation process from information to knowledge to understand the hidden models inside the humongous data, which plays a vital role in developing efficient AI-based systems. It includes topics such as introduction to analytics and artificial intelligence, predictive analytics and machine learning, prescriptive analytics and big data, robotics, social networks, AI and IoT, and caveats of analytics and AI. Lectures focusing on AI and Data Analytics fundamentals, project, and assignments are used to deliver the course.

CSCI 420 Natural Language Processing

Natural Language Processing (NLP), a subdomain of Artificial Intelligence (AI), provides a mechanism for computers to understand and respond to humans in different spoken and written languages. The students will learn how NLP helps in providing solutions to performing language-related tasks of humans by a computer. It covers the concepts required for analyzing a language. It gives an overview of language modeling and will include topics such as word level and syntactic analysis, semantic analysis and discourse processing, natural language generation and machine translation, information retrieval, and lexical resources. Lectures focusing on Natural Language Processing fundamentals, project, and assignments are used to deliver the course.

CSCI 425 Cognitive Robotics

Cognitive robotics, one of the subdomains of Artificial Intelligence (AI), aims to understand robotic cognition and perception, which will help the designer perform tasks to improve the depth of the generated knowledge. The students will learn the underlying concepts of cognition to feed as knowledge to robots, which in the future will play a major role in automated and knowledge-based decision control systems. It covers core topics such as robot cognition and perception, Designing Modular AI Robots, reactive and deliberative functionalities, and Ethics of Building Intelligent Robots. Lectures focusing on Cognitive robotics fundamentals, projects, and assignments are used to deliver the course.

CSCI 430 Machine Learning

Machine learning algorithms aim to solve major cognitive and computational problems for multiple industries. The course aims to introduce the concepts, theories, and state-of-the-art algorithms for machine learning. Students will learn theories and practical aspects of machine learning techniques, consisting of regression, clustering, classification. Lectures focusing on machine learning fundamentals, project and assignments are used to deliver the course.

CSCI 435 Neural Networks

Artificial Neural Networks are one of the core domains of Artificial Intelligence that mimic the human brain behavior through some complex mathematical models to solve computational and cognitive real-world problems. The students will learn the application of this method in various domain applications. It covers the foundations required for the understanding and the utility of Neural Networks, and includes topics such as Convolutional Neural Networks (CNN), Sequence Modeling (RNN and LSTM), Autoencoders and Deep Generative models. Hands-on sessions focusing on machine learning fundamentals, project and assignments are used to deliver the course.

CSCI 440 Advanced Computer Networks

Computer network refers to interconnected computing devices that can exchange data and share resources with each other. Student will learn about, computer and information network, DNS, network and cyber security, wireless mobile network, socket programming, and network access control. Lectures, simulation exercises, case studies and assignments, will be used to deliver the course. *Pre-Requisite(s) - CSCI 330*

CSCI 445 Applied Cryptography

Cryptographic mechanisms are used in digital world for a wide array of communication and data protections. Students learn to the areas of cryptography and cryptanalysis. This course develops a basic understanding of the algorithms used to protect users online and to understand some of the design choices behind these algorithms as well as secure key management. Lecture sessions focusing on applied cryptography concepts, assignments and case studies are used to deliver the course.

CSCI 450 Network Security

Network Security is being used to protect the network infrastructure from various types of attacks. This course provides conceptual understanding of network security issues, challenges, and mechanisms. Students learn the cloud security, web security, wireless security, and IP security issues and how to protect the network infrastructures using the security tools and to implement the required algorithms. Lectures focusing on network security concepts, assignments, and case studies are used to deliver the course.

CSCI 455 Digital Forensics

Digital forensic principles are applied in the industry primarily for digital investigations. Students will learn about the definitions and working of cyber-forensics, cyber laws, and regulations. The course also gives students the knowledge related to Digital-Forensics, Cyber Law, and Social media forensics. Lectures, theoretical assignments, and case studies based on crime scenes will be used to deliver the course.

CSCI 460 Security Policy, Laws, and Governance

To ensure compliance and its efficacy in technology infrastructure, cyber security policy, governance structures for policy creation, selection, and implementation of policy, along with audit and control functions, are important. Students will learn about the national and international policy and legal considerations related to cybersecurity and cyberspace, such as privacy issues, intellectual property, cybercrime, homeland security and cyber warfare, and the regulatory bodies involved in formulating such policies. Lectures, theoretical assignments, and case studies based on security, law and governance will be used to deliver the course.

CSCI 465 Information Security Management

Information security management plays important role to ensure the security of network infrastructure. This course provides the managerial approach to information security and a thorough treatment of the secure administration of information assets. Students learn how to manage the use of information assets securely and support the goals and objectives of their organizations through effective information security governance, risk management, and regulatory compliance. Lectures focusing on network security concepts, assignments, and case studies are used to deliver the course.

EEEN 100 Digital Logic and Circuit Design

Digital logic and circuit design are the foundation of all modern electronic devices, such as cellular phones, laptop computers, and digital cameras. The student will learn about the design process of combinational and sequential logic design, engineering and technical documentation. Lectures, lab sessions, assignments, and activity-based learning will be used in delivering the course.

EEEN 200 Basic Electrical and Electronics Engineering

Knowledge of DC & AC circuits, different testing parameter & designing single phase, three phase transformers is paramount importance in electrical engineering. This course provides an introduction of electrical engineering fundamental law's and network theorems, analysis of AC & DC Circuits, Working principles of transformers and semiconductor devices. Hands on sessions, Assignment, Industry visits, design problem will be used to deliver the course.

EEEN 205 Circuit & Systems

The Understanding and knowledge of this course is essential to use in advanced level course of electrical engineering for analyzing & design circuits. Students understand analyzing concepts relating to network analysis

in time & frequency domain using Laplace transformation & other method to make them proficient in analyzing circuits, construct and interpret circuits diagrams and network synthesis. Topic includes Graph theory, networks analysis for dc & ac circuits, foster & Cauer method for network synthesis. Hands on sessions, Hand on sessions, Assignment, reading material will be used to deliver the course.

EEEN 210 Signals and Systems

Signals and systems is used in wide range of engineering system like voice processing, image processing data processing, cellular networks which is integral part of analog and digital communications. This course covers the application of mathematical tools like Laplace transform for analyzing in the frequency domain of various electrical circuits. It also covers the Continuous time Fourier transform, Discrete Time Fourier Transform, Z Transform for analyzing the digital systems and Linear Time Invariant (LTI) systems. It also covers the properties of Laplace and Z transform. Lectures, theoretical assignments, exams, quizzes are used in this course.

EEEN 215 Digital Design

Digital design is used in digital electronics circuits and computers architecture, combine digital components to create circuits that perform fundamental computing tasks such as arithmetic and storage of information. Topics covered include Boolean algebra and binary arithmetic, combinational and sequential logic circuits. Students extend their knowledge to practice by way of hands-on laboratory exercises where various hardware tools are used to design and test solutions for real-world applications, students understand the design of digital computing systems at their most fundamental level and are able to design such systems using modern tools and techniques. Design problems, assignments will be used in delivering the course.

EEEN 220 Microprocessors, Microcontrollers & Interfacing

Microprocessors and Microcontrollers are used extensively in the design of any computing facility and forms the basis of complex computer architecture and embedded systems. The course covers the architecture of 8085, 8051 microcontroller, instruction sets & assembly language programming, simple programs in 8085 to solve problems like arithmetic and logical operations, Interfacing of Microcontroller with motors, sensors, ADC, and DAC, and programming using C programming. In addition, Timers, counters, serial interface, hardware and software interrupts, and, the application of timers and counters in programming are given. The material is delivered through lectures, slides, labs, assignments, and project presentations. *Pre-Requisite(s): EEEN 210*

EEEN 300 Linear Integrated Circuits

Linear Integrated circuits forms the basics of working and manufacturing of all analog IC in the industry. It covers the equivalent circuit pin configuration, and application of operational amplifiers like summing amplifier, subtractor, differentiator, integrator, log and antilog amplifiers. This course also covers the aspects of wave form generations like square wave form generation, triangular wave form generation, 555 timers and its applications, design of ADC and DAC using operational amplifier. Lectures, theoretical assignments, exams, quizzes are used in this course.

EEEN 305 Electrical Machines

Electrical generators and motors are widely used in all residential & industrial sectors to generate and consume power. This course covers magnetic circuits, single & three transformers, synchronous generators, testing and performance characteristics; induction motors, power and efficiency expressions. This Course also covers open circuit, short circuit, polarity test of transformers, speed control, load characteristics, and efficiency of shunt, series, and compound DC machines. This course provides Lectures, theoretical assignments, demonstrations, and hands-on training in the laboratory. *Pre-Requisite(s): EEEN 205*

EEEN 350 Matlab Programming

Millions of engineers and scientists worldwide use MATLAB for a range of applications, in industry and academia, including deep learning, machine learning, image and video processing, computational finance, and optimization. This Course includes, interactive lectures with students doing sample MATLAB problems in real time. Iteration, functions, arrays and vectors, strings, recursion, algorithms, object-oriented programming, and MATLAB graphics helps students for the complete practical understating. Problem-based MATLAB assignments are given which require significant time on MATLAB. The course introduce the elements and practicalities of computer programming through the MATLAB mathematical computing environment. Lectures, assignments, exams, quizzes are used in this course.

EEEN 310 Control Systems

Every sector of the industry is linked with the control system in some or the other way and is one of the integral part in space technology, power system, transportation system, and robotics and hence control systems is important in designing electrical and mechanical systems. This course covers the mathematical modelling of first order and second order mechanical systems, electrical systems and determines the transfer function of the system, reducing the transfer function by block diagram reduction technique and signal flow graph. It also covers the transient analysis, steady state error, time domain analysis of the system using root locus, stability analysis using Routh Hurwitz technique, Frequency domain analysis like bode plot, Nyquist plot and compensation techniques to improve the stability. Lectures, assignments, exams, quizzes are used in this course.

EEEN 315 Electronics Measurement and Instrumentation

All the process industries are equipped with variety of measuring instruments to measure the physical parameters and is monitored using digital display devices. The concept behind the measurement system is the sensing element, data manipulation, data transmission and data display element. This course covers the various types of bridges like AC and DC bridges and its application. It also covers some of the transducer used for the temperature measurement like RTD, thermocouple, thermistors, and strain measurement using strain gauges. It also covers the working of Oscilloscope, working principle and types. It covers the working of various display devices, signal generators like square, sine and triangular generators and also the wave form analyzers. Lectures, theoretical assignments, exams, quizzes are used in this course.

EEEN 320 Electromagnetic Field Theory

Electromagnetic field theory emphasize on the use of electromagnetics and its practical applications in power system & electrical engineering. It deals with the study of static electric fields in vacuum and dielectrics, conductors, capacitance, electrostatic energy and forces, static magnetic fields, Biot-Savart law, Ampere's law, Maxwell's equations for time varying fields, Faraday's law, and plane wave propagation, propagation in lossless media, and wave reflection and transmission at normal incidence. The bridge between electric circuits and electromagnetic is done through the study of transmission lines and their lumped-element model, transmission line input impedance, and power flow on lossless transmission lines. The course is delivered through lectures, presentations, and assignments.

Pre-Requisite(s): EEEN 205, MATH 220

EEEN 325 Analog and Digital Communications

Analog and digital communications is used to analyze the continuous and discrete signals in mobile, satellite communications. It covers analog and digital modulation techniques, communication receiver and transmitter design, baseband and bandpass communication techniques, line coding techniques, and noise analysis in various transmission environments. The course, enables the student to use analytical techniques to evaluate the performance of analog and digital communication systems. It is delivered through lectures, presentations, assignments, simulations, labs, and project preparation. *Pre-Requisite(s): EEEN 210*, *MATH 120*

EEEN 330 Power System

The Power Systems course provide students with the necessary information, understanding, and abilities to operate in the electric power sector at a competitive level, including generating electricity, transmitting, distributing, and using it. This is used in diverse spectrum of power industries includes coal, oil and gas-fired power plants, hydroelectric, atomic, and renewable energy power plants. Students uses concepts of Power systems including drawing of single line diagrams build knowledge of synchronous machines & transformers in order to enable students to determine the parameters of transmission lines and gain an insight into the mechanical design of overhead transmission lines and the aspect of neutral grounding, types of insulator cables, construction and losses related to insulating cables rate with an emphasis on developing a conceptual understanding of the Power system as a complex interconnected system. Assignments, design problem, PPT will be used to deliver the course. *Pre-Requisite(s): EEEN 200*

EEEN 335 Analog and Digital VLSI Design

VLSI benefit the designers to model the digital circuits in a flexible way and forms the basics of creating the microelectronic chip by combining millions of transistors. The objective of this course is to facilitate the understanding the basic concepts of CMOS circuits and its characteristics, design and realization of combinational & sequential digital circuits. Architectural choices and performance tradeoffs involved in designing and realizing the circuits in CMOS technology are discussed and the different FPGA architectures and testability of VLSI circuits are covered Lectures, theoretical assignments, exams, presentations are used in this course. *Pre-Requisite(s) : EEEN215*

EEEN 340 Power Electronics

Power electronics is an enabling technology, used in industrial automation, energy generation & conservation and indirectly for environmental pollution control. It covers the working of single phase and three phase inverters, Step up and step down chopper circuits, gate circuit, cyclo-converters, matrix converters, Pulse Converters, gate circuit schemes for phase control and PWM techniques. The course also involves experiment-based learning for the students to understand the concept and its application in industry. Lecture, ppt are also used to deliver lecture. *Pre-Requisite(s) - EEEN 200*

EEEN 345- Instrumentation and control Systems

All the process industries are equipped with variety of measuring instruments to measure and monitor the physical parameters. This course covers the operation and properties of various types of sensors. , bridges and its application, temperature, pressure, flow and level measurement. It also covers the modelling of mechanical, electrical systems, transfer function, transient and frequency response of first order and second order system. Lectures, theoretical assignments, presentations will be used in this course.

EEEN 400 Data Communication Networks

Communication engineers acquire fundamental computer and data Networks skill sets. The topics covered include signal characteristic and data communication; signal encoding techniques; bandwidth utilization, transmission AMITY UNIVERSITY DUBAI
media, switching system and communication networks; flow control technologies wireless WAN, short-and-long range wireless technologies and data link. By course completion students should be able to demonstrate an understanding of the fundamentals of data communication, types of transmission mediums and interfacing standards along with current edge of the data compression techniques. This course provides Lectures, theoretical assignments, and demonstrations.

Pre-Requisite(s) - EEEN 325

EEEN 405 Flexible AC Transmission System

A new technology based on power electronics and offers an opportunity to enhance controllability, stability, and power transfer capability of AC transmission systems. The students will familiarize with the principles of this advanced system which can give them a better understanding of its working in the power industry. This will also enhance expertise in equipment specifications and engineering design, offering an informed view of the future of power electronics in AC transmission. This course explains power semiconductor devices, voltage-sourced and current-sourced converters, specific FACTS controllers including SVC, STATCOM, TCSC, SSSC, UPFC, IPFC plus voltage regulators. Assignment, reading material will be used to deliver the course. *Pre-Requisite(s) - EEEN 330*

EEEN 410 Power System Protection and Switch Gear

The functioning of a power system depends significantly on efficient and reliable protection schemes and learning the principles of electric fault detection is necessary to minimize damage, repair costs, and human casualties. This course examines the protection of power system scenarios with various protection relays and studies the various types of circuit breakers, the arc quenching phenomena, and the protection overvoltage. This course provides Lectures, theoretical assignments, and demonstrations.

EEEN 415 Power Systems Analysis and Stability

The stability of power systems ensures they can function normally upon being subject to different disturbances. The students will learn to apply techniques for power flow analysis and carry out short circuit studies on power systems. The course also enables the students to acquire knowledge of the dynamic behavior of the power system small and large disturbances, and learn techniques to enhance the stability of power system. This course provides Lectures, theoretical assignments, and demonstrations.

Pre-Requisite(s) - EEEN 330

EEEN 420 Industrial Automation and Control

Industrial Automation is the use of machines, control systems, and information technologies to optimize productivity in the manufacturing processes with little human involvement. Industrial automation, which deals with the role of computers in measurement and instrumentation which deals with the data transfer techniques, communication protocol. It gives the students an understanding of the PLC, construction and working about interfacing with field devices and the communication protocol. The course also covers SCADA, DCS and advanced control like fuzzy and neural control. Lectures, theoretical assignments, exams, quizzes are used in this course.

