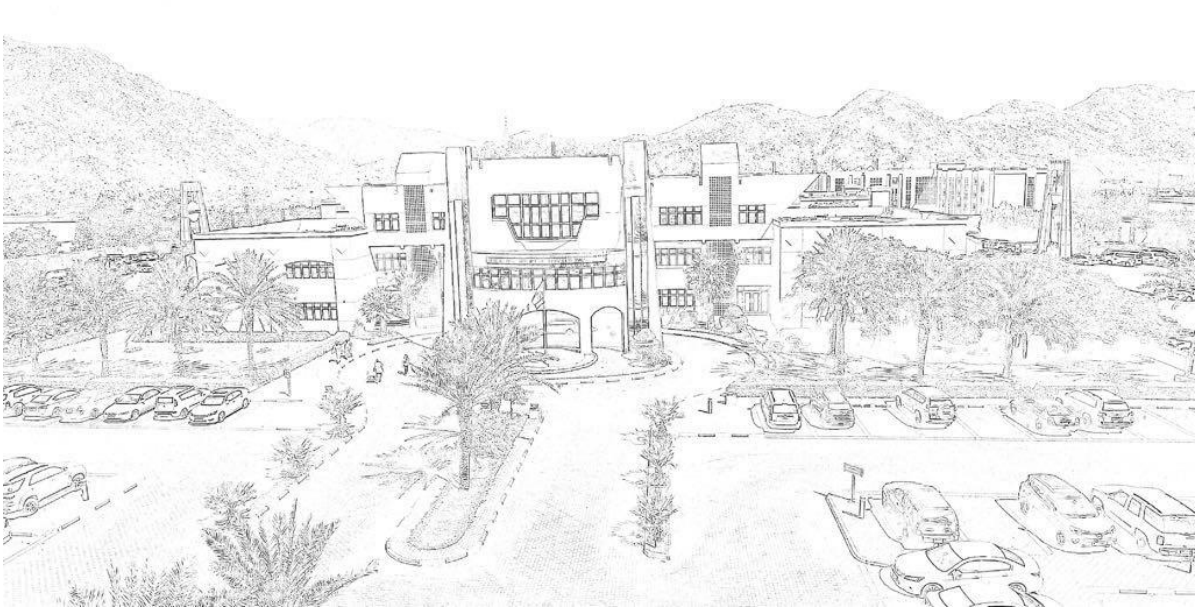
جامعة العلوم والتقنية بالفجيرة

University of Science and Technology of Fujairah

University Catalog



June 2019

صاحب السمو الشيخ خليفة بن زايد آل نهيان

رئيس دولة الإمارات العربية المتحدة

HIS HIGHNESS SHIEKH KHALIFA BIN ZAYED AL NAHYAN

PRESIDENT OF THE UNITED ARAB EMIRATES

صاحب السمو الشيخ حمد بن محمد الشرقي
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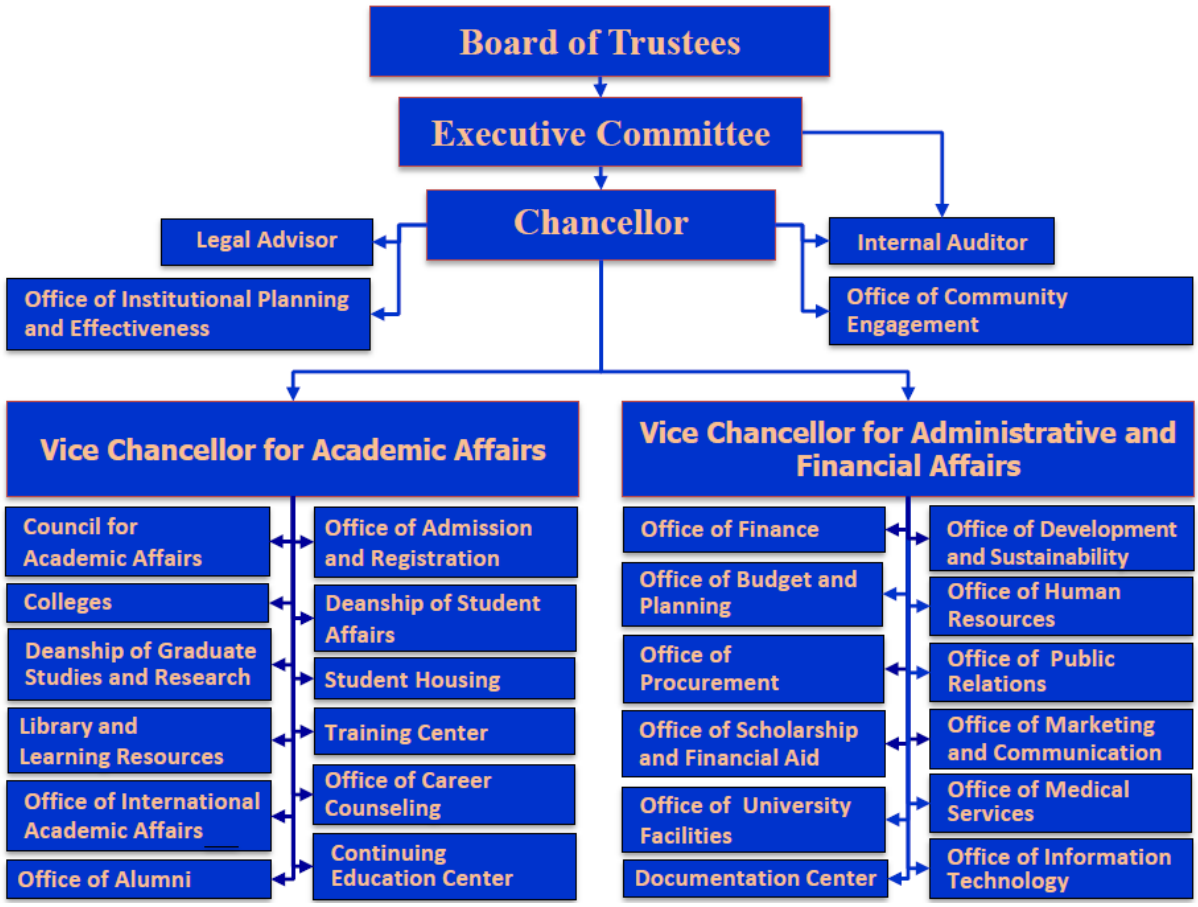

1.2 Message to USTF Students

University Catalog can be used as a quick-reference guide to student life at USTF as it provides answers to many of the questions that students, parents and general public ask. It gives general information about the University, the programs offered by each of the eight colleges in USTF, admission and registration procedures, and the key regulations that are relevant to students and future graduates.

1.3 USTF History

The establishment of University of Science and Technology of Fujairah (USTF) comes as a response to the importance His Highness Sheikh Khalifa bin Zayed Al Nahayan, President of the United Arab Emirates (UAE), attaches to education, and in particular to higher education. In light of this, and to assist the development of the UAE and the region, His Highness Sheikh Hamad bin Mohamed Al Sharqi, Member of the Supreme Council, Ruler of Fujairah, gave his blessing to the foundation of USTF as a full-fledged and independent university.

University of Science and Technology of Fujairah (USTF) replaced Ajman University (AU) - Fujairah Campus, which was launched in 2000. The timing of the launch of the University made it a pioneering force on the higher education scene as it was the first private University established in the eastern region of the UAE. The history of the University demonstrates its efforts to promote high quality in education and to serve the needs of the region. As an independent university, USTF will continue to remarkably enhance and solidify its elite reputation among national and regional Universities.

Accreditation and Licensure

University of Science and Technology of Fujairah (USTF) is a licensed university from CAA, and its academic programs are already accredited by the Commission for Academic Accreditation (CAA) of the Ministry of Education (MOE) in the United Arab Emirates (UAE).

1.4 USTF Vision, Mission, Core Values and Goals

USTF Vision

University of Science and Technology of Fujairah (USTF) aims to be a proactive university in creating and integrating cutting-edge learning, impactful research, and effective community engagement to serve the people of the UAE and beyond.

USTF Mission

University of Science and Technology of Fujairah (USTF) is a multicultural university offering a wide range of academic programs that satisfy the needs of students, alumni, labor market and the community. USTF formulates and implements a research strategy to strengthen its recognition and profile and to enhance research impact on society. USTF develops graduates with creative minds, high level of professional skills and social responsibility to contribute to the sustainable development of the UAE, the region and the world..

USTF Core Values

- **Excellence:** USTF upholds the highest standards to achieve academic excellence in teaching, learning and research.
- **Integrity:** USTF demonstrates honesty, trustworthiness, reliability, transparency and accountability in all interaction with individuals and groups.
- **Respect and Tolerance:** USTF practices equity and fairness by listening to understand and support shared governance, inclusion and diversity.
- **Collaboration:** USTF is committed to reciprocal cooperation developed through consultation to build strong relationships with communities.
- **Innovation:** USTF supports creative activities and productive initiatives for the greatest benefit of mankind.
- **Social Responsibility and Happiness:** USTF promotes community engagement, sustainability, and positivity to satisfy the needs and well-being of the community.

USTF Goals

Goal 1: Promoting excellence of education in an inspiring environment of teaching and learning.

Goal 2: Performing high quality, applicable and impactful research and intellectual contribution.

Goal 3: Recruiting qualified diverse students, enriching their experiences and serving their various needs in a student-centered environment

Goal 4: Building reciprocal relationships and long-lasting ties with external communities.

Goal 5: Achieving operational excellence in University services.

2 | System of Education and Programs

All programs offered at University of Science and Technology of Fujairah are accredited by Ministry of Education, United Arab Emirates. The following tables list all current programs:

2.1 Undergraduate Programs

College	Specializations and degrees offered	Total Cr. Hrs.	Certificate and percentage required for admission
Dentistry	Doctor of Dental Surgery *	199	Advanced Stream - MOE (80%) with minimum score of (80%) in chemistry, Biology and physics / Grade 12.
Pharmacy and Health Sciences	Bachelor of Pharmacy *	150	Advanced Stream - MOE (70%) with minimum score of (70%) / Third Level in chemistry and Biology.
Architecture, Arts, and Design	Bachelor of Interior Design *	134	Advanced Stream - MOE / General Stream - MOE (60%).
Engineering and Information Technology	B. Sc. in Electrical Engineering/ Electronics and Communication *	142	Advanced Stream - MOE (70%) General Stream - MOE (90%) with minimum score of (90%) in Math and Science in Grade 12, with studying a foundation course in physics.
	B. Sc. in Electrical Engineering/Power and Renewable Energy *	142	
	B. Sc. in Information Systems\ Project Management *	123	Advanced Stream - MOE (60%) / General Stream - MOE (65%) .
	B. Sc. in Information Systems\ E-Business Management *	123	
Business Administration	B. Sc. in Management *	126	Advanced Stream - MOE / General Stream - MOE (60%).
	B. Sc. in Accounting *	126	Advanced Stream - MOE / General Stream - MOE (60%).
Humanities and Sciences	Bachelor of Education in Teacher Training in Arabic Language and Islamic Studies	132	Advanced Stream - MOE / General Stream - MOE (60%).
	Bachelor of Education in Teacher Training in Mathematics and Science	132	Advanced Stream - MOE / General Stream - MOE (60%).
	B. A. in Sociology and Social Work	126	Advanced Stream - MOE / General Stream - MOE (60%).
	B.A. in Psychology	126	Advanced Stream - MOE / General Stream - MOE (60%).
Mass Communication	B. A. in Mass Communication/ Public Relations and Advertising **	126	Advanced Stream - MOE / General Stream - MOE (60%).
Law	Bachelor of Law	132	Advanced Stream - MOE / General Stream - MOE (60%).

Students who hold agricultural, industrial, technical, commercial, vocational and religious Secondary school certificates are eligible for admission to all degree programs offered to holders of General Stream secondary school certificates.

(*) Percentage required for admission is proficiency certificate in English language, e.g. TOEFL with a minimum score of 500, IELTS with a score of at least 5 or its equivalent.

(**) Percentage required for admission is proficiency certificate in English language, e.g. TOEFL with a minimum score of 450, IELTS with a score of at least 4.5 or its equivalent.

Students with a minimum overall average of 80% in technical secondary school certificate may apply for to Electrical Engineering Major. He (She) will be given conditional admission.

Students with a minimum overall average of 80% in technical/commercial secondary school certificate may apply for to Interior Design Major. He (She) will be given conditional admission.

The student should pass the conditional courses which are defined by department with grade "C".

Minor Programs offered by the colleges

College	Program	Eligible Students
Engineering and Information Technology	Information Systems	Any major within the University other than the College of Information Technology
Business Administration	Management	College of Business Administration Electrical Engineering Student
Business Administration	Accounting	College of Business Administration Information Technology Students

2.2 Graduate Programs

College	Degree	Total Credit Hours
Business Administration	MBA - HRM (Human Resource Management)	36
Humanities and Sciences	Professional Diploma in Teaching	24

3 | Admission and Registration

Applications for admission can be submitted online to the Office of Admissions and Registration prior to the beginning of each semester. To be eligible for admission, a student must have a secondary school certificate issued in the UAE, or its equivalent as approved by the UAE Ministry of Education. The USTF Council for Academic Affairs (CfAA) determines the number of students to be admitted to each degree program each semester, according to the university's available resources.

3.1 General Admission Conditions

Holders of UAE Secondary School Certificate

Holders of a Secondary School Certificate (SSC), Science Section, or Advanced Stream are eligible for admission in any college of the university if they satisfy the minimum score requirement for the degree program.

General Stream

- Holders of a Secondary School Certificate (SSC), General Stream (MOE), are eligible for admission in all colleges eligible for literary section with a minimum score of 60%.
- General Stream (MOE) are eligible for admission for the following majors if they obtain an average of (90%) with minimum score of (90%) in Math and Science in Grade 12, with studying Physics as a foundation course in USTF:
  - B. Sc. in Electrical Engineering
    - Electronics and Communication
    - Power and Renewable Energy

The decision to admit a student is made on a competitive basis, taking into account the number of available seats as determined by the individual college and the applicant's final secondary school examination score.

Holders of Foreign Secondary School Certificates other than British System Certificates

Applications made by holders of foreign secondary school certificates will be considered according to Circular No. 200, 2004, and Circular No. 123, 2005, issued by His Excellency the Minister of Education/Higher Education Affairs, UAE.

In general, holders of the National High-school Certificate of a foreign country are eligible for admission if:

- The certificate is considered for admission in public universities of the country where it is obtained
- The certificate is awarded after at least 12 years of schooling. The certificate includes at least six subjects covering the following four areas: (i) Mathematics, (ii) Sciences, (iii) Languages, and (iv) Social Sciences/Humanities or Arts

Holders of High-school certificates from countries having two-level high-school certificates, must submit the certificate of the higher level.

Examples of Acceptable Foreign Certificates:

- Iranian: the Pre-University Certificate
- Indian Board(s): Senior Secondary School Certificate
- Pakistani Board(s): Higher Secondary School Certificate (Part II)
- French Baccalaureate: completion of Part II
- International Baccalaureate: completion of six subjects, with three at the higher level
- American High-school Diploma.
- West African Senior School Certificate

Holders of British System Certificates (IGCSE, GCSE, GCE)

A holder of a British system certificate is eligible for admission if:

- The applicant has passed seven subjects at the ordinary level of IGCSE or GCSE, with a minimum grade of C. If a subject is taken at the AS Level or A Level the required minimum score is reduced to D and E respectively
- The seven subjects must cover the following four areas: Mathematics, Science, Languages, and Humanities or Arts
- The applicant must prove that he/she has completed at least 11 years of schooling by providing the grade transcript of Grade 11 and that of Grade 12, when available
- The applicant submits his/her school leaving certificate

3.2 English Language Proficiency

Full admission to programs where the medium of instruction is English is given only to applicants with a score of at least 500 in the TOEFL (paper-based test), 61 in TOEFL (iBT), EmSAT Achieve English 1100, Band 5 in IELTS (Academic), 41 in (Cambridge English: Advanced Test of English Language), IESOL B1 or 36 in (Pearson Test of English Academic). English Proficiency scores are accepted only if they were obtained less than two years from the admission date. Institutional TOEFL score is considered only when the test is taken at an AMIDEAST Center.

Students who do not satisfy the above-mentioned minimum English proficiency requirement may begin their studies with conditional admission. During their first semester, holders of TOEFL, with a score between 450 and 499 or equivalent, will be required to enroll in the Intensive English Program (IEP) offered by the Unit of General Studies, until they obtain at least 500 in the TOEFL, or its equivalent. Admitted students with a score below 450 (TOEFL) or equivalent are required to enroll in an English preparation course (lower level) at the on-campus Continuing Education Center (CEC). However, colleges will reserve a seat for them, for one semester only, if they obtain a score of at least 450 in TOEFL or its equivalent test score at the end of the first semester of registration.

3.3 Admission On Probation

Applicants holding a high-school score below the required minimum admission score, not less than 60%, of an academic program may be admitted on probation in a program. They must sign an undertaking stating that they are aware that they will be dismissed from the program at the end of the probation period if they do not satisfy the condition(s) set by the college, such as obtaining a grade C in a given course, or a GPA greater than or equal to 2, etc.

3.4 Re-Admission

3.4.1 New students who have missed two consecutive semesters of enrollment (excluding the summer semester) at the university may apply for re-admission by completing the re-enrollment form which is available from the Office of Admissions and Registration, and must satisfy admission requirements in effect at the time of re-admission. A new university ID will be issued and the student should pay the non-refundable fee for the application.

3.4.2 Former students who have missed more than two consecutive semesters of enrollment at the university may apply for re-admission provided that they achieve the following:

- The required average in secondary school certificate.
- A valid English Proficiency Certificate with the required score.
- Availability of vacant seats in the major.
- Approval of the College Dean and Dean of Admission and Registration (DAR).
- Payment of all debts.

A new university ID will be issued, and the student should pay the non-refundable fee for the application. If the Dean of the previous college and the DAR accept the student to continue in the same major, the previous courses which the student has studied will be considered if they are included in the new study plan.

N.B.: If the student was warned, he/she must transfer to another program providing that his/her CGPA for the courses to be transferred is 2.0 or higher.

If the student can graduate within the time allowed for completion of a degree program, re-enrollment of the student with the same ID and in the same program will be considered after the payment of the required fees.

3.5 Transfer Students from Accredit Institutions

Students from accredited institutions of higher education may apply for admission in a USTF program in the same field of study if they have been of good academic standing, i.e., their Cumulative Grade Point Average (CGPA) is a least 2.0 on a scale of 4.0, or the equivalent, and if they are eligible to return to their current or formal institution (they have not been the subject of disciplinary dismissal). However, those students who have not been of good academic standing (i.e. those with a CGPA of less than 2.0 on a scale of 4.0), will be allowed

to transfer only to programs in a different field from the one in which they were enrolled at the institution they previously attended. Any transferred student is required to meet the English Language Proficiency condition.

The transfer of credited courses is considered for students who are transferring to a similar program to the one studied previously if:

- Their cumulative grade point average is at least 2.0 on a scale of 4.0, or the equivalent.
- The number of credit hours for the course is not less than that of the USTF equivalent course.
- The grade obtained on the previous course must have been at least C (2.0 on a 4.0 scale) irrespective of the course status (Satisfactory, Good, etc.), or the grade that corresponds to "Merit/Good" for institutions using a different grading scale.
- The course content at the institution previously attended should be similar to that of the corresponding course offered at USTF

If the transfer of a student with a CGPA less than 2.0 is accepted in a program within a different field of study, the transfer of credited General Education courses may be considered if points 2-4 listed above are fulfilled. If a student meets these transfer conditions, but is unable to submit the course content that was covered previously, he/she may sit an examination set by the College after payment of a fee. The examination result will be used to determine whether the course will be transferred or not.

Only grades obtained from courses taken at USTF will be taken into account in the calculation of a student's CGPA, i.e.: grades obtained from transferred courses at the previous institution will not be taken into account in the computation of the CGPA at USTF.

It is important to note that USTF does not grant transfer students a degree unless they successfully complete at least 50 percent of the credit hours of the program, including the majority of the final year courses at USTF.

3.6 Documents Required for Admission

- Application form, which may be obtained from the Office of Admissions and Registration, to be filled in by the applicant
- Equivalency certificate issued by the Ministry of Education in UAE for the holders of non-UAE high school certificate
- UAE Secondary School Certificate, or its equivalent, and grade transcript. Certified copies are acceptable
- Photocopy of valid passport and residency visa (if applicable).
- Photocopy of a valid Emirates ID Card (UAE residents only)
- Birth certificate.
- Health certificate.
- Status of UAE National Service for male students.
- Valid certificate of good conduct, issued by an official body

- Six passport-sized photographs with the applicant's full name on the back of each
- A signed "declaration" by the applicant stating that he/she will observe university rules and regulations.
- If available, a certificate of proficiency in English language, e.g. TOEFL with a minimum score of 500, IELTS with a score of at least 5 or its equivalent. TOEFL with a minimum score of 450 or its equivalent for the college of Mass Communication and Humanities, except for Sociology and Social Work, and Psychology programs.

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

3.7 Certification of Documents

Newly-admitted students are requested to have their documents certified before the end of the first semester of study; otherwise their registration will be suspended.

- Secondary school certificates obtained in the UAE must be certificated by the UAE Ministry of Education.
- Secondary certificates obtained abroad must be certificated by the Ministry of Education, and by either the Ministry of Foreign Affairs of the country of origin and the UAE embassy in that country, or by the embassy of the country which issued the certificate, and by the UAE Ministry of Foreign Affairs.

3.8 Seat Reservation

Students admitted to Colleges of Dentistry and Pharmacy and Health Sciences are required to pay a seat reservation deposit. This deposit is non-refundable and non-transferable and must be paid before the deadline stated on the letter of admission. This deposit is deductible from the student's fee once the applicant joins University of Science and Technology of Fujairah. If the student asks to defer admission to the following semester and the request is approved, the deposit will be applied to the following semester.

Program	Deposit (AED)
Doctor of Dental Surgery	8000
Bachelor of Pharmacy	4000

3.9 Course Registrations for New Students

Newly-admitted students who have a TOEFL score of at least 500 or its equivalent will be allowed to register for between nine and 18 credit hours according to their study plan.

Newly-admitted students who have a TOEFL score of between 480 and 499, or its equivalent, will be allowed to register up to nine credit hours according to their study plan, subject to concurrent registration in the Advanced Level of the Intensive English Program (nine hours per week), which is offered by the Unit of General Studies.

Newly-admitted students who have a TOEFL score of between 450 and 479 or its equivalent will be allowed to register for up to six credit hours according to their study plan subject to concurrent registration in the Intermediate Level of the Intensive English Program (15 hours per week) which is offered by the Unit of General Studies.

Newly-admitted students who have a TOEFL score less than 450 or its equivalent, will be allowed to register for a three-credit hours course according to their study plan subject to concurrent registration in the Lower Level of the English Program (15 hours per week) which is offered by USTF Continuing Education Center.

Load of New Students According to their TOEFL Score or its Equivalent

Number of University Credit Hours Permitted	Number of IEP Hours Required	Pearson Test of English Academic	Cambridge English: Advanced Test of English Language	TOEFL (CBT)	IELTS (Academic)	TOEFL (iBT)	TOEFL (PBT)	EmSAT Achieve English
9-18	None	36	41	173	5	61	500 or more	**1100**
Not more than 9	9				4.5	54-60	480-499	**950**
Not more than 6	15				4	45-53	450-479	**825**
3	15				Below 4	Below 45	Below 450	**Below 825**

Important: Students are allowed to complete at most 15 credit hours before fulfillment of English Language Proficiency. If they complete 15 credit hours without achieving 500 in TOEFL or its equivalent, they will only be allowed to register in the appropriate IEP program the following semester.

If the student does not achieve the 500 TOEFL score in the two semesters after his/her admission, the College Council may consider dismissal of the student from his/her program. In this case, the student may be allowed to transfer to a program taught in Arabic if he/she satisfies its admission conditions.

Once a student's selected courses have been approved by the academic advisor, and on payment of the tuition fees, the student will be given a timetable which states the name of the courses, the schedule of classes, the name of the lecturer and the number of the classroom or the laboratory in which the course is held.

3.10 Course Registration for Continuing Students

Colleges encourage non-warned students to use the early registration period to select courses in consultation with their academic advisors. The early registration period is specified in the academic calendar. Warned students and students who did not benefit from the early registration phase can register during the registration week.

Registered USTF students may take some courses outside USTF provided that they obtain the prior approval of the Dean of the College. Acceptance of the transfer of external courses is conducted according to the course transfer criteria.

3.11 Adding and Dropping Courses

Students may add/drop courses only with the approval of their academic advisors. Students who add and drop courses during the approved period will not lose the fees paid for dropped courses. When adding/dropping courses, students should bear in mind that the minimum number of credit hours for which they may register is nine. The academic calendar specifies the period allocated for dropping courses without affecting the student's academic record, but without refund of fees. The academic calendar also specifies the last date for withdrawal from a course with a "W" grade without refund of fees. In this case, the course appears in the transcript with the letter "W" with no effect on the computation of the semester Grade Point Average or the CGPA.

3.12 Study Load

A student's "study load" is the number of credit hours for which he or she is registered during the semester. For the fall and spring semesters, the study load varies from 9 to 18 credit hours, where one credit hour refers to one lecture hour or two hours of practical study per week, lasting for fifteen weeks. For summer semesters, the study load varies from three to six credit hours. Students may increase their study load to up to twenty-one credit hours in the fall and spring semesters in the following cases:

- Dentistry students
- The student's CGPA was at least 3.6 in the preceding semester
- The student is expected to graduate at the end of the semester and his/her CGPA is at least 2.0

A student's study load is up to six credit hours in a summer semester. However, independently of their academic standing, students will not be allowed to sign up for more than 12 credit hours during the two summer semesters of the academic year.

3.13 Time Allowed for Completion of a Degree Program

The maximum time allowed for a student in which he/she may complete a degree program is a maximum of double the regular number of required semesters. In other words, a four-year bachelor degree must be completed in a maximum of 16 regular semesters of enrolment in the program. The minimum time allowed to complete a degree for non-transfer students is a minimum of six regular semesters for four-year programs and eight regular semesters for five-year programs.

The maximum and minimum number of semesters of enrolment for transfer students is determined after the deduction of the number of earned/transferred semesters (15 credits correspond to one semester) from the above limits. Suspended semesters are not counted in the time allowed for students to complete their degree.

3.14 Suspension of Registration

Newly-admitted students can suspend their study only in their first semester, and they should register courses in the next semester. Otherwise, he/she should apply for new admission. The total number of semesters for former students that can be suspended is four. However, suspension of registration for more than two consecutive semesters is not allowed. In all cases, the Office of Admission and Registration should be notified in writing.

3.15 Right to Cancel Registration

The University reserves the right to cancel an offer of admission if the applicant fails to satisfy all requirements, or if it is found that admission was obtained through the use of incomplete, falsified, altered or embellished information. In the case of withdrawal of registration from a matriculated student, credits earned at USTF will be withheld and no transcript will be issued to the student.

3.16 Change of Major for New Students

First-semester students may apply to transfer from one major to another within the university during the add/drop period. The application is processed through the Office of Admissions and Registration provided that:

1. The applicant meets the admission requirements of the degree program to which he/she is applying
2. There is availability of seats
3. Approval of the deans of both colleges concerned is obtained, along with approval from the Dean of Admission and Registration.

3.17 Transfer between Programs

Students may transfer from one program to another within the university provided that they satisfy items 2 and 3 of section above. In addition, they must satisfy the following:

1. The preceding semester's Grade Point Average should be equivalent to that required by the new program; and
2. The application for transfer should be submitted within the period specified in the academic calendar.

3.18 Orientation for New Students

USTF gives special attention and assistance to new students to ease the transition between life at high-school and the University**.** At the beginning of each semester, USTF organizes an orientation sessions for new students which enables them to meet the Vice Chancellors, Deans of the Colleges, Admission and Registration personnel and Students Affairs staff. This orientation also provides them with essential information about course registration, academic advising, important deadlines and other related matters.

4 | Academic Advising

As part of its dedication to academic success, USTF is committed to offering high quality academic advising in order to help students in the development and pursuit of academic objectives consistent with their life goals. Academic advising is an ongoing process that connects students to the university to empower each student with knowledge, resources and skills that will lead to academic success and lifelong desire to learn inside and outside the classroom.

USTF advising policy postulates that:

1. All students shall be informed of the advising policy and advising process during the initial orientation and be directed to an appropriate advisor;
2. All students shall be assigned advisors;
3. All students on probation must be given regular advising each semester;
4. All students expected to graduate must be advised at least twice every semester of their final year;
5. Career counseling and student counseling shall be made available to all students;
6. Advising by faculty members for all new and continuing students shall be provided every semester;
7. Assessment of department advising shall be carried out every semester as a part of the whole program assessment;
8. Academic department advising shall be assessed and reviewed every year;
9. Funding and resources shall be made available to all units to ensure effective and efficient advising at all levels; Training shall be provided for all advisors and peer mentors;
10. Accurate information shall be posted and maintained on the University website.

The goals of academic advising are:

1. To help students take the right decisions in choosing an appropriate course of study that is aligned with their interests, abilities and that meets their academic and life objectives;
2. To answer questions raised by students and to ensure that students are aware of the consequences of their choices;
3. To ensure that all students are aware of resources, services and educational opportunities at USTF that may be pertinent to the student's educational goals;
4. To provide information on university policies and procedures;
5. To facilitate the resolution of academic problems, conflicts and concerns, as appropriate;
6. To refer students, as necessary, to other resources/departments/personnel;
7. To encourage students to be creative in their academic choices;
8. To provide a forum for interaction and guidance about life and academic matters;
9. To collect data about students' needs, expectations and aspirations.

5 | Academic Evaluation and Assessment

5.1 Course Assessment

In each registered course, a student's performance is assessed according to a procedure established by the college concerned, and explained in the course plan. The overall score is normally distributed as follows: (a) Semester tests and activities (50 %), (b) Mid-Semester examination (20 %), and (c) Final examination (30 %). The score for semester tests and activities includes marks for tests, quizzes, assignments, research and laboratory work. The pass mark in each course is sixty percent.

5.2 Grading System

The university adopts the following grading system:

Merit	Grade		Mark
	Point	Letter	
Excellent	4.0	A	From 90 to 100
Very Good (High)	3.5	B+	From 85 to 89
Very Good	3.0	B	From 80 to 84
Good (High)	2.5	C+	From 75 to 79
Good	2.0	C	From 70 to 74
Pass (High)	1.5	D+	From 65 to 69
Pass	1.0	D	From 60 to 64
Fail	0	F	Less than 60

5.3 Semester Grade Point Average

The semester GPA indicates student performance during the semester, and is calculated as follows: the total of the grade point of each course taken in the semester multiplied by its credit hours, divided by the total number of credit hours registered in the semester. For example, if a student obtains the results as set out in the table given below, his/her semester grade point average will be computed as follows: GPA = 54/18 = 3. The following table summarizes the calculations described above.

Subject	Credit Hours	Points	Product of Credit Hours by Point Grade
Mathematics 1	3	3	9
Statistics	3	2	6
Physics I	3	3	9
Islamic Culture	3	4	12
Arabic Language	3	4	12
Psychology	3	2	6
Total	18		54

5.4 Cumulative Grade Point Average

The CGPA indicates the student's average performance over all semesters up to the final or current semester. It is calculated as follows: the total of the point grade of each course taken to date, multiplied by its credit hours, divided by the total number of credit hours taken.

If a student repeats a course in which he/she obtained an "F" grade, or does so in order to improve his/her CGPA, the last grade obtained will be considered in the calculation of the CGPA regardless of whether the last grade is higher than the original one or not. However, the original grade will continue to appear in the academic record without affecting the calculation of the CGPA.

The CGPA is also used for academic probation as follows: starting from the end of the second semester of study, if the student's CGPA is less than 2.0, he/she will be regarded as an "academically-warned" student and will be requested to improve his/her academic performance to raise the CGPA to 2.0 or higher.

A student will not be allowed to graduate unless his/her CGPA is at least 2.0, even if he/she has passed all required courses of the program of study. In this case, and in consultation with the academic advisor, the student must repeat a number of courses of the study plan in order to raise his/her CGPA to 2.0 as a minimum.

5.5 Incomplete Grade

Attendance at the final examinations is compulsory. Failure to attend will result in the student failing the course. However, if a student does not attend the final examination due to an emergency and he/she scored at least 30 out of 70 in coursework (tests and midterm examination) the course may be considered as "incomplete." Acceptable evidence for failure to attend a final examination due to an emergency consists of the following:

a. illness certified in a medical report approved by the University Clinic;
b. death certificate of a first or second degree relative;
c. arrest or summons before a court or other legal body; and
d. other excuses accepted by the College Council.

In these cases, the student must complete and submit a request form within the specified period in the academic calendar. He/she also must present the relevant documents to the Office of Admissions and Registration. Applications will be processed only if the student has no financial obligation to the University and has paid the fee for an "incomplete request." Applications submitted by students with a 25 percent absence warning will not be accepted.

A student whose course result is "incomplete" must take the final examination before the end of the first week of the following semester in which he/she registers, as shown in the academic calendar.

5.6 Examination Re-sits

If a student passes all but one of the courses required for graduation, and if this course is from the last semester, he/she will be allowed to re-register for that course. In this case, there is a charge of 50 percent of the course fees and the student must re-take the final examination before the beginning of the following semester.

5.7 Complaints about Grades

Complaints regarding final examination results must be lodged within a period of 15 days following the announcement of examination results. Students should complete and submit a Complaint Form to the Office of Admissions and Registration after the payment of the required fees. The form will be transferred to the College concerned where an appropriate decision will be made. The Office of Admissions and Registration notifies students, in due course, of the outcome of their applications.

5.8 Attendance Policy

Attending classes is compulsory for all courses. A student will not be allowed to take the final examination if he/she has missed 25 percent of the classes in a given semester. Absence warning policies are set out below:

1. If a student is absent for 10 percent of theoretical and practical class hours, the lecturer will issue a 10 percent absence warning.
2. If a student is absent for 20 percent of theoretical and practical class hours, the lecturer will issue a 20 percent absence warning.
3. If a student is absent for 25 percent of theoretical and practical class hours, the lecturer will issue a 25 percent absence warning and the student will receive the grade of "F."

The Council for Academic Affairs (CfAA) may consider a student's withdrawal from the course if sufficient and convincing reason for the absence is submitted to it by the Office of Admissions and Registration.

5.9 Academic Probation

If a student's CGPA falls below 2.0 in any regular semester, starting from his/her second semester at the university, he/she will receive an academic warning. The Academic Advisor will notify students to submit a letter of undertaking to raise his/her CGPA to at least 2.0 in the following semester.

A student on probation must raise his/her CGPA to at least 2.0 within two semesters, not including the summer session.

The study load of warned students will be reduced, as follows:

1. **First warning:** a maximum of 15 credit hours of which three or six credit hours are repeated (the priority is to repeat all the courses with grade F, D or D^+ then register for new courses) depending on the CGPA and the previous semester's GPA.
2. If, following the first warning, the student has still failed to raise his/her CGPA to 2.0 or higher at the end of the following semester (excluding the summer semester), the second warning will be issued.
3. **Second warning:** a maximum of 12 credit hours of which six or nine credit hours are repeated (the priority is to repeat all the courses with grade F, D or D^+ then register the

new courses) depending on the CGPA and the previous semester's GPA. Student load can be raised by 2 credits at the request of the Dean.

If, following the second warning, the student has still failed to raise his/her CGPA to 2.0 or higher at the end of the following semester (excluding the summer semester), the third warning will be issued.

Third warning: this case will be reviewed by the College Council. The Council may take one of the following actions:

- Transfer the student to another program provided that his/her CGPA for the courses to be transferred is 2.0 or higher
- Allow the student to study outside the university for one academic year (This option is open only for students who can raise CGPA to 2.0). After he/she raises CGPA to 2.0 or above, the student can continue in the same major at the University.
- If student's CGPA for the courses to be transferred is less than 2.0 and he/she will not be able to raise his/her to 2.0 or higher, even if he/she studied for an academic year outside the University, the student shall be dismissed from the University.

5.10 Graduation Requirements

A student will be awarded a degree subject to fulfilling the following requirements:

1. Completion of all courses of the academic program
2. Completion of practical training as specified in the study plan
3. A CGPA of at least 2.0

The merit of the degree is determined according to the following Scaling System for Graduation:

Cumulative GPA	Merit
From 3.8 to 4.0	Excellent with Honor
From 3.6 to less than 3.8	Excellent
From 3.0 to less than 3.6	Very Good
From 2.5 to less than 3.0	Good
From 2.0 to less than 2.5	Satisfactory

6 | Deanship of Student Affairs

The Deanship of Student Affairs (DSA) is responsible for those aspects of student life which extend beyond the classroom. The DSA is committed to encouraging the personal development and growth of students through the organization of a variety of co- and extra-curricular activities, which include cultural, social, sport and entertainment programs. In addition, the DSA is responsible for the provision of a variety of services.

6.1 Divisions of the DSA

Student Counseling and Services

Student Counseling and Services Supervisor is dedicated to helping students address personal or emotional problems that hinder them in achieving a fully beneficial experience at USTF and realizing their full academic and personal potential. Student Counselor utilizes a service system that emphasizes trust, respect, confidentiality, and compassion. Its overall goal is to maximize student success by attending to any emotional or personal needs which may impede learning. Through personal counseling, students learn to take charge of their lives, acquire skills necessary for adjusting to the demands of university life, and overcome difficulties that may prevent them from meeting their academic and career goals.

Student Activities Supervisor

Under the sponsorship of the DSA, Student Activities Supervisor (SAS) organizes many activities that span a wide range of interests, covering social issues, culture, art and sport. The SAS also acts as the central support for the student societies and organizes various student activities.

6.2 Student Role in Institutional Decision Making

The University of Science and Technology Fujairah (USTF) considers its students to be an important element of its operations and events and values their opinions and suggestions. Students can submit their written concerns/suggestions to the Dean of Student Affairs, the Vice Chancellors or to the Chancellor via the appropriate channels.

6.3 Student Societies

A student society is a body elected by USTF students; society activities are supported by the DSA. The goals of these societies are to:

- Encourage student participation in a variety of activities.
- Promote the spirit of cooperation among students, and encourage them to take on responsibility.
- Provide support to new students by advising them and helping them in their new academic life.
- Obtain student input regarding needs and wishes, and pass the information obtained to the DSA.

- Act as a liaison between students and DSA.
- Meet with DSA members on a regular basis.
- Arrange for "acquaintance" meetings among students in order to break down the barrier between new students and the new academic society.
- Promote study ethics among students and encourage them to abide by the rules and regulations of the University.
- Urge students to abide by the morals, principles and doctrines required by UAE Society.

In line with the vision and philosophy of the USTF, the DSA arranges a series of developmental, educational and cultural courses for student leaders, with the aim of improving their performance and developing their leadership skills.

6.4 Student Services

The DSA is responsible for monitoring the student services offered by USTF and service providers working within it, such as accommodation, transportation and health care services. The Deanship seeks feedback from students regarding the effectiveness of these services and uses it to inform decision-makers regarding the improvement of these services.

6.4.1 Accommodation

USTF is eager to ensure the success of the education it provides. Female students' accommodation is therefore given high priority, as it plays a key role in student wellbeing and can have a positive impact on academic performance. For this reason, an independent department has been founded which is concerned with every aspect of life in the student accommodation, for example matters of comfort, the mini- market, health club, internet, etc. These services are offered at very reasonable prices. The restaurant is run inside the campus by a third party company which is a well-known in the catering field.

6.4.2 Health Clinic

The University Health Clinic seeks to complement the academic mission of USTF and is dedicated to providing educational, supportive, and consultative healthcare services to students, staff, and faculty. In doing so, the Health Clinic strives to make the campus a healthy and safe place to study, work and live.

The objectives of the University Health Clinics are to:

1. Provide primary healthcare to students, faculty, and staff.
2. Provide emergency healthcare to Residential Hall and campus residents during working hours.
3. Support the integration of university services and provide a healthy atmosphere to accomplish the university objective of a disease-free community.
4. Provide high quality integrated health services in a timely manner to generate complete customer satisfaction

6.4.3 Transportation

The transportation Unit is responsible for ferrying students between the different Emirates and the University as well as between the University and their training places.

The Unit has many buses which make students movement easy and comfortable.

This Unit also provides students with transport to activities outside the University, for example visits to scientific and entertainment venues, lectures or conferences. One bus is kept on standby round the clock to cover emergency requirements.

The transportation Unit has defined the regulations governing the use of its buses and the fees student pay in order to ensure the systematic and good-quality service. These regulations are distributed to student who opt for making use of this facility.

The DSA's role in student transportation is to:

- Coordinate the transportation of students to participate in various activities;
- Elicit student views concerning the transportation services offered;
- Solve student problems in cooperation with advisors, who keep the DSA informed of recent developments; and
- Improve the organizational performance in order to achieve high-standard service.

7 | The Career Counseling Center

The Career Counseling Center endeavors to serve USTF students and alumni by educating them to successfully identify, plan and pursue their career goals. The center supports the mission of the University by providing quality services which will enhance clients' employment potential, and by liaising with prospective employers. To achieve its mission, the center is assisted by USTF Alumni Association, a non-profit organization which aims to enhance interaction between alumni, students, the University and the community.

The Career Counseling Center aims to:

1. Help new students to select courses appropriate to their career interests and aspirations.
2. Help students and graduates in decision-making, goal-setting and planning for their careers.
3. Offer guidance to students and graduates regarding the skills necessary to meet evolving job requirements.
4. Help students and graduates to acquire effective job search skills.
5. Signpost students and graduates to job search resources.
6. Provide USTF with job-market information to aid academic planning.
7. Seek recruitment, internship and voluntary or part-time opportunities for students and graduates through liaison with businesses, governmental bodies and organizations.
8. Establish a plan for assessing the performance of career services and activities.
9. Establish and foster lifelong professional and personal relationships between the University and its alumni.
10. Promote communication between alumni, and between alumni and the University.
11. Promote the Alumni Association within the University and engender goodwill, understanding and support for the University in the wider community.
12. Offer alumni opportunity to contribute to and participate in the university's decision-making processes.
13. Establish fundraising mechanisms for the Alumni Association.

8 | Training Center

The Training Center (TC) supports the strategic vision of the USTF by bridging the gap between the academic realm, community and employment market. It achieves this aim through the student training and suggesting training courses to some of the outside community institutions. In doing so, the TC applies scientific criteria in the performance assessment and makes suitable decisions that ensure the quality of training output. The TC objectives are:

Objective 1: Support student training in the University Colleges. This will be done by:

- Cooperating with concerned colleges to following-up the trainees
- Bridging the gap between UAE public and private institutions and USTF by increasing student involvement in the work environment to prepare them for the future work.

Objective 2: Provide an effective training environment for intern students, and appropriate work experiences that are suitable to their specialization. This will be done by:

- Choosing an appropriate training institution, UAE public and private institutions, that meet the training objectives.
- Making personal visits or interviews, or by official mail, or by phone calls.
- Defeating the difficulties and problems that might face trainee students.
- Helping of the concerned colleges in their search for new prospects for training institutions and corporations.
- Signing agreements with reputable training institutions.

Objective 3: Prepare intern students capable of demonstrating excellence and achieving distinction in their chosen fields. This will be done by:

- Choosing an appropriate field supervisor such that he/she is aware of his/her responsibilities, which is defined in the internship manual of the college in which the student is enrolled.
- Choosing an appropriate training institution that meet the training objectives.
- Preparing supported internal programs in cooperation with concerned colleges to enhance students' skills and knowledge.
- Allowing intern students to recognize the latest (technological or methodological) and how to apply it.
- Involving the colleges in the training processes to implement test-training plans and benefit from the training institutions related to the students' specialization.

Objective 4: Develop procedures that will ensure the achievement of training goals. This will be done by:

- Appling scientific criteria in the performance assessment and making suitable decisions that ensure the quality of training output.

9 | USTF Students' Rules and Policies

9.1 Student Rights and Responsibilities

Student Rights

Every student enjoys all rights and freedoms recognized within the University by the Laws of the United Arab Emirates as long as this does not violate the Code of Student Conduct.

Every student has the right to fair equal treatment by the University. A student has a right to be free from discrimination based on ethnicity, color, religion, gender, marital status, nationality, language, or personal handicap. However, a distinction, exclusion, or preference based on relevant academic or physical aptitudes required and made in good faith is considered to be non-discriminatory.

All students have the right to have an environment supportive of the University's mission and their own educational goals. Students can function in their daily activities safely and easily. The University is committed to ensuring that adequate measures are taken to protect the security of students on the University campus.

USTF respects the student's right to privacy of personal information. This implies that information disclosed by the student and for the student is considered to be personal; this information will not be disclosed to third parties without the student's consent. A permanent record for each student enrolled in the University is maintained by the Office of Admissions and Registration. The written consent of the student is officially required to disclose his/her academic record. Exceptions are made for parents, sponsors, authorized USTF officials and in compliance with a judicial order.

USTF shall make sure that students know their rights and responsibilities, as well as applicable University policies and procedures. The university's obligation under this section is fulfilled when the University makes copies (hard or on the university website) of the Student Handbook available to every student upon being admitted to the university.

Students have access to:

- managing their own affairs, increasing self-awareness, career planning and personal decision making;
- Establishing grievance procedures;
- Activities beyond the classroom, which support intellectual and personal development;
- Excellent faculty, academic technology, classrooms, libraries, presentations and other resources necessary for the learning process; and
- The right to get prompt and appropriate responses from the university's colleges and administrative offices.

USTF shall furnish students with relevant course information to enable them to make informed course selection.

A student who is accused of a disciplinary offence has the right to present an appropriate defense.

Student Responsibilities:

Students must behave in a manner that is civil and compatible with the university's function as an educational institution. Students are required to obey the rules and regulations of USTF as laid out in the Student Handbook and University Catalog. In particular, students are expected to abide by all rules and regulations expressed in the Code of Student Conduct. Students are expected to familiarize themselves with these codes and their obligations and responsibilities toward the university, its faculty and staff, other students and visitors to the University. In USTF's community of learning, disruption of the educational process, destruction of property, and interference with the orderly process of the University, or with the rights of other members of the community, cannot be accepted. In order to achieve its objectives and function properly, USTF has the authority mandate to maintain law and order and to discipline those who are disruptive of the educational process.

9.2 Student Behavior Code

All members of USTF are expected to conduct themselves in accordance with the regulations of the University, and the laws of the UAE. In particular, USTF students are requested to play an exemplary and positive role in enhancing the reputation of the University by:

- Demonstrating a clear commitment to their own learning.
- Conforming themselves to all specified time requirements for registration, class schedules, examinations and completion of assignments.
- Ensuring that work presented is their own personal work.
- Ensuring that all information presented to faculty members and administrative staff are accurate and true.
- Conducting themselves in a courteous and proper manner in their dealings with faculty members, employees or other students.
- Meeting their academic advisors regularly.
- Respecting the property of others and of the University.
- Reporting grievances to their academic advisor or the Dean of the College.
- Avoiding engagement in cheating, plagiarism, disruptive behavior or improper conduct which could damage the reputation of the University.
- Using USTF facilities only for learning purposes.
- Not falsifying documents or using falsified documents for any purpose related to the University
- Not distributing leaflets or collecting signatures on university premises or in hostels without prior authorization
- Abiding by USTF rules and regulations, and the directives of the academic and administrative staff
- Acting in a way that will not cause offence to the culture of the UAE.

10 | Tuition Fees and Financial Regulations

USTF operates on a fully credit-based fee structure in addition to other fees. The University reserves the right to increase the tuition and other fees, up to 10% per academic year when deemed necessary. All students who register for courses incur a financial obligation to USTF. Students are responsible for all charges incurred at USTF. Failure to attend classes does not constitute withdrawal from the institution or a class. Students will only be permitted to register for a subsequent semester if they have paid all their financial obligations.

10.1 Application and Registration Fees

The application and registration fee for undergraduate programs and Professional Diploma in Teaching is AED 1,300. The fee should be paid in cash in one installment upon registration, and is not part of the tuition. The application and registration fee is non-refundable, except when the application is rejected in which case an amount of AED 1,000 will be refunded to the student.

A student who wishes to apply for transfer from another accredited institution will pay a non-refundable fee of AED 500. This fee shall be considered part of the application and registration fees if the student is admitted in University of Science and Technology of Fujairah.

Students admitted to the Dentistry and Pharmacy and Health Sciences programs are required to pay a seat reservation deposit as stated in the table below. This deposit is non-refundable and non-transferable and must be paid before the deadline stated on the letter of admission. This deposit is deductible from the student's tuition once the applicant joins the University. If the student asks to defer admission to the following semester and the request is approved, the deposit will be applied to the following semester.

Program	Deposit (AED)
Doctor of Dental Surgery	8000
Bachelor of Pharmacy	4000

The application and registration fee for graduate programs is AED 2,000. The fee should be paid in cash in one installment upon registration, and is not part of the tuition. The application and registration fee is non-refundable, except when the application is rejected in which case an amount of AED 1,700 will be refunded to the student.

10.2 Tuition Fees

Credit Hours for Bachelor's Programs

Tuition fees for the Bachelor's programs offered at the USTF are as follows:

College		Fee per one credit hour
College of Dentistry		AED 2,000
College of Pharmacy and Health Sciences		AED 1,500
College of Mass Communication		AED 1,025
College of Law		AED 1,100
College of Architecture, Art, and Design Bachelor in Interior Design		AED 1,300
College of Engineering and information Technology	B.Sc. in Electrical Eng.	AED 1,300
	B.SC. in Information Systems	AED 950
College of Humanities and Sciences	Bachelor in Teacher Training	AED 950
	B. A. in Sociology and Social Work	AED 1,025
	B.A. in Psychology	AED 1,025
College of Business Administration		AED 950
General Studies		AED 1,150

Credit Hours for Graduate Programs

Tuition fees for the graduate programs offered at the university are as follows:

College/Institute	Major	Fee per one credit hour
College of Business Administration	MBA in Human Resources Management	AED 2,000
College of Humanities and Sciences	Professional Diploma in Teaching	AED 1,000

Laboratory, Clinic and Studio Fees

Students registered in the programs offered by the College of Dentistry and College of Pharmacy and Health Sciences pay a flat semester fee for specialized laboratory sessions and clinics as shown in the table below:

	College Dentistry			College Pharmacy
	1st -3rd year	4th and 5th years		
Fees	AED 4,000	Clinics	Productive Lab	
		AED 6,000	AED 3,000	AED 2,600

This fee doesn't include lab fees of courses of proposed sequence of study (study plan) offered by other college.

Students registered in the program of Interior Design will pay a studio fee of AED 1,500 per semester.

Students registered in the program of Bachelor of Arts in Mass Communication will pay a studio fee of AED 1,025 per semester for each registered course having Radio /TV session.

Orientation Session Fee

New students pay a fee of AED 1,150. At the beginning of the first semester, USTF organizes an orientation session for new students which enables them to meet the Vice Chancellors, Deans of the Colleges, Admission and Registration personnel and Students Affairs staff. This orientation also provides them with essential information about course registration, academic advising, important deadlines and other related matters.

10.3 Additional Fees

- Additional lab fee for each registered course having lab sessions offered by colleges other than College of Dentistry and College of Pharmacy and Health Sciences: AED 650
- Additional fee for courses having a tutorial session: AED 550
- Additional fee for graduation project courses at the College of Information Technology AED 600
- Additional fee for graduation project courses at the College of Engineering: AED 60
- Additional fee for internship courses: AED 800
- Student service fee per semester: AED 300
- Application fee for an incomplete course: AED 500
- Reference letter: AED 30
- Extra copy of the academic transcript: AED 100
- Grade grievance application: AED 100
- ID card, per academic year: AED 25
- Additional fee of AED 500 per each registered course taken as independent studies.

10.4 Payment Terms

A student should pay AED 4,000 in advance as a deposit in order to register in fall/spring semesters (AED 2,000 in summer session). Upon registration, the student should pay the tuition fees in full within two weeks from the end of the add/drop period. The Office of Finance has the right to take the necessary action against any student who has not settled their due balance of tuition fees, including suspension of registration and ineligibility to attend exam sessions.

The student has an option to settle tuition fees in (3) three monthly installments by providing postdated cheques. To get this privilege, the student should obtain the Office of Finance's approval after filling out the required form. This option is valid for Spring and Fall semesters only.

Tuition for summer semester should be paid in one installment within (2) two weeks from the end of the add/drop period.

Graduate students registering for Master Thesis will pay 50% of the applicable fee upon registration and 50% in the following semester.

10.5 Refund Policy

Add/Drop Period

During the add/drop period students may add or drop courses without incurring charges. If a student adds one or more course(s) during the add/drop period, he/she must pay additional fees for the added course(s) at the time of submitting the application, otherwise the application will be rejected.

If a student withdraws from one or more courses during the add/drop period, the fees of the dropped course(s) will be refunded only after the end of the add/drop period. Alternatively, the student may request that the amount be credited to his/her balance for the following semester.

A student may withdraw from one or more course(s) after the end of the add/drop period, provided he/she remains registered in at least three courses during that semester. In this case, the student does not have the right to claim any refund for the fees of the withdrawn courses.

Suspension of Registration

During the add/drop period a student may submit an application for suspension of registration for one or a maximum of two consecutive semesters. The application should be submitted to the Office of Admission and Registration. In this case, the full amount of any fees paid shall be credited in full to the student's account for the following semester, or refunded one week after the submission of the refund application to the Student Account Officer (at the Office of Finance).

If the student submits an application for suspension of registration for one or two semesters during the two weeks following the end of add/drop period, he/she shall be entitled to only 50 percent of the tuition fees of the semester in which he/she submits the application for suspension.

If the student submits an application for suspension of registration after the end of the two weeks following the add/drop period, he/she will not be entitled to claim a refund of any part of the tuition fees of the semester in which he/she submits the application for suspension.

If a student wishes to reclaim any amount from a credit balance, he/she must fill in an Application for Refund Form and submit it to the Student Account Officer (at the Office of Finance) after the end of the add/drop period. A cheque payment will be prepared within one week from receiving the application. If the student fails to do this, the amount will be credited to the student balance for the following semester.

Withdrawal from the University

During the add/drop period, the student may submit an application for suspension of registration and withdrawal from the University. The application should be submitted to the Office of Admission and Registration. In this case, the student is entitled to a full refund of tuition fees paid for the semester in which he/she submits the application for withdrawal. The refund will be made one week after the submission of the application for refund to the Student Account Officer (at the Office of Finance).

If the student makes an application for suspension of registration and withdrawal from the University within the two weeks following the end of the add/drop period, he/she is entitled to a refund of only 50 percent of the tuition fees for the semester in which he/she

submits the application. The student shall not be entitled to claim a refund of any part of the tuition fees if the application for suspension of registration and withdrawal from the University is made more than two weeks after the end of the add/drop period.

Disciplinary Dismissal

A student who is dismissed from the University for disciplinary reasons is not entitled to any refund of tuition fees of the semester of dismissal.

10.6 Tuition Fee Waiver and Scholarships

New students

New students are entitled to a waiver of 20 percent of the tuition fee for the courses in which they register in the first semester of their study, after fulfillment of the English proficiency requirements, if:

- The student obtains a minimum grade of 95 percent in secondary school final examinations (for the College of Dentistry and College of Pharmacy and Health Sciences programs)
- The student obtains a minimum grade of 90 percent in secondary school final examinations (for all other colleges)

Continuing Students

Continuing students are entitled to a reduction of 20 percent of their tuition in a regular semester if they have obtained a GPA of 3.8 or higher out of 4.0, and completed successfully at least 15 credit hours during the previous semester.

Continuing students are entitled to a reduction of 10 percent of their tuition in a regular semester if they have obtained a GPA of (3.6 to 3.79) out of 4.0, and completed successfully at least 15 credit hours during the previous semester.

The university reserves the right to amend the secondary school grade or semester GPA required by students to be entitled to tuition fee reduction.

Sibling Fee Waiver

All sibling students and first degree relatives (parents and full siblings) registered in any undergraduate program are eligible for a fee waiver from 5% to 20% according to their order of registration in the same semester (excluding the summer session), after submitting a request with copies of their passports to the Office of Scholarship and Financial Aid. This fee reduction is not subject to the AGPA condition. It is applicable as follows:

Sibling	Waiver Rate
First	5%
Second	10%
Third	15%
Fourth and above	20%

Performance Fee Waiver

Exemptions from tuition fees shall be granted to the top three academically outstanding students in each college during each regular semester, in accordance with the following regulations:

- A student holding first place at College level: 100 percent fee exemption.
- A student holding second place at College level: 75 percent fee exemption.
- A student holding third place at College level: 50 percent fee exemption.

The following requirements should be met to be eligible for the discount:

- To have completed 60 credit hours at University of Science and Technology of Fujairah.
- If two eligible students have the same CGPA, preference is given to the student who has completed more credit hours.
- In the event of two eligible students having the same CGPA and completed the same number of credit hours, preference is given to the student with the highest CGPA in the last semester.
- The number of credit hours completed should commensurate with the number of academic years spent by the candidates at USTF.
- The list of colleges' top achievers is approved by the Office of Admissions and Registration and the Vice Chancellor for Academic Affairs.

Top Secondary School Students Waiver

The top three students from secondary schools within the Emirate of Fujairah are entitled to a fee waiver in the first semester of their study only, as follows:

- 50% for the first top student
- 40% for the second top student
- 30% for the third top student

Scholarships

According to the agreement between USTF and Fujairah Council of Education Cares and Academic Affairs, USTF offers scholarships for 60 students with 50% of tuition fees.

General Notes

- Tuition waiver is applied to undergraduate programs only. In addition, it is applied to tuition fees during fall and spring semesters only. Summer semester is excluded.
- If a student meets more than one of the above, i.e. conditions of fee waiver or scholarship, she/he will not be entitled to benefit from more than one fee waiver at the same time. In this case, the student will be granted the higher fee waiver.
- All fee reductions will be granted on the condition that the student satisfies the English proficiency requirement before the end of the Add and Drop period in the first semester of their enrollment.
- All above-mentioned tuition fee reductions are subject to general eligibility conditions as specified in the University Policies and Regulations. For more details, please contact the Office of Scholarship and Financial Aid.

11 | Unit of General Studies

The Unit of General Studies was established in order to cater for the General Education Program, which is an absolutely vital component of tertiary education. Having such a unit will render both the required and elective courses relevant, enriching, and appropriate. In addition, they will feature both originality and modernity. USTF has tailored the General Education Program based on its vision and educational philosophy. It aims at providing students with a variety of competencies associated with a wide range of University requirements intended to lay the ground for their future progress and development, academically as well as professionally. The main purpose of the General Education Program (GEP) is to enable all students to attain the fundamental broad base of knowledge, skills and competencies that all university educated adults must have whatever their specific area of their specialization.

General education courses are designed to establish strong, intellectual foundation for all specializations. They develop skill acquisition in oral and written communication, information technology, innovation, quantitative analysis, critical thinking as well as certain aspects in the humanities/arts, and the natural sciences. The General Education Program also seeks to develop in the students' specific competencies pertinent to enjoying autonomy and responsibility for their learning, interaction with others, pursuing self - development and deploying what they have acquired in real-life situations.

General Education Program Learning Outcomes

On successful completion of the general education program the graduate will be able to:

1. **Knowledge**:
   - Understand key concepts and issues in languages, religion, history, society, environmental issues, and natural resources.
   - Demonstrate knowledge of basic principles in statistics, information technology, critical thinking and innovation, together with their applications.
2. **Skill**:
   - Communicate effectively orally and in writing and deploy a range of presentation techniques.
   - Select and deploy a range of relevant information search, retrieval techniques, and appropriate tools.
3. **Competence**
   - Interpret and present quantitative data effectively.
   - Demonstrate the ability to comprehend multiple perspectives and formulate effective actions.
   - Take responsibility for his own future learning needs.