EEEN 425 Smart Grid Technologies

The smart grid concept has experienced major hype in the past few years. The smart grid knowledge will provide invaluable data on the benefits and cost-effectiveness of the smart grid, including energy and cost savings. The objective of this course is to facilitate an understanding of the basic concepts of smart grid technologies. Integrates three areas of electrical engineering: power systems, power electronics, and electric energy conversion systems.

The course will also look into the power quality management issues in smart grid and the high-performance computing for smart grid applications like cyber security. Assignment, reading material will be used to deliver the course.

EEEN 430 Power Plant Instrumentation

The course will give an overview of the various methods of power generation, various measurements required for the power generation which will help students to get the concepts in power industry. The students will be able to understand the different types of instruments used for analysis in power plants. It also covers the monitoring parameters like speed vibration, turbines, and the different types of control and the control loops. It will include the instrumentation used in modern power plant, the various measurement in finding the impurity of waters, PH, and the pollution control. Lectures, theoretical assignments, exams, quizzes are used in this course.

EEEN 435 Solar Cell Engineering

Solar cells are the most prominent renewable energy generation devices and proper grasp on its fundamentals is required to design an effective system. The course comprises of basics of solar cell, parameters for characterization, production process and types of solar cells. Also, latest technologies in the field of solar cells are presented. Lectures, assignments and demonstrations are used to deliver the course.

EEEN 440 Design and Simulation of Solar Cells

Solar energy is widely used form of renewable energy and its efficient utilization requires the knowledge of its design and simulation techniques. The course comprises of introduction to various design techniques for increasing the efficiency of solar cells. Also, information modelling and simulation of solar cells and modules with the help of various photovoltaic software is provided. Lectures, assignments and demonstrations are used to deliver the course.

EEEN 445 Wind Power Technology

Wind power is a historically used renewable source of energy and is still very relevant in current scenario. Therefore, its proper application requires knowledge of its concepts. The course covers aspects such as the history of wind turbine development and the characteristics of the wind. Also, the impact of site selection, design, manufacture, and operation of modern wind turbines is discussed. Overview on different types of horizontal and vertical axis wind turbine is provided. Lectures, assignments and demonstrations are used to deliver the course. *Pre-Requisite(s) - EEEN 200*

EEEN 450 Thin Film Photovoltaics

Thin film photovoltaics is emerging as a useful renewable concept as it reduces the material costs and provide many advantages hence its proper knowledge is needed for successful application. The course comprises of introduction to thin film photovoltaics, their material selection and equivalent electrical models for those. Also, their degradation characteristics are discussed. Lectures, assignments and demonstrations are used to deliver the course.

EEEN 455 Energy Management

Energy management is very crucial in today's scenario when global energy demand is surging and the supply to meet these demands are limited. This course comprises of energy management techniques, systems, auditing and

analysis. Also, information on energy conservations, tools for energy management and monitoring systems is provided. Lectures, assignments and demonstrations are used to deliver the course.

EEEN 460 Energy Storage

Renewable energy sources are known by their variation in time or available power related to meteorology conditions. Therefore development and the realization of energy storage systems are needed. The course comprises of introduction to energy storage, types of energy storage systems and their arrangement and applications. Lectures, assignments and demonstrations are used to deliver the course.

IDES 100 Art & Graphics

Art studies are critical in developing individual's opportunity in expressing thoughts, self-exploration and expressions. It broadens the thinking process with improved ability for problem solving and opens mind to new ideas. The course aims to develop visual thinking and perception on the fundamentals of arts, design and creative thinking respecting context and culture. It provides an introduction to art and its appreciation with the help of design translations in a graphical and artistic manner. Focus made on skill enhancement developing representation techniques via various methods & mediums. The studio course has engagements with lectures, art studies analysis and documentation, museum visits, concept mapping, skill development in creating art presentations, design discussions, consultation, review and critique.

IDES 105 Technical Drawings

Technical drawings are essential for communicating ideas for design and construction details in the interior design industry. The course aims to familiarize students with the drawing tools and accessories used in drafting and lettering techniques to prepare technical drawings. It develops students' basic understanding of scale, measurement, plane geometry, solid geometry, and projections. The course focuses on two-dimensional and threedimensional drafting with graphical representations and appropriate drafting techniques to prepare technical drawings. The course consists of lectures, discussions with subject specialists, and studio work to develop the fundamentals of drafting and drawing abilities.

IDES 110 Materials in Interiors

The selection of right materials and its finishes is crucial in making up of an interior design project with unique aesthetics, styling, durability, efficiency and being sustainable. The course aims to focus on knowledge of materials used for interior applications. Detailed study on properties, variety of finishes, cost aspects and application techniques for construction and surface finishes. Emphasis laid on material classification, emerging technologies, application, trends and practices in interior design projects. The course delivery includes lectures, case studies, market survey, group discussions, interior design project visits, industry visits, studio working with preparation of material boards for varied interior design project typologies.

IDES 115 Colors in Interiors

Color facilitates the communication of design at a visual and psychological level creating the different moods in space with cozy and comfortable environments. The course aims at understanding color, its concepts in relation to Interior Design. Study on the physics of color, color theories, design vocabulary, digital color & the aided systems. Study the theory and practical implementation of color application and its material types applicable to interior projects. Color psychology explored and its effects analyzed for varied interior design typology like residence, commercial, retail, office, institutional, interiors elements, art and furniture's. The studio course has engagements with Lectures, case discussions, site and industry visits along with hands on working on studio task with color and its application as individual and groups assignments to experience its play in interiors.

IDES 120 Fundamentals of Interior Design

Fundamental rules and its application are crucial in creating an effective interior design. Maintaining the balance of the elements, principles and use of design process with sustainable concepts, design solutions is key to an aesthetically pleasing and functional interiors. The course introduces the basic design elements, principles, organization of forms, spaces and its order. The visual perception, ordering principles, circulation, proportion & scale with reference to interior design worked on with studio projects. The design process explored for a single user residential design typology with guiding parameters of design from concept level to design scheme considering anthropometric, ergonometric data and space planning. The studio course has engagements with lectures, site studies, analysis, demonstration for skill development and creative working, documentation, interior project visits, concept mapping, case studies, presentations, design discussions, consultation, review and critique.

IDES 200 History of Interior Design

History of Interior Design uses information of global historical styles pertaining to Interior Design. The course focusses enhancing the students' knowledge of styles, movements, civilizations and factors influencing interior design and furniture of nineteenth and twentieth century. The course enables interior studies based on the influence of art & culture. Lectures, analytical exercises, comparative sketches and hands-on workshops are used to deliver the course.

IDES 210 Interior Design Studio I

Residential interior design enhances the experiences in space with an identity and creates effectiveness, optimization of the available space. The designed projects gets best use for living and working spaces with unique character, easy function low maintenance and considers health, safety and wellness of the inhabitants. The course aims at providing basic information on parameters related to interior design of spaces for residences. Residence interior design developed with analysis, design iterations based on the client brief. The objective is to create interior spaces which are customized, creative and applicable to variable or specified site. The studio will be based on a case based teaching methodology, emphasizing on innovation and unique concepts. The studio course has engagements with lectures, site studies analysis and documentation, interior project visits, concept mapping, case studies, presentations, design discussions, consultation, review and critique. *Pre-Requisite(s): IDES 120*

IDES 215 Textile in Interiors

Interior designers use textile as an important element of soft furnishing in planning and designing a space. The course focuses on various facets of textile: types of fiber, qualities, properties, trends, safety and durability. The course will introduce to yarns, weaving methods and their incorporation into the output and performance of textiles. Further the course emphases on key topics of relevance such as sustainability of materials, durability, effects on the environment and upcoming production technologies. Workshops, hands-on-sessions, market survey, assignments & project on the applications of textiles in interiors are used to deliver the course.

IDES 220 Building Services Electrical and Plumbing

Electrical and plumbing services in buildings are vital for operation, utilization and maintenance systems for user safety, sanitation, and functional requirement. The subject introduces building services and systems, its importance in the built environment and the scope of Interior Designer. Electrical services will explore supply, distribution, and installation of electricity in building; natural & artificial lighting for various interior typologies. Plumbing services will cover water supply, drainage, sanitation, sewage, and waste disposal systems. Services application in projects will cover preparing technical drawings using specifications, local and international codes

& standards and selecting appropriate fixtures & accessories. Lectures, studio sessions, site visits for services integration in buildings, market surveys and projects are used to deliver the course.

IDES 225 Interior Design Studio II (Restaurants)

The design of restaurant interiors strengthens visual impact based on the theme and context Exploring and understating this typology is important as the décor caters comfort, functional needs with variety of dining experiences achieved through the design process. The studio includes theory, case study, drawing methodology to analyze, experiment, design and create a restaurant interior based on a theme with a project brief and specific to a live or hypothetical site. The design covers concept development, space planning, materials study, and client profiling as per the site and context. Additional factors such as sustainability, technological advancements and inter-disciplinary ideas incorporated in the design process. The studio course has engagements with lectures, site studies analysis and documentation, interior project visits, concept mapping, case studies, presentations, design discussions, consultation, review and critique.

Pre-Requisite(s)- IDES 210

IDES 230 Materials & Construction Techniques I

Design detailing with the application of materials, construction techniques and technology knowledge is important in arriving at design solutions from an aesthetic and utilitarian perspective. The course aims at providing information on elements of buildings, its parts with function and terminologies. The study focuses on wood, wooden products, finishes & joinery details. Enables application of the material and construction techniques for design of interior elements like doors, windows, staircase using varied joinery techniques and material finishes. It also includes study of technology for vertical transportation in interiors with market survey, assemblies & construction techniques. The course delivery includes lectures, case studies, market survey, group discussions, interior design project visits, industry visits, studio working with drawings, physical and computer aided models for varied interior design project typologies.

Pre-Requisite(s)- IDES 110

IDES 235 Furniture Design & Detailing

Furniture establish a sense of order with its two and three dimensional design using elements and principles of design. It is crucial to design and detail furniture's based on function, comfort, aesthetics, durability and cost. The course aims at developing an understanding of the nature of furniture design, its origins and evolution. Familiarize the design development from concept to design detailing to shop drawing using appropriate materials and presentation technique. It enables design development and communication using sketches and models. Design ideas explored considering cultural, social, and technological innovation to create an aesthetic, functional & ergonometric furniture designed in relation to the human dimension. The course delivery includes lectures, case studies, market survey, group discussions, Joinery workshops, factory/ industry visits, studio working with drawings, physical and computer aided models for furniture design and its detailing. *Pre-Requisite(s)- IDES 110*

IDES 300 Interior Design Studio III (Retail outlet)

Retails interiors creates an opportunity to allow brands attract customers with bold inviting interior spaces having stimulating experiences. It is important for the design interiors contributing to the fundamental functional objectives, minimized operational cost and maximized sales with customer satisfaction and comfort. This studio focusses on providing students with information and design methodologies required for retail interior spaces. Focus laid on branding methods, visual merchandising, and layout strategies through design measures. The studio enables the students to design a retail interior project based on customer and industry demands in retail outlets AMITY UNIVERSITY DUBAI

with an interior site and context. The design to be communicated with drawings, design details, models and visual presentations. The studio course has engagements with lectures, site studies analysis and documentation, interior project visits, concept mapping, case studies, presentations, design discussions, consultation, review and critique. *Pre-Requisite(s)- IDES 225*

IDES 305 Interior Estimation & Specifications

Theory and practice of writing specification and estimation is essential part of quality & cost control of interior construction and contract administration. The course aims to introduce and familiarize students with procedure & practice of estimation and budgeting interior projects. It focuses on concepts, selection and application of construction processes, materials and finishes including introduction to codes & standards, basic building systems, working drawings and model building relevant to the field of residential and commercial interior design typology. Lectures, tutorials, site visit, guest lecture by industry expert and working on estimation of a small scaled interior project will be part of course delivery.

IDES 310 Professional Practice

The interior design profession continues to be impacted by numerous challenges like managing time, cost, maintaining client expectations. The challenges designers face require them to be creative problem-solvers and sound business managers. This course aims to acquaint students with the norms of professional practice in Interior Design. The course introduces the types of business startups, business development procedures, contracts, and professional ethics in Interior Design. It focus on duties & responsibilities of an interior designer towards clients, industries and teams associated with the projects. Studies conducted on critical approaches to define an understanding of the interior design profession and practices. The course consists of lectures, conference and exhibition visits, case study discussions, and reviews of professional reports and expert lectures to understand the ethics and practices of the interior design industry.

IDES 315 Materials & Construction Techniques II

Interior Design gets enhanced with the material choice, use of appropriate construction technology, and design details of the elements that creates the space with qualities. Application of this knowledge is crucial with consideration cost, durability, performance. The course introduces the construction techniques applicable to the interior elements: Partitions, False ceiling & Floors using a wide range of materials. The study covers the concept of modular design, material properties, specification, construction technology and assemblies for the fit-out elements. It further enhances knowledge of signage, Interior finishes, design & detailing to be applied based on context keeping sustainability, and human health & wellbeing in to consideration. The course delivery includes lectures, case studies, market survey, group discussions, interior design project visits, industry visits, studio working with drawings, physical and computer aided models for varied interior design project typologies. Pre-Requisite(s)- IDES 230

IDES 325 Interior Design Studio IV (Working Drawing)

Working drawings is an important means to communicate the design data in to a construction information for the building industry professional like contractors, manufacturers, fabricators, suppliers. This is crucial part of an interior design spanning the varied phases of the project. The studio focuses on design development and detailing

with preparation of working drawing, documents with technical information and material specifications required for construction purpose. The course enables the use of technical skills based on manual and digital drawing methods. Design details with inclusion of joinery, material finishes, construction techniques, building services following international standards and codes. The studio course has engagements with lectures, site studies analysis and documentation, interior project visits, concept mapping, case studies, presentations, design discussions, consultation, review and critique.

Pre-Requisite(s)- IDES 300

IDES 330 Building Services Mechanical & Acoustics

Mechanical systems and Acoustics in buildings are essential for operation, utilization, functionality and maintenance to provide user comfort, safety and security. Students will be able to incorporate these services in building interiors with specific codes, clients' needs, required capacity & load calculations and use of emerging technologies. The study of mechanical systems will cover HVAC, fire services and mechanical transport, and intelligent systems in buildings. Students will also learn the theory and principles of Acoustics for specific interior applications. Lectures, studio sessions, site visits for services integration in buildings, market surveys and projects are used to deliver the course.

IDES 400 Research Methodology

Research methodology helps to comprehend the basic principles of research focused on Interior design and user experience. Students are oriented towards design research which prepare them to practice interior design profession as knowledge based action. They learn the systematic and appropriate methods of conducting research considering socio-cultural, economic and environmental framework. The course provides an opportunity to explore and present individual research topics in interior design with reference to its theoretical and practical objectives and methodologies for design research. Lectures, tutorials, field research, case studies and report writing are used to deliver the course.

IDES 405 Major Project I

Major project I offers opportunity to demonstrate knowledge and acquired skill sets to visualize, analyze, design and represent complete design solution of a multi-disciplinary interior typology. The course aims to provide design implementation of research (BID 400) done in previous semester. It enables students to create a design project for their selected interior typology focusing on design elements & principles, organization of forms & spaces, visual perception, ordering principles, measurements, circulation, proportion & scale, building systems, sustainable and smart applications, codes, and guidelines. Final portfolio presentation includes design concept, space planning and visualization adding further research in relevant project-specific sub-topics and conducted under the supervision of a faculty member.

IDES 410 Major Project II

Pre-Requisite(s) : IDES 405

Major project II offers opportunity to demonstrate knowledge and acquired skill sets to develop a conceptual Interior design typology to detailed design solution. The subject helps to develop design detailing expertise using different technical skill sets and present a complete interior design solution with working drawings of Major Project I (IDES 405) done in the previous semester. The design portfolio development will include technical construction drawings, furniture, fit-out and finishes, services and systems, safety and security and sustainable design requirements. Studio discussions, design critiques and reviews are conducted under the supervision of a faculty member to deliver the course.

Pre-Requisite(s): BID 400

IDES 415 Universal Design & Ergonomics

Universal design entails design principles that make buildings and environments accessible to all individuals. Accessibility and independence are provided by universal design for individuals with disabilities and injuries. The course introduces the concept of universal design in built environment with the focus on interior design with study on human factors, anthropometry, ergonometric, safety standards and comfort conditions for all age groups: children, adults, elderly and physically challenged. The course covers theory and design methodology for sustainable practices in interior design. The course consists of lectures, conference and exhibition visits, case study discussions, and reviews of reports and expert lectures to understand the application o of universal design in the interior design projects.