Offered General Education Courses

Every USTF student is required to complete 30 credit hours in General Education covering the following areas: Mathematics, Science, Information Technology, Languages, and Social Sciences and Humanities. After a review of all offered programs at USTF, the Council for Academic Affairs (CfAA) identified 24 out of the 30 credit hours of General Education that could be taken by all USTF students independently of their specialization.

In fact, the Unit of General Studies is responsible for offering 15 credit hours, (see below), that are compulsory to all students and 9 credit hours of university electives to be chosen from a large number of courses covering the different areas of General Education.

List of required Courses (15 credit hours)

Course Code	Course Name	Credit hours
1021100	Islamic Culture (for Arabs)	3
1021101	Islamic Culture (for Non-Arabs)	3
1021400	Communication Skills in Arabic Language (For Arabs)	3
1021401	Communication Skills in Arabic Language (For Non-Arabs)	3
1041100	Computer Applications (English)	3
1041101	Computer Application (Arabic)	3
1031100	Statistics (Arabic)	3
1031101	Statistics (Science)	3
1031102	Statistics (Arts)	3
1141301	Innovation and Entrepreneurship (Arabic)	3
1141300	Innovation and Entrepreneurship (English)	3

University electives general education courses are categorized into three groups. Students are required to choose an elective from the social or behavioral sciences group, another elective from the humanities or arts group and the third from the natural, applied sciences, information technology, or mathematics group:

- Humanities /arts;
- Natural, applied sciences, information technology, or mathematics;
- Social or behavioral sciences.

Colleges can remove some electives to avoid overlapping with major courses.

List of elective courses (9 credit hours)

Field	Course Code	Course Name	Credit hours
Social or Behavior Science (3 Cr. Hrs.)	115130	General Psychology	3
	115160	Emirates Society	3
	114110	Economic Concepts	3
	119120	Introduction to communication Sociology	3
	119130	Information Society	3
	114120	Entrepreneurship Development	3
	119110	English Communication Skills	3
	107110	Critical Thinking	3
	104130	Information Literacy	3

	119140	Media Culture	3
	107150	Family System	3
Humanities or Arts (3 Cr. Hrs.)	115150	The Art of Written Expression	3
	112110	Principles of Architecture and Art	3
	118110	Principles of Ethics	3
	109110	Introduction to Aesthetics	3
	112140	Introduction to Art	3
	107130	Introduction to Digital Photography	3
	109120	French Language	3
	1201150	Legal Culture	3
Natural Sciences Applied Sciences, Mathematics (3 Cr. Hrs.)	1031200	Environmental Sciences (English)	3
	1031201	Environmental Sciences (Arabic)	3
	115110	History of Science in Islam	3
	115120	Scientific Pioneering	3
	112130	Modern Technology and Society	3
	115170	Educational Technology	3
	1161200	Astronomy	3
	118120	General Biology	3
	118130	Oral Health	3
	117110	General Chemistry	3
	117120	Fundamentals of Human Nutrition	3
	117130	First Aid	3
	103130	Research Methodology	3
	117150	Applications of Remote sensing and GIS	3
	107120	Technical Writing	3
	113110	Internet Concepts	3
	113120	Introduction to Information System	3
	108120	Physics	3

Laboratories

The Unit of General Studies has well-equipped laboratories to provide practical hands-on experience to students of all specializations. These laboratories are as follows:

- Statistics laboratories.
- English Language laboratories.

The faculty of the college is also using the E-Learning system and MOODLE to enhance the learning process by giving students the opportunity, of accessing the teaching materials while they are away from the University through the use of the Internet.

Intensive English Program (IEP)

The Intensive English Program, IEP has two strands: TOEFL and IELTS. The student is free to choose either. Each of which has two levels: Advanced and Intermediate. Students whose score is between 480 and 499 on TOEFL or Band 4.5 on IELTS are eligible to register in the Advanced Level. Students whose score is between 450 and 479 on TOEFL, or Band 4 on IELTS

are eligible to register in the Intermediate Level. The table below summarizes this information.

The student who starts in the Intermediate Level can register in the Advanced Level when he gets the required score as shown in the table

Level	TOEFL		IELTS
	Paper-Based	Internet-Based	
Advanced (AD)	480-499	54-60	Band 4.5
Intermediate (INT)	450-479	45-53	Band 4

IEP Organizations

Level	Organization	Other Courses
Advanced	Contact teaching hours: 6 + 3 for Independent Learning in the English Lab.	Up to 3 additional courses from the Unit of General Studies
Intermediate	Contact teaching hours: 12 + 3 Independent learning in the English Lab	2 additional courses from the Unit of General Studies

IEP Structure

The Advanced Level Program is a program that consists of 9 contact hours per week during 15 weeks. It is suitable to students whose English Proficiency is close to the minimum required Level to be admitted in an USTF Program taught in English. It covers the following components:

1. **Listening:** The central object of the listening components is to enhance and develop student competence to enable him/her to understand the English language in both academic and social settings. At the beginning of the listening component, emphasis is given to skills such as understanding conversation, identifying main and detailed ideas, and interacting with other students and lecturers in social settings. Later, more emphasis will be placed on comprehending conversations and talks, taking lecture notes and being aware of the structure of a lecture.
2. **Speaking:** The objective of the speaking component is to enable students to communicate in English appropriately, fluently and successfully in both academic and social settings where they are required to ask and answer questions, agree and disagree, express their opinions clearly with supporting evidence, give presentations and take part in short debates and discussions.
3. **Reading:** The main objective of the reading component is to enable students to become good readers, by developing in them reading skills such as text comprehension, appropriate speed, reading with a purpose, skimming, scanning, etc. In order to achieve these aims, students will be exposed to a diverse range of text forms and genres.
4. **Writing:** Since writing is viewed as a process, it is imperative that students acquire and develop the different steps of the writing process: generating ideas; organizing ideas;

editing; revising, etc. Emphasis is also given to grammatical accuracy, lexical appropriateness, fluency and coherence.

5. **Vocabulary:** Rather than being developed in isolation, vocabulary is integrated into all skills. The main aim of the vocabulary component is to expand and enrich the student vocabulary repertoire and enable them to acquire academic vocabulary pertinent to their university studies.
6. **Grammar:** Like vocabulary, grammar is not developed in isolation, and is also integrated into the four skills of listening, speaking, reading and writing. The ultimate aim of this component is to enable students to acquire both the rules of usage (accuracy) and at the same time to acquire the rules of use (appropriateness) in both spoken and written discourse.
7. **Test-taking strategies:** In addition to the components listed above, test-taking strategies are an essential element and are incorporated into the program.

Courses of the TOEFL programs

Course Code	Seq.	Course Name	Weekly Hours
105000	2	TOEFL AD/ Independent Learning	3
105101	2	TOEFL AD/ Listening, Speaking and Reading	3
105102	2	TOEFL AD/ Grammar and Test Practice	3
105200	2	TOEFL INT/ Independent Learning	3
105201	2	TOEFL INT/ Listening and Speaking	3
105202	2	TOEFL INT/ Reading	3
105203	2	TOEFL INT/ Grammar	3
105204	2	TOEFL INT/ Test Practice	3

Courses of the IELTS programs

Course	Seq.	Course Name	Weekly Hours
105000	3	IELTS AD/ Independent Learning	3
105101	3	IELTS AD/ Listening and Speaking	3
105102	3	IELTS AD/ Reading and Writing	3
105200	3	IELTS INT/ Independent Learning	3
105201	3	IELTS INT/ Listening	3
105202	3	IELTS INT/ Speaking	3
105203	3	IELTS INT/ Reading	3
105204	3	IELTS INT/ Writing	3

Students exit the IEP successfully if they achieve one of the following:

TOEFL			IELTS
Paper-Based	**Computer-Based**	**Internet-Based**	**Band**
500	173	61	5

Unit of General Studies Courses Description

Islamic Culture 102110 (For Arabs) :(3 Cr. Hrs.)

This course aims at providing students with knowledge about culture, Islamic faith and beliefs, sources of legislation and characteristics of Islam. It will also deal with some contemporary issues from an Islamic perspective such as human rights, women status, globalization and environment.

Islamic Culture (For Non-Arabs): 1021101 (3 Cr. Hrs.)

This course aims to develop the student's understanding of the Islamic Culture and Thought. It familiarizes students with the Islamic vocabulary, concepts and values as well with a clear and detailed background on the religion of Islam. This course discusses the concept of culture, introduction to Islam, Islamic faith and beliefs, sources of legislation and characteristics of Islam, and also deals with some contemporary topics such as: the concept of human rights in Islam, woman status, globalization and environment.

Statistics (Science): 1031101(3 Cr. Hrs.)

This course is designed for students who need to gain skills in statistics knowledge. It covers the essential statistical topics that students are expected to know. It is a general education course where essential material in statistics is covered. The first part of the course deals with descriptive statistics, (Topics include introduction to statistics, methods of sampling, tables, graphs, measures of central tendency, measures of variation). The second part covers probability and probability distributions. The third part covers the relationship between groups of data. The fourth part includes some inferential statistical methods: such as estimation and confidence intervals and hypothesis testing of parameters of one population.

Statistics (Business): 1031102 (3 Cr. Hrs.)

This course is designed for students who need to gain skills in statistics knowledge. It covers the essential statistical topics that students in business subjects are expected to know. It is a general education course where essential material in statistics is covered. The first part of the course deals with descriptive statistics, (Topics include introduction to statistics, methods of sampling, tables, graphs, measures of central tendency, measures of variation). The second part covers probability and probability distributions. The third part covers the relationship between groups of data and its applications in time series and forecasting.

Environmental Sciences: 1031200 (3 Cr. Hrs.)

This course introduces students to the basic elements of environment; atmosphere, hydrosphere and lithosphere, their interaction and impact of human activities. Topics such as Air quality, water resources, fossil and renewable energy, environmental pollution and environmental protection are highlighted. Special emphases are given to the United Arab Emirates and Arabian Gulf Region.

Innovation and Entrepreneurship: 1141300 (3 Cr. Hrs.)

This course is developed for the UAE based on decades of practices and experiences of teaching innovation and entrepreneurship at Stanford University that has fueled innovation and high growth in Silicon Valley. The goal of the course is to equip the next generation of leaders in the UAE with an innovative and entrepreneurial mindset and its related core skills. The course is composed of three modules designed to be taught at USTF over a 15-week semester.

Communication Skills in Arabic Language (For Arabs) 102140 (3 Cr. Hrs.)

The course discusses fundamentals of communication in Arabic with regard to its significance, components and goals. The course aims at developing the skills of listening; speaking, reading and writing which students need for their professional and social life. Throughout the course, participants discuss and analyze a variety of literary and scientific texts.

Communication Skills in Arabic Language (For Non-Arabs) (3 Cr. Hrs.)102141

This course aims at providing non-Arab students with communication skills in the Arabic language. It focuses on the following skills: reading, writing, speaking and listening. It also aims at encouraging students to communicate in Arabic in their environment, university and society

Statistics for Science 103110 (3 Cr. Hrs.)

This course is designed for students who need to gain skills in the basic statistics knowledge. It covers the essential statistical topics that students in the science section are expected to know. It is a basic course where essential material in statistics is covered. The first part of the course deals with data tabulation and calculation of descriptive measures. The second part covers basic concepts of probability, probability laws of addition and multiplication and bays' law. The third part covers some discrete distributions namely (Binomial and Poisson) and continuous distribution, where the emphasis is on Standard Normal Distribution. The fourth part covers the linear regression analysis and correlation.

Statistics for Arts 103110 (3 Cr. Hrs.)

This course is designed for students who need to gain skills in basis statistics knowledge, so it covers the essential statistical material and topics that students are expected to know. The first part of the course deals with data tabulation and calculation of descriptive measures. The second part covers basic concepts of probability such as population, sample, sample space and probability laws of addition and multiplication. The third part covers the discrete and continuous distribution, where the emphasis on Standard Normal Distribution. The fourth part covers the linear regression analysis and correlation.

Environmental Sciences 103120 (3 Cr. Hrs.)

This course is designed for students who need to gain knowledge in environmental sciences in general. Special emphasis is given to water and energy resources because of their importance in the Arab Region and the world. The course includes three basic

modules: environment, water and energy. The environment module covers population dynamics, natural resources, pollution, remote sensing and GIS applications, environmental protection and sustainable development. The water module discusses the hydrologic cycle, basics of hydrogeology and water quality as well as water-related problems in the Gulf Region. The third module covers the conventional and non-conventional energy resources, energy production and use, also energy management and sustainability.

Research Methodology 103130 (3 Cr. Hrs.)

The course provides students with some basic tools of research methods in different fields. It covers the research process including: formulating research questions, sampling and surveying, measurement (scaling), data organization, data analysis, methods of extracting knowledge from the readable materials, searching for relevant references, and writing research reports.

Computer Applications: 1041100 (3 Cr. Hrs.)

With the explosion of computer technology, knowledge of computing applications as tools for all disciplines has become a necessary asset. This course is an introduction to the most common software applications and includes hands-on use of microcomputers and some of the major commercial software. These software packages include typical feature such as word processing, spreadsheets, presentations, and other features found in current software packages. On course completion, students will exhibit proficiency with software applications and demonstrate knowledge of computer concepts and components.

Computer Applications 104110 (3 Cr. Hrs.)

This course is an introduction to the most common software applications such as word processing, spreadsheets, presentations, and other features found in current software packages. Students will also acquire knowledge related to basic computer concepts and components.

Information Literacy 104130 (3 Cr. Hrs.)

This course will introduce students to the organization, retrieval and evaluation of electronic and print information. Students will be provided with an overview of college library systems, networked information systems, traditional scholarly resources, evolving delivery systems, and the concepts underlying the research process. Students will gain an understanding of the importance of the Internet as a research tool and the changing nature of information resources. Students will utilize electronic databases, the World Wide Web, and print resources. Students will be able to apply principles learned in this course to research assigned in other courses. Students will practice thinking critically when formulating research queries and evaluating information resources.

Critical Thinking 107110 (3 Cr. Hrs.)

Critical Thinking studies a process which is indispensable to all educated persons--the process by which we develop and support our beliefs and evaluate the strength of

arguments made by others in real-life situations. It includes practice in inductive and deductive reasoning, argument structure and identification, validity and strength of arguments, presentation of arguments in oral and written form, and analysis of the use of language to influence thought. The course also applies the reasoning process to other fields such as business, science, law, social science, ethics, and the arts.

Technical Writing 107120 (3 Cr. Hrs.)

This course is intended to develop Students' proficiency and communicative competence in technical/professional writing and oral presentation skills. Also, the course is practically oriented in order to apply what students have acquired rather than focus on theory, which may rapidly fade away without application. It is worth pointing out that the various activities and interactions are designed in a way to be major-specific so that students perceive the relevance of what they have acquired. Hence, both their intrinsic and extrinsic motivation is enhanced

Introduction to Digital Photography 107130 (3 Cr. Hrs.)

Introduction to the history of fine art photography; Correct Color; scan and prepare images for printing; adjust contrast, tonality. Review of all relevant tools found in Adobe Photoshop software. Understand managing image files... saving, opening, uploading, posting, etc., Electronic images… their scaling and use: imaging for the Internet. Gain proficiency with image editing for maximum image impact. File size and print size... how to use layers, adjustment layers and resize images.

The Principles of Architecture and Art 112110 (3 Cr. Hrs.)

The course introduces the student to the world of architecture and art through a series of lectures which highlight this subject by exploring visual presentations, videos, and slideshows. In addition, the course gives the student the chance to practice what he has visualized by creating drawings, pictures, and other media outcomes as required.

Principles of Interior Design 112120 (3 Cr. Hrs.)

The aim of this course is to introduce students to elements and principles of interior design and expose them to contemporary designs. Students will be able to understand the principles of interior design and appreciate its impact on their surroundings.

Introduction to Aesthetics 109110 (3 Cr. Hrs.)

The aim of the course is to allow students to research and study the philosophy of aesthetics, discussing the problem of aesthetics concerns, the theory of beauty and the theory of arts. This course will enable students to develop knowledge for human life and culture, which would help them to utilize these aspects of aesthetics value in their professional practices and communication behavior.

Introduction to Art 112140 (3 Cr. Hrs.)

This course provides an introduction to art from prehistoric times to the present. It provides an introduction to the understanding and enjoyment of art. While examining the

role that the visual arts have played in the development of the human cultures, the student is exposed to a wide variety of artistic media through the study of painting, architecture, design, photography and the decorative arts.

Modern Technology and Society 112130 (3 Cr. Hrs.)

The course starts with defining key terms such as: science, engineering and technology then it deals with the history of technological developments that changed society, philosophical theories of interaction, ethical and legal issues pertinent to the use of modern technology and entrepreneurship in modern technology. In addition, the course describes the roles modern technology play in shaping the lifestyle of individuals and society, and tin politics, the economy and health. Other issues such as: the impact of modern technology on the environment, how individuals interact with technology and immerging and future technology with its possible effects are also discussed.

Internet Concepts 113110 (3 Cr. Hrs.)

This course is designed as an introduction to the Internet and World Wide Web. It starts by introducing the history of the Internet and includes the use of Internet applications and the basics of web page and web site production, and continues with matters such as Internet security, cookies, viruses, etc.

Introduction to Information Systems 113120 (3 Cr. Hrs.)

The purpose of this course is to introduce the topic of information systems (IS) and how organizations use it to support a variety of tasks ranging from basic day to day activities to creating competitive edge in the market place. It will focus on topics such as business process reengineering, collaborative computing, electronic commerce, the impacts of IS upon organizations and society, ethical use of information systems, types of information systems, and how to analyze and design information systems.

Economic Concepts 114110 (3 Cr. Hrs.)

This course is an integrated introduction to the analysis of individual firms and markets, as well as aggregate economic variables. These include inflation, unemployment and economic growth, with a focus on the state's role in attempts to regulate the economy. Thus, efforts will be focused on learning how societies use scarce resources to produce and distribute commodities among its various people.

Entrepreneurship Development 114120 (3 Cr. Hrs.)

Based on the economic and social dimensions, the entrepreneurship development concept has become an imminent part of life. This course aims to highlight the economics of entrepreneurship, its role in venture creation and facilitation of capital resource. The course also aims at describing the management strategies for starting up businesses which necessarily includes the business plan. The course focuses on all the basic tenets of entrepreneurship development.

History of science in Islam 115110 (3 Cr. Hrs.)

The course consists of four units. In the first unit, we elaborate on introductory aspects related to history of science in general and the science in the context of Islamic Culture in particular. This unit includes: nature of human knowledge, the term science and scientific method, significance of the recent concern of studying history of science, scientific achievements of ancient nations and the cultural context of the scientific accomplishments of the intellectuals of the Islamic Culture. The second unit is devoted to the achievements of the scientists of this culture in medical sciences and prominent figures in these fields. The third unit, concentrates on the field of natural sciences, mathematics and prominent figures in these fields in the context of the Islamic Culture. Last, we discuss, in the fourth unit, agricultural endeavors in the Islamic culture in addition to the impact of this culture on the scientific progress in Europe.

Scientific Pioneering 115120 (3 Cr. Hrs.)

The course consists of four distinct units. The first unit deals with human knowledge, introduction to epistemology, science and the scientific method and the nature of scientific explanation of observed phenomena. In the second unit, we study the societal influence on science, first by illustrating the theoretical basis of this influence, then by illustrating this influence via real societal examples extracted from ancient and recent history. The third unit is devoted to studying the salient features of modern science and technology, including particularly: science and natural resources and intellectual property and patents. In the last unit we discuss the scientific impact on human behavior and thought.

General Psychology 115130 (3 Cr. Hrs.)

The course aims to provide students with basic concepts, methods, techniques and theories of psychology as applied to the field and practice of several academic discipline specialties. The course also introduces areas of psychology dealing with biology, learning, motivation, human development, personality, society, maladjustment and other topics.

Principles of Mathematics 115140 (3 Cr. Hrs.)

This course deals with algebraic equations of degree 1 and 2, the elementary ideas of plane geometry; Cartesian coordinates system, equations of line, circles, linear inequalities and systems of inequalities are introduced. Also, basic notions of real functions such as limits, continuity, and differentiability are studied along with simple applications. In addition, basic knowledge about matrices and their algebra is provided.

The Art of Written Expression 115150 (3 Cr. Hrs.)

The course analyzes writing practices within and across disciplines, recognizing the role writing plays in consolidating knowledge in a retrievable form which is easily accessible within each academic specialization. This course highlights the processes, practices and application of written expression in various academic fields. Students have the opportunity to develop a critical understanding of important discourses within their particular area of study.

Emirates Society 115160 (3 Cr. Hrs.)

This course covers topics related to the nature of UAE society before and after the discovery of oil, and its effect on the political, geographical, cultural, social and educational aspects of national life.

Educational Technology 115170 (3 Cr. Hrs.)

This introductory course surveys the field of educational technology through the historical development of Educational Technology, an overview of modern classroom applications, and an examination of trends and issues surrounding the use of technology for teaching and learning.

Chemistry of Life 117110 (3 Cr. Hrs.)

The course aims to provide students with the basic knowledge of chemical principles needed for the daily life. It deals with the development of life on Earth from its origins (Chemistry of life, Cells) and the characteristics of living things.

Fundamentals of Human Nutrition 117120 (3 Cr. Hrs.)

This course discusses the fundamental principles of human nutrition and their application to food selection. Emphasis is placed upon the Essential Nutrients and their vital importance as well as the recommended dietary allowances and other dietary guidelines, which promote health maintenance and disease prevention. Moreover, it answers the questions of what Nutrition is, why it is important for our life, and how to easily adjust the life style based on what is learned will be highlighted.

First Aid 117130 (3 Cr. Hrs.)

This course aims to teach the skills and knowledge critical to saving life and minimizing the severity of injury or sudden illness. Safety awareness and accident prevention are emphasized.

Remote Sensing and GIS Applications 117150 (3 Cr. Hrs.)

This course introduces students to the basic elements of spatial sciences, including Global Positioning System (GPS), Remote Sensing (RS) and Geographic Information System (GIS). Students are taught how to locate themselves and determine their direction with a GPS. Students will study data collection, acquisition and processing in a much wider way than the visible spectrum, including IR, UV and microwave zone of the electromagnetic spectrum in the RS. Finally, students will learn how to capture, store, retrieve, display and interpret data through GIS; identify the art of image interpretation and enhancement.

Academic and Technological Ethics 118110 (3 Cr. Hrs.)

The course is concerned about ethical issues related to the misuse of scientific and technological advances, miscommunication of scientific research results, the ethical aspects related to the actual practice of scientists in their scientific endeavors and the lack of ethics in all facets of academic character at all levels of educational standing. The course starts with clarifying the relevance of discussing ethical issues in the present age. Then, it

discusses examples of misbehaving by students and instructors in educational institutes at all levels, further we discuss examples of the random growth of modern technology without paying attention to ethical standards and finally we shed some light on the miscommunication and fraud in research results among scientists. Stress is made on case studies related to aspects mentioned above.

General Biology 118120 (3 Cr. Hrs.)

This course provides students with general knowledge in biology. The students are provided with a basic knowledge of chemistry of living materials, the cell structure, types and functions. The students are also provided with good knowledge concerning cell division, general embryology and genetics. A basic knowledge about the morphological features of the tissues and recognize their roles in forming organs and organisms integrates the above information. The students are also provided with brief knowledge concerning human health and common diseases.

Astronomy 1161200 (3 Cr. Hrs.)

The course includes clarifying significance of astronomy, which aims at understanding mysteries of the universe. The course starts with historical context of astronomy and continues to explore later developments. The course includes the determination of coordinates of the astronomical planetarium, and identifying the asteroids astrocytes; try to direct the ocean understand (the ground) and beyond (the Solar System and others), and the study of the moon and its relationship to the land and how calendars calculate and determine the phenomena related to its movement (tides, eclipses).

As well as the course involves realizing how to determine prayer timings and geographical trends in the nature and astronomical devices, which are used for such purposes, and also includes a study of the life of giant stars, nebulae, black holes and white dwarfs.

Oral Health 118130 (3 Cr. Hrs.)

This course defines the responsibilities of the individual within community dental health education with emphasis on the etiology of dental disease, methods for prevention, and principles of nutrition in relation to oral health and preventive dentistry.

English Communication Skills 119110 (3 Cr. Hrs.)

This course aims to satisfy students' immediate needs in the communication field in both their academic environment and their future needs as professionals. It covers, among other things: the concept of human communication and its problems; communication and culture; telephoning; interview skills; conducting and participating in meetings; note-taking; presentation skills; knowing your audience; developing a positive public image; writing for the web. The course is practically oriented to ensure interactivity by the students playing a very active and constructive role.

Introduction to communication sociology 119120 (3 Cr. Hrs.)

This course focuses on the inevitable social role of communication in society. The course clarifies some of the effects, functions and dysfunctions of mass communication in society. The course concentrates on the role of communication in different social fields and analyzes its role in public service sectors and non- governmental organizations (NGOs). The course is also intended to make students aware of sensitive topics to avoid using words that might offend or upset people.

Information Society 119130 (3 Cr. Hrs.)

The course focuses on the information revolution in all fields around the world. It concentrates on the characteristics of the information society, its consequences, challenges and future implications on Arab society under the information revolution and the international information market map.

Media Culture 119140 (3 Cr. Hrs.)

This course aims to enable students to acquire the competencies of using the mass media in a smart way. This can be realized by introducing the students to the mass media available in contemporary societies, the criteria and ethics of information industry and the different influences of information on the society namely the social; cognitive, affective and behavioral influences.

Legal Culture 120115 (3 Cr. Hrs.)

The course addresses itself to general legal concepts at a macro level of generality such as the rule of practice and its characteristics, sources of obligation with reference to the rules of malpractices. It also deals with: the trader, commercial business and documents; labor law, rights and duties of workers, termination of contracts and penal law illustrated by common crimes such as robbery, fraud? etc. In addition, matters related to administrative decisions are covered such as the employee rights and duties, the marriage contract and the wife's rights and duties.

TOEFL INTERMEDIATE 105201 (15 Hours)

The course gives students intensive practice in language skills: listening, reading and writing. It also focuses on vocabulary and grammar together with test-taking strategies in order to develop proficiency in the English language and perform efficiently in the TOEFL exam. Learning takes place in a user-friendly and anxiety-free environment.

IELTS INTERMEDIATE 105201 (15 Hours)

IELTS requires proficiency in the four language skills: listening, speaking, reading and writing. Students are exposed to intensive practice so as to develop their communicative competence. They learn in a user-friendly and anxiety-free environment, making use of the different resources such as the English lab, MOODLE and the Internet.

Faculty Members Teaching General Studies Courses

University of Science and Technology of Fujairah					
Name	**Rank College**	**Specialization**	**Degree**	**Date**	**University**
Prof. Zeinelabidin Rizk	Professor Humanities & Sciences	Geology	PhD	1990	SDSM and T / USA
Dr. Abdul Majid AlAbbasi	Associate Professor Humanities & Sciences	Statistics	PhD	1987	Essex University / UK
Dr. Ahmed Alradaideh	Lecturer Humanities & Sciences	Applied statistics	PhD	2011	Univ. of Salento / ITALY
Ms. Minat Allah Essam	Lecturer Engineering & IT	Computer Science	Master	2010	University of Wollongong
Mr. Mohamed El Zamil	Lecturer Humanities & Sciences	English	Master	2004	American University/ Cairo
Mr.Rami Ali Abo Ayshaeh	Lecturer Humanities & Sciences	Arabic language and literature	Master	2009	The Hashemite University
Mr. Hassan Hazem	Lecturer Humanities & Sciences	Islamic Studies	Master	2005	AL-Azhar University /Egypt

12 | College of Business Administration

College of Business Administration (CBA) is one of the most credible business colleges in the region that is committed to the development and enhancement of knowledge and business skills of its students to enable them to understand the modern business world, to achieve the highest levels of success in their professional careers, and to play effective leadership roles regionally as well as globally.

CBA is committed to providing high-quality business education. The remarkable growth in economic and business activity in the world in general and Arabian Gulf region in particular, over the past decade, has greatly stimulated the demand for skilled and competent business graduates. Our competitive degree programs are, therefore, developed to offer both local and global perspectives as well encourage our students to think out of the box and innovatively so as to not only be equipped with the knowledge, skills and attitudes they need to effectively address the challenges and opportunities of today's internationalized and fast evolving business environment but also emerge as business leaders of tomorrow.

We strive to provide the best and most modern methods of instructions to our students. Our diligent and highly qualified faculty members ensure that our curriculum is consistently updated in order to reflect and keep up with the ever evolving trends and techniques of the contemporary business world. Please browse our webpages to see the range of degree programs and courses that are offered at CBA.

Mission

The college adheres to the fulfillment of USTF's overall mission, which seeks to meet the educational needs of local, regional and international students. As such the college philosophy is grounded in finding practical and scientific solutions to contemporary organizational and business problems through the BSc degree programs offered in two areas of specialization: Management and Accounting and the Master of Business Administration degree program in Human Resource Management. Stemming from this underlying philosophy, the college's strategic focus is to enhance the intellectual, professional and behavioral development of its students to meet the managerial challenges of the 21st century.

Academic Programs

The college offers two bachelor programs and an MBA in Human Resources Management, providing students with theoretical background and practical skill that form an excellent foundation for satisfying career requirements or for subsequent graduate degree. The undergraduate programs (Management and Accounting) have been re-accredited by the Commission for Academic Accreditation (CAA) of UAE Ministry of Education (MoE). The MBA program in Human Resources Management also received the CAA's Initial Accreditation and to be offered starting September 2018.

CBA Undergraduate Program are:

- Bachelor of Science in Management
- Bachelor of Science in Accounting

CBA Graduate Programs

- MBA in Human Resources Management

CBA Minors within the College of Business

- Minor in Accounting
- Minor in Management

CBA Minors for other colleges

- Minor in Management to the College of Engineering

Facilities

The college's current physical facilities, which include offices, labs and teaching rooms, sports grounds, health club are fully equipped to adequately meet its needs and are regularly upgraded. The library is regularly updated with the latest books in multiple fields and disciplines for the benefit of students and college members. IT facilities include:

- Wireless internet connection, available in the university campus
- Internet labs
- In all labs Multimedia facilities are provided and business programs are installed.
- College computers connected through local and wide area networks

Department of Management

The Department of Management offers a comprehensive and dynamic program leading to the Bachelor of Science in Management, which integrates multidisciplinary approaches to teaching and learning, utilizes the latest business and economic theories along with providing practical exposure to its students through real-life case studies and analysis of actual business data and presentations. The department focuses on building and enhancing students' essential skills, like, critical thinking, effective communication skills, business acumen and understanding of strategic models that are used in modern business world, in order to facilitate their entry into the global business arena as exceptional and professional managers and entrepreneurs.

Bachelor of Science in Management

Mission

The mission of the Management Department is derived mainly from the grand vision and philosophy of the University and the College of Business Administration. The department aims at providing students with excellent education and professional practice in various areas of management via a rigorous academic program that promotes critical thinking, interpersonal skills, technical competence and above all ethical and moral principles and practices.

Goals

1. To equip students with in-depth knowledge of contemporary management theories, concepts, principles, and practices relevant to the business and management careers in the twenty-first century.
2. To develop students' creative and critical thinking and problem-solving skills necessary for the identification, analysis, and resolution of a wide range of business and management problems.
3. To develop students' ability to apply information technologies that is necessary to facilitate business and management decision-making processes.
4. To equip students with appropriate communication, teamwork, motivation, leadership, and research skills suitable in the business and management environments.
5. To enable students to identify and utilize decision-making techniques and skills that meet professional, ethical, and socially- responsible standards.

Learning Outcomes

1. **Knowledge**:
   Upon successful completion of the BSc in Management program, graduates will be able to:
   - Deal effectively and efficiently with managerial responsibilities, tasks and challenges in changing and complex business environments.
   - Display problem solving and decision making skills in a variety of contexts
   - Articulate issues and disseminate solutions to a variety of stakeholders.
   - Demonstrate broad managerial competencies adapted to a globalized world.
   - Conduct research and pursue post-graduate studies.
2. **Skills:**
   - Understand key theories in leadership and management
   - Explain the organizational objectives of specialization, coordination, adaptation and alignment to benefit the community and the business milieu
   - Identify the differences between the conduct of quantitative and qualitative research
   - Understand the requirements for managerial ethical, moral, and the principle of "what is measurable is manageable."
   - Understand the global multidimensional managerial challenges as they pertain to the various functions of the global corporation.
   - Develop awareness of the importance of strategic change and development
   - Explain the role of quality standards in an applied business strategy.
   - Apply creative thinking to the solution of complex organizational challenges.
   - Acquire the requisite knowledge and skills to conduct research and to pursue postgraduate studies.

3. **Competence (Autonomy and Responsibility)**
    - Conduct research projects independently or in a group setting.
    - Conduct graduation projects according to the College of Business Administration guidelines that are stipulated by the College of Business Administration. Orally present and defend graduation projects.
4. **Self-development**
    - Engage in a life-long learning cycle and respond in a positive and responsible manner to constructive criticism.
    - Enroll in an approved training course at the conclusion of the senior year.
5. **Role in Context**
    - Demonstrate professionalism and respect for fellow students and faculty members.
    - Maintain high ethical standards in the conduct of all activities in CBA

Knowledge	
K1	Deal effectively and efficiently with managerial responsibilities, tasks and challenges in changing and complex business environments.
K 2	Display problem solving and decision making skills in a variety of contexts
K 3	Identify the differences between the conduct of quantitative and qualitative research
K4	Demonstrate broad managerial ccompetencies adapted to a globalized world.
K5	Conduct research and pursue post-graduate studies.
Skills	
S1	Understand key theories in leadership and management
S2	Explain the organizational objectives of specialization, coordination, adaptation and alignment to benefit the community and the business milieu
S3	Identify the differences between the conduct of quantitative and qualitative research
S4	Understand the requirements for managerial ethical, moral, and the principle of “what is measurable is manageable.”
S5	Understand the global multidimensional managerial challenges as they pertain to the various functions of the global corporation.
S6	Develop awareness of the importance of strategic change and development
S7	Explain the role of quality standards in an applied business strategy.
S8	Apply creative thinking to the solution of complex organizational challenges.
S9	Acquire the requisite knowledge and skills to conduct research and to pursue postgraduate studies.
Competencies Autonomy and Responsibility	
CA1	Conduct research projects independently or in a group setting.
CA2	Conduct graduation projects according to the College of Business Administration guidelines.
CA3	Orally present and defend graduation projects
Role in Context	
CR1	Demonstrate professionalism and respect for fellow students and faculty members.
CR2	Maintain high ethical standards in the conduct of all activities in CBA
Self-development	
CS1	Engage in a life-long learning cycle and respond in a positive and responsible manner to constructive criticism.
CS2	Enroll in an approved training course at the conclusion of the senior year.

Admission Requirements

The normal admission requirement for an applicant is the UAE Secondary School Certificate (both sections), or an equivalent qualification, with a minimum average grade of 60 percent, and TOEFL certificate with a minimum score of 500.

Career Opportunities

Management is the art of getting things done by others. Hence, the need for future managers never stops, particularly for those who are equipped with the latest managerial knowledge skills and the ability to think analytically.

The Bachelor of Science in Management program has been carefully crafted to meet market demands qualitatively. The program is intended to produce graduates who will be efficient and effective managers able to achieve organizational objectives. USTF management graduates have been well received in the job markets of the UAE and other Arabian Gulf countries for their outstanding teamwork, and creative and management leadership skills.)

Graduation Requirements

Students will be awarded the Bachelor of Science in Management degree upon fulfillment of the following requirements:

- Successful completion of 126 credit hours, which normally takes eight semesters.
- 8 weeks of industrial internship (after the completion of 96 credit hours including seven management core courses), which is equivalent to three credit hours.
- A minimum Cumulative Grade Point Average of 2.0.

Degree Requirements

The BSc in Management degree requires the completion of 126 credit hours distributed according to the following plan:

Type of Courses	Credit Hours
1. University General Education Requirements	**24**
• (a) University Required Courses	15
• (b) University Elective Courses	9
2. College Requirements	**66**
• (a) College Required Courses	54
• (b) College Elective Courses	12
3. Major Requirements	**36**
• (a) Major Required Courses	30
• (b) Major Electives Courses	6
Total Credit Hours	**126**

(1) University General Education Requirements

(a) University Compulsory Courses (15 Credit Hours)

Course No.	Course Title	Cr. Hrs.	Prerequisite
1021400	Communication Skills in Arabic Language (For Arabs)	3	-
1021401	Communication Skills in Arabic Language (For Non Arabs)	3	-
1021402	Communication Skills in Arabic- E	3	-
1021300	Islamic Civilization (Arabic)	3	-
1021301	Islamic Civilization (English)	3	-
1021100	Islamic Culture (For Arabs)	3	-
1021101	Islamic Culture (For Non Arabs)	3	-
1141300	Innovation and Entrepreneurship	3	60 hrs
1141202	IT Fundamentals	3	-
1031333	Statistics (Business)	3	-

(b) University Elective Courses (9 Credit Hours)

Course No.	Course Title	Cr. Hrs.	Prerequisite
1151500	The Art of Written Expression (Arabic)	3	-
1201150	Legal Culture	3	-
1121400	Introduction to Art (English)	3	-
1071300	Introduction to Digital Photography	3	-
1091100	Introduction to Aesthetics (English)	3	-
1091200	French Language	3	-
1021500	Introduction to Hadeeth and Sunna	3	-
1191700	Academic Writing (English)	3	-
1191500	The Art of Public Speaking (English)	3	-
1161200	Astronomy	3	-
1081200	Physics	3	-
1031200	Environmental Science (English)	3	-
1031300	Research Methodology (English)	3	-
1151100	History of Science in Islam	3	-
1151200	Scientific Pioneering	3	-
1171100	General Chemistry	3	-
1171200	Fundamental of Human Nutrition	3	-
1171300	First Aid	3	-
1181200	General Biology	3	-
1191100	English Communication Skills	3	-
1151300	General Psychology	3	-
1191600	Communication between Cultures	3	-
1071100	Critical Thinking (English)	3	-
1151600	Emirates Society (English)	3	-
1131400	Library Information System	3	-

(2) College Requirements (66 Credit Hours)

(a) Obligatory Courses (54 Credit Hours)

	Course Title	Course Code	Prerequisites	Cr. Hrs.
1	Statistics for Business	0102211	103110	3
2	Business Research Method	0400307	102211 and 400291	3
3	Principles of Accounting I	0400292	-	3
4	Principles of Accounting II	0400394	400292	3
5	Introduction to Management	0400291	-	3
6	Fundamentals of Finance	0400396	400292	3
7	Microeconomics	0400393	-	3
8	Business Communication	0400408	400291	3
9	Principles of Marketing	0400395	400291	3
10	Business Law	0400411	400291	3
11	Management Information Systems	0400615	400291 and 306460	3
12	Organizational Behavior	0400409	400291	3
13	Macroeconomics	0400410	400393	3
14	Data Base Management Systems	0306460	104110	3
15	Quantitative Analysis	0400513	102211 and 110140	3
16	Supervised Training	0400516	After 96 credit hours	3
17	IT in Business	0310202	104110	3
18	Math for Management	0110140	-	3

(b) Elective Courses (12 Credit Hours)

	Course Title	Course Code	Prerequisites	Cr. Hrs.
1	Business Ethics	400419	400291	3
2	Economic Development of GCC	400512	400410	3
3	Managerial Economics	400522	400393	3
4	Public Relations	400523	400408	3
5	Feasibility Studies	400524	400393 and 400396	3
6	Hospitality and Tourism	400525	400395	3
7	Social Media	400526	400395	3
8	Enterprise Resources Management	400527	400291& 400292	3
9	Business English	400528	-	3

(3) Major Requirements (36 Credit Hours)

(a) Major Obligatory Courses (30 Cr. Hrs.)

	Course Title	Course Code	Prerequisites	Cr. Hrs.
1	Production and Operations Management	0410501	103110 and 400291	3
2	Human Resource Management	0410602	400291	3
3	International Business	0410603	400291 and 400410	3
4	Management of Small Business	0410611	400291	3
5	Purchasing and Material Management	0410704	410501	3
6	Strategic Management	0410706	400396,400395	3
7	Total Quality Management	0410712	410501	3
8	Organizational Theory and Design	0410808	400409	3
9	Selected Topics in Management	0410809	410706	3
10	Graduation Project/Management	0410811	102 Credit Hours	3

(b) Major Elective Courses (6 Cr. Hrs.)

	Course Title	Course Code	Prerequisites	Cr. Hrs.
1	Project Management	0410820	400291	3
2	Electronic Business	0410830	400291 and 104110	3
3	Service Marketing	0430707	400395	3
4	Personal Finance	0440612	400396	3
5	Computer Applications in Management	0410705	104110 and 400291	3

Proposed Sequence of Study

Semester 1

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
1021100	Islamic Culture	3	0	0	3	-
1021400	Communication Skills in Arabic Language	3	0	0	3	-
400291	Introduction to Management	3	0	0	3	-
xxxxxx	University Elective Course 1	3	0	0	3	-
Total		15	2	1	15	

Semester 2

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
104110	Computer Applications	2	2	0	3	-
1141300	Innovation and Entrepreneurship	3	0	0	3	-
102211	Statistics for Business	3	0	0	3	103110
xxxxxxx	University Elective Course 2	3	0	0	3	-
Total		14	2	0	15	

Semester 3

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
311102	PC Applications/ Management	2	2	0	3	104110
400393	Microeconomics	3	0	0	3	-
400394	Principles of Accounting II	3	0	0	3	400292
400395	Principles of Marketing	3	0	0	3	400291
400396	Fundamentals of Finance	3	0	0	3	400291
xxxxxx	University Elective Course 3	3	0	0	3	-
Total		17	2	0	18	

Semester 4

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
110140	Mathematics for Management	3	0	2	3	-
310202	IT in Business	2	2	0	3	311102
306460	Database Management Systems	2	2	0	3	311102
400410	Macroeconomics	3	0	0	3	400393
400411	Business Law	3	0	0	3	-
xxxxxxx	College Elective Course 1	3	0	0	3	-
Total		16	4	2	18	

Semester 5

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
400408	Business Communications	3	0	0	3	400291
400409	Organizational Behavior	3	0	0	3	400291
410501	Production and Operations Management	3	0	0	3	103110, 400291
400513	Quantitative Analysis	3	0	0	3	102211, 110140
400615	Management Information Systems	3	0	0	3	400291, 306460
xxxxxxx	College Elective Course 2	3	0	0	3	-
Total		18	0	0	18	

Semester 6

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
410603	International Business	3	0	0	3	400291, 400410
410611	Management of Small Business	3	0	0	3	400291
410704	Purchasing and Materials Management	3	0	0	3	410501
410705	Computer Applications /Management	2	2	0	3	311102, 400291
410712	Total Quality Management	3	0	0	3	410501
xxxxxxx	College Elective Course 1	3	0	0	3	-
Total		17	2	0	18	

Semester 7

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
400516	Supervised Training	-	-	-	3	96 cr. hrs.
410602	Human Resource Management	3	0	0	3	400291
410706	Strategic Management	3	0	0	3	400409
xxxxxxx	Major Elective Course 1	3	0	0	3	-
Total		9	0	0	12	

Semester 8

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
410808	Organizational Theory and Design	3	0	0	3	400409
410811	Graduation Project	-	-	-	3	102 cr. Hrs.
410909	Selected Topics in Management	3	0	0	3	410706
xxxxxxx	Major Elective Course 2	3	0	0	3	-
Total		9	0	0	12	

Management Department Course Descriptions

400 291 Introduction to Management (3,0,0,3)

This introductory course provides an overview of the field of management. The topics covered are designed around the key functions of management: planning, organizing, leading, and controlling. Students are exposed to the development of management theories and approaches, managerial decision-making, business environment, business ethics and social responsibility.

400 307 Business Research Methods (3,0,0,3)

This course provides an introduction to research methods in social sciences in general and business administration in particular. The primary aim of the course is to equip students with the essential research techniques they would use in advanced specialized courses such as marketing research, feasibility studies and project planning, and the graduation project. The course will cover a range of topics including, in particular, research designs, sampling theory, data collection tools, questionnaire development and program evaluation methodology. The course will also cover basic data analysis methods involving both exploratory and hypothesis testing statistical techniques. Pre-requisites: 102 211, 400 291

400 408 Business Communications (3,0,0,3)

The course aims to equip students with effective business communication skills, providing thorough practice in writing business letters, memos, reports, resumes and job applications. In addition to developing written communication, the course teaches verbal communication skills, for example public speaking, interviewing and other forms of communication. The entire teaching process is focused on building effective communication skills. Pre-requisite: 400 291

400 409 Organizational Behavior (3,0,0,3)

This course surveys the background and development of organizational behavior, and examines major conceptual models in the field. A number of topics are explored in detail, including personality, perception, motivation, groups and teams, communication, leadership, conflict and negotiation, and organizational sources of stress and coping strategies. Issues relating to organizational change and development are given special attention. Pre-requisite: 400 291

400 411 Business Law (3,0,0,3)

The aim of this course is to review basic legal principles and sources of contract law, background of law and legal theory. The following topics are covered in detail: formation of contracts, modifications, terminations, remedies, award law, pricing, patent, business organizations, company law, sales of goods, transfer of ownership rights, employment and health and safety laws. Pre-requisite: 400 291

400 615 Management Information Systems (3,0,0,3)

This course provides an overview of computers and information processing. It covers the following topics in detail: management information system concepts, information processing applications, data handling process, data processing and automation, fundamentals of any system and system design, and development and implementation. Pre-requisites: 400 291, 306460

400 419 Business Ethics (3,0,0,3)

The aim of this course is to provide comprehensive and systematic coverage of a wide range of ethical issues in all functional areas of business. Using cases, vignettes and discussion points, the course will examine the ethical problems involved in real-life

business situations. Some of the major topics to be covered include: ethical theory and business practice, corporate social responsibility, rights and obligations of employees and employers, ethical issues in international business, and social and economic justice. Pre-requisite: 400 291

400 524 Feasibility Studies (3,0,0,3)

Feasibility studies and project evaluation have become increasingly important, since they signal the success of any industrial, tourism or investment project. This course is designed to introduce students to the concepts and process of feasibility studies and project evaluation. It explains how to prepare feasibility studies and project evaluation, and how to benefit from them in the investment decision-making process. Feasibility studies and project evaluation depend on collecting and analyzing marketing, technical, administrative and financial data and information. Pre-requisites: 400 393, 400 396

410 501 Production and Operations Management (3,0,0,3)

This course is designed to cover the principles of production and operations management as they relate to both manufacturing and service operations. The course will examine the following topics: decision-making process, forecasting, operations strategy, production planning, scheduling, productivity, quality control, and future trends in production and operations management. Pre-requisites: 103 110, 400 291

410 602 Human Resource Management (3,0,0,3)

The aim of this course is to survey the principles and practices in managing human resources. The course covers a number of basic topics, for example job analysis and job design techniques, human resource policies, human resource acquisition and maintenance strategies, recruitment, selection, development and training, compensation, health and safety issues and policies. The topics of labor relations and collective bargaining also receive careful attention. Pre-requisite: 400 291

410 603 International Business (3,0,0,3)

This course covers a number of topics of both a general and specific nature. It examines the objectives and motives of international companies (MNCs) for operating internationally, and the strategies they use to achieve global presence. Special attention is given to the following topics: theories of international trade, domestic trade, free trade and protectionism, tariffs, foreign exchange, foreign direct investments (FDI), international financial institutions, international corporate planning and competitive strategies. Pre-requisites: 400 291, 400 410

410 704 Purchasing and Materials Management (3,0,0,3)

This course offers a survey of the principles and techniques used in purchasing and materials management. It examines the following topics: recognition of materials needs, the acquisition process and the overall supply management issues and policies. Within these broader topics, the course looks at techniques used in materials requirement planning, stock and inventory control, transportation, stores

management, quality and quality assurance, JIT and TQM. The course also examines the purchasing and supply management processes and methods used by governments, non-profit and service organizations. Pre-requisite: 410 501

410 706 Strategic Management (3,0,0,3)

This advanced course focuses on all aspects of the strategic management process, including decision-making, company objectives, strategies, implementation and outcome assessment. The course develops a thorough understanding among students of policy formulation and evaluation with special attention to the capabilities and competencies of a firm. The course also addresses issues relating to resource analysis and allocation techniques, and the management of strategic change. Pre-requisites: 400 291,400 409

410 808 Organizational Theory and Design (3,0,0,3)

The primary aim of this course is to expose students to the evolution of organization theory, and the contribution of different schools of thought to the development of classical and contemporary theoretical perspectives. The topics of bureaucracy, power and politics, organizational structures and technology, and emerging design options will be extensively examined. The course also looks at the issues of information and control, organizational renewal and learning, techno-structural change and adaptive capacity of organizations. Case studies and actual examples from a range of firms will be used to investigate the application of organization theory to management issues. Pre-requisite: 400 409

410 909 Selected Topics in Management (3,0,0,3)

This is an advanced course in management. Its primary aim is to offer a more thorough examination of selected topics. The course instructor will select topics keeping in view students' interests and the availability of teaching material and resources. In general, an attempt will be made to include topics that have received little attention in other management courses, or topics in new areas that are not covered in the prescribed syllabus. The choice of topics is expected to vary from semester to semester. Pre-requisite: 410 706

410 612 Management of Small Business (3,0,0,3)

The course is designed to answer the fundamental question that students and aspiring entrepreneurs often ask: how can I start and manage my own business? With this objective, the course discusses different types of businesses, legal organizations, accounting and financial requirements. Other topics covered in the course include: obtaining capital, controlling inventory, setting prices, staffing, marketing strategies, growth and expansion decisions and strategies. Pre-requisite: 400 291

410 712 Total Quality Management (3,0,0,3)

This course offers an introduction to principles and philosophy of Total Quality Management. It draws upon the work of experts such as Edwards Deming, Joseph Juran, Philip Crosby and Genichi Taguchi to develop an understanding of the concepts of quality from the perspectives of customers and product/service organizations. The course also evaluates the criteria used in well-known quality awards (e.g., The Malcolm Balding National Quality Award, and ISO 9000, as well as local UAE quality awards), and reviews the performance of selected quality-award winning companies. Pre-requisite: 410 501

400 513 Quantitative Analysis (2,2,0,3)

The aim of this course is to review basic quantitative methods used in business decision-making. The major focus of the course will be on decision-making under uncertainty and certainty such as linear programming. Some of the specific topics to be covered will include: problem formulation, graphic solutions and different forms of linear programming such as transportation and assignment models, queuing theory, decision analysis, inventory systems and forecasting. Pre-requisites: 102 211, 110 140

Department of Accounting

Accounting, described as "The Language of Business", is the study of the concepts and techniques used in reporting on matters related to an entity's financial status and performance. Entities compete in both input and product markets that is why accounting information is essential for managers to plan and control business activities. Information generated through the accounting process helps in communication and analysis of financial reports that are required for business decision-making.

Bachelor of Science in Accounting

Mission

The mission of the Accounting Department is derived mainly from the grand vision and philosophy of the University and the Faculty. Accordingly, the department is in pursuit of excellence in accounting education and professional practice via a rigorous academic program that promotes critical thinking, interpersonal skills, technical competence and above all ethical practices.

Goals

1. Provide students with adequate accounting knowledge that enables them to acquire a position in accounting profession.
2. Enable students to prepare, analyze and communicate accounting information using information technology to facilitate the decision making process.
3. Develop ethical reasoning, critical thinking and problem-solving.
4. Prepare students to conduct research in accounting and related areas.

Learning Outcomes

1. **Knowledge:**
   - K 1: Understand the conceptual frame work of accounting and the mechanics of accounting cycle.
   - K 2: Understand the core concepts of cost and management accounting and the uses of accounting information in the decision-making process.
   - K 3: Understand the auditing standards, practice and rules of professional conduct.
   - K 4: Understand the relevance and applicability of accounting models and theories.
2. **Skills**
   - S 1: Ability to prepare financial statements for profit and non-profit organizations.
   - S 2: Ability to use accounting analytical tools to develop skills and critical thinking.
3. **Competence (Autonomy and Responsibility)**
   - CA 1: Ability to combine and consolidate financial information.
   - CA 2: Prepare students to conduct research in accounting and related areas.
   - CA 3: Develop ethical reasoning, critical thinking and problem-solving.
4. **Self-development**
   - CS: Enable students to prepare, analyze and communicate accounting information using manual and information technology to facilitate the decision making process.
5. **Role in Context**
   - CR: Develop an adequate accounting knowledge that enables them to acquire a position in accounting profession.

Knowledge	
K1	Understand the conceptual frame work of accounting and the mechanics of accounting cycle.
K 2	Understand the core concepts of cost and management accounting and the uses of accounting information in the decision-making process.
K 3	Understand the auditing standards, practice and rules of professional conduct.
K4	Understand the relevance and applicability of accounting models and theories.
Skills	
S1	Ability to prepare financial statements for profit and non-profit organizations
S2	Ability to use accounting analytical tools to develop skills and critical thinking.
Competencies (Autonomy and Responsibility)	
CA 1	Conduct research projects independently or in a group.
CA 2	Prepare students to conduct research in accounting and related areas.
CA3	Develop ethical reasoning, critical thinking and problem-solving.
Self-development	
CS.	Enable students to prepare, analyze and communicate accounting information using manual and information technology to facilitate the decision making process.
Role in Context	

CR.	Develop an adequate accounting knowledge that enables them to acquire a position in accounting profession

Admission Requirements

The normal entry requirement is the UAE Secondary School Certificate, or an equivalent qualification, with a minimum average grade of 60 percent, and TOEFL certificate with a minimum score of 500.

Career Opportunities

A career in accounting offers the potential of a larger number of job openings. A qualification in accounting today opens the door to careers in business, NGOs and government units, preparing graduates for work in any of the following areas: financial reporting, public practice, strategic business planning, cost and management accounting, information systems, insolvency and reconstruction, accounting and finance consulting, and business analysis and evaluation. In addition to employment, USTF graduates are equipped to pursue postgraduate study in accounting and finance as well as professional certification, for example CPA, CMA, CFA, ACCA and CIA.

Graduation Requirements

Students will be awarded the Bachelor of Science in Accounting degree upon fulfillment of the following requirements:

- Successful completion of 126 credit hours, which normally takes eight semesters.
- 8 weeks of industrial internship (after the completion of 96 credit hours including seven Accounting compulsory courses
- A minimum Cumulative Grade Point Average of 2.0.

Degree Requirements

The BSc in accounting degree requires the completion of 126 credit hours distributed according to the following plan:

Type of Courses	Credit Hours
1. University General Education Requirements	**24**
• (a) University Required Courses	15
• (b) University Elective Courses	9
2. College Requirements	**66**
• (a) College Required Courses	54
• (b) College Elective Courses	12
3. Major Requirements	**36**
• (a) Major Required Courses	30
• (b) Major Electives Courses	6
Total Credit Hours	**126**

(1) University General Education Requirements

(a) University Compulsory Courses (15 Credit Hours)

Course No.	Course Title	Cr. Hrs.	Prerequisite
1021400	Communication Skills in Arabic Language	3	-
1021100	Islamic Culture	3	-
1141300	Innovation and Entrepreneurship	3	60 hrs

1141202	IT Fundamentals	3	
1031333	Statistics (Business)	3	

(b) University Elective Courses (9 Credit Hours)

Course No.	Course Title	Cr. Hrs.	Prerequisite
1151500	The Art of Written Expression (Arabic)	3	-
1201150	Legal Culture	3	-
1121400	Introduction to Art (English)	3	-
1071300	Introduction to Digital Photography	3	-
1091100	Introduction to Aesthetics (English)	3	-
1091200	French Language	3	-
1021500	Introduction to Hadeeth and Sunna	3	-
1191700	Academic Writing (English)	3	-
1191500	The Art of Public Speaking (English)	3	-
1161200	Astronomy	3	-
1081200	Physics	3	-
1031200	Environmental Science (English)	3	-
1031300	Research Methodology (English)	3	-
1151100	History of Science in Islam	3	-
1151200	Scientific Pioneering	3	-
1171100	General Chemistry	3	-
1171200	Fundamental of Human Nutrition	3	-
1171300	First Aid	3	-
1181200	General Biology	3	-
1191100	English Communication Skills	3	-
1151300	General Psychology	3	-
1191600	Communication between Cultures	3	-
1071100	Critical Thinking (English)	3	-
1151600	Emirates Society (English)	3	-
1131400	Library Information System	3	-

(2) College Requirements (66 Credit Hours)

(a) Obligatory Courses (54 Credit Hours)

	Course Title	Course Code	Prerequisites	Cr. Hrs.
1	Statistics for Business	0102211	103110	3
2	Business Research Method	0400307	102211 and 400291	3
3	Principles of Accounting I	0400292	-	3
4	Principles of Accounting II	0400394	400292	3
5	Introduction to Management	0400291	-	3
6	Fundamentals of Finance	0400396	400292	3
7	Microeconomics	0400393	-	3
8	Business Communication	0400408	400291	3
9	Principles of Marketing	0400395	400291	3
10	Business Law	0400411	400291	3
11	Management Information Systems	0400615	400291 and 306460	3
12	Organizational Behavior	0400409	400291	3
13	Macroeconomics	0400410	400393	3
14	Data Base Management Systems	0306460	104110	3
15	Quantitative Analysis	0400513	102211 and 110140	3
16	Supervised Training	0400516	After 96 credit hours	3

17	IT in Business	0310202	104110	3
18	Math for Management	0110140	-	3

(b) Elective Courses (12 Credit Hours)

	Course Title	Course Code	Prerequisites	Cr. Hrs.
1	Business Ethics	400419	400291	3
2	Economic Development of GCC	400512	400410	3
3	Managerial Economics	400522	400393	3
4	Public Relations	400523	400408	3
5	Feasibility Studies	400524	400393 and 400396	3
6	Hospitality and Tourism	400525	400395	3
7	Social Media	400526	400395	3
8	Enterprise Resources Management	400527	400291& 400292	3
9	Business English	400528	-	3

(3) Major Requirements (36 Credit Hours)

(a) Major Obligatory Courses (30 Cr. Hrs.)

	Course Title	Course Code	Prerequisites	Cr. Hrs.
1	Intermediate Accounting I	0420401	400394	3
2	Intermediate Accounting II	0420501	420401	3
3	Cost Accounting	0420603	420401	3
4	Managerial Accounting	0420502	400394	3
5	Advanced Accounting	0420604	420501	3
6	Auditing	0420602	420501	3
7	Accounting Theory	0420707	420604	3
8	Computerized Acct. Inf. Sys.	0420810	420401	3
9	Governmental Accounting	0420705	420401	3
10	Financial Management and Control	0420802	420604 and 420502	3
11	Graduation Project / Accounting	0420811	102 Cr. Hrs.	3

(b) Major Elective Courses (6 Cr. Hrs.)