IDES 420 Lighting design and technology

Lighting Design has significant contributions towards visual comfort in interior spaces spreading into the realm of shadows, angles, colors and rhythm. The course focuses on analysis and synthesis of the methodological processes and techniques of the artificial lighting design, in relation to production and availability, technological innovation, visual comfort, sustainability and use of cultural aspects. Through this course students will explore lighting design beyond the need for basic visibility. Lectures, market surveys, site visits and project case studies for lighting integration in different types of buildings are used to deliver the course.

IDES 425 Sustainable Interiors

Sustainable interior design seeks to reduce negative impacts on the environment, and the health and comfort of building occupants, thereby improving building performance. The basic objectives of sustainability are to reduce consumption of non-renewable resources, minimize waste, and create healthy, productive environments. The course intends to introduce students to the concept of sustainability in built environment in relation to the interior design practice. It emphasizes on the theory and methodology for sustainable practices, the study on the materials used in interiors construction, energy conservation, thermal comfort, and indoor air quality. The course focuses on philosophy, principles and significance of sustainability that enables students to create a sustainable design solution in the interior design studio, design detailing, material application, and construction. Students will further be able to understand the impact of environmental concerns through the post construction evaluation of interior projects.. The course consists of lectures, conference and exhibition visits, case study discussions, and reviews of reports and expert lectures to understand the application o of universal design in the interior design projects.

IDES 430 Project Management for Interiors

Project Management imparts basic knowledge and skills required by construction project manager, while developing management solutions in a variety of situations. This course enables to provide an overview of components of built environment in general & construction sector. It fosters the knowledge of appropriate theories, concepts, and principles of management used in construction projects. Further, it appraises the overall process within which construction projects are conceived, designed, constructed and evaluate the problems that are encountered in each stage. It also helps students to develop understanding of operation management requirements of construction projects and organizations. The course consists of site visits, conference and exhibition visits, case study discussions, and review of project management reports, experts lectures to acquire skills to pursue a career in construction project management.

IDES 435 Product Design and Branding

Product design is crucial to marketing because it provides an overview of how the company intends to stimulate consumers' interest. Branding is an imperative aspect of interior business. Branded interior design is a crucial tool for reinforcing and strengthening the business, reinforcing the customer relationship, and enhancing the overall customer experience. The students learn the principles of product design with a specific focus on the diversity of AMITY UNIVERSITY DUBAI

materials and techniques applied in the industry. The course introduces the concepts and principles of branding in relation to interior design, considering aesthetic aspects, color psychology, forms and design composition. It explores the design process and methodology for generating product strategy with studies on industry trends and practices. The course consists of lectures, conference and exhibition visits, case study discussions, and reviews of reports and expert lectures to understand the application of product design and branding in interior design projects.

IDES 440 Intelligent Interiors

The interior technology is driven by the demand for greater energy efficiency, increased automation, and enhanced aesthetics. Designers and consumers are seeking technological solutions that are visually appealing as well as technically advanced. The course introduces relate latest technological advancements that help in tapping intelligent interiors. It enables students to analyze theory and practice, as well as expertise across functional areas in making effective decisions to create space equipped with intelligent technology for entertainment systems. The course consists of lectures, exhibition visits, case study discussions, and reviews of reports and expert lectures to understand the application of advance technology in projects to create intelligent interiors.

INTE 300 Internship

Internship provides an opportunity to practice and/or apply knowledge and skills in professional environments and gain valuable work experience. The students will be exposed to the industry environment for a minimum period of 08 weeks duration to understand the operation of the industrial facility. Through course assignments and workplace projects, the student will apply, good judgment and sound decision-making while improving problem-solving, communication, human development, and relationship-building skills. Students select the internship field in consultation with an industry mentor and faculty guide in terms of the academic requirements. Internship evaluation can be based on the quality of projects completed as part of the internship activities. Pre-Requisite(s) - 90 CREDIT HOURS

ITEC 100 IT Fundamental PC Software

Computers have become essential business tools. They are used in every aspect of a company's operations. The student will learn about computer basics, hardware, software, operating system, Microsoft Office, Maintenance and Management, Communication and E-Governance, Network and Internet Connectivity, privacy and security. Lectures, practical lab sessions and assignments will be used to deliver the course.

ITEC 105 Introduction to Programming

Computer programming performs a particular computation by designing and building an executable computer program. The student will learn programming languages, software projects, organizing code, working with data, variables and strings, control constructs, functions, recursion, arrays, and programming tools. The student will also learn about user-defined types, references, pointers and memory management, object-oriented programming characteristics, exception handling, and input/output streams. Lectures, practical lab sessions, quizzes and assignments will be used to deliver the course.

ITEC 200 Network Basics

The industry needs professionals who understand the basics of networks, which is the backbone for the exchange of data and resources. The student will learn about Device Configuration, Protocols and Models, Layering concepts, Security Fundamentals, and Wireless Networks. Lectures, practical lab session, simulations, and assignments, will be used to deliver the course.

ITEC 205 System Analysis and Design

Industry uses systems analysis and design concepts to ensure that a solution fulfils the user's requirements. Students will learn about the systems, roles, development methodologies, organization systems, project management, information gathering, agile modelling, prototyping, scrum, data flow diagrams, data dictionaries, process specifications, object-oriented systems analysis, designing input and output, designing databases, humancomputer interaction and UX design. Lectures, assignments, seminars and case studies based on the Systems Analysis and Design will be used to deliver the course.

ITEC 220 Web Technologies and Applications

The integration of Web technologies has an essential role in accomplishing companies' objectives to raise competitiveness on the market. The students will learn fundamental concepts of web technologies, develop basic skills in creating web pages, and explain the coding behind designing websites. The topics include Hyper Text Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript, database integration, and concepts of mobile developments. Lectures focusing on mobile application development fundamentals, Lab sessions, projects, and assignments are used to deliver the course.

ITEC 225 Cyber and Information Security

Awareness of cyber and information security is becoming important for internet users in the digital world. The student will learn about cyber-attacks, threats, and the various approaches used for information security. Students will also learn about security services, different cyber-attacks and threats, ethical issues in information security, and other cyber and information security approaches. Lectures focusing on cyber and information security concepts, assignments, case studies and industry lectures will be used to deliver the course.

ITEC 300 Computer Communications and Networking

Network and communication are essential requirements in the current digital world. Students learn about data communication concepts, reference models, transmission media, multiplexing, analogue and digital transmissions, error detection and correction, data link layer protocols, routing and IP addressing, transport Layer Protocols, and application layer. Lectures on data computer communication and networking concepts, assignments, and case studies are used to deliver the course.

ITEC 310 Internet of Thing

The Internet of Things (IoT), refers to the billions of physical devices around the world that are now connected to the Internet. Students will learn about the definitions and working of IoT Network Architecture, Smart Objects, Connecting Smart Objects, IoT Access Technologies, Layering concept in IOT, Application Protocols for IoT, Data and Analytics for IoT, Securing IoT, Cloud and Fog Computing for the IoT, and IoT applications and uses in Industry. Lectures, assignments, lab sessions and project based on Internet of Things will be used to deliver the course.

Pre-Requisite(s) - ITEC 200

ITEC 315 Introduction to Open Source Technologies

Open source technology is being used widely in multiple enterprises. Students will learn how robust software can be developed using open-source technologies by using PHP, MySQL. The course will be delivered in theory and practical using PHP, MySQL and other related frameworks and Content Management Systems. Pre-Requisite(s) - ITEC 220

ITEC 320 Python Programming

Industry use of Python programming is for developing websites and software, task automation, data analysis, data visualization, and complex statistical analysis. Students will learn python programming techniques using a popular python data science library, graph analysis, iterations for regressions, classification and predictions. The course will be delivered using lectures, lab sessions, projects and assignments.

ITEC 325 E-Commerce Technology

Industry uses data science methods, tools, processes, algorithms and systems to extract knowledge and insights from various data types. Students will learn about e-commerce, e-commerce business models, e-commerce infrastructure, building e-commerce, e-commerce security, payment systems, WordPress, Woocommerce, online store, marketing and maintaining an online store. The student will also learn to apply and deal with ethical, social, and political issues related to e-commerce. Lectures, quizzes, assignments and projects based on e-commerce will be used to deliver the course.

ITEC 330 IT Project Management

In the IT industry, all projects move through a specific process of managing the plan, organization, and accountability to achieve information technology goals. Students will learn about project management, initiating and planning the project, information technology context, working with management, managing the project scope, organizing and managing a project team, implementing the project plan, project quality management, project resource management, and project risk management, and project procurement management. Lectures, assignments, projects and case studies based on IT Project Management will be used to deliver the course.

ITEC 400 Data Warehousing and Mining

Data warehousing organizes and compiles data into one database, whereas data mining deals with fetching important data from databases. Students will learn about the definitions and applications of Data mining and its tools, Classification, Cluster analysis, Association mining, Web mining and search engine. The student will also learn about Data warehouse, Design and Implement a Data Warehouse, Extract, Transforming, and Load Data, Online analytical processing, and the involvement of Big data, cloud computing and NoSQL with data warehouse and data mining. Lectures, assignments, and case studies based on data mining and warehousing will be used to deliver the course.

ITEC 410 Human Computer Interface

Industry uses Human-computer interaction (HCI) for the design, which focuses on the interfaces between people and computers. Students will learn about usability of interactive systems, universal usability, guidelines, principles, and theories, design processes, evaluation and the user experience, direct manipulation and immersive environments, fluid navigation, expressive human and command languages, communication and collaboration, advancing the user experience, timely user experience, documentation and user support, information search and data visualization. Lectures, assignments, case studies, and project-based learning on HCI will be used to deliver the course.

ITEC 415 Cloud Computing

Cloud computing is an emerging field which is used in the computing field to reduce the cost of developing and installing software to improve business operations. Cloud computing provides reliability, flexibility, high utilization, elasticity, and pay-as-you-go-model while removing the overhead of maintaining a system-specific, fixed-sized cluster of under-utilized machines. Students learn the cloud concepts like SaaS, PaaS, IaaS and IDaaS, data storage using the cloud, Securing, Managing, and Migrating, governing the cloud, cloud architecture and

designing the cloud-based solution. Lectures on cloud computing concepts, assignments, case studies and industry lectures are used to deliver the course. *Pre-Requisite(s) - ITEC 220*

ITEC 420 Digital Marketing

Industry applications of digital marketing are to advertise and promote through digital channels and to connect potential customers using the internet and other forms of digital communication such as search engines, websites, and social media. Students will learn about digital marketing fundamentals, understanding the customer journey in digital platforms, digital marketing strategy development, digital marketing campaign, content marketing, web marketing, social media marketing, and tools and technologies related to digital marketing. Lectures, assignments, projects and case studies based on digital marketing will be used to deliver the course.

ITEC 430 Data Science

Industry uses data science methods, tools, processes, algorithms and systems to extract knowledge and insights from various types of data and apply knowledge from data across a broad range of application domains. Students will learn about the business side of data science, cleaning data, data visualization, machine learning and data science, classification, regression, clustering, statistical inference and version control. Students will also learn to apply the tools for data science, big data analytics and methods related to deep learning and artificial intelligence for data science. Lectures, assignments, projects and lab sessions based on Data Science will be used to deliver the course.

ITEC 435 Blockchain Technologies

As an emerging distributed architecture and computing paradigm, Blockchain technologies have accelerated the development/application of Artificial Intelligence, cyber-physical systems, social networking, and crowdsourcing for trust management. Students learn blockchain technologies and their security with smart contracts to understand their legal ends. Lectures, assignments, and case studies based on Blockchain technologies will be used to deliver the course. *Pre-Requisite(s) - ITEC 200*

ITEC 440 Mobile Development

The number of users of mobile devices (smartphones, smartwatches, and tablets) is exponentially increasing, which has fostered the market demand for mobile application development. The students will learn the key concepts of android, 2-D graphics and multimedia in Android, mobile embedded system architecture, data storage and SQLite operations, mobile applications optimization, mobile cloud computing, and best practices in mobile development. Lectures focusing on mobile application development, Lab sessions, project, and assignments are used to deliver the course. *Pre-Requisite(s) - CSCI 205*

MATH 100 Mathematics I

An introductory level Mathematics course that is essential for the Engineering programs as it provides students quantitative and analytic skills in a science and engineering context. This course introduces to the theory and techniques of single and multiple variable differential calculus. The emphasis is on problem solving in a science and engineering context. Topics include functions and their limits, continuity, derivative of algebraic, trigonometric, logarithmic and exponential functions. Applications of the derivative to optimization of problems. Applications of derivatives including maxima and minima of single and double variables, related rates and infinite sequence and series. Lectures, theoretical assignments, are used to deliver the course.

MATH 105 - Mathematics II

An introductory level Mathematics course that is essential for the Engineering programs as it provides students quantitative and analytic skills in a science and engineering context. This course introduces techniques of integration, indefinite and definite integrals, parametric equation, polar coordinates, application of integration, integration in polar coordinates, complex numbers, multivariable integration and an introduction to vectors calculus and vector-valued functions. Lectures, theoretical assignments, are used to deliver the course.

MATH 110 Mathematics for Technology

Five important themes, mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking and modeling are needed. Students learn the fundamentals of logic, Fundamental principles of counting, set theory, relations and functions, graphs, trees and sorting, shortest path and minimal spanning trees algorithms. Lectures, theoretical assignments, in-class discussions, seminars, used to deliver the course.

MATH 115 Applied Mathematics

An introductory level Mathematics course that is essential for the relevant program as it provides students quantitative and analytic skills in a science, technology and architectural context. This course covers the fundamentals of design in mathematics, Matrices, the functions and their limits, continuity, differential and Integral calculus. The course also focuses on Descriptive Statistics, Correlation and Regression and probability concept used for Architecture and relevant discipline. Lectures, theoretical assignments, are used to deliver the course.

MATH 120 Probability and Statistics

Knowledge of statistics is essential for all engineers and technologists in order to draw conclusions while dealing with large data like results obtained from testing various samples, information obtained after conducting large scale surveys etc. Students study about basic concepts of statistics, probability, probability distribution, curve fitting, measures of dispersion, theory of sampling, testing of hypothesis etc. Lectures and solving multiple numerical practical problems are key learning aids of this course.

MATH 125 Remedial Mathematics

A remedial Mathematics course that is essential as it helps students transition from high school to undergraduate Engineering program by developing their academic skills and knowledge in mathematics. Students learn the fundamentals of Sets, trigonometric functions, algebra, calculus, statistics and probability. Lectures, theoretical assignments, are used to deliver the course.

MATH 130 Computational Statistics

Computational statistics is used jointly with other disciplines such as computer science to solve complex realworld problems. This course covers topics required to develop a comprehensive working knowledge of current computational statistics. Students will learn how and why existing methods work, enabling the effective use of contemporary statistical methods. Accomplishing these objectives requires familiarity with various statistical computing, computational statistics, computer science, and numerical analysis topics. The course will be delivered through lectures, theoretical assignments, and demonstrations.

MATH 200 Linear Algebra

The aim is to teach the fundamentals of linear algebra in a way that illustrates their relevance to engineering applications. This course is an introduction to Linear Algebra, System of linear equations, Algebra of matrices, and some of its applications. An Introduction to Matrices and Systems of Linear Equations are given with other topics such as; Determinants, Linear Transformations, vector spaces, inner product spaces Eigenvectors and

Eigenvalues and Diagonalizing Matrices, special matrices and applications. Lectures, theoretical assignments, are used to deliver the course. *Pre-Requisite(s) - MATH 105*

MATH 205 Computer Oriented Numerical Methods

The primary objective of the course is to develop the basic understanding of numerical algorithms and skills to implement algorithms to solve mathematical problems. This will enable the students to acquaint skills on the key aspects of object-oriented principles and systems modeling techniques. This course covers important topics, such as the iteration methods, interpolation methods, numerical analysis methods for integration and differentiation. Lectures, Programmed based assignments focusing on various engineering problems will be used to deliver the course.