	Course Title	Course Code	Prerequisites	Cr. Hrs.
1	Advanced auditing	0420706	420602 and 420810	3
2	Taxation Accounting	0420716	420401	3
3	Contemporary Issues in Accounting	0420809	420707	3
4	Oil and Gas Accounting	0420714	420401	3
5	International Accounting	0420612	420707	3
6	Islamic Accounting	0420613	420401	3

Proposed Sequence of Study

Semester 1

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
1021100 **1021101**	Islamic Culture (Arabs), Islamic Culture (Non Arabs)	3	0	0	3	-
1021400 **1021401**	Communication Skills in Arabic Language (Arabs) Communication Skills in Arabic Language (Non Arabs)	2	2	0	3	-
400291	Introduction to Management	3	0	0	3	-

xxxxxxx	University Elective Course 1	3	0	0	3	-
Total		15	2	1	15	

Semester 2

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
104110	Computer Applications	2	2	0	3	-
1141300	Innovation and Entrepreneurship	3	0	0	3	-
102211	Statistics for Business	3	0	0	3	103110
xxxxxxx	University Elective Course 2	3	0	0	3	-
Total		14	2	0	15	

Semester 3

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
311102	PC Applications/ Management	2	2	0	3	104110
400393	Microeconomics	3	0	0	3	-
400394	Principles of Accounting II	3	0	0	3	400292
400395	Principles of Marketing	3	0	0	3	400291
400396	Fundamentals of Finance	3	0	0	3	400291
xxxxxxx	University Elective Course 3	3	0	0	3	-
Total		17	2	0	18	

Semester 4

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
110140	Mathematics for Management	3	0	2	3	-
310202	IT in Business	2	2	0	3	311102
420401	Intermediate Accounting I	3	0	0	3	400394
400410	Macroeconomics	3	0	0	3	400393
400411	Business Law	3	0	0	3	-
xxxxxxx	College Elective Course 1	3	0	0	3	-
Total		17	2	2	18	

Semester 5

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
306460	Data Base Management Systems	2	2	0	3	400394
400408	Business Communications	3	0	0	3	400291
420501	Intermediate Accounting II	3	0	0	3	420401
400513	Quantitative Analysis	3	0	0	3	102211, 110140
420603	Cost Accounting	3	0	0	3	400394
xxxxxxx	College Elective Course 2	3	0	0	3	-
Total		17	2	0	18	

Semester 6

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
400409	Organizational Behavior	3	0	0	3	400291
400502	Management Information Systems	3	0	0	3	400291, 306460
420502	Managerial Accounting	3	0	0	3	420603
420602	Auditing	3	0	0	3	420401
420705	Governmental Accounting	3	0	0	3	420401
xxxxxxx	College Elective Course 1	3	0	0	3	-
Total		18	0	0	18	

Semester 7

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
400516	Supervised Training	-	-	-	3	96 Cr. Hrs.
420604	Advanced Accounting	3	0	0	3	420501
420706	Advanced auditing	3	0	0	3	420602
xxxxxx	Major Elective Course 1	3	0	0	3	-
Total		9	0	0	12	

Semester 8

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
420707	Accounting Theory	3	0	0	3	420604
420802	Financial Management and Control	3	0	0	3	420604, 420502
420810	Computerized Accounting Info. Systems	2	2	0	3	420401, 311102
420811	Graduation Project	3	0	0	3	102 Cr. Hrs.
Total		11	2	0	12	

Accounting Department Courses Description

400 292 Principles of Accounting I (3,0,0,3)

Accounting is something that affects people in their personal lives just as much as it affects very large businesses. Financial accounting is concerned with the provision of accounting information to owners, investors and other external users. The term accounting may refer to different activities, for example collecting, recording, processing and communicating economic data to produce useful accounting information. This course is a study of the fundamental principles and procedures of accounting as applied to sole proprietorships, partnerships and corporations.

400 394 Principles of Accounting II (3,0,0,3)

The users of accounting information need complete and comparable information to assess company profitability and financial position. The course provides details on the

preparation of financial statements (balance sheet, income statement, and statement of cash flow) as well as the accounting treatment of their components

420 401 Intermediate Accounting I (3,0,0,3)

Like other human activities, accounting is largely a product of its environment. Therefore, accounting objectives are not the same today as they were in the past. To provide managers and other interested parties with useful information, they must know how this information can be generated. “Accountants must act as well as think,” therefore it is important for business administration students to understand how accounting reports are prepared, as well as why. The course places particular emphasis on valuation procedures and alternative accounting treatments of various assets and abilities. Pre-requisite: 400 394

420 501 Intermediate Accounting II (3,0,0,3)

Like other human activities, accounting is largely a product of its environment. Therefore, accounting objectives are not the same today as they were in the past. To provide managers and other interested parties with useful information, they must know how this information can be generated. “Accountants must act as well as think,” therefore it is important for business administration students to understand how accounting reports are prepared, as well as why. The course places particular emphasis on valuation procedures and alternative accounting treatments of various assets and abilities. Pre-requisite: 420 401

420 502 Managerial Accounting (3,0,0,3)

Managers in every organization are better equipped to perform their duties when they have a reasonable grasp of accounting data. Decision-making, which is “the choice of alternative courses of action” is the core of the management process, that depends ultimately on useful accounting information. This type of information will be provided through management accounting, which refers to accounting information developed for managers within an organization. The course is designed primarily for students who have studied basic accounting for two semesters. Emphasis is placed on accounting as a tool for planning and control. Pre-requisite: 420 603

420 705 Governmental Accounting (3,0,0,3)

The aim of this course is to equip the students with the theory and practice of fund accounting in government units and not-for-profit organizations. In the process, the course discusses all issues related to the preparation of financial statements of the government units and non-profit organizations. Pre-requisite: 420401

420 602 Auditing (3,0,0,3)

Auditing is interdisciplinary in its scope and methodology, encompassing accounting theory and applications, legal aspects, managerial issues, environmental factors and computer processing. In its modern sense, an audit is a process whereby the accounts of business entities and managerial performance are subjected to scrutiny to develop

an opinion on fairness of financial statements and effectiveness of management. The general concern of auditing could be derived from the famous statement of Confucius: "The aim of the superior man is truth." This course is designed to introduce students to basic concepts and standards. Concentration is mainly on auditing standards, ethics, principles and procedures used by external auditors in conducting financial and managerial audit. Pre-requisite: 420 401

420 603 Cost Accounting (3,0,0,3)

The relevance of information depends on the decision being made. Decision-making is essentially choosing among several courses of action. Accountants have an important role in the decision-making process, not as decision-makers but as collectors and reporters of relevant information. The accountant's role in decision-making is primarily that of a technical expert on cost analysis, cost control and cost reduction, information that will lead to the best decision on production, marketing, profitability, performance evaluation, transfer pricing and capital budgeting. The study of the basic concepts and practical aspects of cost accounting is the primary concentration of this course. Pre-requisite: 400 394

420 604 Advanced Accounting (3,0,0,3)

In most business combinations, one company acquires control over the net assets of another. The transfer of control from one group of owners to another affects the economic interests of many people, including the owners, managers, creditors and customers. Although the single proprietorship is the most common form of business in the Arab world, and although the corporate form of organization accounts for the largest volume of business, the partnership form is widely used by smaller business entities in the Arabian Gulf region. The study of partnership and consolidated financial statements is the primary concentration of this course. Fundamentals of fair value and equity accounting methods are reviewed. Pre-requisite: 420 501

420 706 Advanced Auditing (3,0,0,3)

Many accounting students will choose a career in auditing, either in public accounting, private industry or government. These students need to acquire technical expertise and to understand the theoretical concepts underlying current auditing practice. This course is designed to acquaint the student of accounting with the advanced practical aspects of auditing procedures and techniques with reference to the method of their application in commercial, industrial and other profit making organizations, paying particular attention to assessment of risk, concept of internal control and assertions of assets and liabilities. Pre-requisite: 420 602

420 802 Financial Management and Control (3,0,0,3)

This course aims to provide with an understanding of financial statements and the analytical tools available for use in properly managing and adding value to an organization. It focuses on analysis of financial and accounting information and its

impact on financial decision-making and profit planning. The course uses some basic applications of statistics in analyzing the impact on financial markets and consequently setting up standards in the field of financial planning in order to ensure the financial stability. Pre-requisites: 420 604, 420 502

420 707 Accounting Theory (3,0,0,3)

Accounting theory is concerned with the models, hypotheses and concepts that together form the foundation for financial accounting practice. This course traces the historical development of accounting to gain an understanding of how we arrived at current practices, together with the social, political and economic influences on accounting standards. Pre-requisite: 420 604

420 809 Selected Topics in Accounting (3,0,0,3)

This course is to deal with a number of topics of a controversial nature in accounting. The course deals specifically with the theoretical basis and recent professional pronouncements related to some problems in financial reporting and disclosure, application and implications of accounting profit, profit-sharing under the Islamic accounting system, accounting for mergers and acquisitions, as well as accounting under inflationary conditions. Pre-requisite: 420 401

420 810 Computerized Accounting Information Systems (2,2,0,3)

The computerized accounting information system combines the skill sets of two areas experiencing rapid growth and change - accounting and information technology. Electronic commerce, direct-business-to--business communication, paperless work process and many other technology-intensive innovations have created new challenges and opportunities for accountants who also have expertise in information systems. Many traditional accounting functions are now embodied in systems that require a different combination of technical and financial knowledge. The CAIS course is designed to provide the combination of knowledge and skill sets to meet the new challenges and opportunities of the information technology world. Pre-requisites: 311 102, 420 401

420 612 International Accounting (3,0,0,3)

The global economy is best characterized by a new economic and corporate world in which national boundaries are losing their importance. Multinational and local firms need to be aware of the linkages, ramifications, conditions and demands of the global economy. This course looks at how accounting information that reflects this international reality for both external and internal users can be produced. International accounting takes in all the technical accounting problems in financial accounting, cost accounting, management accounting and auditing that have a bearing on the conduct of foreign operations. Pre-requisite: 420 401

420 613 Islamic Accounting (3,0,0,3)

This course provides a broad framework of the structure of Islamic accounting thought. The conceptual framework of accounting, accounting policy, operationalization of

terms, financial reporting standardization of accounting practice and profit and loss sharing in Islam on the most controversial issues at the academic and professional levels. Pre-requisite: 420 401

420 714 Oil and Gas Accounting (3,0,0,3)

Since the early 1970s, oil revenues have transformed the Arabian Gulf region into a modern sophisticated industrialized economy. Crude oil exports, which are the preserve of the Arabian Gulf region, remain the mainstay of economic activity. Oil and gas accounting is concerned with the models and concepts that together form the foundation and practice of financial and cost accounting for oil and gas industry. Pre-requisite: 420 401

420 716 Taxation Accounting (3,0,0,3)

Managers of local and multinational corporations face different tax systems in different countries that require adequate tax planning and knowledgeable people in the field of taxation accounting. Taxation of business does vary from one country to another. Not only are tax rates different, but also opinions differ as to definitions of taxable income and types of taxes to be used. Pre-requisite: 420 401

The Program of Master of Business Administration (MBA- HRM)

The MBA- HRM. program that is offered by CBA is of national and international quality that can meet the students' need to harness them into capable individuals who can meet the current employment needs and can visualize the future business trends, competition, planning and strategy. After successfully completing the MBA- HRM program, the graduates will be able to operate in national and multinational organizations by offering solutions of professional relevance and contribute to the advancement of business and economy.

Distinguishing Features

The USTF MBA- HRM. program seeks to satisfy the quality assurance standards set by world-class business and economy community.

Program Learning Outcomes (PLOs)

The program outcomes are to produce professionals (MBA graduates) who will be able to:

- Demonstrate knowledge on the main areas of business, with special emphasis on human resources management.
- Develop, implement, and evaluate organizational development strategies aimed at promoting organizational effectiveness.
- Use analytical and problem-solving skills in HR decision making through case studies.
- Provide innovative solutions to improve HR practices through case studies.
- Assess critically existing theory and practice in the field of HRM.
- Undertake qualitative and quantitative research in HR by participating in the research projects.
- Identify and apply new ideas, methods and ways of thinking to improve HR practices in UAE and GCC through business research projects.
- Advance well-reasoned and factually supported arguments in both written work and oral presentations.
- Evaluate HRM related social, cultural, and environmental responsibilities and issues in a global context through cross culture management theories.
- Develop the cross cultural awareness competency in a global context of HRM related social, cultural, and environmental responsibilities.

The program adopts all the accreditation standards of CAA at the Ministry of Education in UAE. Especially, beginning the alignment of the program learning outcomes with QF Emirates (Qualifications Framework of UAE).

a. The National Qualifications Authority has defined descriptors for each level (type) of qualification that is offered by academic institutions. The MBA program falls under level 9 (Master) of the Principle Qualifications type.
b. The MBA program is structured such that the learning outcomes of the program are consistent with the five strands of learning outcomes stipulated by the UAE Qualifications Framework.

c. The course syllabi of the current MBA program are designed according to the CAA standards (2011) and adopting the Guide to Writing Learning Outcomes at Program and Course Level that Align with QF Emirates
d. One senior faculty member from the college to coordinate and follow up the issues related to the QF Emirates guides and standards.

Principle Qualifications Credit Matrix

- The MBA program requires the completion of 36 credit hours of coursework.
- Learning Outcomes Strands: The learning outcomes for this level are specified as five strands given in the following table:

Strand 1 Knowledge		• Comprehensive, highly specialised knowledge in a field of work, discipline and/or professional practice, and at the interface between different fields, including frontier concepts and recent developments; • Advanced knowledge of applicable research principles and methods; • Critical awareness of knowledge issues, as the basis for original thinking; encompassing appropriate processes of enquiry and current processes of knowledge production; • Detailed body of knowledge of recent developments in a field of work, and/or discipline.
Strand 2 Skill		• Advanced skills required in research, analysis, evaluation and/or innovation of complex ideas, information, concepts and/or activities; • Skills to develop new knowledge and procedures and to integrate knowledge from different fields using highly developed cognitive and creative skills and intellectual independence to the field of work or discipline; • Advanced problem-solving skills to analyse highly complex issues with incomplete data and develop innovative solutions and proposals relevant to an academic/professional field, field of work or discipline; • Planning skills to develop and execute a major project or comparable activities (that includes a significant range of variables and complexity) with appropriately selected research methodologies producing sound conclusions; • Highly developed specialist communication and information technology skills to present, explain and/or critique highly complex matters.
Aspects of Competence	**Strand 3 Autonomy and Responsibility**	• Can function autonomously and/or take responsibility for managing professional practices, work, processes or systems, or learning contexts that are highly complex, unpredictable and unfamiliar, and require new strategic approaches and/or intervention or conceptual abstract solutions; • Can account for high level governance of processes and systems; • Can analyse and reflect on socio-cultural norms and relationships and act to build and transform them.
	Strand 4 Role in Context	• Can initiate and manage professional activities that may include a highly complex environment; • Can take responsibility for leading the strategic performance and development of professional teams and self.
	Strand 5 Self-development	• Can self-evaluate and take responsibility for contributing to professional knowledge and practice including unfamiliar learning contexts; • Can develop and implement further learning consistently and sensitively; • Can consistently and sensitively manage highly complex ethical issues leading to informed, fair and valid decisions;

- The MBA program is structured such that the learning outcomes of the program are consistent with the five strands of learning outcomes stipulated by the UAE Qualifications Framework. The table below shows the mapping of the program learning outcomes to those of the UAE Qualifications Framework.

#	Program Outcomes	UAE Qualifications Framework Strands of Learning Outcomes				
		Strand 1	Strand 2	Strand 3	Strand 4	Strand 5
1	Demonstrate knowledge on the main areas of business, with special emphasis on human resources management.	√				
2	Develop, implement, and evaluate organizational development strategies aimed at promoting organizational effectiveness.	√				√
3	Use analytical and problem-solving skills in HR decision making through case studies.		√		√	
4	Provide innovative solutions to improve HR practices through case studies.			√		
5	Critically assess existing theory and practice in the field of HRM.		√			√
6	Undertake qualitative and quantitative research in HR by participating in the research projects.	√	√	√		√
7	Identify and apply new ideas, methods and ways of thinking to improve HR practices in UAE and GCC through business research projects.	√	√			
8	Advance well-reasoned and factually supported arguments in both written work and oral presentations.		√			√
9	Evaluate HRM related social, cultural, and environmental responsibilities and issues in a global context through cross culture management theories			√		√
10	Develop the cross cultural awareness competency in a global context of HRM related social, cultural, and environmental responsibilities.			√	√	√

Admission Requirements

In accordance with the university requirements for graduate degrees, a candidate to be admitted into the MBA program must fulfill the following minimum requirements:

1. Hold a Bachelor's degree in Business Administration or a related field from a UAE-recognized university with a minimum cumulative CGPA of 3 on a 4.0 scale or equivalent.
2. Students with a CGPA between 2.0 and 2.99 on a 4.0 scale or equivalent or with TOEFL 530 and a CGPA of a minimum 3.0 on a 4.0 scale or equivalent may be admitted conditionally.
3. A minimum score of 550 on paper based TOEFL or 6 on IELTS (or its equivalent).

Graduation Requirements

A student will be awarded the degree of Master of Business Administration-Human Resources Management upon meeting the following requirements:

1. Completion of the required MBA-HRM courses: 7 core courses, and 5 courses from major
2. Achievement of a CGPA of not less than 3.0

Curriculum

Core Courses (21 Credits)

The seven compulsory courses (3-credit hours each) provide an essential grounding for the MBA program. They provide essential knowledge and skills in areas which may be entirely new, or act as a welcome refresher

Course No.	Course Name	Credit Hours	Prerequisite
471004	Operations Management	3	-
471005	Business Research Methods	3	-
471006	International Business	3	-
472002	Financial Accounting	3	-
472003	Corporate Finance	3	472002
473001	Marketing Management	3	-
474001	Human Resource Management	3	-
Total		21	

Concentrations (15 Credit hours)

The courses in this concentration provide students with knowledge and skills relating to all aspects of HRM. A strategic perspective of the HRM area is highlighted. The student must complete 5 courses among the following courses.

Course No.	Course Name	Credit Hours	Prerequisite
474003	Management of Change	3	474001, 474006
474004	Training and Development of HR	3	474001
474005	Cross-Cultural Management	3	474001
474006	Organization Development	3	474001
471007	Strategic Management	3	472002, 473001, 474001 471004
Total		15	

Business Administration-Human Resources course description of

Course Code and No.: MBA 472002 Financial Accounting

Financial accounting is an essential tool that provides all users with the useful information for their relevant decisions. Financial reporting and analysis is one of the main requirements that protects the owners' rights and enhances managers' ability to make the correct decisions. It describes the conceptual framework of accounting, and financial statements, analysis and uses of financial reports. The aim of this course is to prepare students with the capability to analyze and present the financial statements of corporations.

Course Code and No.: MBA 474005 Cross-Cultural Management

In this course, students are to examine, from applied and theoretical perspectives, the impact of globalization and the effects of cross national diversity on the processes and practices associated with managing human resources. Special emphasis will be placed on comparisons between cross-cultural management of organizations in the UAE and the rest of the world.

Course Code and No.: 474001 Human Resources Management

The main objective of this course is to expose students to the theory and practice of human resources management issues in contemporary organizations, with an emphasis on the strategic aspects. The course will deal with different approaches to human resource management, particularly in the UAE/GCC context. HRM policies and practices may be one of the remaining factors of production that provide sustainable competitive advantage, as they are difficult to imitate or replicate. The course will introduce students to the main principles, standards and methodologies of Human Resources Management. It will explore past and contemporary topics related to the management of human resources such as recruitment and selection that have had a significant impact on organizational performance. The overall objective is to encourage students to start thinking systematically about achieving sustained competitive advantage through the effective management of human resources.

Course Code: MBA 474003 Management of Change

The objective of this course is to help students understand the main principles and techniques required to lead effective and lasting organizational change. The course will cover the conceptual and practical aspects of implementing organizational change, including the various facets and challenges associated with the transition period in the UAE and GCC region. Emerging research findings will be used to emphasize the day-to-day micro-level managerial actions as well as their strategic aspects. Various theories and concepts of change, together with experiences and dilemmas encountered in practices will be explored using various case studies. Consultants on change processes in the UAE/GCC will be invited as guest speakers to share their experiences with students.

Course Code: MBA 474006 Organizational Development

OD is a conscious, planned process of developing organizations' capabilities to attain and sustain optimum performance levels, measured by efficiency, effectiveness, and health. OD processes bring about successful change efforts in individuals, groups/teams, inter-groups, and organizations. The course provides students with a conceptual foundation of organization development as well as diagnosing organizations, groups and jobs by collecting and analyzing the diagnostic information.

Course Code: MBA 474004 Training and Development of Human Resources

This course provides student with information and insights of training and development function of organizations. The training and development function will be viewed from a systems approach. Further, the entire cycle of Training and Development of human resources will be examined in the context of the UAE/GCC. Special emphasis will be paid upon the coaching and mentoring processes for Human Resource Development. The training needs assessment plans will be reviewed to enable learners to appreciate organization's training function. Specific training methods and techniques will be explored.

Course Code: MBA 471006 International Business

The course focuses on the problems and opportunities of business in a global context. It examines economic, institutional, cultural, and legal issues faced by companies involved in international business. It further analyses their effect on business decisions including: product design, production and marketing, human resources strategy, investment analysis, financial strategy and risk management. The aim of the course is to provide students with an advanced and practical understanding of why, when and how companies develop their international activities. Upon the completion of the course, students will be able to understand and manage the role of culture in international contexts, and all related aspects of international strategic management

Course Code and No.: MBA 473001 Marketing Management

The main objective of the course is to expose the students to the concepts and techniques of marketing management. Students will also be exposed to the scope of contemporary marketing including manufacturing, institutional, reseller and government markets. The course will provide opportunities for the students to explore how business firms strategically respond to the opportunities in the marketing arena. It also aims to improve decision-making skills and stimulate strategic thinking through the use of case studies. The course would also involve fieldwork in the UAE and the analysis of marketing strategies in use by the organizations operating in the country.

Course Code: MBA 471004 Operations Management

The objective of the course is to expose students to the theoretical and practical techniques used to tackle production and operations management issues in any organization. Operations Management is concerned with efficient and effective

transformation of inputs - raw materials, personnel, machines, technology, capital, information, and other resources - into marketable and competitive outputs. The course will introduce students to the main principles, standards and methodologies of Operations Management. It will explore past and present topics in operations management that have had a significant impact in the management of manufacturing and service operations

Course Code: MBA 472003 Corporate Finance

This is an advanced corporate finance course with an emphasis on exchange rate risk management, long term and short term assets, and liability management. The topics to be covered can be classified into four parts. The first part is about the international financial environment that covers flows of funds, financial markets, and exchange rate determination. The second part covers exchange rate behavior and exchange rate risk management. The third part discusses the long term assets and liability management, including capital budgeting, country risk analysis, structure and cost of capital, and long term financing. Finally, the fourth part deals with short run asset and liability management, including international trade, short term financing, and international cash management

Course Code: MBA 471007 Strategic Management

Strategic management course covers strategy analysis, formulation, implementation, management and evaluation. Strategic Management will also provide a broad overview of both strategic management theories and concepts, and their application within a dynamic competitive environment that surround today's organizations. Students develop critical thinking/reasoning skills through various case studies and class discussions.

Course Code: MBA 471005 Business Research Methods

Business Research Methods course provides an introduction to research methods in social sciences in general and business administration in particular. The primary aim of the course is to equip the students with essential research techniques they would use in advanced specialized courses such as Marketing Research, Feasibility Studies and Project Planning, and Research Project reports. The course will cover a range of topics, including in particular, research design, sampling theory, data collection tools, questionnaire development, and program evaluation methodology. The course will also cover statistical data analysis procedures using SPSS and NVIVO software involving both quantitative and qualitative techniques through the small scale research project.

Minors of College of Business Administration

CBA Minors within the College of Business

- Minor in Accounting
- Minor in Management

CBA Minors for Other Colleges

- Minor in Management to the College of Engineering

Important Information

- Minors are open to students from outside College of Business Administration and to College of Business Administration students pursuing minor in disciplines other than the discipline of their major.
- College of Business Administration students may pursue only two minors offered within the College of Business Administration.
- A grade of at least C in each course and a GPA of at least 2.00 must be earned in courses taken to satisfy the minor.
- Minor Requirements (9 credits).
- Minor Electives (minimum of 6 credits).

Structure of the Minor Programs

Minor Programs offered by Business Administration College

1. **Department of Management**

- Minor management program offered for Business Administration College (Management for non-Management Students: 15 Credit Hours)

Compulsory Courses* (9 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
4106020	Human Resource Management	3	0	0	**3**	4002910
4106030	International Business	3	0	0	**3**	4004100
4108200	Project Management	3	0	0	**3**	4002910

Optional Courses* (6 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
4105010	Production and Operations Management	3	0	0	3	1031100, 4002910
4107050	Computer Applications in Management	2	2	0	3	4002910, 3111020
4108080	Organizational Theory and Design	3	0	0	3	4002910, 4004090

- **Minor management program offered for Engineering College**

Compulsory Courses* (9 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
4002910	Introduction to Management	3	0	0	3	-
4108200	Project Management	3	0	0	3	4002910
4004090	Organization Behavior	3	0	0	3	4002910

Optional Courses* (6 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
4105010	Production and Operations Management	3	0	0	3	4002910
4107050	Computer Applications in Management	2	2	0	3	4002910
4108080	Organization Theory and Design	3	0	0	3	4002910

2. Department of Accounting

- Minor accounting program offered for Business Administration College (Accounting for non-Accounting Students: 15 Credit Hours)

Compulsory Courses* (9 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
420401	Intermediate Accounting I	3	0	0	3	400394
420502	Managerial Accounting	3	0	0	3	400394
420603	Cost Accounting	3	0	0	3	400394

Optional Courses* (6 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
420705	Governmental Accounting	3	0	0	3	400394
420716	Taxation Accounting	3	0	0	3	400394
420810	Computerized Acc. Info. Sys.	2	2	0	3	400394
420714	Oil and Gas Accounting	3	0	0	3	400394
420602	Auditing	3	0	0	3	400394

. **Minor program offered for Information Technology College:**

- Information System / Electronic Business Management
- Information System / Project Management

Compulsory Courses* (9 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
400394	Principles of Accounting II	3	0	0	3	400292
420401	Intermediate Accounting I	3	0	0	3	400394
420810	Computerized Acc. Information System	2	2	0	3	400394

. **Optional Courses* (6 Credit Hours)**

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
420502	Managerial Accounting	3	0	0	3	400394
420603	Cost Accounting	3	0	0	3	400394
420705	Governmental Accounting	3	0	0	3	400394
400527	Enterprise Resources Planning	2	2	0	3	400292

Faculty Members of College of Business Administration

University of Science and Technology of Fujairah					
Name	**Rank**	**Specialization**	**Degree**	**Date**	**University**
Dr. Ahmed Zain Elabdin	Dean	Business Management	PhD	2001	Omdurman University Sudan
Dr. Abdallah Elnagar Elamin	Associate Professor	Strategic Management	PhD	2001	Lancaster University United Kingdom
Dr. Gyanendra Singh Sisodia	Associate Professor	Business Management	PhD	2014	University of Porto, Portugal
Dr. Alberto Ibáñez Fernández	Assistant Professor	Business Management	PhD	2011	King Juan Carlos University, Madrid, Spain

13 | College of Dentistry

The College of Dentistry (COD) was established in academic year 2002-2003 as the first oral and dental health teaching institution in the east coast region of United Arab Emirates. The college's programs are tailored to meet the oral and dental health needs of the UAE community, focusing on the prevention of oral and dental diseases.

Mission

The College of Dentistry reflects the mission of University of Science and Technology of Fujairah to provide dental educational programs in the UAE, to initiate and develop basic and clinical research and to offer high quality oral healthcare to meet the needs of the east coast region. The College of Dentistry aims to prepare graduates who are highly qualified in dental sciences to deliver compassionate and ethical orofacial healthcare services.

Objectives

The College of Dentistry aims to:

- Educate and train a new generation of oral health professionals to world-class standards.
- Implement a comprehensive oral healthcare program with emphasis on prevention.
- Provide community dentistry services that meet world-class standards.
- Initiate scientific research in oral health in collaboration with prestigious international dental and medical institutions, and companies related to dentistry.

Degree Programs

The College of Dentistry currently offers the following undergraduate dental program which is accredited by the UAE Ministry of Education:

- Doctor of Dental Surgery (DDS) - 5-year program

Facilities

The College of Dentistry is equipped to deliver world class dental education. Spacious lecture halls with audio-visual and video conferencing facilities provide students with an exciting learning experience. State-of-the-art laboratories with the latest medical and dental education equipment enhance students' knowledge and skills. The college's dental clinics have a contemporary design with modern dental units and x-ray rooms, and are provided with the latest dental materials, instruments and equipment. Free-of-charge comprehensive dental treatment for all patients ensures a regular flow of dental cases for clinical training, skills development and research requirements during the clinical phase of dental education programs.

Doctor of Dental Surgery (DDS) Degree Program

This is a five-year undergraduate program leading to the degree of Doctor of Dental Surgery (DDS). The study program and curriculum is at par with that of renowned international universities and dental institutes.

Program Objectives

The DDS program aims to:

1. Educate and train a new generation of competent dental surgeons, who will be able to provide high quality comprehensive oral healthcare with emphasis on prevention.
2. Emphasize on the prevention and early detection of oral and dental diseases as an integral part of the curriculum.
3. Provide educational experiences for students using a comprehensive patient care model.
4. Provide community dentistry services that meet world-class standards.
5. Establish national recognition in term of academia by the concerned authorities and the public.

Program Outcomes

The DDS program at USTF-College of Dentistry is only delivered as a full time program. The College of Dentistry offers access to e-learning (MOODLE) as a supplementary tool to its traditional face-to-face pedagogy. The effectiveness of the program is evaluated against the program learning outcomes which have been aligned with the UAE Qualifications Framework (UAEQF) and are consistent with the defined level of the degree.

Learning outcomes

1. Knowledge: On successful completion of the Doctor of Dental Surgery program, graduates will be able to:
    - Express coherent knowledge, capabilities and limitations of specialization areas in dentistry
    - Describe the importance of prevention, treatment and management of oral and dental diseases.
    - Use the factual and theoretical knowledge in basic medical and dental sciences and allied sciences to gather information from patient as part of history taking and patient examination in order to decide appropriate investigation and decide a suitable course of treatment within the scope of a general dental practice.
    - Identify the integration and importance of the basic medical and allied sciences such as psychology and behavioral sciences to dentistry.
    - Demonstrate a broad knowledge of the fundamental concepts, theories and principles in research projects and protocols complying with ethical principles.
2. **Skill:**
    - Demonstrate effective technical and analytical skills using evidentiary and procedural based processes to perform appropriate dental procedures independently and safely in a general dental practice setting.
    - Practice promotion of oral health and prevention of related disorders.
    - Demonstrate highly developed communication skills to explain or critique complex and unpredictable matters related to oral health and disease.

- Demonstrate accurate record keeping and how to source and analyze information relevant to effective clinical practice.
- Practice ethical, professional and legal responsibilities and display appropriate attitudes and behavior.
- Evaluate, select and apply appropriate methods of clinical research in relation to oral health and disease.

3. **Competence (Autonomy and Responsibility)**
   - Show responsibility and independent technical and clinical decision-making to evaluate and manage complex and unpredictable clinical work appropriate to a primary care practice.
   - Illustrate adherence to current best practice methods in a mature manner.
4. **Role in Context**
   - Recognize the importance of appropriate leadership roles, manage and take accountability of the team involved in patient care.
   - Demonstrate responsibility and supervise the professional activity and mentoring of allied dental health personnel.
5. **Self-development**
   - Engage in self-evaluation and professional development apt for general dental practice or towards specific specialization.
   - Value professional ethics, positive criticism and feedback, and engage in a life-long learning.

Outcomes mapping matrix

National Standards of Learning Outcomes for Bachelor Program (UAENQF LEVEL 7)	Program Learning Outcomes of Doctor of Dental Surgery				
Kknowledge	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
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 depth in the underlying principles and theoretical concepts	✓				
2. 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			✓		
3. 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		✓		✓	
4. A comprehensive understanding of critical analysis, research systems and methods and evaluative problem-solving techniques					✓
5. Familiarity with sources of current and new research and knowledge with integration of concepts from outside fields					✓

National Standards of Learning Outcomes for Bachelor Program (UAENQF LEVEL 7)	Program Learning Outcomes of Doctor of Dental Surgery					
Skill	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
1. 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 arguments associated with a field of work or discipline	✓				✓	
2. Evaluating, selecting and applying appropriate methods, procedures or techniques in processes of investigation towards identified solutions		✓		✓		
3. Evaluating and implementing appropriate research tools and strategies associated with the field of work or discipline						✓
4. Highly developed advanced communication and information technology skills to present, explain and/or critique complex and unpredictable matters			✓			

National Standards of Learning Outcomes for Bachelor Program (UAENQF LEVEL 7)	Program Learning Outcomes of Doctor of Dental Surgery	
Competence (Autonomy and responsibility)	PLO 1	PLO 2
1. Can take responsibility for developing innovative and advanced approaches to evaluating and managing complex and unpredictable work procedures and processes, resources or learning	✓	
2. Can manage technical, supervisory or design processes in unpredictable, unfamiliar and varying contexts		✓
3. Can work creatively and/or effectively as an individual, in team leadership, managing contexts, across technical or professional activities	✓	
4. Can express an internalized, personal view, and accept responsibility to society at large and to socio-cultural norms and relationships		✓

National Standards of Learning Outcomes for Bachelor Program (UAENQF LEVEL 7)	Program Learning Outcomes of Doctor of Dental Surgery	
Role in context	PLO 3	PLO 4
1. Can function with full autonomy in technical and supervisory contexts and adopt para-professional roles with little guidance		✓
2. 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 specialization in field of work or discipline	✓	
3. Can participate in peer relationships with qualified practitioners and lead multiple, complex groups	✓	
4. Can take responsibility for managing the professional development and direct mentoring of individuals and groups		✓

National Standards of Learning Outcomes for Bachelor Program (UAENQF LEVEL 7)	Program Learning Outcomes of Doctor of Dental Surgery	
	PLO 5	PLO 6
Self-development		
1. Can self-evaluate and take responsibility for contributing to professional practice, and undertake regular professional development and/ or further learning can manage learning	✓	✓
2. Can manage learning tasks independently and professionally, in complex and sometimes unfamiliar learning contexts	✓	
3. Can contribute to and observe ethical standard		✓

Admission Requirements

Admission is based on the following requirements:

1. A UAE secondary school certificate, Advanced Stream - MOE, or its equivalent, with a grade of not less than (80 percent). with minimum score of (80%) in chemistry, Biology and physics in Grade 12.
2. English proficiency test (TOEFL score of 500 or above, or the equivalent)
3. Personal interview
4. Health Fitness Certificate

Career Opportunities

Graduates of the College will have a wide range of career opportunities to choose from, in addition to continuing higher education (Masters and PhD degrees) in one of the following specialties: Endodontics, Periodontics, Prosthodontics, Operative Dentistry, Pediatric Dentistry, Orthodontics, Implantology, Oral Pathology, Aesthetic Dentistry, Oral and Maxillofacial Surgery, Dental Public Health, Oral Radiology and Oral Medicine Graduates may wish to take advanced courses in Oral Surgery, Implantology and other clinical specialties, or they may choose to work in research facilities.

Those who prefer to practice in UAE will be able to do so provided that they pass the UAE Licensing Exams. Graduates are subject to the regulations of the UAE licensing authorities with regard to the type of examination and certification criteria.

Graduation Requirements

Students will be awarded the Doctor of Dental Surgery (DDS) degree upon fulfillment of the following requirements:

1. Completing successfully the required credit hours (199 Credit Hours), including the University requirement courses, with an accumulative grade point average (AGPA) not less than C, otherwise students should take, during the following semester(s), clinical subjects as suggested by the academic advisor to fulfill this graduation requirement.

2. Completing successfully the required clinical cases during the clinical phase in addition to the mandatory two months internal clinical training during summer.
3. Submitting and defending a research project before an academic committee of the College.

Degree requirements

The Doctor of Dental Surgery (DDS) degree requires the completion of 199 Credit Hours, distributed according to the following plan:

Type of Courses	Credit hours
1. University General Education Requirements	24
• (a) University Required Courses	15
• (b) University Elective Courses	9
2. College Requirements	175
Total	199

University General Education Requirements

(a) University Compulsory Courses (15 Credit Hours)

Course No.	Course Title	Cr. Hrs.	Prerequisite
0102110	Islamic Culture	3	–
0102140	Communication skills in Arabic Language	3	–
0103110	Statistics	2	2
0117140	Environmental Sciences	3	–

(b) University Elective Courses (9 Credit Hours)

Field	Course No.	Course Title	Cr. Hrs.
Social or Behavior Science (3 Cr. Hrs.)	**0115130**	General Psychology	3
	0115160	Emirates Society	3
	0114110	Economic Concepts	3
	0119120	Introduction to communication Sociology	3
	0119130	Information Society	3
	0114120	Entrepreneurship Development	3
	0119110	English Communication Skills	3
	107110	Critical Thinking	3
	104130	Information Literacy	3
	119140	Media Culture	3
	107150	Family System	3
Humanities or Arts (3 Cr. Hrs.)	**115150**	The Art of Written Expression	3
	112110	Principles of Architecture and Art	3
	118110	Principles of Ethics	3
	112130	Introduction to Aesthetics	3
	112140	Introduction to Art	3
	107130	Introduction to Digital Photography	3
	102120	French Language	3
	0120110	Legal Culture	3
Natural Sciences Applied	**0115110**	History of Science in Islam	3
	0115120	Scientific Pioneering	3
	0112130	Modern Technology and Society	3
	0115140	Principle of Mathematics	3
	0115170	Educational Technology	3
	0118130	Oral Health	3

	0117120	Fundamentals of Human Nutrition	3
	0117130	First Aid	3
	0103130	Research Methodology	3
	0117120	Applications of Remote sensing and GIS	3
	0107120	Technical Writing	3
	0113110	Internet Concepts	3
	0113120	Introduction to Information System	3

Proposed Sequence of Study

Semester 1

Course No.	Course Title	Contact and Credit Hrs.			Prerequisite
		Lec	Lb/T	Cr. Hrs.	
0103110	Statistics	2	2	3	xxx xxx
0104110	Computer Applications	2	2	3	xxx xxx
0120101	Physics (Dentistry) *	3	-	3	xxx xxx
0700126	General Chemistry (Dentistry) *	2	2	3	xxx xxx
0801110	English for Special Purposes (Dentistry)	3	-	3	xxx xxx
0801111	Integrated Biological Sciences I *	2	2	3	xxx xxx
0801112	Histology and Cell Biology *	2	2	3	xxx xxx
Total		16	10	21	

* THIS IS A FOUNDATIONAL COURSE FOR THE DDS PROGRAM. EVERY DENTAL STUDENT MUST PASS THIS COURSE BEFORE PROCEEDING TO THE CLINICAL COMPONENT OF THE DEGREE PROGRAM.

Semester 2

Course No.	Course Title	Contact and Credit Hrs.			Prerequisite
		Lec	Lb/T	Cr. Hrs.	
0102140	Communication Skills in Arabic Language	3	-	3	xxx xxx
0700236	Biochemistry (Dentistry) *	3	2	4	0700126
0801121	Integrated Biological Sciences II *	3	2	4	0801111
0801122	Oral Histology *	3	2	4	0801112
0801123	Head and Neck Anatomy I *	2	2	3	0801111
xxx xxx	Elective Course	3	-	3	xxx xxx
Total		17	8	21	

* This is a foundational course for the DDS program. Every dental student must pass this course before proceeding to the clinical component of the degree program.

Semester 3

Course No.	Course Title	Contact and Credit Hrs.			Prerequisite
		Lec	Lb/T	Cr. Hrs.	
0102110	Islamic Culture	3	-	3	xxx xxx
0700239	Pharmacology I (Dentistry) *	2	-	2	0801121
0801210	Psychology and Behavioral Sciences	3	-	3	xxx xxx
0801213	Head and Neck Anatomy II *	2	2	3	0801123
0801214	Microbiology and Immunology *	3	2	4	xxx xxx
0801215	Pathology *	3	1	3	0801112
0802213	Biomaterials *	2	1	2	0120101
Total		18	6	20	

* This is a foundational course for the DDS program. Every dental student must pass this course before proceeding to the clinical component of the degree program.

Semester 4

Course No.	Course Title	Contact and Cr. Hrs.			Prerequisite
		Lec	Lb/T	Cr. Hrs.	
0700240	Pharmacology II (Dentistry) *	2	-	2	0700239
0801226	General Medicine and Infectious Diseases *	4	1	4	0801214, 0801215
0801227	General Surgery and ENT *	2	1	2	0801123, 0801215
0802221	Introduction to Oral and Dental Diseases	2	2	3	0801215
0802222	Dental Anatomy and Occlusion *	3	2	4	0801123
0802228	Four Handed Dentistry and Infection Control*	2	-	2	0801214
0804221	Oral Radiology I *	2	2	3	0120101, 0801123
Total		17	8	20	

* This is a foundational course for the DDS program. Every dental student must pass this course before proceeding to the clinical component of the degree program

Semester 5

Course No.	Course Title	Contact and Credit Hrs.			Prerequisite
		Lec	Lb/T	Cr. Hrs.	
0802315	Pre-Clinical Operative Dentistry I *	2	3	3	0802213, 0802222
0802316	Pre-Clinical Prosthodontics I *	2	6	4	0802213, 0802222
0802317	Pre-Clinical Endodontics I *	1	3	2	0802213, 0802222
0803311	Preventive Dentistry and Nutrition	3	2	4	0801226, 0802221
0803312	Pre-Clinical Pediatric Dentistry I *	2	-	2	0802221
0804312	Pre-Clinical Periodontics I *	1	1	1	0801122
0804313	Pre-Clinical Oral Surgery I and Pain Control*	2	2	2	0700240, 0801210, 0801214, 0801227
0804314	Oral Pathology I *	2	2	3	0801215, 0802221
Total		15	19	21	

* This is a foundational course for the DDS program. Every dental student must pass this course before proceeding to the clinical component of the degree program.

Semester 6

Course No.	Course Title	Contact and Cr. Hrs.			Prerequisite
		Lec	Lb/T	Cr. Hrs.	
0802325	Pre-Clinical Operative Dentistry II *	2	3	3	0802315
0802326	Pre-Clinical Prosthodontics II *	2	3	3	0802315, 0802316
0802327	Pre-Clinical Endodontics II *	1	3	2	0802317
0803322	Pre-Clinical Pediatric Dentistry II *	1	3	2	0803312
0803323	Pre-Clinical Orthodontics *	1	3	2	0801122, 0802222
0804322	Pre-Clinical Periodontics II *	1	3	2	0804312
0804323	Pre-Clinical Oral Surgery II and CPR *	3	2	3	0801226, 0804313
0804324	Oral Pathology II *	2	2	3	0804314
Total		13	22	20	

* This is a foundational course for the DDS program. Every dental student must pass this course before proceeding to the clinical component of the degree program.

Semester 7

Course No.	Course Title	Contact and Credit Hrs.			Prerequisite
		Lec	Cl/T*	Cr. Hrs.	
0802415	Clinical Operative Dentistry I	1	4	2	
0802416	Clinical Prosthodontics I	1	4	2	All
0802417	Clinical Endodontics I	1	4	2	
0803412	Clinical Pediatric Dentistry I	1	4	2	Pre-Clinical
0803413	Clinical Orthodontics I	1	4	2	
0804410	Oral Diagnosis / Oral Medicine	2	4	3	
0804412	Clinical Periodontics I	1	4	2	Courses
0804413	Clinical Oral Surgery I	1	4	2	0801210
0804411	Oral Radiology II	1	2	2	0804221
Total		10	34	19	

* Four (04) Clinical Training Hours=1 Credit Hour

Semester 8

Course No.	Course Title	Contact and Credit Hrs.			Prerequisite
		Lec	Cl/T*	Cr. Hrs.	
0103130	Research Methodology	3	-	3	0103110
0802425	Clinical Operative Dentistry II	1	4	2	0802415
0802426	Clinical Prosthodontics II	1	4	2	0802416
0802427	Clinical Endodontics II	1	4	2	0802417
0803422	Clinical Pediatric Dentistry II	1	4	2	0803412
0803423	Clinical Orthodontics II	1	4	2	0803413
0804422	Clinical Periodontics II	1	4	2	0804412
0804423	Clinical Oral Surgery II	1	4	2	0804413
Total		10	28	17	

* Four (04) Clinical Training Hours=1 Credit Hour

In-Campus Clinical Training Program *: (Held at the end of the eighth semester)

Course No.	Course Title	Contact and Cr. Hrs.			Prerequisite
		Lec	Cl/T	Cr. Hrs.	
0805435	Internal Clinical Training Fourth Year	-	20	2	All Clinical Courses

Semester 9

Course No.	Course Title	Contact and Cr. Hrs.			Prerequisite
		Lec	Cl/T*	Cr. Hrs.	
0802510	Ethics	1	-	1	xxx xxx
0802511	Geriatric Dentistry	1	-	1	All Clinical Courses
0802519	Clinical Dentistry I	-	24	6	All Clinical Courses
0803510	Applied Biostatistics	2	-	2	0103110
0804515	Emergency Dental Care	1	4	2	All Clinical Courses
0804518	Implantology	1	1	1	All Clinical Courses
0805511	Treatment Planning and Seminars I	2	-	2	0804324, 0804410
xxx xxx	Elective Course	3	-	3	xxx xxx
Total		11	29	18	

* Four (04) Clinical Training Hours=1 Credit Hour

Semester 10

Course No.	Course Title	Contact and Cr. Hrs.			Prerequisite
		Lec	Cl/T*	Cr. Hrs.	
0802529	Clinical Dentistry II	-	28	7	0802519
0804526	Hospital Dentistry	-	8	2	0804515
0804527	Lasers and Modern Technology	1	1	1	0804422, 0804423
0805521	Treatment Planning and Seminars II	2	-	2	0805511
0805522	Research Project	1	-	1	0803510
0805523	Practice Management	1	-	1	xxx xxx
0805524	Equipment Maintenance	1	1	1	xxx xxx
xxx xxx	Elective Course	3	-	3	xxx xxx
Total		9	38	18	

* Four (04) Clinical Training Hours=1 Credit Hour

Internal Clinical Training Program *: (Held at the end of the tenth semester)

Course No.	Course Title	Contact and Credit Hrs.			Prerequisite
		Lec	Cl/T	Cr. Hrs.	
0805535	Internal Clinical Training Fifth Year	-	20	2	All Clinical Courses

Doctor of Dental Surgery Courses Description

1) 0120 101 Physics / Dentistry (3 cr. /hrs.)

The course is designed to cover the basic concepts in most branches of classical mechanics, electricity and thermodynamics as well as some of modern physics concepts applicable to x-ray, lasers and radioactivity. Finally, x-ray, lasers, radioactivity and applications of these concepts in dentistry will also be covered.

2) 0700 126 General Chemistry / Dentistry (3 cr. /hrs.)

This course presents the fundamentals of certain topics in general chemistry. It includes two major parts: Part I is the general part, and Part II is the organic part. The general part will introduce the student to basic aspects of general chemistry, i.e. the atomic structures, electronic configuration, periodic table of elements, chemistry of metals, and the fundamentals of chemical bonds and chemical reactions. The organic part covers some important areas in organic chemistry, which include aliphatic and aromatic hydrocarbons, stereochemistry, as well as some functional groups, e.g.: alcohols, phenols, carbonyl compounds.

3) 0700 236 Biochemistry / Dentistry (4 cr. /hrs.)

The course is designed to provide a comprehensive survey of the major topics in biochemistry. It explores how the structure of proteins, carbohydrates, lipids, nucleic acids, and vitamins relates to their function. Metabolism and energy production as well as biosynthesis of small and macromolecules is discussed. Special topics such as Calcium metabolism, bone mineralization, and Dental caries are included.

4) 0700 239 Pharmacology-I / Dentistry (2 cr. /hrs.)

This course will introduce the general aspects of pharmacokinetics and pharmacodynamics. Students will also learn basic pharmacotherapy for relevant

disorders of cardiovascular system, CNS, endocrine system, gastrointestinal system, including asthma and drugs of abuse that are pertinent to practice of dentistry.

5) 0700 240 Pharmacology-II / Dentistry (2 cr. /hrs.)

This course is designed to teach the students the various drugs used to control the pain and anxiety of dental patients as well as those used for treatment of different oral conditions. A special emphasis is made on the clinical indications, dosage, potential side effects and drug-interactions. The course will also highlight the importance of standard practice in prescription writing to ensure both effectiveness of the treatment and patient safety.

6) 0801 110 English for Special Purposes – Dentistry (3 cr./hrs.)

This course aims at preparing the students of Dentistry College to cope with the kind of English needed in the real life situations and field of specializations in the future. It enables the students to practice the four skills. The course develops the students' competence through using the language resource room, CD ROMs, the internet and some other audio-visual facilities.

7) 0801 210 Psychology and Behavioral Sciences (3 cr. /hrs.)

This course aims at providing dentistry students with an insight of psychology, and helps them to observe, evaluate and explain the behavior of people in relation to oral/dental health care in particular. The students are provided with information regarding basic psychological concepts, psychological disturbances and disorders, management techniques and their application specifically in the field of dentistry and healthcare. It is designed to be helpful to dental students by providing them an understanding of the people (patients and dental team members) they will come across in their dental practice/career. This will allow them to better understand the feelings and thoughts of their patients and help them relax and be comfortable during dental treatments.

8) 0801 111 Integrated Biological Sciences – I (3 cr. /hrs.)

This course deals with the study of two complementary branches of biology, human anatomy and human physiology which provide the basic concepts helping dental students understand how the human body is developed, the way it is built up and how it works. Objectives of this course are to develop the foundational knowledge and basic concepts necessary to independently perform the diagnostic and clinical skills.

9) 0801 121 Integrated Biological Sciences-II (4 cr. /hrs.)

This course is intended to help the dental students to understand the basic concepts of Anatomy and Physiology simultaneously, with emphasis on topics related to the dental practice. The course covers the study of the main body systems with great emphasis on the applied and the practical aspects. The teaching tools include CD presentations, Power points presentations, videotapes and Internet explorations.

10) 0801 112 Histology and Cell Biology (3 cr. /hrs.)

This course provides students with general knowledge about the cell and various cellular organelles, and the characteristic structure of each organelle that enable it to perform essential functions within the cell. The students are also provided with wide knowledge concerning the morphological features of the four primary tissues and recognize their roles in forming organs. A basic knowledge of cell division, general embryology and genetics integrates the above information.

11) 0801 122 Oral Histology (4 cr. /hrs.)

This course describes in details the development and structure of the oral cavity and teeth. Students are provided with the basic concepts of oro-facial development and structures. The microscopic, histological and ultrastructural organizations of soft and hard oral tissues are studied in details. A considerable knowledge of functional and clinical correlation is also stressed.

12) 0801 123 Head and Neck Anatomy I (3 cr. /hrs.)

The course is intended to help the dental student to study and understand the basic terms and facts about the gross anatomy of the head and neck region of human body. The course includes the study of the detailed structures of the skull, the head and their nerve and blood supply. Also, the course includes full descriptions of the various muscles and glands of the face, orbit, nasal cavity, oral cavity, floor of the mouth, palate and tongue. In general, the course will provide the dental student with the fundamental detailed structures of the skull and head as related to dental practice.

13) 0801 213 Head and Neck Anatomy II (3 cr. /hrs.)

The course deals with the description of the head and neck region including brain and spinal cord. The main elements are the nerves and vessels, lymphatic drainage, fascial spaces and muscles of neck, the pharynx and larynx with special reference to the anatomical basis of the management of upper airway obstruction and related radiology. Further it provides the relevant details of pain physiology, brain, spinal cord their development and cranial nerves function and test. In general, the course will provide the basis to the dental practice involving the anatomical structures.

14) 0801 214 Microbiology and Immunology (4 cr. /hrs.)

The course covers the fundamentals of microbiology with emphasis on oral microbiota, pathogens and defense mechanisms in the dental environment. The basics of immunology including the immune system and organisms of medical and dental significance; virus structure and classification, viral pathogenesis and mechanisms of host defense; hygiene covering pathogenesis of bacterial, infections, etiology, clinical picture, lab diagnosis, treatment, prevention and control of diseases caused by the different bacteria, are also discussed.

15) 0801 215 Pathology (3 cr. /hrs.)

This course covers the fundamentals of the basic disease process in the body. Students are provided with gross, microscopic and biochemical features of different pathological conditions. Objectives of this course are to study and understand different pathogenic processes in details in order to establish a sound foundation for clinical practice in dentistry. Teaching tools include power point plus projection, practical lessons with CD presentations and internet explorations.

16) 0801 226 General Medicine (4 cr. /hrs.)

This comprehensive course covers topics specific to the medical field, with interest to medically compromised patient as related to dental care. Students are provided with basic concept of general medical and infectious diseases. Teaching tools include: power point plus projection, practical lessons with CD presentations and internet explorations.

17) 0801 227 General Surgery and ENT (2 cr. /hrs.)

The course is intended to help dental students to study and understand the basic principles of surgery and ENT in relation to Dentistry and Oral and maxillofacial Surgery. The course includes the knowledge of the theoretical and practical approaches to the assessment of surgical and how to perform an effective risk assessment preoperatively based on the information obtained from case history, clinical examination, investigations in relation to the anaesthetic potential risks and also the invasiveness of the planned surgery. Also, the student will identify the pathology of tumors, cysts, fistulae, sinuses and ulcer in head and neck region. Information about trauma, tissue repairs and preoperative management of inpatients like administered fluids, water balance monitoring and indications and possible complications of blood transfusion are also included within the course. In addition, the student will study the various common diseases of the ear, nose, paranasal sinuses and pharynx. Finally, the students will learn the common postoperative complications seen in surgical patient whether due to anaesthesia, the surgical intervention or those initiated or aggravated by the existing morbid conditions of surgical patients.

18) 0802 221 Introduction to Oral and Dental Diseases (3 cr. /hrs.)

This is an introduction to profession of dentistry. This course provides students with knowledge and understanding of oral and dental diseases, their etiology, pathogenesis and different stages of these lesions and their clinical manifestations.

19) 0802 222 Dental Anatomy and Occlusion (4 cr. /hrs.)

This course deals with nomenclature as related to the morphology of the natural dentition. It includes theory related to the morphology of the deciduous and permanent teeth in the human dentition and features related to the normal occlusion. Laboratory exercises include wax-adding and carving to build up the crowns of permanent teeth, analyze occlusal patterns and correct occlusal disharmonies. Its significance is integrated with dental treatment in Operative dentistry, Endodontics, Prosthodontics,

Periodontics and Orthodontics. This course will help students in diagnosing dental disorders affecting the crowns or roots of human teeth and thus forms a basic foundation to the understanding of clinical dentistry. The study of occlusion part of this course involves the whole masticatory system, it includes the static relationship of teeth as well as the functional inter-relationship between teeth, periodontal, tissue, jaws, temporomandibular joints (TMJ), muscles and nervous system.

20) 0802 213 Biomaterials (2 cr. /hrs.)

The course is designed to provide students with knowledge to define and memorize the physical, chemical, and biological properties of dental materials. The program emphasizes on employment of concepts in modern materials science to solve problem of dental treatment.

21) 0804 221 Oral Radiology-I (3 cr. /hrs.)

This course discusses the basic principles of X-ray production, the biological effects of ionizing radiation and radiation safety. This course demonstrates the intra oral and extra oral radiographic techniques and prepare the Students learn to take and interpret radiographs, and perform initial screening, examination and diagnosis. The course is integrated with different dental specialties. Objectives of this course are to develop the fundamental knowledge of x-ray production and skill to independently perform the radiographs and interpretation of radiographic normal anatomy.

22) 0802 315 Pre-Clinical Operative Dentistry I (3 cr. /hrs.)

The main components of this course are the principles of cavity preparation for the currently available restorations according to their physical and manipulative characteristics and the steps of cavity restorations. The restorative department during the two semesters of the third year provides them.

23) 0802 325 Pre-clinical Operative Dentistry II (3 cr. /hrsr.)

This course consists of two main components, the principle of cavity preparations for the currently available restorations and their physical and manipulative characteristics and cavity restorations. The restorative department during the two semesters of the third year provides them.

24) 0802 316 Pre-Clinical Prosthodontics I (4 cr. /hrs.)

This is a dental technology course consist of lectures and pre-clinical laboratory practical sessions. Terminology, nomenclature, theories, principles, concepts and basic techniques necessary for the construction of complete denture service will be presented. The course is designed to prepare the student to understand the biological, esthetic and mechanical aspects of complete dentures treatments. Correlation of basic science concepts as related to mechanical and clinical conditions will be stressed.

25) 0802 326 Pre-Clinical Prosthodontics II (3 cr. /hrs.)

This course provides both didactic and practical sessions in dental technology. Students will be introduced to the dental skills laboratory (phantom head or the simulator). Lectures cover all the procedures of teeth preparation for fixed restorations, and the use of equipment and instruments needed for the construction of all types of fixed prosthodontics. More emphasis will be directed to the principles of tooth preparation. Included in the course a practical sessions for the training of the students on how to prepare abutment teeth, apply impression techniques and making provisional restorations.

26) 0802 317 Pre-Clinical Endodontics I (2 cr. /hrs.)

The theoretical part covers topics which include an introduction to the subject, anatomy and morphology of the root canal system, access cavity preparation, cleaning and shaping of the root canal systems and it lays emphasis on possessing thorough knowledge of the various endodontic instruments. The pre-clinical practical component focuses on the treatment of anterior and premolar teeth. This prepares and enables students to be competent in treatment of clinical endodontic cases in the next year.

27) 0802 327 Pre-Clinical Endodontics II (2 cr. /hrs.)

The theoretical part covers topics which include root can obturation, endodontic microbiology, endodontic mishaps management, pulp and periapical pathology, diagnosis and diagnostic procedures. The pre-clinical lab/practical component focuses on performing endodontic procedures on molars. This prepares the students to perform basic endodontic procedures prior to entering the clinics in next year.

28) 0802 228 Four Handed Dentistry and Infection Control (2 cr. /hrs.)

Four Handed Dentistry

This course describes the concept and advantages of four handed dentistry. It describes the ergonomic position for the patient, dental assistant and doctor and explain the responsibilities of the dental assistant during clinical dental work. The course also describes the ergonomic arrangement of dental clinic.

Infection Control:

This course explains the different ways of transmission of infectious diseases and emphasis on the immunization of all oral health care providers. The course describes the sterilization methods in dental practice, application of protective barriers, personal protective equipment and infection control during all clinical dental procedures.

29) 0803 311 Preventive Dentistry and Nutrition (4 cr. /hrs.)

The Preventive Dentistry and Nutrition course introduces the student to the principles and methods of prevention including information on etiology of dental caries, periodontal diseases and methods of preventing and controlling dental diseases through a preventive treatment plan and health education programs. In addition, this course provides the students with a basic knowledge of the essential nutrient materials

in both health and disease, and discusses the role of the nutrition on the development, prevention and treatment of the oral and dental diseases.

30) 0803 312 Pre-Clinical Pediatric Dentistry I (2 cr. /hrs.)

This course introduces pediatric dentistry as an essential branch of dentistry related to child patients mainly focusing on the development and growth of oral/facial structures of children and recognizing the chronology of primary and permanent dentition. Different types of dental anomalies have been described with their genetic aspects. Child abuse and neglect are discussed in relation to pediatric dentistry. Psychological management, examination, diagnosis and treatment planning of child patient are introduced.

31) 0803 322 Pre-Clinical Pediatric Dentistry II (2 cr. /hrs.)

This course discusses radiographic as well as local anesthetic techniques used for child patient which needs specific modifications. Management and treatment of dental caries with different types of cavity preparations have been discussed. Also it describes vital and non –vital pulp therapy for primary teeth which considered an important issue in restoration and prevention of primary teeth extraction, on the other hand in case of loss of the primary teeth it is necessary to plan arch space analysis and construction of space maintainer to prevent space loss.

32) 0803 323 Pre-Clinical Orthodontics (2 cr. /hrs.)

The course will introduce the third year dental student to the fundamentals of orthodontics, including topics on the concepts of growth and development of the craniofacial structures, etiology of orthodontic problems, biological basis of orthodontic therapy, and clinical features of different malocclusions. This course is also designed to give the student a basic understanding of the skills required to fabricate removable orthodontic appliances that are typically indicated for limited tooth movement and retention in interceptive orthodontics.

33) 0804 312 Pre-Clinical Periodontics-I (1 cr. /hrs.)

This course describes in details the anatomy of periodontium and associated structures. Students are provided with the basic concepts of periodontal health. The microscopic, histological and ultrastructural organizations of soft and hard oral tissues are studied in detail. Basic knowledge of functional and clinical correlation is also stressed.

34) 0804 322 Pre-Clinical Periodontics-II (2 cr. /hrs.)

In this course lectures and practical training are given to students to expose them to immune response (host response) and periodontal pathogenesis. A complete spectrum of periodontal lesions and their pathogenicity, plaque control, trauma from occlusion, food impaction and halitosis are to be stressed.