Pre-Requisite(s) - ITEC 105 or CSCI 200

MATH 210 Numerical Methods and Optimization

This course focuses on numerical approaches for engineering process and system analysis. This course is essential as it helps students to estimate and optimize engineering problems related to various fields and design parameters. This course covers the topics such as the iteration methods, interpolation methods, numerical integration and differentiation, formulation of Linear Programming Problems (LPP), numerical optimization and an introduction to the numerical solution of ordinary differential equations: Initial value problems. Lectures, Theoretical assignments focusing on various engineering problems will be used to deliver the course. *Pre-Requisite(s)* - *MATH 100, MATH 105*

MATH 220 Differential Equations

A fundamental course in mathematics that develops students' quantitative and analytical abilities in the context of science and engineering. The course covers formulation of ordinary differential equations, methods of solution and applications of first order and higher order differential equations and their applications. This course also introduces the formulations and effective mathematical tools for solutions of partial differential equations of physical problems and Properties of Laplace transform and solutions by Laplace transforms. Solution techniques are applied to engineering and science problems. Lectures, theoretical assignments, are used to deliver the course. Pre-Requisite(s) - MATH 105

MECH 200 Engineering Mechanics

Understanding the effect of different kinds of forces on rigid bodies is important from an engineer's perspective in laying a foundation in structural and mechanical design. Bodies in static equilibrium when subjected to the action of various kinds of forces will be examined using the concept of free body diagram. In this direction, the concept(s) will be extended for analyzing the force distribution in practical applications like beams, trusses, stability of structures as well as for bodies in dynamic equilibrium. Lectures and numerical assignments will be utilized to deliver the course. Lab sessions will also be held in parallel to provide practical know-how which will supplement the theoretical contents.

MECH 205 Engineering Graphics and Workshop Practices

The perfect graphic communication of the geometry of engineering devices as well as the basic hands-on experience of effective fabrication techniques from raw materials is necessary for any engineer. The basic rules in engineering drawing which includes lines, lettering, geometrical constructions, principles of tangency, orthographic projections, different views, and dimensioning will be discussed. Also, the different aspects of

cutting and shaping processes which form the basics manufacturing processes will be covered. Hand-drawings & AUTOCAD, lectures and hands on experiments will be the mode to deliver the course.

MECH 210 Engineering Materials

Detailed knowledge on different materials can be useful in various industrial applications to quantify mechanical integrity and failure in materials. Students learn the fundamentals of crystal structure, crystallography techniques and mechanism of plastic Deformation, mechanical properties and testing, phase diagram, energy band concept of conductor, insulator and semi-conductor, properties of ceramics, polymers and plastics. Lectures, assignments, in-class discussions, will be used to deliver the course.

MECH 215 Machine drawing with CAD lab

Machine drawing is used to communicate the necessary technical information required for the manufacture and assembly of machine components. Students learn Industrial drafting practices, various limits, fits, tolerances, assembly, production, and part drawings related to machine components. The course will be delivered through lectures, Demonstration, and Hands-on practice with Modelling software (AutoCAD and Solidworks).

MECH 300 - Engineering Thermodynamics

Knowledge of thermodynamics is essential for thermal analysis of systems and also for most of design and manufacturing processes. The course discuss the conservation of energy and entropy balance; thermo-physical properties, equations of state, the processes, cycles for reversible and irreversible thermodynamic systems; principles applied to modern engineering systems. It also comprises of properties of steam, graphical representation of thermodynamic processes on P-T, P-V, T-S and H-S diagrams, Steam-

Tables and Mollier charts. Lectures, assignments and demonstrations are used to deliver the course.

MECH 305 Manufacturing Technology

Manufacturing techniques are used for the fabrication of components/products from raw materials through one or several processing operations. Students learn about different manufacturing processes such as casting, metal joining, sheet metal, metal cutting, bulk deformation processes, additive manufacturing etc. Also, they will learn how to select appropriate processes based on the interrelated criterion of design parameters, material selection, and process economies. Students also learn about measurement aspects in manufacturing operations. Lectures, theoretical assignments, demonstrations, and factory visits will be used to deliver the course.

MECH 310 Strength of Materials

An understanding on the compromise approach between the basic idealized theoretical laws and practical problems related to deformable bodies, is essential from an engineer's perspective. The importance of stressstrain relationship, distribution of shear stress and bending moment in beams, deflection of beams, twisting action of beams, and analysis of columns and struts will be discussed. Lectures, numerical assignments and demonstrations will be utilized to deliver the course. Lab session will also be held parallel for providing hands on experience relevant to behavior of deformable bodies upon the action of various kinds of forces. *Pre-Requisite(s) - MECH 200*

MECH 315 Engineering Fluid Mechanics

An understanding of the compromise approach between the basic idealized theoretical laws and practical problems related to gases and liquids, both stationary and moving, is essential from an engineer's perspective in understanding fluid flows in real life. The basic concepts relevant to fluids - the types of flows, the laws pertaining to fluids flows (both kinetics and dynamics) after considering the necessary assumptions as well as the standard flow cases will be discussed. Towards this direction, the concepts will be extended in understanding flow past solid objects and predicting the behavior of actual fluid flow across real life prototypes. Lectures, numerical assignments, and demonstrations will be utilized to deliver the course. Lab sessions will also be held parallel for providing hands on experience in analyzing the behavior of fluid flows under different circumstances.

MECH 320 Fundamentals of Heat and Mass Transfer

Knowledge on the fundamental principles and laws of heat transfer explore the implications of these principles for various thermal systems behavior. Students learn the modes and mechanisms of conduction, convection, thermal Radiation heat transfer, heat exchangers, boiling and condensation, mass transfer concepts. Lectures, assignments, in-class discussions, will be used to deliver the course. *Pre-Requisite(s) - MECH 300*

MECH 325 Machine Design I

Machine Design I provides knowledge about design of machine parts and the required skills to develop products using methodical design approaches. Students learn failure theories, and fundamental principles for the design of machine elements with the considerations for economical, societal, safety, and manufacturing aspects. Lectures, theoretical assignments, presentations, and demonstrations will be used to deliver this course. *Pre-Requisite(s)* - *MECH 310*

MECH 330 - Theory of Machines

An understanding of the motion and energy transmission in different types of mechanical systems to perform a particular type of work is essential from a mechanical engineer's perspective. The basic concepts of machines, degrees of freedom, working of a cam-follower arrangement, utility of different types of gear systems in daily lives, need for balancing in automobiles, methods to reduce different kinds of vibrations and the general working principles of gyroscopes, governors and brakes will be discussed. Lectures, numerical assignments and demonstrations will be utilized to deliver the course. Lab sessions will also be held in parallel to provide handson experience relevant to the working of different machines.

Pre-Requisite(s) - MECH 200

MECH 335 Metrology and Quality Control

Measurement and inspections are very important in maintaining the desired quality level of the product during production. It helps to control the quality of products by fixing the sources of defects immediately after they are detected. The first half of the course deals with the measurement of different parameters of machine components, the use, and handling of different measuring instruments, Procedure of comparing instruments with standards. Selection of appropriate instruments on the criterion for specific measurement. The second half of the course will focus on different quality control tools and techniques, ISO certification procedure, sampling inspection procedure, and the economics of quality. Lectures, Engineering Case-Based" Problem-Centered" teaching method will be used to deliver this course.

MECH 340 - Internal Combustion Engines

The motion of machines in most of the system is powered by internal combustions engines hence a grasp on their working principle is needed for their adequate study. This course comprises of fundamentals of design and operation of internal combustion engines. It discusses the effect on their performance, efficiency, fuel requirements, and environmental impact due to various factors. Different types of internal combustion engines are presented such as spark-ignition, diesel, stratified-charge, and mixed-cycle engines. Lectures, assignments and demonstrations are used to deliver the course.

Pre-Requisite(s) - MECH 300

MECH 345 - Thermal and fluid machinery

Detailed understanding of the functioning of thermal systems (which utilize heat energy to transform into other useful forms of energy) and hydraulic machinery (which utilize fluid power to perform work) are important from an engineer's perspective. The basic knowledge on thermodynamics will be extended to study the functioning of engineering systems like boilers, steam engines and compressors that find importance in industrial applications. Towards the end, the basic concepts learned in fluid mechanics will be utilized in designing different types of hydraulic turbines and hydraulic pumps that have abundant applications in daily lives. Lectures and numerical assignments will be utilized to deliver the course. Lab sessions will also be held paralleled for providing handson experience relevant thermal engineering and hydraulic machines. *Pre-Requisite(s) - MECH 315*

MECH 400 Machine Design II

Pre-Requisite(s) - ME Machine Design - II is used to identify quantify and selection of machine elements in the design of integrated mechanical systems. Students learn the design of different types of motion transmission elements such as gears, belts, roller chains, clutches, and their selection under safety, ethical, and societal constraints. Lectures, theoretical assignments, case studies, and demonstrations are used to deliver the course.

MECH 405 Operations Research

Operations research helps in solving problems in different environments that needs decisions. Students learn the concepts of linear programming, Transportation models and CPM/PERT techniques. To deliver the course, lectures, analytic techniques and computer packages will be used to solve problems facing business managers in decision environments.

MECH 410 Computer Aided Design

Computer-aided design (CAD) enables the development, modification, and optimization of the design process. Students learn hardware used for CAD, algorithms to draw different attributes of modal, transformation and projections of modal, surface and solid modeling techniques, fundamentals of computer graphics, and management of design database system. It also embraces CAD software to create engineering components and assemblies in laboratories. Lectures, assignments, case studies, and demonstrations will be used to deliver this course.

MECH 415 Finite Element Methods Final

Finite element method provides a general and powerful framework for solving ordinary and partial differential equations and imparts knowledge on how to design and analyze structural components of machine systems. The first half of the course deals with the stiffness approach to develop the finite element equations as applied to bars and beams. The second half of the course will focus on developing the finite element method as one that is applicable as a general numerical method for solving ordinary and partial differential equations that arise in solid mechanics. Lab sessions will focus on applying the commercial code Ansys to various problems in solid mechanics.

Pre-Requisite(s) - MECH 200

MECH 420 Computer Aided Manufacturing

Computer aided Manufacturing helps to manufacture the parts/components with lesser time, high quality, and improved efficiency. Students learn about CNC Machine Tools, computer numerical control machines programming, CAD-CAM integration, Rapid Prototyping, and Computer-aided Materials Management. It also embraces CAM software to create engineering components and assemblies in laboratories. Lectures, theoretical assignments, demonstrations, and factory visits will be used to deliver the course.

MECH 425 Automobile Engineering

Ever since motor vehicles came to be, automobile, also known as automotive or vehicle engineering has gained importance. Students learn the study of automobile engine systems, electronics and control systems, fluid mechanics, thermodynamics and aerodynamics accepts, mechanism of vehicle chassis, internal combustion Engines used, electrical systems, testing, repairing, control, and management of automobiles. Lectures, assignments, and in-class discussions will be used to deliver the course. *Pre-Requisite(s) - MECH 300*

MECH 430 Introduction to Robotics

Robotics deals with the design, construction, operation, control, and application of robots. Therefore, it fascinates many of us. Students learn the concepts of industrial automation, Spatial Transformations, Kinematics, Dynamics, Trajectory Planning, Design, Control, and Simulation of Robotics. Lectures, assignments, and in-class discussions, will be used to deliver the course.

Pre-Requisite(s) - EEEN 200

MECH 435 HVAC design Engineering

In order to properly size the heating, ventilation, and air conditioning (HVAC) systems of a building, it is important to determine the heating and cooling loads and understand the occupants comfort. Students learn the Heating design load calculation and Energy Balance of a Building, HVAC Piping, and Distribution Design, and HVAC Systems. Lectures, assignments, in-class discussions, will be used to deliver the course. *Pre-Requisite(s)* - *MECH 320*

MECH 440 - Wind Energy Engineering

Wind energy is one of the most promising sources of renewable energy and its proper harnessing requires knowledge of its concepts. The course covers aspects such as the history of wind turbine development and the characteristics of the wind. Also, the impact of site selection, design, manufacture, and operation of modern wind turbines is discussed. An overview of different types of horizontal and vertical axis wind turbines will be discussed. Lectures, assignments, and demonstrations are used to deliver the course. *Pre-Requisite(s) - EEEN 200*

MECH 445 - Biomass and Fuel Cell

The knowledge of proper harnessing of biomass proves to be a source of abundant energy and provides fuel for fuel cells. The course comprises of introduction to types of biomass, their characterization techniques, and ways of converting it to energy. Also, it contains descriptions and applications of various types of fuel cells. Lectures, assignments, and demonstrations will be used to deliver the course. Lab sessions will also be held paralleled for providing hands-on experience for the production of Bio-Fuels.

MECH 450 - Solar Photovoltaic Systems

Solar energy is the most prominent form of renewable energy and its proper harnessing requires knowledge of photovoltaic systems. This course comprises of structures of a photovoltaic module and components of a photovoltaic system. Also, the design methodology for various types of photovoltaic systems will be discussed. Lectures, assignments, and demonstrations will be used to deliver the course. Lab sessions will also be held paralleled for providing hands-on experience for designing various types of PV Systems. *Pre-Requisite(s) - EEEN 200*

MECH 455 Hydrogen as Future Energy Source

As the world is shifting towards harnessing alternate sources of energy, hydrogen is gaining prominence as it is renewable and has high energy content. The course comprises of introduction to hydrogen and methods of its production, storage, and transport. Also, the cost estimation and life cycle assessment of hydrogen infrastructure will be discussed. Lectures, assignments, and demonstrations are used to deliver the course.

MECH 460 Energy, Ecology and Environment

For maintaining ecological balance and sustainable environment, the knowledge of various energy resources is imperative. Students learn about the world energy scenario, types of energy, renewable energy sources, ecological standards, lifecycle assessment of products, environmental ethics, types of pollutants and their impacts, global warming, legal aspects, and role of non-governmental organizations in protecting earth's ecosystem. Lectures, assignments, demonstrations and site visits are used to deliver the course.

MECH 465 Solar Thermal Engineering Process

Knowledge of solar thermal energy systems and solving solar thermal energy design problems makes to understand how to conduct solar collector efficiency tests for a practice engineer. Students learn the fundamentals of solar thermal energy and their applications, environmental characteristics and solar radiation, classification and thermal analysis of solar energy collectors, solar thermal energy storage potential, and hybrid solar plants. Lectures, assignments, and in-class discussions will be used to deliver the course. *Pre-Requisite(s) - MECH 300*

NSCI 100 Natural Science

An introductory level Physics, Chemistry and Biology course analyzing science pedagogy and practices for developing formative assessments. Students are introduced to the fundamental principles, laws and concepts of mechanics (kinematics, 1-D, 2-D motion, work and energy with applications). Students understand the fundamental chemical principles, including properties of atoms, molecules, states of matter, and chemical reactions. Furthermore, the course discusses the structure and functional aspects of various biological membranes and electron transport across the system. The course also offers fundamentals of principles in molecular biology and bioenergetics. Students tend to develop excellent analytical skills. This is attributed to the use of existing theories to solve problems. Additionally, students must be analytical to help them draw valid conclusions from lab experiments conducted. Lectures, theoretical assignments and lab experiments are used to deliver the course.

PHYS 100 Mechanics and Wave Optics

An introductory level Physics course that is essential for all Engineering programs as it provides students a quantitative and analytic of skills for solving problems and analyzing data in all technical areas. This course covers the fundamental principles, laws and concepts of mechanics. It also covers Wave and Oscillations, an introduction to special theory of relativity and optics. The laboratory work consists of experiments illustrating the principles, laws and concepts discussed in the course. Lectures, theoretical assignments, hands on experience in laboratories are used to deliver the course.

PHYS 105 Electromagnetics and Modern Physics

An introductory level Physics course that is essential for all Engineering programs as it provides students a quantitative and analytic of skills for solving problems and analyzing data in all technical areas. This course uses basic vector calculus and techniques of integration to determine the spatial and temporal distribution of charges, currents and electromagnetic fields, Maxwell's Equations and EM Wave Propagation in Free Space and dielectric media. This course also covers few Modern Physics topics such as Photo electric effect, Wave Mechanics, Introduction to wave function, X-ray spectra, Lasers and basic elements of Semiconductor Physics are also introduced. Lectures, theoretical assignments, hands on experience in laboratories are used to deliver the course.

PHYS 110 Physics for Architects

The course is an introductory level Physics course that is essential for all Architecture programs. It provides students a quantitative and analytic of skills for solving problems and analyzing data for evaluation of buildings and building constructions against the local Building Codes and other requirements. This course covers the fundamental principles, laws and concepts of mechanics, wave and oscillations, an introduction to optics. Further the course gives an overview to indoor and outdoor climate, heat transfer including introduction to energy use in buildings, moisture transfer, acoustics and lighting. The laboratory work consists of experiments illustrating the principles, laws and concepts discussed in the course. Lectures, theoretical assignments, hands on experience in laboratories are used to deliver the course.