35) 0804 313 Pre-clinical Oral Surgery-I and Pain Control (2 cr. /hrs.)

This preclinical course introduces the student to oral surgery and prepares him/her for clinical experience with dentoalveolar surgery. The student will learn to assess the patient, diagnose and treat basic oral surgical problems encountered in general practice. In addition to this, the goal of this course is to learn the pharmacology and toxicology of dental local anesthetic drugs and the proper techniques for their administration during dental extraction and related procedures.

36) 0804 323 Pre-Clinical Oral Surgery-II and C.P.R (3 cr. /hrs.)

The purpose of this course is to prepare the student to recognize advanced oral and maxillofacial surgery problems. Upon the completion of this course, the student will be able to formulate diagnosis and treatment plans in order to provide surgical care within the context of a patient-centered system of care delivery. In addition, this course will promote surgical principles and techniques to correct the pathologic conditions mentioned here. The course also emphasizes the principles and application of skills in basic life support, external cardiac compression and the emergency medical systems. Students will learn how to evaluate and treat a patient who sustains cardiac arrest in the dental office or an airway obstruction, through the techniques of CPR and Foreign Body Airway Obstruction.

37) 0804 314 Oral Pathology-I (3 cr. /hrs.)

This course deals with the understanding of the basic disease processes affecting the head and neck regions. The etiopathogenesis, clinical features and histopathologic features of developmental disorders, non-odontogenic and odontogenic lesions, cysts and infections related to the teeth, their supporting structures, jaw bones and soft tissues in and around the oral cavity will be dealt with. It also includes the oral manifestations of systemic diseases, like mucocutaneous disorders. The differential diagnosis and prognosis of various pathologies will also be considered.

38) 0804 324 Oral Pathology-II (3 cr. /hrs.)

This course is a continuation of Oral Pathology I. Students will continue learning the etiopathogenesis, clinical features and histopathologic features of non-odontogenic and odontogenic lesions, cysts and tumours related to the teeth, their supporting structures, jaw bones and soft tissues in and around the oral cavity. The oral manifestations of physical and chemical injuries to the oral tissues will also be detailed. The differential diagnosis and prognosis of various pathologies will also be considered.

39) 0804 411 Oral Radiology-II (2 cr. /hrs.)

The course deals with the acquisition and interpretation of radiographic imaging studies performed for diagnosis of conditions affecting the oral and maxillofacial region and assist in treatment planning.

40) 0802 415 Clinical Operative Dentistry-I (2 cr. /hrs.)

The course of operative dentistry consists of the diagnosis, prevention, treatment, and prognosis of the diseases and injuries inflicted upon the teeth. Also includes the study of basic concepts of restoration relation to oral and dental tissues and the various restorative materials. The curriculum includes both didactic and clinical components over a period of two semesters, and involves a clinical training program. The clinical training program for two semesters involves a clinical application of principles and skills acquired, based on a comprehensive approach in the oral health care.

41) 0802 425 Clinical Operative Dentistry-II (2 cr. /hrs)

The course of operative dentistry consists of the prevention, diagnosis, treatment, and prognosis of the diseases and injuries inflicted upon the teeth. It serves as a defining clinical experience for the dental students by providing them with the opportunity to participate in the evaluation and management of discolored, fractured and endodontically treated teeth. The curriculum includes both didactic and clinical components, and involves a clinical training program. The clinical training program involves a clinical application of principles and skills acquired, based on a comprehensive approach in the oral health care.

42) 0802 416 Clinical Prosthodontics-I (2 cr. /hrs.)

This course consists of two main components - complete denture, and removable partial denture prosthodontics. Prosthodontic treatment planning principles are provided in lectures and the group seminars. The didactic component focuses on planning and integrating removable prosthodontic interventions within a continuum of comprehensive patient care. The clinical instructors will ensure that the knowledge acquired in the preclinical years of studying is towards evidence-based decision making regarding prosthodontic management of patients partially and completely edentulous jaws. The course will be presented in lectures and clinical sessions, the lectures cover various clinical techniques, the manipulation of dental materials, and how to use dental instruments and equipment.

43) 0802 426 Clinical Prosthodontics-II (2 cr. /hrs.)

The clinical fixed partial denture prosthodontics course consists of the theoretical part and the clinical training. The students should know how to do clinical examination, proper diagnosis and sound treatment plan. At the end of this course all students will be familiar with the best techniques of fixed partial dentures treatment, and will develop their manual dexterity in all clinical aspects for the construction of this type of prosthesis. Every student should complete all the requirements needed, recognize the importance of the preservation of the prepared teeth, periodontal tissues, and other soft tissues of the oral cavity while performing all types of restorations.

44) 0802 417 Clinical Endodontics-I (2 cr. /hrs.)

This Course aims to enable the students to diagnose the need for endodontic therapy. Previous endodontic courses presented a biologic foundation relating to endodontic clinical diagnosis. Students are provided with the basic concepts of diagnosis and treatment planning including medically compromised patients. Advanced endodontic techniques and/ or treatment modalities for the following conditions are also discussed: endodontic retreatment, apexification and apexogenesis, internal and external resorption, traumatic injuries to teeth.

45) 0802 427 Clinical Endodontics-II (2 cr. /hrs.)

This Course aims to enable the students to gain knowledge and experience in endodontic treatment. Students are provided with the techniques used to determine success or failure of Endodontic treatment and the indication and contraindication of endodontic surgery, describing procedures and materials. Advanced endodontic techniques and/ or treatment modalities for the following conditions are also discussed: single visit root canal therapy, bleaching of discolored teeth, restoring endodontically treated teeth and relationship of orthodontic treatment, periodontal lesion to endodontic treatment.

46) 0803 412 Clinical Paediatric Dentistry-I (2 cr. /hrs.)

This course will reinforce basic knowledge developed during third year preclinical course, and facilitate continued development as the student performs routine pediatric dentistry procedures commonly employed in general dental practice. This course will also provide the fourth year dental student with a defining clinical experience that will include: diagnosis, prevention and treatment of the different pathological conditions in pediatric patients; classification, diagnosis and management of different traumatic injuries of oral and dental structures in primary and permanent teeth. Objectives of this course are to develop the foundational knowledge, skills and values necessary to independently perform diagnostic and clinical skills and participate safely in the care of pediatric patients.

47) 0803 422 Clinical Paediatric Dentistry-II (2 cr. /hrs.)

This course intends to inform and provide the dental student with sufficient knowledge on indications, techniques used in pharmacological methods of child's management including sedation and GA in management of anxious children. This course will also provide the fourth year dental student the team approach for the management of cleft lip and palate child at the level of the undergraduate students, dental management of special health care need children. They are also taught interceptive orthodontic methods in a growing child. Child abuse and neglect are discussed in relation to pediatric dentistry.

48) 0803 413 Clinical Orthodontics-I (2 cr. /hrs.)

This course introduces the dental student to the practice of orthodontics. The primary goal of this experience is to reinforce didactic concepts taught in the third year and build upon them in a manner that will better prepare the student to recognize, communicate and manage orthodontic problems in the general dentistry setting. In this manner, the student will be able to make proper diagnosis and differential diagnosis of patients of all ages, plan and execute the treatment of selected uncomplicated malocclusion cases.

49) 0803 423 Clinical Orthodontics-II (2 cr. /hrs.)

This course is intended to complement the orthodontic lectures and the pre-doctoral orthodontic experience; it will provide for each student to briefly present a clinical case and to view a large number of clinical orthodontic cases and establish combination between orthodontic treatment and the other four dental specialties - Pedodontics, Periodontics, Prosthodontics and Oral Surgery. Multidisciplinary treatment approaches will be discussed in the lectures. Clinically, they will be discussed in the patient examination and diagnosis sessions.

50) 0804 410 Oral Diagnosis and Oral Medicine (3 cr. /hrs.)

This course describes in details the art of history taking, examination, investigation of oro-facial lesions and interpretation of the results of investigations. The course also will help the students to learn etiopathogenesis of local disease processes in orofacial area along with oral manifestation of systemic diseases affecting the oral mucosa. Students are provided with the basic concept of oral manifestation of psychiatric diseases and their management.

51) 0804 412 Clinical Periodontics-I (2 cr. /hrs.)

The lecture and clinical training will prepare the students to understand the clinical phenomena in terms of underlying tissue changes and comprehensive nature of periodontal response to therapy. The course focuses on differential diagnosis, prognosis and treatment planning of different forms of periodontal diseases. The solution of periodontal problems can be incorporated into the practice of dentistry.

52) 0804 422 Clinical Periodontics-II (2 cr. /hrs.)

This course consists of a didactic and clinical component. It will cover: The treatment of different types of periodontal diseases. The interrelation between periodontics and related dental specialties. Introduction to the surgical approaches in the management of moderate to advanced periodontal diseases. To distinguish acute and chronic (mild, moderate and advanced) form of periodontal diseases and management by non-surgical and surgical treatment. To expose the students to focus on objectives of periodontal therapy, treatment planning and techniques including pre-prosthetic, pre-restorative, reconstructive surgery and knowledge necessary for advanced periodontal regeneration procedures.

53) 0804 413 Clinical Oral Surgery-I (2 cr. /hrs.)

This course will reinforce basic knowledge developed during third year preclinical course, and facilitate continued development as the student performs routine oral surgery procedures commonly employed in general dental practice. This course serves as a defining clinical experience for the dental students by providing them with the opportunity to participate in the evaluation and management of surgical patients such as with intraoral lesions, maxillary sinus and salivary gland pathologies to name a few. Objectives of this course are to develop the foundational knowledge, skills and values necessary to independently perform diagnostic and clinical skills and participate safely in the care of surgical patients.

54) 0804 423 Clinical Oral Surgery-II (2 cr. /hrs.)

The purpose of Clinical Oral Surgery II is to prepare the student to recognize advanced oral and maxillofacial surgery problems that in most cases will require referral to an oral and maxillofacial surgeon. Discussions will include diagnostic and treatment considerations relative to cases that require referral to an oral and maxillofacial surgeon as well as those that may be treated by the general dentist. The course will also describe the characteristics and surgical management of the more common trauma, anomalies and malignancies of the oral and maxillofacial region.

55) 0805 511 Treatment Planning and Seminars-I (2 cr. /hrs.)

Problem Oriented Learning (POL) is an instructional strategy to help students acquire and integrate basic science, behavioral, and clinical knowledge in the context of solving a patient problem. POL is one of many instructional techniques used to teach problem solving. Problem Oriented Learning course is designed to give the students the experience to apply lecture materials to life-like situations and allows the student to experience the process as seen in daily clinical practice.

56) 0805 521 Treatment Planning and Seminars-II (2 cr. /hrs.)

This course is developed to give the students the experience to analyze their clinical cases, in order to enhance their clinical capability and patient management using case studies and patients presented by students. Treatment Planning and Seminar II will help the students to acquire and integrate their basic science, behavioral and clinical knowledge in the context of solving a patient's problem, including communication and ethical aspects. Topics presented are in a multidisciplinary field of dentistry, such as ethics, health care delivery, communication skills and practice management. Ethics related cases discussions will provide the needed experience to the dental students to the medico-legal aspects related to their future practice, in the fields of: Medical Ethics, Medical Responsibility and Forensic Medicine.

57) 0805 522 Research Project (1 cr. /hrs.)

The course is designed to enable the student to conduct a research project under the guidance of a teaching faculty. Students learn how to approach a research topic of

interest, apply the basic principles of research design and to formulate the appropriate methodology and analysis for the research.

58) 0802 519 Clinical Dentistry-I (6 cr. /hrs.)

The purpose of this course is to reinforce and refine patient management skills that students have been introduced to in the fourth year courses. It is designed to observe, evaluate, and subsequently assist students in understanding and practicing proper comprehensive patient care and management. This course focuses on refinement and integration of clinical skills. It does not contain any formal theoretical lecturing. Students are assigned in clinical blocks for patient care and treatment planning. These treatment plans and completed treatment are discussed, and are evaluated as to the rationale and sequences used. Taught by an interdisciplinary faculty, this course considers strategies and approaches for the integration of isolated dental procedures into an appropriately sequenced treatment plan for comprehensive patient care.

59) 0802 529 Clinical Dentistry-II (7 cr. /hrs.)

This course is a continuation of Clinical Dentistry I, and does not contain any formal theoretical lecturing. Small group clinical discussions and demonstrations will be taken by the faculty. It is designed to provide students with more clinical experience in the care of patients with a focus on an advanced comprehensive care and treatment planning. Students are assigned in clinical blocks for patient care and treatment planning. All treatment options are discussed so that the student learns the fundamentals of good treatment planning and patient care. Taught by an interdisciplinary faculty, this course considers strategies and approaches for the integration of isolated dental procedures into an appropriately sequenced treatment plan for comprehensive patient care. The course mainly focuses on improving the quality of comprehensive care expected of a graduating student.

60) 0802 511 Geriatric Dentistry (1 cr. /hrs.)

This course focuses on issues and concerns related to the rapidly increasing elderly population. It also provides the student with an understanding of the aging process and the multidisciplinary needs of the older patient. Myths and stereotypes about aging and the aged, which exist and influence the provision of health care to the older population, will be discussed and expelled. It will provide the student with a framework of knowledge about the biological, psychological, sociological, behavioral and general medical aspects of aging from which treatment can be planned and provided appropriately. A multidisciplinary team of speakers will present approaches that will help the student in integrating dental training and practice with the management, diagnosis and treatment of the older patient.

61) 0802 510 Ethics (1cr. /hrs.)

Dental ethics is the systematic and critical study of morality as it pertains to the practice of dentistry. The course consists of 16 hours of classroom lecture and discussion. It is

designed to heighten students' awareness of the importance of ethical issues as they relate to dentistry. The curriculum provides students with an understanding of ethical principles, which have direct relevance to students' training and future practice experience. It focuses on common ethical dilemmas found in the relationships between dentist and patient, between dentists themselves, and between dentist and society.

62) 0803 510 Applied Biostatistics (2 cr. /hrs.)

This course provides the dental students with the necessary background of specific statistics relevant to the medical / dental fields in addition to adequate knowledge of study design in medical and dental research, enabling the dental student to critically evaluate and apply the appropriate statistics to dental and medical research.

63) 0805 523 Practice Management (1cr. /hrs.)

This course is designed to provide the senior dental student with a general introduction to the basic principles of dental practice management. Primary focus will be on developing an understanding of various management concepts, processes and its role in obtaining an effective overall management of dental practice. The topics focused on include staff management, patient management, legal concepts and terminologies, office design, equipment placement, occupational hazard, appointments management, records management, dental insurance system, inventory and supply management.

64) 0805 524 Equipment Maintenance (1cr. /hrs.)

This course focus on basic principles of various dental equipment, their operations and general preventive maintenance procedures. It also covers basic electrical theories and electrical safety precautions while dealing with dental equipment. Additionally, advances in dental equipment technologies will also be covered in this course. This course helps the students to build the required skills and confidence to perform routine maintenance and minor repairs without the help of Biomedical technicians/Engineers.

65) 0804 515 Emergency Dental Care (2 cr. /hrs.)

This course provides a study of dental office emergencies with emphasis on prevention, prompt recognition and effective emergency care. Emphasis is also placed on etiology of common chronic oral diseases, treatment of specific dental emergencies and applicable assessment methods used in the prevention of emergencies related to the particular disease process. The course also deals with the use of emergency drugs and equipment.

66) 0804 526 Hospital Dentistry (2 cr. /hrs.)

Fifth year students are assigned for six weeks to an affiliated hospital. During this rotations, students are assigned to hospitalized patients to reinforce principles of physical diagnosis for patients with severe medical problems, learn to request and answer consultations.

67) 0804 527 Lasers and Modern Technology (1 cr. /hrs.)

This course is designed to provide the students with the fundamentals of laser technology and its use in dental practice including oral and maxillofacial surgery, periodontics, preventive and operative dentistry with more emphasis on the understanding and appreciation of laser safety measures. In addition, this course will introduce the students to some of the latest technologies in the dental field and their applications.

68) 0804 518 Implantology (1 cr. /hrs.)

This comprehensive lecture course presents the scientific basis and clinical applications of modern dental implantology techniques, and cover both the surgical procedures and periodontics and prosthodontics consideration in implant dentistry. Students perform implantology procedures in Lab setting.

69) 805 435 Internal Clinical Training Fourth Year (2 cr. /hrs.)

This clinical course is in the summer semester of the fourth year of the dental curriculum. It is designed to provide students with clinical experience in the care of patients in the areas of Periodontics, Operative Dentistry, Endodontics, Pediatric Dentistry and Oral Surgery with a focus on comprehensive care and treatment planning. There is no theoretical component to this course. Students are assigned patients having various dental problems, and they have to formulate a comprehensive diagnosis and treatment planning, including patient and clinical management.

70) 805 535 Internal Clinical Training Fifth Year (2 cr. /hrs.)

This clinical course is in the summer semester of the fifth year of study. It is designed to provide students with clinical experience in the care of patients in the areas of Periodontics, Operative Dentistry, Endodontics, Pediatric Dentistry and Oral Surgery with a focus on comprehensive care and treatment planning. There is no theoretical component to this course. It reinforces and refines the student's knowledge and skill required for the graduate level of clinical practice of dentistry. Students are assigned patients having various dental problems, and they have to formulate a comprehensive diagnosis and treatment planning, including patient and clinical management. Students are expected to perform comprehensive care at an advanced level from that of the previous summer semester.

Faculty members of the College of Dentistry

University of Science and Technology of Fujairah					
Name	**Rank**	**Specialization**	**Degree**	**Date**	**University**
Dr. Ali Razooqi	Associate Professor (Dean).	Conservative Dentistry	PHD	2005	University of Baghdad, Iraq
Dr. Suleiman M.O	Professor	Paediatric Dentistry	PHD	1989	Dundee University,U.K
Dr. Abdulhadi Warreth	Assistant Professor	Restorative Dentistry and Periodontology	PHD	2007	Trinty College Dublin,Irelanda
Dr. Amani Hamza	Assistant Professor	Oral Pathology	PHD	2014	University of Bergen nor way, Norway
Dr. Eyas Muti	Assistant Professor	Orthodontics	PHD	2005	Ankara Univ., Turkey
Dr. Mohammed Amjad	Assistant Professor	Oral Surgery	PHD	2013	Huazhong University of Science and Technology, China
Dr. Jayaraj K. Narayanan	Clinical Assistant Professor	Physiology	Ph.D.	2011	Westfallische Wilhelm's University, Germany
Dr. Shibu Thomas	Clinical Assistant Professor	Prosthodontics	MDS (Fellowship in implantology From U.C.L.A USA, 2014)	2009	University of Hong Kong, China
Dr. Sudhir Rama	Clinical Assistant Professor	Periodontics	MDS (Fellowship in dental laser, Genwa University 2015)	1997	Mangalore University.India
Dr. Asok Mathew	Clinical Assistant Professor	Oral Medicine and Oral Radiology	MDS (Fellowship in dental laser , Genwa University 2016)	2003	Nagpur University,India
Dr. Israa Awad	Lecturer	Conservative Dentistry	MSC (Fellowship in Advanced Endodontics , Beirut Arab University and Genwa University 2017)	2000	University of Baghdad, Iraq
Shaikha Dr. Maryam Alsharqi	Lecturer	Pediatric Dentistry	MSD CAGS	2012	Baston University Institue For Dental Reasearch and Education,UAE

14 | College of Humanities and Sciences

The College of Humanities and Sciences is the founding college of University of Science and Technology of Fujairah (USTF). As a part of a leading University, the College is a national leader in enhancing educational practice. The College programs help students gain both a high-level education and a practical experience for the real world.

The College of Humanities and Sciences offers three Bachelor Programs in Education, and a Professional Graduate Diploma in Teaching:

- Bachelor of Education in Teacher Training Program in Arabic Language and Islamic Studies (in Arabic)
- Bachelor of Education in Teacher Training Program in Mathematics and Science (in Arabic)
- Bachelor of Arts in Sociology and Social Work
- Bachelor of Arts in Psychology
- Professional Diploma in Teaching (Graduate Program, in Arabic)

In addition, the Department of Mathematics and Science in the College of Humanities and Sciences offers all courses in Basic Sciences such as Mathematics, Physics, and Statistics for students enrolled in the other colleges of the University.

Mission

In line with the vision and mission of University of Science and Technology of Fujairah, the College of Humanities and Sciences constantly endeavors to equip its students with a threefold system of values, knowledge and skills to enable them to acquire the adequate resources and practices, necessary for them to success in their post-university life.

Objectives

1. Preparing class teachers for basic education level (classes 1-9) as well as teachers for the preparatory level core subjects (Arabic and Islamic studies, Math and Science.
2. Preparing individuals specialized in education technology who are capable of helping teachers to develop educational situations.
3. Adding to learners' knowledge and experience in using accurate Arabic language in their work.
4. Helping learners acquire an Islamic culture that can help in guiding students.
5. Showing the importance of Arabic and Islamic civilization and its role in the fields.
6. Helping students acquire psychological knowledge and foundations of curriculum and using the best ways to enhance learning develop.
7. Emphasizing on the importance of different Sciences in developing technology which help solve a lot of education problems.
8. Enabling students to gain the modern education technology and teaching methodology which enables them to solve some education problems.

9. Emphasizing on conducting educational researches that help developing the educational process.
10. Participating in lectures, workshops, forums and local and international conferences.

Department of Mathematics and Sciences

The Department of Mathematics and Sciences shoulders the responsibility of teaching all courses of Mathematics and Physics at the different colleges of the university. Basically, the department offers a Bachelor degree in Education - Teaching Mathematics and Sciences (Bachelor of Education in Teacher Training Program in Mathematics and Science). The program is accredited by the ministry of higher education and scientific research. This program is provided in Arabic Language.

Program Outcomes

1. To apply knowledge of mathematics, sciences and Technology in education.
2. To use basic concepts in Education, Psychology, Teaching Methods and Curriculum Design.
3. To practice the knowledge of mathematics and sciences through differential, integral calculus, and basic sciences necessary.
4. To Practice the basic skills of computer, educational technology and internet efficiently to acquire and present mathematical and sciences knowledge to the learners.
5. To become an independent teacher/learner that recognize the need for engage in life-long learning.
6. To understand the professional and ethical responsibility for being a teacher of mathematics and science.

Admission Requirements

- Certified UAE secondary school certificate or its equivalent, with a minimum average grade 60 percent.
- Passing an interview that is run by the college.

Graduation requirements

- Students are required to complete a total of 132 credit hours and a minimum of 2.0 GPA out of 4.0.
- Students should successfully pass 42 courses.

Career Opportunities

- Teaching in basic level education (classes 1-9).
- Working in institutions related to the areas of media, endowment (Awqaf) authority, legislative courts, educational management etc.

Department of Arabic and Islamic Studies

The Arabic and Islamic Studies program (Bachelor of Education in Teacher Training Program in Arabic Language and Islamic Studies) aims at academically preparing a

generation of graduates; holders of a college degree in Arabic Language and Islamic Studies who are able to participate in the enrichment of the intellectual, cultural, and educational institutions in and out of the UAE. The program reflects the diversity and complexity of the Arabic/Islamic culture and civilization. While studying Arabic Language and Islamic Studies, the students will learn about the linguistics and culture of Arabic across history. They will also learn about the teaching methodology of Arabic language and Islamic studies and using the educational technology and its applications. It helps students realize how Arabic language has grown over centuries. Arabic Language and Islamic Studies can set students off on many career paths; they can become lecturers or teachers. This field, in addition to the teaching profession, can help graduates join the fields of business, journalism, etc. Moreover, the program is accredited by the Ministry of Higher Education and Scientific Research. This program is introduced in Arabic Language.

Admission Requirements

- Certified UAE secondary school certificate or its equivalent, with a minimum average grade 60 percent.
- Passing an interview that is run by the college.

Graduation requirements

- Students are required to complete a total of 132 credit hours and a minimum of 2.0 GPA out of 4.0.
- Students should successfully pass 42 courses.

Career Opportunities

- Teaching in the elementary and secondary schools.
- Working in institutions related to the areas of media, endowment (Awqaf) authority, legislative courts, educational management etc.

Professional Diploma in Teaching (Graduate Program)

Overview

The Professional Diploma program in teaching is offered by the Department of Educational Sciences. The program aims to qualify bachelor's degree graduates who wish to join the teaching profession. It also contributes in improving the qualifications of teachers who are working in the field of education and in developing them educationally. The general objectives and outcomes of the program are derived from the basic educational knowledge and skills that the teacher must have in light of the most recent relevant demands and the international standards.

The program Goals:

1. Provide the learner with the knowledge and skills that are related to the educational qualifications of the areas of: teaching methods, psychology, curricula, classroom management, testing and evaluation.
2. Prepare the learner to be able to obtain the basic professional skills necessary to perform his or her duties successfully.

3. Develop the learner' necessary skills in the use of modern technologies and their applications in the classroom.
4. Develop the learner's social communication skills.
5. Develop the learner's ability to rely on himself or herself and take the appropriate decision at the right time.
6. Apply the scientific research skills and the use of statistical methods in conducting a research.

Learning Outcomes:

On successful completion of the General Education Program the graduate will be able to:

1. Identify the steps to build a curriculum and its components.
2. Apply the principles of teaching and learning theories in the classroom environment or learning situations.
3. Use the technology and learning resources of the learning situation to develop the capacities, knowledge, and skills among students.
4. Implement research and studies that contribute to the development and improvement of education and the learning process.
5. Design achievement tests according to the students' levels and their developmental characteristics.
6. Analyze students' classroom problems and find solutions for them.
7. Employ the results of a research in the professional improvement of the educational process at school.

Admission Requirements

- Certified Bachelor degree from an accredited university or its equivalent with a minimum GPA of 2.0.
- Passing an interview that is run by the college.

Graduation requirements

- Graduate students are required to complete a total of 24 credit hours and a minimum of 2.0 GPA out of 4.0.
- Graduate students should successfully pass 7 courses including the course of practical training and an optional course. The practical training course weights 6 credit hours while all other 6 courses weigh 3 credit hours each.

Career Opportunities

- Teaching in secondary and high schools.
- Working in institutions related to the areas of media, endowment (Awqaf) authority, Sharia courts, educational management, etc.

Faculty members of the College of Humanities and Sciences

University of Science and Technology of Fujairah					
Name	**Rank**	**Specialization**	**Degree**	**Date**	**University**
Dr. Mamdouh Hashim	Assistant Professor Dean	Physics	PhD	1990	Leeds Univ. / UK
Dr. Osama Agamy Rashwan	Assistant Professor	Mathematics	PhD	2000	East Anglia University/UK
Dr. Abdul Hameed Jasim Al-Kubaisy	Assistant Professor	Arabic Language	PhD	1997	Al-Azhar Univ. / Egypt
Prof. Yas Khudair Al- Bayati	Professor	Sociology	PhD	1995	Hungary Scientific Academy \ Hungary
Dr. Faisal Ibrahim Matalkah	Associate Professor	Sociology	PhD	1995	Rajestan University \ India
Dr. Elsayed Mohamed Abdelrahman	Assistant Professor	Sociology	PhD	2003	Juba University \ Sudan
Dr. Asmaa M. Abdelrazek Ahmed	Assistant Professor	Social Work	PhD	2015	Assuit University\Egypt
Dr. Wesam					
Dr. Ahmed Husain Al Sahfey	Associate Professor	Psychology	PhD	1996	Ain Shams University \ Egypt
Dr. Sameh Khamis	Assistant Professor	Psychology	PhD	1997	Helwan Univ. /Egypt

15 | College of Engineering and Information Technology

Department of Electrical and Computer Engineering

Engineering is the profession of applying theories and fundamentals of pure science to solve practical problems and develop new equipment, instruments and techniques to meet the needs of society in a variety of areas such as electrical power, electronics, communication, and interior design.

Mission

Consistent with the University mission, the Department of Electrical and Computer Engineering has been established to provide high quality education in engineering. The College programs focus on teaching students the fundamental principles of engineering and their applications to solving real-world problems. It places special emphasis on developing the technical as well as generic skills of its students so that they are well qualified for gainful employment in their area of specialization and can effectively contribute to the technological advances of the community. The programs also seek to prepare the students to undertake graduate studies in their area of specialization.

Goals

Academic programs of the Department of Electrical and Computer Engineering are designed to produce graduates who are:

- Competent engineers with sound knowledge and professional attitude
- Capable of applying theoretical knowledge to solve practical problems
- Equipped with skills required for productive engineering careers
- Able to perform as individuals and team members
- Proficient in oral and written communication
- Motivated for life-long learning throughout their careers
- Capable of pursuing graduate studies

Programs Offered

The Department of Electrical and Computer offers the following Undergraduate Programs:

- Bachelor of Science in Electrical Engineering/Electronics and Communication
- Bachelor of Science in Electrical Engineering/Power and Renewable Energy

Admission Requirements for Undergraduate Programs

- Admission to the College of Engineering and information Technology requires a UAE secondary school certificate, or its equivalent
- Admission to Bachelor of Science in Electrical Engineering: Electronics and Communication, or Power and Renewable Energy with Advanced Stream - MOE minimum grade (70%) / General Stream - MOE (90%) with minimum score of (90%) in Math and Science in Grade 12, with studying a foundation course in physics.

- Admission to the Interior Design program, Advanced Stream - MOE / General Stream - MOE (60%).

Facilities

Academic Staff

College members hold terminal degrees from internationally-recognized universities and are well versed in their areas of specialization.

Laboratories

The College of Engineering has well-equipped laboratories which provide practical hands-on experience to engineering students of all specializations. The specialized laboratories in the College are as follows:

- Electronics Laboratory
- Communication Laboratory
- Machine Laboratory
- Computer Laboratory
- Project Laboratory

Studios

The College accommodates modern studios equipped with a variety for architectural engineering and interior design students.

Lecture Rooms

Lecture rooms are equipped to facilitate the use of audiovisual aids such as overhead projectors, slide projectors, computer projection devices and video players. Many lecture rooms are also connected to the university computer network.

Other Facilities

College of Engineering students have access to a wide range of university facilities including computer labs, learning and information resources, a bookshop, sports and recreation facilities, cafeteria and clinics.