PHYS 115 Remedial Physics

A remedial Physics course is essential as it helps in the students' transition from high school to undergraduate Engineering program by developing their academic skills and knowledge in Physics.

This course covers basics of Electro statics and magnetostatics, Currents and Electromagnetic fields, Maxwell's Equations, Ray and Wave optics. This course also covers few Modern Physics topics such as Photo electric effect, basic elements of Semiconductor Physics, Nuclear Physics and Special theory of relativity. Lectures, theoretical assignments, are used to deliver the course.

PROE 400 Project

Project gives students an opportunity to work intensively on a substantial problem to demonstrate their own creativity and originality. Additionally, they will apply knowledge, skills, and methodologies they have learned throughout the degree program when appropriate. Students learn about the research and development (R&D) cycle as well as technical methods for evaluating, designing, developing, synthesizing, and testing integrated systems. Software, Simulation tools, hardware, manufacturing machines, site visits, a hands-on and team-oriented approach, and faculty support are used complete the project. *Pre-Requisite(s): 90 credit hours*

ANIM101 Drawing and Form

The visual artist's idea of perception of objects and their surroundings is expressed through drawing. This course presents the basic drawing techniques like perspective, still life drawing, and textures and patterns. Through demonstration, hands-on teaching, and video presentations, students produce drawings while improving their visual perception and understanding of drawing.

ANIM301 Principles of 2D Animation

2D animation helps creating entertainment and commercial shorts from creative ideas.

This course covers the *12 traditional principles like squash, stretch, timing and spacing required* to build lifelike, character-driven animations. Students use digital art and animation software to discover the unique possibilities

of storytelling. Through practical assignments, problem solving, tutorials and in-class demonstrations, students learn to create naturalistic 2D animated short films

ANIM308 3D Modeling and Techniques

3D modeling converts detailed design concepts into lifelike virtual models. In this course students will create a model and further integrate it into a live footage. They will edit and color correct the footage to get a seamless transition. Through multiple practical assignments, problem solving and tutorials, students learn the nuances of digital modeling and compositing.

ANIM310 Lighting and Rendering

In context to traditional and virtual lighting, the global animation and visual effects industry has transformed into unconventional forms. A lighting artist plays a vital part in an industry production unit. This course covers lighting techniques as ambient occlusion, shadows and feathering. Through lectures, advanced tutorials and demonstrations students learn the art of lighting.

ANIM318 ARVR Technologies

Developing immersive content for emerging technologies like AR and VR is an indispensable skill for future artists. In this introductory course, students gain knowledge and skills on creating immersive reality experiences that can inform, educate or entertain. Using a mixture of classwork, workshops, field trips and guest lectures from the industry, students learn about immersive storytelling structures and content development.

ANIM402 Digital Modeling of Props and Environment

Mastering the art of modeling three-dimensional objects is essential for the production pipeline of the animation and film industry. Students create 3D models that match the art direction of an animated movie. They learn topics in 3D environments and prop modelling laying emphasis on hard-surface modeling techniques. Through multiple practical assignments, problem solving and tutorials, students learn the intricacies of digital modeling.

ANIM403 Organic Surface Modeling

The 3D modeling process creates a digital object that's capable of becoming fully animated character. Students learn the techniques of well-designed 3D models, with polygonal modeling and texturing techniques. Through practical assignments, problem solving and tutorials students learn to create realistic characters.

ANIM404 3D Animation

3D animation adds the required dimension to bring sketched characters to life on screen. To achieve this, animators work with the functionalities of movement and walk cycle. Further the course covers the principles of 3D animation and humanoid body mechanics. Students apply the foundational principles to the character designs and basic rigs. Through practical assignments, problem solving, advanced tutorials and in class demonstrations students learn to create realistic animation.

ANIM405 Animation Look Development

The global animation and visual effects industry has transformed into unconventional forms in context of texturing and look development. In this course, students are exposed to look development and original aesthetics in animation. Further texturing techniques such as UV unwrapping, mapping, and texel density. Lectures, practical work and demonstrations are some of the pedagogies used to execute the course. ANIM406 Animation Production Workflow

Animation production unit is the backbone of the entertainment industry production. This course will cover all the aspects of workflow and coordination of all departments needed to make an animated movie. In this course, students understand the entire pipeline (pre-production, production and post production) flow to create the final footage. Lectures, practical work and demonstrations are some of the strategies used to execute the course.

ARAB 102 Arabic Language

The Arabic language is a popular and the fifth largest spoken language worldwide. It contributes to understanding culture and people, and increases job opportunities. This course is designed to develop an understanding of Arabic to help students communicate confidently with others, and to equip them with the skills needed in a variety of situations by promoting the four language skills, namely, reading, writing, speaking and listening, by acquiring day to day words of common parlance and expressions in addition to some grammatical rules through a combination of lectures and interactive elements, such as group work, in-class exercises, conversations and audiovideo aids.

ANIM401 Industry Practices & Digital Portfolio

Career readiness provides opportunities for students to find, maintain, and grow within a work placement. This course introduces students to the best industry practices in establishing a career path and putting together a digital portfolio. Through lectures, assignments, and insights from leading industry professionals, students develop their own personal brand, resume, cover letter, and portfolios in preparation for job interviews.

ANIM305 Motion Graphics Design

Motion graphics design is a form of audio-visual content that aids in maximising audience engagement. Students use motion design to simplify visually complex information for different types of media like user interfaces, infographics and title sequences. Through practical projects, screenings, discussions and lectures on the concepts and techniques of motion design, students plan, develop and produce their own creative projects.

ANIM201 Visual Design for Film and Animation

Visual design aids in the creation and placements of visual elements to communicate ideas, create unique visual styles, and tell interesting stories. Students learn the elements of design like images, graphics, typography to convey story ideas and meanings. Through lectures on design, film screenings and practical tutorials on industrystandard software, students create design projects that can convey moods and emotions.

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combination of lectures and interactive elements, such as group work, in-class exercises, conversations and audiovideo aids.

ACCT 110 Financial Accounting I

Financial accounting knowledge is essential for preparing and communicating financial information to external users of accounts. This introductory course examines the accounting cycle and introduces the techniques of recording business transactions and preparing basic financial statements. Through group activities, problem solving, and practical assignments, students learn the fundamental concepts of accounting and how financial statements are created.

ANIM302 Graphic Design

Visual content creation is on the rise and is widely used to communicate certain messages and ideas. In this course, students get hands-on experience in developing creative skills to produce professional visuals and layouts using specialised software. Through creative problem-solving, tutorials and demonstrations of multiple techniques and tools, students learn the craft of graphic designing.

BDMC 401 Communication for Development

The significant role of media is to become the voice of the voiceless specifically the marginalised sections of the society. Students learn the key concepts and approaches in C4D (Communication for Development), and best practices in planning, implementing and evaluating participatory and evidence-based Communication for Development (C4D) interventions. The course is delivered through lectures, case studies analysis, group discussions, and field visits.

BDMC 405 Emerging Media Platforms and Audiences

The media industry's shift from conventional practices and platforms to new internet-mediated technology-based platforms has created new dynamics in the media market. The course offers a clear understanding of this shift and combines strong conceptual and theoretical media studies training with hands-on learning opportunities. The course is delivered through lectures, case studies, class discussions, and industry visits.

BDMC 308 Media and Society

Media is a subset of society and feeds on its systems for information dissemination. The relationship between media and society is organic and one which sets the foundation for societal discourse. In this course, students understand the relationship between media and society and how it shapes and influences each other through articulation, persuasion, and hegemony. The course is delivered through lectures, case studies, and observational studies of media's influence off cultural expressions.

BDMC 415 Multimedia Campaigns

Media campaigns strengthen positive brand perception and a key component of advertising and PR industry. This course is designed to teach students brand storytelling techniques, principles of design, strategic messaging, and behavioural change techniques. It is through discussions, hands-on creation of content and lectures that the course will be delivered to students. Furthermore, students will create a live project in collaboration with an external agency.

BDMC 421 News Anchoring and Packaging

The media and entertainment industry requires reporters, correspondents, and broadcast news correspondents. This course focuses on presentation styles, anchoring skills, interviewing techniques and voice narration. The course is delivered through lectures, vocal exercises, case reviews, and studio and location visits.

BDMC 425 News Gathering and Media Technologies

With the advent of extensive streaming services, news gathering using media technologies is a growing field in journalism. The competitive and time-constrained world of TV news broadcasting is introduced in this course. The students are exposed to the process of creating information, the art of shooting visuals to execute compelling and thought-provoking news stories. Lectures, demonstrations, hands-on learning and field reporting are some techniques used to equip students to create various live as well as recorded projects.

BDMC 429 Non Fiction Documentary Film making

Non-fiction category holds great significance in human interest-based stories and concerns. This course builds students' skills in research, story development, production, cinematography, editing, and post-production. The course is delivered through hands-on training on live projects, lectures, and brainstorming sessions.

BDMC 418 Principles of Convergent Journalism

The media industry has changed over the past few years due to technological interventions and other external factors making convergence journalism more compulsory than a choice-based career option. The course offers training in digital photography and forms of media content creation techniques to tell a more effective story. Lectures, case studies, class discussions are some of the methods used in the delivery of the course.

BDMC 304 Public Relations and Corporate Communications

Corporate communication lies at the heart of effective strategic management. In the contemporary media landscape, it is important for media students to learn public relations tools and corporate communication strategies. The course prepares media students to understand corporate communication areas such as internal communication, advertising, and public relations. The course is delivered through lectures, case studies, class discussions, writing assignments and conference events visits.

BDMC 301 Radio Programming and Production

Radio still plays a vital role in today's media landscape and remains a powerful source of information for the digitally divided world. The course in radio programming and production enhances students' knowledge about timeslots, live shows and other characteristics of radio. It equips them with the skills and competencies necessary for working in today's competitive broadcast industry. Students learn different radio genres and writing styles, and editing skills for producing engaging audio content through lectures, hands-on training, and project creation. **BDMC 312 Social Media and Content Creation**

Sectors now have their presence on online platforms, it has therefore opened doors to colossal opportunities for social media content creators and strategists. The course offers an understanding of social media platforms' potential, new media technologies, content creation, and strategies. Students build their learning through lectures, case discussions, projects, and hands-on activities.

BDMC 101 Understanding Media

Understanding of existing and emergent media platforms is broadens the horizon for media students. The course will enable students to acquire knowledge of the way the media industry works and contributes to socio-cultural, political and economic spheres of life. Students will learn about media attributes, media platforms, media

audiences and the media's impact on society. Lectures, case studies, and audio-visual content-based discussions are some of the methods used to deploy the course.

BDMC 410 Urban Radio and Podcasting

Over the last few years, the use of podcasts as a media tool has grown exponentially. Most industries are using podcasts as a marketing tool, which expands the scope of jobs in the podcast industry. The course is designed to help students explore the art and craft of audio production, and train them in manipulating sound, music, and speech signals, recording, and producing. The course emphasises project-based learning, hands-on training, and tutorial sessions.

BDMC 201 Writing For Print

Print media holds a significant value even in a changing media industry in the digital world.

Writing for print media course develops students' skills in news gathering, reporting, and editing. Students learn to tackle the objective and subjective aspects of news writing, structuring of news, interviewing, and editorial skills. Through lectures, case studies, discussions and field visits students are taught to create stories with news value.

BDMC316 Global Media and Culture

Understanding global media communication in a socially and culturally contextualised way is the need of the hour. This course orients students to a multi-cultural perspective, dynamic audience, and various media practices in a globalised world. The course delivery is through lectures, case discussions, and industry visits.

BDMC 426 Lifestyle Journalism

Lifestyle journalism is a significant and substantial field of journalism. The scope of lifestyle journalism is greater in vibrant economies like the UAE. The course focuses on contemporary lifestyle reporting trends and prepares students to pursue different aspects of lifestyle journalism, including painting, music, photography, literature, cinema, travel, and entertainment. Students will acquire multimedia storytelling skills to produce lifestyle content for diverse news media platforms besides studying best practices and standards of lifestyle journalism through lectures, supervised writing sessions, and case studies.

BDMC316 Global Media and Culture

Understanding global media communication in a socially and culturally contextualised way is the need of the hour. This course orients students to a multi-cultural perspective, dynamic audience, and various media practices in a globalised world. The course delivery is through lectures, case discussions, and industry visits.

BIOL 102 Introduction to Forensic Biology Serology

Basic knowledge of different biological sciences are critical for forensic investigations. Students need to be aware of the general concepts and principles of molecular biology and biochemistry of the cells for the identification, classification, and individualisation of the biological evidence in the field and laboratory. Classroom lectures and discussions introduce students to various biological concepts and theories critical to forensic biology.

BIOL 306 Introduction to Forensic Medicine

Knowledge of injuries related to human body and understanding of manner and cause of death is paramount in crime scene investigations. Students will learn the medicolegal cases encountered in the field of forensic medicine and will cover the history of the discipline, study post-mortem changes, evaluate trauma injuries, and learn the

process of individual identification. Lectures and case study discussions will cover basic understanding of the course.

BIOL 312 Wildlife Forensics

Forensic science principles and their application are crucial to wildlife law enforcement. This course provides an overview of procedures and protocols that are used in the process of investigating wildlife crime scenes and analyzing various types of evidence in wildlife forensic science laboratories. Through lectures and discussions, students will learn how to conduct field searches and analyze evidence using various field and laboratory techniques.

BIOL 402 DNA Fingerprinting

Forensic human identification relies on the knowledge of genetics and molecular biology using various types of DNA testing methods. The DNA profiling course introduces forensic human identification techniques, theories, and principles based on genetics and molecular biology. The fundamentals, procedures, and methods of forensic human identification are taught through classroom lectures, discussions, and practical exercises.

BUSN 220 Business Law

Every business should work within the legal framework under which it operates. This course is designed to provide students with an understanding of the fundamentals of business law. It provides an overall working knowledge of the legal framework within which business organizations must operate. The course particularly focuses on the nature and types of business law, including contract, tort, employment, labour, partnership and agency laws. The students will acquire this knowledge through lectures, class discussions, group activities, quiz and presentations.

Pre-Requisite ENGL102

COMM105 Public Speaking

Civility and ethical speech are the foundations of effective public interaction. The course emphasizes the practical skill of public speaking, including techniques to lessen speaker's anxiety, and the use of visual aids to enhance delivery. The course is heavily practice-oriented and has been designed to develop the skills of speech-making through class discussions, group work, presenting papers, and giving seminars.

COMM 105 Public Speaking

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CHEM 102 Introduction to Forensic Chemistry

Criminal investigations apply basic chemistry principles of analytical chemistry to screen and analyze forensic evidence samples. Students will learn the screening, identification, classification, and analysis of chemical and toxicological evidence samples. Active-learning mode of featuring lectures, presentations and group discussions facilitates selection and application of the suitable forensic chemical tests for forensic evidence.

<u>CHEM 302 Forensic Toxicology – I</u>

Identification of toxins and drugs is critical for regulatory and law-enforcement agencies in detection and prevention of drug and poisoning related crimes. This course focuses on the major tenets in forensic toxicology, pharmacokinetics, pharmacodynamics, drug regulation and fundamentals of forensic toxicology analysis. Lectures, case studies and group discussions are the tools used for teaching toxicological practices.

<u>CHEM 402 Forensic Toxicology – II</u>

Knowledge of analytical forensic toxicology is essential for poison and/or drug examination and interpretation. This course provides an understanding about the diverse types of poison and drugs encountered in an investigation for court room testimony. The focus is on the various techniques by which these toxic substances can be identified within a quality-controlled environment. Students will be equipped to analyze and interpret various drugs/poisons through lectures, case studies and laboratory experiments.

CHEM 408 Forensic Instrumentation

Sample preparations and analytical procedures are required to classify and identify unknown forensic biological, chemical, and physical evidence samples. Forensic laboratory analysis is contingent on the understanding of the principles and methodologies of different analytical instrumentation techniques. Interactive lectures will provide the students with an understanding of instrumentation principles, techniques of instrumentation for qualitative and quantitative analysis of forensic evidence samples.

CHEM 416 Arson and Explosive Investigation

Understanding of complex application, interpretation, and determination of fire and explosive investigation is crucial in criminal and civil judicial cases. The student will acquire knowledge of arson, components of explosives, fire investigation, residue examination, preservation of evidence, photography, diagrams and report writing. Through lectures, multimedia, demonstrations, projects, and presentations students will be able to learn the basic principles of arson and explosive investigation.

CSCI 455 Digital Forensics

Digital forensic principles are applied in the industry primarily for digital investigations. Students will learn about the definitions and working of cyber-forensics, cyber laws, and regulations. The course also gives students the knowledge related to Digital-Forensics, Cyber Law, and Social media forensics. Lectures, theoretical assignments, and case studies based on crime scenes will be used to deliver the course.

<u>CSIM 102 Fundamentals of Crime Scene Investigation</u>

Mastering the skills of recognizing, detecting, recovering, preserving and recording evidence forms a critical function within forensic science. Students learn about crime scene search and processing techniques including crime scene search protocols, photography, description, recognition, collection and preservation of physical evidence. Students study this course through laboratory practices, case studies and classroom lectures.

CSIM 302 Physical Evidence and Expert Witness Testimony

Physical evidence plays a pivotal role in modern criminal investigation proceedings, yet such evidence possesses intense practical and theoretical challenges. This course provides comprehensive knowledge about the crime scene to court evidence management principles, procedures, and presentation. Lectures, group discussions and documentaries are few tools used to familiarize students with professional practices of expert testimony.

CSIM 402 Forensic Photography

Forensic photographic evidence documentation is critical in successful criminal investigation and prosecution. Students learn the principles and techniques of film and digital photography as applied to crime scenes and forensic evidence. The course further places emphasis on indoor and outdoor crime scene photography shooting under diverse types of lighting and UV/IR photographic techniques to record the trace evidence. Case studies, documentaries and lectures will equip the students with crime scene photography skills.

CSIM 408 Forensic Evidence Management

Evidence collection, documentation, and preservation at a crime scene are crucial for ensuring its integrity and admissibility in a court of law. This course includes educating students about crime scene evidence integrity and the principles of collection, packaging, transportation, storage, and maintenance of chain of custody from crime scene to court submission. Forensic science evidence management course will be taught through interactive learning and discussions.

CSIM 416 Advanced Crime Scene Investigation

Successful criminal investigation utilizes a step-by-step process and is fundamental to the discovery, preservation and collection of physical evidence. This course is designed for students who have a basic understanding of the crime scene investigation process. Students will learn about various types of crime scenes, physical evidence and investigative and interrogative techniques. Lectures, demonstrations, practicals and case studies will facilitate an understanding of crime scene processing and management.

CSIM 422 Incident management

Mastering the skills of disaster management is indispensable in forensic investigations. Students will learn the core principles behind the management and investigation processes of incident management. This also provides insight into the various disciplines of emergency management. Lectures, role-play and documentaries are various tools students will be exposed to familiarize them with professional practices in incident management.

COMM 105 Public Speaking

Civility and ethical speech are the foundations of effective public interaction. The course emphasizes the practical skill of public speaking, including techniques to lessen speaker's anxiety, and the use of visual aids to enhance delivery. The course is heavily practice-oriented and has been designed to develop the skills of speech-making through class discussions, group work, presenting papers, and giving seminars.

ECON 210 Microeconomic Theory

Determinants of demand and supply and their influence on consumer behaviour are essential to understand the dynamics of various forms of markets and prudent business decision making. The students learn about various forms of markets, theories of consumer behaviour, producer's equilibrium, profit maximisation and pricing of commodities and factors of production. By using case studies and numerical examples, the students gain an insight into making practical business decisions for optimising returns.

Prerequisite QMET 110

ECON 215 Intermediate Microeconomics

Economic models are developed using standard mathematical tools and /or game theory to study the behavior pattern of individuals and firms. Interpretations derived therefrom are essential for rational decision-making, determining market predictions and outcomes. The students study consumer choice theory, supply & demand,

budget constraint, uncertainty and the theory of the firm. Real business examples, case studies and quizzes are used to test the relevance, validity and projection of these economic theories.

Prerequisite ECON 210

ECON 310 Macroeconomic Theory

A fair understanding of the fundamental principles governing macroeconomic variables is essential for business practitioners. Students learn to define measure and critically appraise the fundamental macroeconomic variables like national income, price stability, interest rates, employment of resources, aggregate demand and supply and the overall level of economic activity. Through project-based techniques and group assignments, the students develop an insight into the roles of fiscal and monetary policy in stabilizing an economy within the framework of Classical, Keynesian, and other models of economic growth both in developed and developing economies.

Prerequisite ECON 210

ECON 315 Intermediate Macroeconomics

Understanding the dynamics of various forms of modern macroeconomic models is essential to analyze classical, neo classical, Keynesian, and monetarist views. Students learn about long-run economic growth and its determinants, theories of macroeconomic fluctuations, stabilization policies, and business cycle theories. By using case studies and numerical examples, the students understand the influence of GDP on the growth of an economy.

Prerequisite ECON 310

ECON 320 History of Economic Thought

Understanding the process of development of economic thoughts are essential to distinguish between the main schools and trends in the history of economic thought. The students learn about the emergence of various schools of economic thought such as classical schools, mercantilism, physiocrats, Keynes and the neoclassical schools. The case study approach is used in the class to examine the interrelationship between the theory and real world today.

ECON 325 Economics of Growth and Development

The growth of a country's economy is at the root of its regional development and global placement. The students learn comparative economic development, urban-rural migration, development policy making and role of market and state, international trade theory and development. Use of the case study and group discussions are some of the techniques deployed to deliver the course.

Prerequisite ECO 315

ECON 335 Basics of Health Economics

Theories of microeconomics determine the applicability of policies and function to healthcare systems. The students learn about the specific institutional details and policies relevant to health care markets. This course includes implications for production, consumption and distribution of health care services. Teaching and learning strategies used are case studies, active class discussion and field observations. Prerequisite ECON 210

ECON 345 Economics and E commerce

Basic economic analysis of e-commerce is important to enable students to assist advice and interpret business decisions, including pricing, product development and strategic redefinition of businesses and e-commerce. The student learn about network infrastructure for e-commerce, global information distribution network, LAN and Wan, web security and mobile commerce. By using case studies, students learn theoretical models and empirical analysis in order to understand the economics behind various internet businesses and formulate, predict and interpret various business decisions.

Prerequisite ECON 315

ECON 350 Labour Economics

Supply and demand for labor, labor force participation and minimum wage law are essential to analyze the mechanism with which the labor market works and deal with. The students learn about labor force participation, bargaining theories of wages, labour unions and labor migration. By using case studies and class discussion, exercises, and guest speaker's insights are the main teaching and learning strategies in the course

Prerequisite(s) ECON 315

ECON 355 Economic Environment of Business

Planning and policy formulation, coping with rapid changes and markets externalities are essential to improve performance, and enables firms to identify opportunities and analysis for sound environmental decision-making. The students learn about cost-benefit analysis, market-based solutions to environmental management issues such as air/water quality, global climate change and sustainable development. By using case studies and class discussion, exercises, and guest speaker's insights are the main teaching and learning strategies in the course.

Prerequisite ECON 315

ECON 365 Special Topics in Economics

Introduce students to the skills and arts of applying different economic theories and concepts to specific topics in economics. The students may choose a topic depending on the faculty approval. the course may cover a wide range of special topics in economics such as topics that belong to public economics or sustainable development, energy economy or any related topics that taking place at present or happing like (COVID 19) with a special emphasize on the GCC in general or UAE in specifics.

Prerequisite ECON 325

ECON 400 International Economics

Trade involves the transfer of goods and services from one person or entity to another, often in exchange for money. It is essential to understand the main concept of international economics. The students learn about world trade, labour productivity and comparative advantage theory, trade and resources, International trade policy, instruments of trade policy, and International monetary systems. Using the case study and solving numerical problems, students will get to know how to transfer theoretical knowledge obtained in the class into practical solutions.

Prerequisite ECON 315

ECON 405 Regional Economics

Planning and development gives a framework for concepts theories and models related to regional development. The students learn about location patterns dominated by dispersive forces, land use, the spatial structure of urban areas, how regions develop, and regional objectives and policies. Using the case studies or project, exercises, and guest speaker's insights are the main teaching and learning strategies in the course. Prerequisite ECON 355

ECON 410 Industrial Economics

Understanding of the complex relationships between economics and global business practices. In that way, it helps us to learn about the company, take an in-depth look at its structure, markets, competitors and external economic environment. The students learn about the internal structure of firms, analysis of various aspects of strategic interaction between firms, the determinants of industrial structure, the role of policy in the context of competition and industrial policies and regulation. Using case study with empirical evidence of public policy helps the students to learn how theoretical tools can be used to analyse real world issues.

Prerequisite ECON 355

ECON 415 Econometrics

Understanding the basic econometrics techniques by emphasizing numerical estimation of economic relationships as applied to practical economic and managerial problems helps to solve different types of economic business models. Students learn the basic econometric techniques relating to the estimation of parameters, estimation process, and evaluation of parameters and understanding of scientific decision-making process. Students use the problem-solving examples, which help in boosting the empirical knowledge skills and improve the analytical thinking of the students.

Prerequisite ECON 215

ECON 420 Knowledge Economics

Knowledge has become a vital commodity to countries, businesses and individuals strengthen the economic and social development and improve their competitiveness and welfare. Topics exposing students to the fundamentals of the knowledge intensive activities that bring about scientific innovation. As well as to identify best practices and be able to interpret key factors for intellectual capital management. Through using a variety of modes – Lectures supported by examples from real world so that students can understand the real-world relevance and application of theoretical concepts, interactive sessions, group work project analysis.

Prerequisite ECON 355

ECON 425 Behavioural Economics

Providing fundamental insights into the way people think—and change the decision-making context effecting their choices, as well as to improve student's analytical and decision-making skills. Topics such as choice and behaviour, behavioural economics of risk, uncertainty, and ambiguity, and behavioural macroeconomic are main part of the course. Through case studies, and guest speaker's insights are the main teaching and learning strategies in the course.

Prerequisite ECON 355

ENGL 102 English for Academic Writing

Writing persuasively is a fundamental skill required by students throughout their academic and professional career. Students learn to identify and use persuasive language, summarize, paraphrase, and read and write critically. Additionally, they learn to compose and construct well-written pieces of composition that meet the

requirements of the university's curricula. Through group activities, discussion, debate, and analysis of authentic writings, students apply and demonstrate their understanding of language competency.

FILM 325 Cinematic Color Grading

Choice of color adds to the enhancement of style, mood, emotion and expression. This can be artistically enhanced by color grading techniques. This course explores visual storytelling, gradation, noise and animation. It further prepares students to create work for film, television and web. The course is taught through lectures, demonstrations, hand-on learning, discussion and project work. They are further exposed to viewing existing multimedia work for critical appreciation.

FILM 402 Cinematography

Camera techniques and creative lighting are essential elements of film and television production. The learners will be taught the craft of visual storytelling, technical basis for using the camera, lighting, and other instruments. Lectures, demonstrations and hands-on training will be the strategies to deliver the course.

FILM 404 Directing for Mise-en-scene

Mise-en-scene otherwise known as the illusion of reality is critical in creating a realistic impression from the set. The course explores Camera Blocking, visualization, continuity, semiotics and social codes, which help in developing the abilities and skills to operate the set. It further helps in the expression of the film's artistic and dramatic aspects to visualize the screenplay. Lectures, demonstrations, and hands-on learning on location will introduce the students to efficiently organizing and shooting any production.

<u>FILM 405 Creative Video Production</u> Video advertising's popularity has increased across media platforms due to exponential increase in viewership. Students will explore critical and creative thinking, story telling methods, filming technique, scripted and unscripted direction. Lectures, demonstrations, readings and projects be the pedagogy for introducing students to industry projects.

FILM 406 Fiction Production

Films are prominent part of global entertainment industry which provide scope of creative expression as well as employability. The course enhances skills and capabilities to create a budget, break down a script, understand film set protocols and lead the production. Lectures, demonstrations, screenings and hands-on learning on set will introduce the students to completing a fiction production.

FILM 315 Film Production Theory and Practices

Filmmaking is a process of converting a story idea to a cinematic experience. The basics of film analysis, cinematic formal elements, genre, and narrative structures are explored in the course. Further, students will be able to integrate theory in to practice by applying their skills on functional attributes of film and TV production. Lectures, demonstrations, and hands-on learning on location will introduce the students to organize and shoot any production.

FILM320 VFX and Digital Composition

Compositing is the key to the sequentially integrating and editing visual components to create a final footage. It covers topics such as photorealistic materials, HDR image capture, and multi-pass rendering techniques. Through

problem-solving, advanced tutorials and demonstrations of multiple editing techniques, students learn the art of digital compositing.

FILM 328 Set Designing Traditional and Virtual

The course draws on contemporary set design principles and uses them to create a futuristic set design. The set for media production needs to be planned and designed carefully to add meaning and depth to stories. The course focuses on design, composition and virtual movie set building using industry standard software. Through handson projects, demonstrations and lectures, students will create traditional and virtual sets for stories for both liveaction and computer-generated environments.

FILM210 PHOTOGRAPHY THEORY AND PRACTICES

Quality visuals are integral part of media. Photography skills are essential to create media content. The students are provided with scientific, theoretical, creative and technical skills required in creating images. Hands-on practice in handling camera and other equipment are some of the strategies used for this course.

FILM 317 Sound Design for Film & Animation

Sound is an integral part of film production process. Students learn the basic principles, aesthetics, and techniques required to use music, sound effects, dialogue and voiceovers to compliment a scene. This course is delivered through lectures, demonstration of audio-visual case studies, and hands-on practice of soundtrack creation.

FILM 403 Television Production Process

The mushrooming of OTT platforms and other forms of new media technology has generated an enhanced need for nuanced television production methods. The course builds skills and capabilities to handle the camera, lighting, sound, and production control room equipment. Lectures, demonstrations, and hands-on learning with cameras and other production equipment will introduce the students to organize and shoot television programs appropriately.

FILM 301 History of Motion Pictures

Studying the evolution of cinema is fundamental for film and animation students. The history of moving images course enables students to work within a changing mediascape from a historical and international perspective. It emphasizes upon an understanding of cinema styles, formats, distribution and reception of films from different parts of the globe. Through Film screenings, class discussions, and lectures students learn to analyse the way cinema creates meanings through particular forms, techniques, and styles.

FASH 435 Digital Marketing

The rising demand for establishing online business presence has opened doors to colossal opportunities for digital marketing specialists. To succeed in competitive digital environment, students need to possess a comprehensive knowledge of digital marketing strategies and planning. Students develop understanding of digital channels and knowledge of integrating variety of digital media to create effective marketing strategies. This will be done through case discussions, projects, and hands-on activities.

FILM 202 DIGITAL PHOTOGRAPHY

Quality visuals are integral part of media. Photography skills are essential to create media content. The students are provided with scientific, theoretical, creative and technical skills required in creating images. Hands-on practice in handling camera and other equipment are some of the strategies used for this course.

Film 405 Advertising and Corporate Film Production BDMC 405

The video content market has grown multi-fold with the emergence of digital platforms. Organizations rely on video communication content to present themselves as a brand to the external publics. This course helps enhance students' skills to create business goals-oriented video content like storyboarding, influencer collaboration and advertising. The course will be delivered through live project creation and step-by-step discussion of the concept created.

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FINE 330 Commercial Banking

Banks are major growth partners in any economic system. The unavoidable dependence of individuals and institutions on banks makes the understanding of commercial banking essential for a student of finance for transacting with banks and also for seeking a rewarding career in banking. Students are acquainted with the role and major functions of commercial banks, their expertise in working capital finance and various other products and services they offer to their clientele in general. Through case studies, group activities and simulation exercises, the students learn the nuances of commercial banking. Prerequisite ACCT 110

FINE 482 Islamic Banking

Shariah based Islamic banking with all its religious connotations is transforming from a regional to a global phenomenon. It is growing in presence and gaining wider acceptability with every passing decade. Students acquaint themselves with fundamental principles of Islamic finance, prohibitions, types of contracts and the overall principles of Islamic finance and their practical applications. Through case studies, project-based activities and group discussions students understand the nuances of Islamic banking and its role in adding to the bouquet of available banking options for the eligible clientele. Prerequisite FINE 330

FRSC 102 Elements of Criminology and Police Administration

Understanding and application of criminal law and administration of justice is fundamental to forensic investigation. This course enables students to learn about the various aspects of criminal justice system, scientific analogy for criminal propensity, criminal behaviour, victims, crime prevention, and security management. Through lectures, case law discussions and group activities students learn techniques to seek solutions to problems that emerge from the subfields and interdisciplinary subfields relating to criminology.

FRSC 204 Trace Evidence Analysis

Understanding the characteristics and properties of different trace evidence, like glass, soil, paint, hair and fiber are crucial to crime scene investigation. The student will acquire the knowledge of the basics of microscopy and analytical tools and techniques used for trace forensic exhibits. Through lectures, demonstrations, projects, and presentations students will be able to learn the basic principles of trace evidence analysis.

FRSC 302 Introduction to Forensic Psychology

Applying psychological knowledge to civil and criminal cases addresses various questions arising in the field of forensic science. Students are introduced to representative areas of forensic psychology to study the behaviour of criminals and the role of psychological professionals in the field of forensics by using appropriate investigation methods. Lectures, group discussions and documentaries are few tools that students are exposed to familiarize them with the professional practices of forensic psychology.

FRSC 406 Forensic Ballistics

Fundamental knowledge of forensic ballistics and firearm science is necessary for the examination of firearms in gun crime investigations. The content of a forensic ballistics course constitutes classification of firearms, methodology of ballistics examination, and the role of crime scene reconstruction. Students will gain a general understanding of ballistic evidence examination and crime scene reconstruction through case studies and lectures.

FRSC 412 Forensic Engineering

The application of engineering and physical sciences is salient for solving forensic failure analysis. Students will develop an understanding of wind damage to residential structures, lightning damage, building collapse, electrical shorting, vehicular falls and skids, vehicle performance, forensic engineering investigations, vehicle accidents, and the basic principles of failure analysis. Through lectures, project assignments and case studies students will learn to apply the principles of failure analysis to solving mechanical forensic issues.

FRSC 416 Quality management system and accreditation

Accreditation and quality management system is a pre-requisite for forensic science laboratories and crime scene investigations to demonstrate their competence. This course investigates the challenges of forensic science and the benefits of accreditation in preventing wrongful convictions. Students will explore components of quality management and accreditation process through class lectures and case studies.

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FBSP 102 Food Safety and Hygiene

Safeguarding the health and wellbeing of consumers to ensure their protection is the primary requirement for food industry professionals. This course examines the best practices in implementation and monitoring an efficient system for food safety at work within the framework of food safety management system. Students learn these fundamental concepts through theoretical inputs, group activities, problem solving, and industry interaction.

FBSP 104 Introduction to Culinary Arts-I

Culinary Arts is a core area within the food service operation. This course sits at the crossroads of conveying food as both science and art. This is an introductory course which familiarizes students with the prerequisites and best practices of a professional kitchen along with strong work ethics. It is facilitated through theoretical inputs, handson practical sessions in the lab and visit to the industry.

FBSP 202 Introduction to Culinary Arts-II

Culinary Arts is a core area within the food service operation. This is a second of a sequential pathway which focuses on fundamental culinary principles of eggs ,fish,poultry,meats and different basic commodities. This also lays a foundation for understanding menu planning and costing. It is facilitated through theoretical inputs, handson practical sessions in the lab and visit to industry.

FBSP 304 Facility Management

Hotel facilities are primordial to the very existence of the business of hospitality. The course includes planning and managing various facilities such as hotels, buildings, restaurants, bars, kitchens, front of the house areas and other ancillary departments. Learners apply a structural approach for facility and property management in coordination with engineering and maintenance department. Lectures, real time project discussions and industry visits provide an insight into the significant aspects of facility management.

FBSP 407 Advanced Food Production and Culinary Arts

Building upon the foundation of the previous culinary courses, advanced culinary arts delve into the aspects of the Garde Manger and International cuisines. The Garde Manger is one of the niche sub-areas within the kitchen. Students develop knowledge and skills needed to create cold served delicacies. International cuisines using classical and indigenous ingredients, flavor components and cooking techniques are learnt. Theoretical inputs, lab-based practicals, individual and banquet/buffet presentation form the basis of formative assessment.

FBSP 409 Patisserie operations

Pastry and bakery is a core sub-department within the kitchen. Special emphasis is placed on the study of ingredient functions, product identification, weights, measures, and proper use and maintenance of bakeshop tools and equipment. Theoretical and hands-on training skills are used to apply the basic baking techniques in preparing patisserie and boulangerie products.

FBSP 410 Food and Beverage control and management

A control system is essential to guide and regulate best practices and maintain financial rigour in food and beverage operations. This course is designed to enable students to develop an understanding of forecasting, budgeting and cost controls, while contributing to the overall profit margin of the business. Theoretical classes with real time case studies and industry inputs by experts would be the bases for effective course delivery.

FBSP203 F&B Service I
Food and beverage service plays a vital role in the success of food service operations in institutions, quick service concepts and catering establishments. The course focuses on restaurant operations, departmental hierarchy, and dynamics of diverse types of service styles. Lectures, product knowledge dissemination, lab practical's and industry visits form the formative assessments and course delivery method.

FBSP204 F&B Service II

Food and Beverage service is the major revenue generating department for a hotel; hence this course would focus student's attention on the management aspects of a food and beverage operations by developing basic concepts of planning, organising, and controlling a food service operation profitably. Theory session focus on the business of running a successful food and beverage outlet while Lab particles and hotel visits would enhance hands on skills actual interaction with hotel guests. FBSP408 Restaurant Concept and Design

A conceptual design framework is essential in developing a commercially viable restaurant. Students gains insights to plan a restaurant concept by understanding and utilizing tools to develop the business with emphasis on a solid marketing plan and strong financial backing. Knowledge is enhanced through theoretical inputs, case studies and interaction with industry experts.

GENE 120 Islamic Culture

Islamic Culture is one of the richest cultures in the world and reflects tolerance in diversity. Students realize key beliefs and practices of Islam, the broad spectrum of cultural and social diversity, and gain skills which they apply across different fields. It also discusses social values, ethics and human rights and highlights the contribution of Islamic civilization to human civilization in general. It also provides an understanding of Islamic tolerance and connection to all nations based on moderate non-extremist approach. Course teaching methodologies like: Presentations, discussions, audio-video aids, storytelling and group projects are used.

GENE 210 UAE Studies

UAE is a unique cohesive society that is inclusive of all, while preserving its culture, heritage and traditions. Students acknowledge the UAE identity, and appreciate the history and achievements of Emirati culture through the social moorings of the community and its values. It covers a variety of important fields related to the UAE history, geography, political economy, social responsibility, women empowerment, and highlights the UAE tolerance, liberal approach and position in the global competitiveness through class discussions, storytelling, documentary films, project-based learning and other teaching methodologies.

GENE 340 Innovation, Entrepreneurship & Sustainability

The need, significance and movement for sustainable practices around the world is driven by the policies, practices and the spirit of innovation and entrepreneurship transcending business size and industry. Students explore the relationship between creativity, innovation, entrepreneurship and sustainability using techniques and concepts such as the lean canvas, design thinking, MVP (minimum viable product) ideation, incubation and the acceleration of business ideas and concepts. Through a combination of case studies, research, group projects, interactive discussions, seminars, activities and role play the students develop the ability to recognize, create and deliver sustainable innovative solutions to a complex global market.

GENE 440 Ethics and professional responsibility

Ethically sensitive employees are valuable to creating socially responsible workplaces and improved business outcomes. It also helps equip students to develop an overarching ethics-based approach to professional conduct. The course examines changing societal demands and expectations and elaborates on existing ethical norms and practice. The course offers insight into relationship of ethics and professions, ethical nuances of

employeremployee relationship, whistleblowing and women and family issues in professional settings. Through case studies, current events, open discussions and debates students address the concept of professional ethics.

HAAS 102 Media Literacy

Proficiency in comprehending the function and intersections of media is fundamental to shaping the social, political, and cultural perspectives of societies. This course includes a study of media techniques and technology, media messaging and media representation of society. The course is delivered through practical assignments, demonstrations, and field visits.

HAAS 202 Practicing Sustainability

Learning sustainability underpins students with the competencies to pursue alternate ways and strategies to develop effective solutions and promote sustainable practices. This interdisciplinary course enables students to identify, plan and execute various concepts and principles of sustainability in real life projects associated within their domains of study. Class discussions, simulations, case studies and practical work form the teaching pedagogy for the course.

HAAS 208 Life and Future Skills

Learning real-life survival skills form the foundation for achieving long-term goals. This course provides students with appropriate and practical knowledge and attitudes required for various skills such as problem solving, creative thinking, informed decision making along with soft skills like managing relationships, coping with challenges and empathy towards others. Case studies, group discussions along with audio-visual media are used to crystalize life skill approaches.

HAAS 302 Research Methods and Data Analysis

Research is key to solving social science problems through the application of relevant social science methods. Students learn the basic principles of defining research problems, literature review, data collection and analysis using statistical tools and interpretation. Using in-depth interviews, focus group discussions, surveys, spreadsheets and SPSS, students analyse and interpret social science problems through project-based learning, case studies and collaborative learning.

HAAS 340 Internship

Industry exposure builds up career aspirations in students and drives them to attain professional goals. The students will be exposed to industry environment for a specific period to build corporate connections, apply theory into practice and understand the industry expectations to develop specialized and soft skills. Internship in a specific domain enhances technical and professional skills to succeed in a competitive environment. For internship, students select the domain in consultation with the industry and faculty guide in terms of the academic requirements and compile their internship experience in a report.

HAAS 450 Project

Project is an individually performed research task on a topic that is grounded in theory. It is a scholarly research output that documents student's ability to ask meaningful research questions, consult and criticise related literature, collect and critically analyse data, as well as form and appropriately communicate findings. Students produce a crafted manuscript that they should defend satisfactorily before the faculty prior to submission and acceptance. Promising theses with original contribution are submitted for publication in refereed conference proceedings and peer-reviewed academic journals.

HOTM 240 Human Capital Management

Effective management of human resources has significant impact on organizations and employees. Students learn methods and techniques employed for managing, forecasting and planning human resource activities. Through case analysis, role play and group activities, students are introduced to the underlying human resource concepts, related challenges and application in various business contexts.

HOTM 101 Introduction to Hospitality and Tourism

Hospitality operations is the world's largest industry and one which is constantly evolving and expanding. This introductory course provides an overview of the hospitality and tourism industry, its growth and development, organization and structure, and the functional areas. Students gain insights through classroom teaching of practical sceanarios, case studies, industry visit and guest lectures.

HOTM 420 Consumer Behavior

Understanding consumer behavior is vital for making customer-centric business decisions. It helps to identify the internal and external forces that influence pre-purchase, purchase, and post-purchase behavior of the target market. Students are exposed to various models and frameworks that enable them to develop insight into theoretical and conceptual knowledge of consumer behaviour critical for achieving competitive advantage. With the help of research, case discussions and industry-based projects, students learn to analyze consumer behavior for strategic marketing decisions.

HOTM103 Interpersonal Skills Customer Relationship Management

Exceeding and fulfilling the needs of customers is an essential part of the customer service industry. Students will be introduced to all aspects of customer service, including: its principles, techniques for delivering at an outstanding level, and the attributes of customer-oriented businesses. They will also develop appropriate service skills. The learning will be imparted through lab demonstrations, videos, role play and lecture.

HOTM105 Event Management

The key to a successful event is to organize, plan and execute. This course offers a mix of business and management knowledge, including education on creativity, media tools, set designing and other events-related elements. The students will learn steps and techniques required for the successful planning and organization of an event empowering students to be event planning professionals attending lectures, Industry visits and projects.

HOTM301 Aviation Logistics Management (002)

The travel industry relies on the robustness of aviation and logistics management for all types of tourism sectors. This course is designed to provide an insight into the various dimensions, complexities and dynamics of aviation and logistics management. It familiarizes students with airline reservations, flight categorization and schedules, airport operations and baggage allowances. Lectures, case studies and lab exercises form the teaching strategies for this course.

HOTM306 Leisure and MICE Tourism

Events represent lucrative part of the tourism mix across the globe. The students will learn about the elements of meetings, incentives, conferences, and exhibitions (MICE) are the core beneficial concepts that generate sizeable portion of a tourism revenue. The student would access the range of operational and management task necessary to manage events successfully by class discussions, case studies and projects.

HOTM307 Destination Planning and Development F

Tourism offers great potential for purposeful, strategic, and comprehensive economic development. Destination planning encompasses ethical coalitions between civil society, businesses and the government to support sustainable growth and the long-term success of tourism. The course enables students to assess the tourism potential of a destination amd prepare tourism development plans as well as marketing techniques. Students will engage in class discussions, case studies and interaction with government bodies and destination management organisations (DMOs).

MDIA 203 Advertising

The significance of advertising has increased in the modern era. Rising competition amongst companies and industries is pushing brands and commercial organizations to adapt to advertising as their business strategy. The course offers an in-depth study of advertising concepts, designing processes, marketing, communication, strategies, collaborations, and campaign planning to prepare students for the industry. Lectures, brainstorming sessions, screenings, and project creation are some of the ways adopted for course delivery.

MDIA 102 Basics of Camera Techniques

Camera operation is fundamental to motion picture production for effective storytelling. The course provides an insight into the significance and use of light and various types of lenses required for a shot. It equips students with the essential elements of settings and handling of the video camera to produce cinematic movements for the footage. The students learn through lectures, demonstrations and hands-on training.

MDIA 207 Media Ethics, Laws and Regulations

Understanding media ethics is crucial for best practices in the media industry and subsequently the society. The new media technologies have furthered the need to have checks and balances in place to contain tampering with information. The learners are taught the concepts of censorship, fairness in news and regional and global media regulations. Lectures, case studies and class discussions are some of the methods to deploy the course.

MDIA 101 Introduction to Storytelling

Stories and storytelling are the foundation of any media content. The course offers tools and techniques like storyboarding and screenplay to create stories and convert them into different media productions. Through lectures, case studies, and practice sessions, students learn the craft of storytelling.

MDIA 201 Post-production for Moving Images

The understanding of the process of post-production is paramount for audio-visual content creators. Students learn to manipulate and rearrange visuals to create a desired output. Hands-on training, demonstrations and case studies are some of the techniques used to equip students to organize and create industry-standard projects.

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strategies, collaborations, and campaign planning to prepare students for the industry. Lectures, brainstorming sessions, screenings, and project creation are some of the ways adopted for course delivery.

MDIA 207 Media Ethics, Laws and Regulations

Understanding media ethics is crucial for best practices in media industry and subsequently the society. The new media technologies have furthered the need to have checks and balances in place to contain tampering with information. The learners are taught concept of censorship, fairness in news and regional and global media regulations. Lectures, case studies and class discussions are some of the methods to deploy the course.

MDIA 201 Post-production for Moving Images

The understanding of the process of post-production is paramount for audio-visual content creators. Students learn to manipulate and rearrange visuals to create a desired output. Hands-on training, demonstrations and case studies are some of the techniques used to equip students to organize and create industry-standard projects.

MGMT 120 Principles of Management

A dynamic and evolving business environment have made the managerial assignments challenging. Students are exposed to the main management functions including planning, organizing, staffing, directing, and controlling. They also learn about the different management concepts, techniques, and principles necessary for acquiring important managerial skills. It is done through classroom lectures, group projects, case studies, industrial visits, and guest lectures.

PSAP 307 Personality Psychology

Understanding the role played by nature and nurture into personality formation is primordial to explain and predict human behaviour change over time and in different settings. The students will explore the different theories of personality, its assessments, and the potential disorders. Through class activities, debates, and oral presentations the students will develop mastery of the key concepts of personality foundation and evolution.

PSAP 309 Organizational Psychology

Professional practice in organizations is fundamental to improve the quality of work, increase employee motivation and achieve greater performance. The students will learn the management of change in organizations, the elements of performance appraisal and dimensions of organization culture. Through class debates, formative assessments and practical exercises, the students will apply psychological principles in various organizational settings.

PSAP 311 Educational Psychology

Understanding the different learning process among students is fundamental to improve teaching and learning strategies and ensure academic success. The students will learn about the nature, scope, and importance of educational psychology. The students will also broaden their understanding about the challenges faced in the school settings. Class activities, assignments, presentations, and case studies are used to promote the level of knowledge and learning progress among students

PSAP 407 Health Psychology

Increasing self-awareness about health behaviours and its psychological foundations is essential to allow individuals to have a better control over their physical and mental state and to give them the opportunity to make better life choices. The students will discover the Bio-Psycho-Social Model of health studying the impact of these factors on overall health and well-being. Through class debates, hands-on activities and research-based

assignments, the students will emphasize on the need of physical and mental balance for the maintain of a healthy life.

PSAP 417 Social and Community Psychology

Social interaction amongst humans and their environment forms the core of social and community psychology. Social beliefs, cultural inspirations, conformity, compliance, prosocial behaviour, transformative change, and community wellbeing are some themes covered through the course. Case studies, group discussions and handson activities are among the identified learning tools used to form the formative assessment in the course.

PSAP 427 Psychology of creativity

Creativity analysis is essential to understand the origins of divergent thinking, inventiveness, artistry and contribute to the development of societies. The students will explore the genesis of creativity, its cultural specificities, and its application in different life contexts. Through case studies, class debates and practical exercises, the students will learn how to develop and apply creativity in diverse situations.

PSAP 431 Coaching Psychology

Acquiring knowledge about coaching theories and practices is essential to reach better achievements and wellbeing in diverse life areas such as work, health, and community. The students will explore concepts of motivation, self-efficacy, enhancement of life experience, leadership, motivation, and factors of optimal functioning according to different psychological approaches. Through group activities, and practical assignments, students will be able to understand the fundamental concepts of coaching and develop action-oriented interventions to reach optimum life success.

PSAP 435 Sports & Performance Psychology

The study of sports is critical to synergize physical and mental well-being to enhance athletes' performance. The students will explore the psychological, behavioural, and emotional aspects of sports and related performance management. Through various case studies, presentations, assignments and other relevant activities and references will be used to learn and apply the concepts.

PSC0 419 Positive Psychology Interventions and Applications

Positive psychology contributes to a balanced scientific understanding of human experiences and ways to foster thriving in individuals, communities, and societies. Students will be introduced to various concepts of positive psychology, cognitive and interpersonal approaches, and skills necessary for effective positive psychotherapy. Throughout this course, students will use role-play and group discussions to develop concrete competencies in positive psychotherapy skills.

PSCL 201 Psychological Testing and Assessment

Acquiring knowledge about the concepts and methodology of psychological testing is fundamental to understand its application in research work and human behaviour. This course explains the concepts of historical evolution and ethical consideration of construction, standardization, and administration of psychometric tests. Research assignments, class discussion, practical admiration and report writing are used to foster and evaluate students' knowledge.

PSCL 405 Psychopathology

Mental illness analysis is fundamental to understand the emergence, development, and treatment of psychological disorders. The students will examine symptoms, etiology, assessments, and various therapeutic approaches to

different disorders. Through class debates, cases studies and research-based assignments, the students will develop the skillsets required to be proficient in Abnormal Psychology.

PSCL 411 Introduction to Psychotherapeutic Interventions

Developing knowledge about psychotherapeutic interventions is fundamental to be able to address human uniqueness and complexity, to consolidate coping mechanisms and solve personal and group conflicts. The students will discover the different interviewing techniques, individual, family and group therapies and the professional ethics to abide by. Through role play, class debates and research assignments, the students will acquire the required skills and knowledge to be able to conduct efficient psychotherapeutic sessions.

PSCO 207 Ethics in Psychology ,Research and Practice

Ethical practices embody the regulations covering psychological work with young people and susceptible adults. Understanding and critical reflection on the principles of ethical and safe practice is essential for psychology scholars. Data collection, management and analysis, report preparation and demonstration of the practical application of ethical principles and regulatory frameworks forms the core of the subject. Team learning, group discussions, practical assignments form the part of formative assessment in the course.

PSCO 415 Counselling and interviewing skills

Self-awareness and an understanding of culture, diversity, and worldview are critical prerequisite for effective helping and responding to clients. This course will introduce the basic theory, micro-skills approach for intentional counselling and skills necessary for effective interviewing and counselling. Throughout this course, students use role-play situations and mock sessions to practise skills, concepts, and methods designed to develop concrete competencies in interviewing and counselling.

PSCO 421 Psychology of Exceptional Children

Understanding the different biological, cognitive, and emotional disabilities is fundamental in educational setting to set specific remedial learning strategies that would grant equal access to people of determination to knowledge and better career perspectives. The student will explore the different intellectual, neurological, physical, and emotional disabilities that a student may suffer from during his academic journey along with the different strategies and techniques implemented to address these challenges. Through class debates, practical exercises and case studies, the student will develop expertise in the field of Special Education.

PSGP 101 General psychology

Exploring the main concepts and theories of psychology is fundamental in understanding human complexity. The students will explore the theoretical base in the field of psychology including but not limited to biological foundations of behaviour, memory, thinking, intelligence, personality, consciousness, and motivation. Through Class discussions, practical exercises and role play, the students will acquire the basic knowledge to explain human behaviour from a biopsychosocial approach.

PSGP 103 Introduction to Behavioral Neuroscience

The relationship between brain, behaviour and cognition is essential to understand the various aspects of human psyche. Students are taught biological bases of sensation and perception, neural development, and physiological approaches to understanding cognition, behaviour, and emotions. Lectures, case studies and audio-visual aids are the teaching and learning pedagogies employed to deliver the course.

PSGP 105 Theoretical Paradigms in Psychology

Exploring the historical and theoretical background about the rise of psychology is fundamental to understand the diversity of its origins and therapeutic approaches. The students will learn to identify the different perspectives in psychology and how that helps in understanding individual differences and predicting human behaviour. The students will expand their knowledge through class discussions, assignments, projects, and oral presentations.

PSGP 203 Developmental psychology

Acquiring knowledge about lifespan development is fundamental for understanding patterns of human learning, maturation, and adaptation to different life situations. The students will expand their knowledge of physical, emotional, cognitive, and social human growth. Debates, interactive demonstration, and formative assessment are used to foster and evaluate the students' awareness about the major milestones of human development.

PSGP 205 Cognitive Psychology

Understanding the mental processes behind memorization, motivation and learning is essential to optimize human competences and to spot early signs of developmental delays in individuals. The students will explore the relationship between attention, perception, memory, learning, language, and the brain structures. Through role play, simulations, class debates and multimedia supports, the students will be introduced to executive functions and the role played by the brain structure in modelling human behaviour.

PSGP 303 Applied Statistics

Statistical analysis is the key to effectively organizing and understanding all the incoming information in a meaningful way. Students are taught descriptive, correlational, and inferential statistical methodology. Lectures, statistical problems-based research reading and practice with statistical software are the methods of instruction and learning used to deliver the course.

PSGP 305 Introduction to Child Psychology

Studying children's millstones of development and the potential psychological disturbances is a fundamental need in addressing children's mental health. The students will explore the major theories and stages of child development, assessments, diagnosis, and treatment in child psychopathology. Through lectures, class debates and case study, the students will be able to comprehend the different developmental stages and identify the early signs of mental disturbances in children as well as the required psychological interventions.

PSGP 413 Psychology of Motivation Leadership

A comprehensive knowledge of work motivation and leadership is essential to understand employee dynamics and success at an organisation. Students are taught modern organisation structures, leadership styles, employee attitudes, emotions, and stress at work and various approaches to work motivation. Lectures, case studies and audio-visual aids are the teaching and learning pedagogies employed to deliver the course.

PSGP 429 Climate & Environmental Psychology

The study of environment and climate is critical to understand how individuals react to environmental problems ranging from littering to pollution to climate change. Students are taught about history and scope of environmental psychology, human-nature interactions, impact of natural and built environments on mood, performance, and health. Interactive lectures, case studies, field trips and audio-visual aids are the teaching and learning pedagogies employed to deliver the course.

<u>QDFP 202</u> Introduction to Fingerprint Science

Fingerprints are one of the most unerring means of personal identification. It remains one of the earliest regimens used by humans for identification. This course covers the historical background of the science of fingerprints. Students learn pattern identification, crime scene preservation of prints and print development as well as understand the new automated fingerprint identification systems through lectures and laboratory practices.

<u>QDFP 206 Introduction to Questioned Documents</u>

Mastering the skills to identify fraudulent documents is a key part in forensic evidence analysis. Students learn to make independent examinations, comparisons, analyses, and judgments in the challenges commonly encountered by document examiners. A combined practice of lectures, and laboratory experiments will equip the students to give detailed reports of questioned document evidence.

ODFP 302 Handwriting Analysis

Knowledge of questioned documents is essential for handwritten and typewritten examinations. Students will develop an understanding of written and printed documents. Examination of signatures, handwriting, and tampered documents while using various instruments will be equipped through laboratory experiments and lectures.

QDFP 402 Electronic Printers and Ink Analysis

Mastering the skills to identify and analyze questioned documents is an indispensable tool in forensic science. Students develop an understanding and appreciation for the scope of typewritten, printed, and photocopied document examination. It also helps develop an understanding of typography, computer-generated documents and their characteristics through lectures, practical's, group discussions and case studies.

QDFP 406 Documents and Security Features

Proficiency in identifying questioned documents based on their security features is a key part of forensic evidence analysis. Students will learn about the different types of security documents, their salient features, independent examinations, comparisons, analyses and judgments in the challenges commonly encountered by document examiners. A combined practice of lectures, and laboratory experiments will equip the students to give detailed reports of questioned document evidence.

QDFP 412 Biometrics

Personal identification through biometric recognition is primordial to the criminal justice system in the field of forensic science. Students will learn the primary modalities of biometric recognition: namely fingerprint, face, and iris. It further introduces other emerging technologies such as recognition of gait, hand and ear geometry through lectures, case studies and group discussions.

QMET 110 Business Mathematics

Numeracy is an essential skill for the market place. The students are introduced to essential mathematical methods needed to understand, analyze, and solve business problems related to business and economics. Topics related to matrix operations, simple and compound interest, and annuities are used to evaluate various financial decisions, while topics related to business calculus are used to determine marginal revenue and costs. Through problem-solving, group activities and assignments, numerical skills are introduced and emphasized. Pre-Requisite ENGL 101

QMET 210 Statistics for Business

Quantitative tools and methods are necessary skills required in the contemporary world of business. The current business environment demands managers' ability to analyze and summarize data and use statistical tools for decision-making and problem solving. Students are acquainted with the topics related to data organization, visualization, hypotheses testing for parametric and nonparametric test. Through group activities, assignments and using Microsoft Excel students are prepared to deliver effective business presentations. Pre-Requisite QMET110

<u>QDFP 416 Dermatoglyphics and other impressions</u>

Mastering the skills of dermatoglyphics is vital in forensic investigation. Students will learn about the various types of impression evidence occurring at crime scenes. Pattern identification, crime scene preservation of prints, print development as well as their analysis are studied through lectures, practicals, demonstrations and documentaries.

RDHM 201 Front Office Operations – I

The front office forms the central locus of connection for all sectors of the lodging industry and is an important revenue generating department of the hotel. This course introduces the students to the concept of hierarchy, operational aspects of reception and reservation, and interpersonal communication. Learning will be facilitated through lectures, class discussions, role plays, industry visit and practical sessions.

RDHM 206 Front Office Operations – II

Front office connects all sectors and departments of the lodging industry. Hence, being the revenue generator, this course will enable the students to gain insights of human resources related to front office and the quality service. Learning will be facilitated through lectures, class discussions, role plays, industry visit and practical sessions.

RDHM 302 Housekeeping Operations

Operations in a hotel pivot around accommodation establishment that offers guests with hygienic, serene and a welcoming surrounding. The Housekeeping operations department is geared towards an aesthetic upkeep of rooms and maintenance for leaving an impression on the guests. Student will study a systematic approach to managing housekeeping operations for the lodging industry. Learning will be facilitated through lectures, class discussions, industry visits and practical sessions.

RDHM 401 Rooms Division Management

A dynamic revenue generator with the lodging sector, the rooms division is a key functional department in the hotel. The course enables students to interpret operational data through effective revenue management to make informed management decisions to enhance business performance. Some of the teaching and learning include lectures, class discussions, PMS (Property Management System) and industry interaction.

RDHM411 Global Strategy for Guest Retention

Maintaining customer relations for memorable experience, is the key of a service industry.

This course is designed to enable students to develop an understanding of the complexities associated with implementing change and the tools for analysing and optimizing the guest service experience. It equips students with the knowledge and skills of operational processes for managing the service counter to achieve internal and external customer satisfaction. Teaching and learning will be facilitated through lectures, class discussions, role plays, industry visit and practical sessions.

TOUM 402 Experiential Tourism

For tourists, experience is the total product so they desire a series of services that allow multiple options and experience opportunities. This course covers the entire range of all aspects and components of the experiences encountered, including attitudes and expectations. Students will learn through a definite series of experiences of products and services taught via lectures, projects and field visits.

TOUM403 Sustainable Tourism

Impacts on the natural and built environment and concerns for the history, heritage, and culture of local communities are matters of concern within the tourism industry. This interdisciplinary course offers practical policies and plans for fostering harmonious relationships among local communities and government at all levels. The students will be able to identify, understand and reflect on principles of sustainability by applying various concepts in real life projects that provide them the platforms to use the knowledge and skills in creating sustainability.

TOUM404 Ticketing and Computer Reservation Systems in Tourism

Global Distribution System models have become an essential tool for business in hospitality and tourism industry. This course is designed to equip students with air ticketing methods and to attain the practical knowledge. It enables student to calculate the fares, time zones and passenger name record (PNR). The width of the course exposes student to various Central Reservation System software's. Theory sessions would focus on Computer Reservation Systems in Tourism (CRS) models and product knowledge, practical and industry visits would focus on actual hands on operations of the software.

TOUM405 Tourism Impact Planning and Management F

Travel impacts are multifaceted and challenging, brings both positive and negative impacts on tourist destinations. The course exposes students to the criticality of strategic and integrated planning, marketing, and managing environmentally sensitive locations. Students will engage in class discussions, case studies and interaction with government and private tourism bodies thus developing practical techniques to analyse the impacts of tourism.

TOUM406 World Geography

Geography inspires curiosity and wonder about the diversity of the world's places, peoples, cultures, and environments. Through a structured way of exploring, analysing, and understanding the characteristics of the places that make up our world, students develop contextual knowledge of the location of globally significant places. Students will engage in class discussions and prepare projects based on touristic attractions worldwide.

22 Glossary of Terms

Academic standing: The current academic performance based on SGPA and CGPA

<u>Academic break:</u> The duration when a student takes a break from an ongoing university session due to academic / personal reasons.

Academic Warning: Students who fail to maintain the required SGPA are given an academic warning.

Academic Dismissal: Dismissal from the University due on academic grounds.

<u>Academic Probation</u>: Students promoted with academic warning are considered to be on academic probation where they can take limited number of credits per semester.

<u>Academic Progression:</u> Semester on semester movement of the students after successful completion of required credits.

<u>Add and Drop:</u> The duration at start of the semester when students can add or drop a course without affecting their GPA.

AUD: Amity University Dubai

Bachelors: a Bachelor's degree normally requires at least four but no more than five years of full-time study, with a minimum of 120 semester credits (or equivalent).

<u>Credit Hours:</u> The academic credit provides a basis to measure the amount of engaged learning time expected of a typical student. A credit, or credit hour, is a unit of measurement defining the student's overall effort towards attaining a qualification. 1 semester credit equals approximately 1 hour of time in class per week over a semester of 15 weeks or longer.

Cumulative GPA: Cumulative grade point average.

Degree: Award at the end of an academic study.

<u>GPA:</u> Grade Point Average

Internship: The term applies to an experience in which a student has a program-related assignment involving attachment to a recognized business, agency or organization.

Transfer: Transfer of credits from other accredited university.

<u>SGPA:</u> Semester Grade Point Average

<u>Conditional Admission</u>: Conditional admission of a student to the university dependent upon the individual successfully completing coursework, or meeting other specified criteria, in order to progress into the full set of courses within the academic program.

<u>Course:</u> A *course* consists of a number of instructional activities over a prescribed period of time. It deals with a single subject and is commonly described by title, number, credits, and expected learning outcomes

Semester: A *semester* is a period of time, typically a minimum of 15 weeks, during the university offers courses. Some courses may be offered in a time-shortened period, often called a *term*, such as a *summer term*.

Major: The *major* is the field of study in which a student specializes at the baccalaureate level.

<u>Elective</u>: Courses which are not compulsory for students. *Electives* may be *free*—selected by the student from any course offerings, or *restricted*—chosen from a pre-determined list of options.

<u>Concentration</u>: A concentration is best thought of as a grouping of courses which represent a subspecialization taken within the major field of study. For example, a student majoring in biology might have a concentration in genetics, or a student in electrical engineering may have a concentration in telecommunications or instrumentation and control. A concentration may be specified on the student's academic record (transcript) but not on the degree certificate.

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