Training

External training is an essential part of the curriculum of all College of Engineering programs. Students are required to complete external training lasting from three to four months (depending on the program). The College has extensive links with local organizations such as engineering companies, hospitals, power plants, interior design companies and telecommunication firms, who offer on-site external training to engineering students. The aim of the external training program is to enable students to acquire practical skills, gain an understanding of the work environment and improve their communication skills.

Prior to the external training, students of Electrical Engineering programs take part in an internal training program to enhance their practical and professional skills.

Department of Electrical Engineering

Mission

The Department of Electrical Engineering aims to provide high quality electrical engineering education to its students by focusing on developing their technical as well as generic skills so that they are well qualified for gainful employment in electrical engineering discipline and can effectively contribute to the advancement of the community. It also aims to promote research and community engagement as well as prepare its students for graduate studies in electrical engineering.

The Electrical Engineering Program (Bachelor of Science in Electrical Engineering)

The Electrical Engineering program offered by the Department of Electrical Engineering is appropriate to the University mission and its design and composition as well as its delivery and assessment of learning outcomes are in accordance with international academic norms. There is a regular process of assessment and evaluation and the results of such evaluation are regularly utilized for continuous improvement of the program. Its program learning outcomes are appropriate to the level of qualifications awarded and are consistent with the UAE Qualification Framework (QF Emirates).

The EE program requires a total of 142 credit hours for graduation. This includes 3 credit hours for 12 weeks of practical training (internship) in engineering organizations preceded by 2 weeks of intensive internal training in the College of Engineering. A student can complete all the requirements for graduation in a period of four years. For graduation, a student must have cumulative GPA of at least 2.0. Depending upon the chosen concentration, students are awarded degrees as follows:

- B. Sc in Electrical Engineering (Electronics and Communication)
- B. Sc in Electrical Engineering (Power and Renewable Energy)
- Bachelor in Information Systems - Project Management
- Bachelor in Information Systems - Electronic Business Management

The first three years of the study plan will be exactly the same as those of other concentrations and only in the final (fourth) year, students will take some different specialization courses.

Program Goals

The EE Program Goals, also referred to as Program Educational Objectives (PEOs), are stated below. Graduates of EE program shall be:

1. Contributing as productive individuals, team members, and leaders in electrical engineering profession.
2. Updating and adapting their knowledge and abilities in their major field and associated disciplines.
3. Engaging with the community at all levels in an ethical and professional manner.

4. Pursuing graduate studies in electrical engineering and related fields both inside and outside the United Arab Emirates.

Program Outcomes (POs)

The Program Outcomes (POs) are also referred to as Student Outcomes (SOs). To combine both terminologies, these outcomes may also be referred to as Student/Program Outcomes. The EE program has 12 Program Outcomes, stated as A to L, as given below.

a. An ability to apply knowledge of mathematics, science, and engineering
b. An ability to design and conduct experiments, as well as to analyze and interpret data
c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
d. An ability to function on multidisciplinary teams
e. An ability to identify, formulate, and solve engineering problems
f. An understanding of professional and ethical responsibility
g. An ability to communicate effectively
h. The broad education necessary to understand the impact of engineering solution in a global, economic, environmental, and societal context
i. A recognition of the need for, and an ability to engage in life-long learning
j. A knowledge of contemporary issues
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
l. An ability to demonstrate broad knowledge in the field of electrical engineering and specialized knowledge in chosen concentration.

Relationship of Program Outcomes to Program Goals

The Program Goals, based on the needs of its constituents, are broad statements. On the other hand, the Program or Student Outcomes (POs or SOs), derived from Program Goals, are defined in measurable terms and represent the abilities and attributes of students at the time of their graduation. Accordingly, there must be a well-defined relationship between Program Outcomes and Program Goals as the former will assist in attaining the latter. For the EE program, this relationship is given in Table 1 which shows how SOs will prepare graduates to attain the Program Goals. The relationship between Program Outcomes and Program Goals are shown in the following table.

The rationale for the table is as follows:

Goal #1: The most relevant program outcomes are those related to technical competence, i.e. A, B, C, E, K, and L. Outcomes D and G are relevant because teamwork and effective communication play an important role in professional environment.

Goal #2: Outcomes I, K, L are relevant because with their current knowledge and skills as well as ability for life-long learning, graduates will be able to continually update their knowledge and skills.

Goal #3: Outcomes F, H, J are relevant since in addition to an understanding of professional and ethical responsibility, it is also important to have knowledge of contemporary issues and the impact of engineering solutions while engaging with the community at different levels.

Goal #4: For graduate studies all outcomes related to technical competence, i.e. A, B, C, E, K, and L are relevant. In addition, outcomes G and I are important because they relate to communication skills and self-learning ability.

	Program Goals (Abbreviated)			
Program Outcomes	**Goal #1** Productively contributing in EE Profession	**Goal #2** Updating their knowledge and abilities	**Goal #3** Ethical and professional community engagement	**Goal #4** Pursuing graduate studies
A	✓			✓
B	✓			✓
C	✓			✓
D	✓			
E	✓			✓
F			✓	
G	✓			✓
H			✓	
I		✓		✓
J			✓	
K	✓	✓		✓
L	✓	✓		✓

Alignment of Program Outcomes to QF Emirates

The Program Outcomes are consistent with the level of qualification awarded as defined in the UAE Qualification Framework. Out of twelve Program Outcomes, four each are for knowledge, skills, and competencies, as follows:

1. **Knowledge:**
   - An ability to apply knowledge of mathematics, science, and engineering.
   - An ability to identify, formulate, and solve engineering problems.
   - A knowledge of contemporary issues.
   - An ability to demonstrate broad knowledge in the field of electrical engineering and specialized knowledge in chosen concentration.
2. **Skills:**
   - An ability to design and conduct experiments, as well as to analyze and interpret data.
   - An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

- An ability to communicate effectively.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

3. **Competencies:**
   - An ability to function on multidisciplinary teams.
   - An understanding of professional and ethical responsibility.
   - Understanding of the impact of engineering solution in a global, economic, environmental, and societal context.
   - A recognition of the need for, and an ability to engage in life-long learning.

The alignment of Program Outcomes to QF Emirates is shown in the table below:

Program Outcomes	Strand 1 Knowledge	Strand 2 Skills	Strand 3 Autonomy and Responsibility	Strand 4 Role in Context	Strand 5 Self-Development
A. an ability to apply knowledge of mathematics, science, and engineering	X				
B. an ability to design and conduct experiments, as well as to analyze and interpret data		X			
C. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability		X			
D. an ability to function on multidisciplinary teams			X		
E. an ability to identify, formulate, and solve engineering problems	X				
F. an understanding of professional and ethical responsibility				X	
G. an ability to communicate effectively		X			
H. the broad education necessary to understand the impact of engineering solution in a global, economic, environmental, and societal context				X	
I. a recognition of the need for, and an ability to engage in life-long learning					X
J. a knowledge of contemporary issues	X				
K. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice		X			

L. an ability to demonstrate broad knowledge in the field of electrical engineering and specialized knowledge in chosen concentration.	**X**				

Admission Requirements

Admission to the electrical engineering specialization requires a UAE secondary school certificate (Advanced Stream – MOE 70% and General Stream – MOE 90% with minimum score of 90% in Math and Science in Grade 12, with studying a foundation course in physics).

Career Opportunities

Graduates of the electrical engineering pursue careers in a wide range of industries and services, including the electronic and computer industries, industrial manufacturing plants, security control systems, design automation companies, product design and development companies, major service companies for electronic appliances, mobile telephone industry, digital communication and networking industry, television and radio services, telecommunication companies, electrical power generation companies, electrical power distribution services, and renewable energy system design companies.

Graduation Requirements

The Bachelor of Science degree is awarded upon the fulfillment of the following:

- Successful completion of all courses in the program curriculum (139 credit hours)
- Successful completion of 2 weeks of internal training and 12 weeks of external training at engineering companies (3 credit hours)
- The cumulative grade points average CGPA is at least 2.0

Degree requirements

The B.Sc. degree in Electrical Engineering requires the completion of 142 Cr. Hrs. (139 Cr. Hrs of course work plus 3 credit hours of internship distributed as follows:

Type of Courses	Credit Hours
1. University General Education Requirements	**21**
• (a) University Required Courses	15
• (b) University Elective Courses	6
2. College Required Courses	**36**
3. EE Required Courses	**57**
4. Specialization Courses	**19**
5. Graduation Projects I and II	**6**
Total Credit Hours	139

(1) University General Education Requirements

(a) University Compulsory Courses (15 Credit Hours)

Course No.	Course Title	Cr. Hrs.	Prerequisite
1021100	Islamic Culture	3	0
1021400	Communication Skills in Arabic Language	3	0
1031331	Statistics	2	2

1041200	IT Fundamentals	2	2
1141300	Innovation and Entrepreneurship	3	0
1021100	Islamic Culture	3	0

(b) University Elective Courses (Humanities or Arts) (3 credit hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Th.	Lab.	Tut.	Cr. Hrs.	
1201150	Legal Culture	3	0	0	3	-
1121400	Introduction to Art	3	0	0	3	-
1071300	Introduction to Digital Photography	3	0	0	3	-
1091100	Introduction to Aesthetics	3	0	0	3	-
1091200	French Language	3	0	0	3	-
1151500	The Art of Written Expression	3	0	0	3	-
1191400	Academic Writing	3	0	0	3	-
1191500	The Art of Public Speaking	3	0	0	3	-
1021500	Introduction to Hadeeth and Sunna	3	0	0	3	-

(C) University Elective Courses (Social or Behavioral Sciences) (3 credit hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Th.	Lab.	Tut.	Cr. Hrs.	
1141100	Economic Concepts	3	0	0	3	---
1151600	Emirates Society	3	0	0	3	---
1151300	General Psychology	3	0	0	3	---
1191100	English Communication Skills	3	0	0	3	---
1191600	Communication between Cultures	3	0	0	3	---
1131400	Library Information System	3	0	0	3	---
1071400	Critical and Analytical Thinking	3	0	0	3	---

(2) College Requirements (36 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Th.	Lab.	Tut.	Cr. Hrs.	
1031200	Environmental Sciences	3	0	0	3	---
2171010	Engineering Mathematics I	3	0	2	3	---
2171210	Engineering Physics I	3	2	2	4	---
2171410	Chemistry for Engineers	2	2	0	3	---
2131400	Computer Programming	3	0	2	3	1041200
2171020	Engineering Mathematics II	3	0	2	3	2171010
2171220	Engineering Physics II	3	2	2	4	---
2171500	Introduction to Engineering	1	0	1	1	---
2173220	Report Writing and Presentation	3	0	1	3	2171500 +Junior Standing
2172030	Engineering Mathematics III	3	0	2	3	2171020
2172040	Engineering Mathematics IV	3	0	2	3	2172030
2174050	Engineering Management	3	0	0	3	2173220

(3) Electrical Engineering Required Courses (57 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Th.	Lab.	Tut.	Cr. Hrs.	
2132350	Logic Design	3	2	2	4	1041200
2132500	Engineering Analysis	3	0	2	3	2131400
2152110	Circuit Analysis I	3	2	2	4	2171220
2112510	Electronic Devices and Circuits I	3	2	2	4	2152110
2122210	Signal and Systems	3	0	2	3	2172030
2152120	Circuit Analysis II	3	2	2	4	2152110
2113520	Electronic Devices and Circuits II	3	2	2	4	2112510
2123150	Principles of Communications	3	2	2	4	2122210
2123850	Electromagnetic Fields and Wave Propagation	3	0	2	3	2171220 2172030
2143520	Control Systems	3	2	2	4	2122210
2113670	Design with Integrated Circuits	3	2	0	4	2113520
2133440	Microcontrollers and Applications	3	2	0	4	2132350 2131400
2143750	Sensors and Instrumentation	3	2	0	4	2113520 2132500
2153650	Power Systems and Electrical Machines	3	2	0	4	2152120
2173630	Probability and Random Variables	3	0	2	3	2171020
2174940	Senior Seminar	1	0	0	1	2173220

(4) Specialization Required Courses and Graduation Projects (16 Cr. Hrs.)

(a) Electronics and Communication Concentration

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Th.	Lab.	Tut.	Cr. Hrs.	
2114440	Optoelectronics	3	0	0	3	2113520 2123850
2124560	Communication and Switching Networks	3	2	0	4	2123150
2124670	Wireless Communication	3	0	0	3	2123150 2123850
2164910	Graduation Project I	1	4	0	3	2113670
2164930	Graduation Project II	1	4	0	3	2164910

(c) Power and Renewable Energy Concentration

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Th.	Lab.	Tut.	Cr. Hrs.	
2154550	Renewable Energy Systems	3	2	0	4	2153650
2154640	Power System Analysis	3	0	0	3	2153650
2154620	Smart Grid Renewable Energy Systems	3	0	0	3	2154550
2154910	Graduation Project I	1	4	0	3	2113670
2154930	Graduation Project II	1	4	0	3	2154910

(5) Specialization Elective Courses (9 Cr. Hrs.)

(a) Electronics and Communication Concentration

The student will take three of the following Specialization Electives as approved by the academic advisor. At least two of these courses must have the course code as 2114xxx or 2124xxx or 2164xxx. Advisor's approval is required if the third elective is not from the listed electives.

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Th.	Lab.	Tut.	Cr.Hrs.	
2114180	VLSI Design	3	0	0	3	2113520 , 2132350
2124340	Digital Signal Processing	3	0	0	3	2122210
2124610	Telecommunication Systems	3	0	0	3	2123150
2144420	Industrial Control Systems	3	2	2	4	2143520
2154550	Renewable Energy Systems	3	2	0	4	2153650
2164900	Selected Topics in Electronic and Communication	3	0	0	3	2113520 , 2123150
2164950	Directed Study in Electronic and Communication	3	0	0	3	2113670 2123150 Advisor's approval

(b) Power and Renewable Energy Concentration

The student will take three of the following Specialization Electives as approved by the academic advisor. At least two of these courses must have the course code as 2154xxx. Advisor's approval is required if the third elective is not from the listed electives.

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Th.	Lab.	Tut.	Cr. Hrs.	
2144380	Power Switching Devices	3	0	0	3	2113520 , 2152120
2144420	Industrial Control Systems	3	2	2	4	2143520
2154380	Power System Protection and Control	3	0	0	3	2143520 , 2153650
2154470	Power Generation and Transmission	3	0	0	3	2153650
2154720	Electrical Power Distribution Systems	3	0	0	3	2153650
2154900	Selected Topics in Power and Renewable Energy	3	0	0	3	2154550
2154950	Directed Study in Power and Renewable Energy	3	0	0	3	2154550 Advisor's approval

Proposed Sequence of Study

First Year – Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	

1021400	Communication Skills in Arabic Language	3	3	--	--	---
1041200	IT Fundamentals	3	2	2	--	---
2171010	Engineering Mathematics I	3	3	--	2	---
2171210	Engineering Physics I	4	3	2	2	---
2171410	Chemistry for Engineers	3	2	2	--	---
2171500	Introduction to Engineering	1	1	--	1	---
Total		17	15	6	5	

First Year – Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
1021100	Islamic Culture	3	3	--	1	---
2131400	Computer Programming	3	3	--	2	1041200
2171020	Engineering Mathematics II	3	3	--	2	2171010
2171220	Engineering Physics II	4	3	2	2	---
xxxxxxx	University Elective I	3	3	--	--	---
Total		16	15	2	7	

First Year – Summer Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
1031200	Environmental Sciences	3	3	--	--	---
xxxxxxx	University Elective II	3	3	--	--	---
Total		6	6	0	0	

Second Year – Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
1031331	Statistics	3	2	2	--	---
2132350	Logic Design	4	3	2	2	1041200
2132500	Engineering Analysis	3	3	--	2	2131400
2152110	Circuit Analysis I	4	3	2	2	2171220
2172030	Engineering Mathematics III	3	3	--	2	2171020
Total		17	14	6	8	

Second Year – Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
2112510	Electronic Devices and Circuits I	4	3	2	2	2152110
2122210	Signals and Systems	3	3	--	2	2172030
2152120	Circuit Analysis II	4	3	2	2	2152110
2172040	Engineering Mathematics IV	3	3	--	2	2172030
1141300	Innovation and Entrepreneurship	3	3	--	--	60 Cr.Hrs.
Total		17	15	4	8	

Third Year – Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
2113520	Electronic Devices and Circuits II	4	3	2	2	2112510
2123150	Principles of Communication	4	3	2	2	2122210
2123850	Electromagnetic Fields and Wave Propagation	3	3	--	2	2171220 2172030

2153650	Power Systems and Electrical Machines	4	3	2	--	2152120
2173630	Probability and Random Variables	3	3	--	2	2171020
Total		18	15	6	8	

>>>> Internal Training (2 Weeks in Spring Break)

Third Year – Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
2113670	Design with Integrated Circuits	4	3	2	--	2113520
2143520	Control Systems	4	3	2	2	2122210
2143750	Sensors and Instrumentation	4	3	2	--	2113520 , 2132500
2133440	Microcontrollers and Applications	4	3	2	--	2131400 , 2132350
2173220	Report Writing and Presentation	3	3	--	1	2171500 Junior Standing
Total		19	15	8	4	

Third Year – Summer Semester

>>>> 2103001: Engineering Training I (6 Weeks in Summer)

Final Year – (Electronics and Communication)

Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
2124560	Communication and Switching Networks	4	3	2	--	2123150
2114440	Optoelectronics	3	3	--	--	2113520 2123850
2164910	Graduation Project I	3	1	4	--	2113670
2174940	Senior Seminar	1	1	--	--	2173220
2114xxx 2124xxx 2164xxx	Technical Elective I	3	3	--	--	As Specified
Total		14	11	6	--	

Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
2124670	Wireless Communication	3	3	--	--	2123150 2123850
2164930	Graduation Project II	3	1	4	--	2164910
2114xxx 2124xxx 2164xxx	Technical Elective II	3	3	--	--	As Specified
21x4xxx	Technical Elective III	3	3	--	--	As Specified
2174050	Engineering Management	3	3	--	--	2173220
Total		15	13	4	--	

Summer Semester

>>>> 2103001: Engineering Training II (6 Weeks in Summer)

List of Technical Electives for Electronics and Communication Concentration:

The student will take three of the following Technical Electives. At least two of these electives must have the course code as 2114xxx/2124xxx/2164xxx. Approval of academic advisor is required if a student intends to take one 400 level technical elective outside the below list.

Course Code	Course Title	Cr. Hrs.	Prerequisite
2114180	VLSI Design	3	2113520 2132350
2124340	Digital Signal Processing	3	2122210
2124610	Telecommunication Systems	3	2123150
2144420	Industrial Control Systems	4	2143520
2154550	Renewable Energy Systems	4	2153650
2164900	Selected Topics in Electr. and Comm.	3	2113520 , 2123150
2164950	Directed Study in Electr. and Comm	3	2113670, 2123150 Approval

Final Year – (Power and Renewable Energy)

Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
2154550	Renewable Energy Systems	4	3	2	--	2153650
2154640	Power System Analysis	3	3	--	--	2153650
2154910	Graduation Project I	3	1	4	--	2113670
2154xxx	Technical Elective I	3	3	--	--	As specified
2174940	Senior Seminar	1	1	--	--	2173220
Total		14	11	6	--	

Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr. Hrs.	Th.	Lab.	Tut.	
2154620	Smart Grid Renewable Energy Systems	3	3	--	--	2154550
2154930	Graduation Project II	3	1	4	--	2154910
2154xxx	Technical Elective II	3	3	--	--	As specified
21x4xxx	Technical Elective III	3	3	--	--	As specified
2174050	Engineering Management	3	3	--	--	2173220
Total		15	13	4	--	

Summer Semester

>>>> 2103001: Engineering Training II (6 Weeks in Summer)

List of Technical Electives for Power and Renewable Energy:

The student will take three of the following Technical Electives. At least two of these electives must have the course code as 2154xxx. Approval of academic advisor is required if a student intends to take one 400 level technical elective outside the below list.

Course Code	Course Title	Cr. Hrs.	Prerequisite
2144380	Power Switching Devices	3	2152120,2113520
2144420	Industrial Control Systems	4	2143520
2154380	Power System Protection and Control	3	2153650 2143520
2154470	Power Generation and Transmission	3	2153650
2154720	Electrical Power Distribution Systems	3	2153650
2154900	Selected Topics in Power and Renewable Energy	3	2154550
2154950	Directed Study in Power and Renewable Energy	3	2154550,Approval

Electrical Engineering Department Course Description (Lec, Lab, Cr. Hrs)

2112510 Electronic Devices and Circuits I (3-2-4)

Basic properties of semiconductor materials. Theory of operation and applications of p-n junction diodes, zener diodes and photodiodes. Theory of operation, biasing circuits, and small signal analysis of Bipolar Junction Transistor and Junction Field Effect Transistor. Transistor configurations and two-port network representation of transistor a.c. equivalent circuits. Analysis and design of transistor amplifier circuits. Prerequisite: 2152110

2113520 Electronic Devices and Circuits II (3-2-4)

Operational amplifiers and their applications. MOSFETs: theory of operation and characteristics of depletion and enhancement type MOSFETs, analysis of various biasing circuits. Small-signal model and AC analysis of amplifiers. Frequency response of amplifiers. Multistage amplifiers. Feedback amplifiers and oscillator circuits. Power amplifiers. Prerequisite: 2112510

2113670 Design with Integrated Circuits (3-2-4)

A review of Op-Amps and Digital IC families. Design of analog signal conditioning circuits. Design of power supplies using IC regulators. Op-amp applications. Design of systems for measuring and displaying the measured values on LEDs. Applications of ADC, DAC, and counter ICs. Optoisolators, triacs, and control of high-voltage systems and actuators. Design of signal generators. Applications of commonly used ICs such as VCO, PLL, Timer IC, F/V and V/F ICs. Prerequisite: 2113520

2114180 VLSI Design (3-0-3)

Introduction to VLSI design. Review of basic logic gates in CMOS. Integrated circuit layers, sheet resistance, time delay, CMOS layers, designing FET arrays, stick diagrams, layouts of CMOS circuits. Fabrication of CMOS ICs. Design rules, physical limitations.

Advanced techniques in CMOS logic circuits. General VLSI system components. Floor-planning and routing. DRAM, SRAM, ROM designs. Computer simulation using VHDL or Verilog. Prerequisites: 2113520, 2132350

2114440 Optoelectronics (3-0-3)

Fundamental concepts of semiconductors optical properties. Characteristics and classification of detectors. Radiation sources, classification of radiation sources. Population inversion and gain in a two-level lasing medium. Optical feedback and laser cavity. P-N junction laser operating principles, threshold current, Hetero-junction lasers, Quantum well lasers, device fabrication and fiber coupling. Optical fibers and design of optical systems. Prerequisites: 2113520, 2123850

2122210 Signals and Systems (3-0-3)

Continuous- and discrete-time signals and systems. Basic system properties. Linear Time-Invariant (LTI) systems. Properties of LTI systems. Convolution sum. Fourier series of periodic signals. Fourier transform of non-periodic signals. Filtering. Analysis of continuous-time LTI systems using Laplace transform. Prerequisite: 2172030

2123150 Principles of Communication (3-2-4)

Introduction to fundamentals of communication systems. Amplitude Modulation (AM): Modulation index, spectrum of AM signals, AM circuits. Single side band modulation, frequency division multiplexing. Frequency Modulation (FM): Spectrum of FM signals, FM circuits. FM versus AM. Sampling, quantization, coding, pulse code modulation, delta modulation, time division multiplexing. Shift Keying methods. Prerequisite: 2122210

2123850 Electromagnetic Fields and Wave Propagation (3-0-3)

Electrostatics: Coulomb's Law, Gauss's Law. Electric fields in material space, Polarization in Dielectrics. Ampere's Law, Stoke's Theorem. Time-varying Fields, Faraday's Law, Maxwell's Equations in point form, Maxwell's equations in integral form, boundary conditions. Wave equation, plane wave propagation, Poynting vector and average power. Transmission line theory, reflection and transmission on transmission lines. Prerequisites: 2171220, 2172030

2124340 Digital Signal Processing (3-0-3)

Review of discrete-time signals and systems. Transform-domain representations of signals: Discrete-time Fourier Transform, Fast-Fourier Transform, applications of Z-Transform. Transform-domain representations of LTI systems: Types of transfer functions, stability condition and test. Frequency response of a Rational Transfer Function. The difference equation and Digital Filtering. Concept of filtering: Finite Impulse Response (FIR) and Infinite Impulse Response (IIR) Filters. Prerequisite: 2122210

2124560 Communication and Switching Networks (3-2-4)

Introduction to computer networks, protocol architecture and OSI reference model. Local Area Network (LAN): Topologies and transmission media. high-speed LAN. Token-Ring, FDDI. Circuit switching and packet switching, ISDN, DSL, packet switching network, X.25, frame relay, ATM. Internetworking devices. UDP, TCP architecture, Internet protocols, TCP/IP. Application Layer: Client-server model, socket interface, SMTP, FTP, HTTP, and WWW. Wireless Networking. Prerequisite: 2123150

2124610 Telecommunication Systems (3-0-3)

Introduction to telecommunication systems. Telecommunication fundamentals and transmission media characteristics. Design analog and digital data transmission schemes. Telephony systems: ISDN and PSTN, essentials of traffic engineering. Overview of Wireless LAN technology. Comparison of ZigBee with other standards and applications. Introduction to satellite and fiber optic based communications. Prerequisite: 2123150

2124670 Wireless Communications (3-0-3)

Introduction to cellular mobile radio systems: Cellular-concept system design fundamentals, trunking and grade of service. Mobile channel, large scale and small-scale fading. Outdoor propagation models. Multiple access techniques for mobile communication. Modern wireless communication systems: Second-generation (2G) cellular networks, Third-Generation (3G) and Fourth Generation (4G) wireless systems. Prerequisites: 2123150, 2123850

2131400 Computer Programming (3-0-3)

Problem solving using flowcharts, structure of a C++ program, data types, operators, variables and constants. Input and output, output formatting. Control Statements: IF and SWITCH, WHILE, DO-WHILE and FOR statements. Function definition and calling, library functions, arrays and strings, pointers. File input and output. Prerequisite: 1041200

2132350 Logic Design (3-2-4)

Basic theorems and properties of Boolean Algebra and Boolean functions. Simplification of Boolean functions: Karnaugh Map and Tabulation Method. Product of Sums (POS) and Sum of Products (SOP) forms. Combinational logic circuits: Design and analysis procedures. Decoders, encoders, multiplexers, demultiplexers, ROM, PLA and PAL. Sequential logic circuits: Flip Flops (RS, D, JK, T), design procedure for clocked sequential circuits, counters. Registers and shift registers. Prerequisite: 1041200

2132500 Engineering Analysis (3-0-3)

Developing C++ programs to solve electrical engineering problems. MATLAB programming environment, vectors and matrices, input/output, M-files: scripts and functions, control statements. Plotting with MATLAB. GUI in MATLAB. Introduction to SIMULINK. Electrical system modeling via SIMULINK. Introduction to LabVIEW. Development of Virtual Instruments using LabVIEW. Prerequisite: 2131400

2133440 Microcontrollers and Applications (3-2-4)

Introduction to microprocessor and its internal architecture. Typical microprocessor bus systems. Addressing modes and address decoding. Memory and I/O interface. Assembly language programming. Microcontrollers and embedded systems. Programming of microcontroller using C language. Interrupt processing and interrupt-based control. Microcontroller interfacing to real-world applications. Design and implementation of course projects using a microcontroller. Prerequisites: 2131400, 2132350

2143520 Control Systems (3-2-4)

Introduction to Control Systems: Characteristics, time response, steady-state error. Open loop and closed loop concepts, transfer function, time domain, frequency domain, stability of linear feedback control systems, Root Locus method, Bode diagram. Design of feedback control systems: Principles of design, design with the PD, PI, and PID controllers. Performance evaluation of feedback control systems. Compensation: phase-lead, phase-lag and lead-lag compensation. Prerequisite: 2122210

2143750 Sensors and Instrumentation (3-2-4)

Basic measurement concepts, sources and types of measurement errors, sources of noise and interference and how to minimize them. Analysis and design of DC and AC bridge circuits and their applications. Operating principles and specifications of DVM and DMM. Transducers and their applications in measurement systems. Operation analysis of electromagnetic sensors for flux, current and position sensing. Oscilloscopes: types, specifications, operation and measurements. Analyzers: types, architecture and the optimal tuning. Design projects related to different types of measuring instruments Prerequisites: 2113520, 2132500

2144380 Power Switching Devices (3-0-3)

Introduction to power electronics devices, power transistors, IGBTs and SITs. Thyristors: characteristics, types, models, operations, thyristor commutation techniques and commutation circuit design. Analysis and design of uncontrolled and controlled rectifiers. AC voltage controllers with resistive and inductive load. DC choppers: principles and classifications. Principles of operation and performance parameters of different types of inverters. DC and AC drives. Power system applications. Prerequisite: 2113520,2152120

2144420 Industrial Control Systems (3-2-4)

Industrial control principles. Block diagram representation of industrial control systems. Application of analog and digital signal conditioning in industrial control. Thermal, optical, displacement, position, strain, motion, pressure, and flow sensors used in industrial control. Actuators in industrial control. Data Logging, Supervisory Control, Computer-based Controllers. Programmable Logic Controllers (PLCs). Sequential programming, Ladder diagrams. Introduction to Process Control Systems. Foundation Fieldbus and Profibus standards. Prerequisite: 2143520

2152110 Circuit Analysis I (3-2-4)

Basic quantities: charge, current, voltage, resistance, energy and power. Analysis of series, parallel and series-parallel D.C. resistive circuits using Ohm's law, Kirchhoff's voltage and current laws. Star-Delta and Delta-Star Transformations. Analysis of more resistive circuits using loop and nodal methods, superposition, source transformation, Thevenin's and Norton theorems, maximum power transfer theorem. Transient analyses of RC, RL, and RLC circuits with DC excitation. Prerequisites: 2171220

2152120 Circuit Analysis II (3-2-4)

AC circuits: impedance and admittance, phasors and phasor diagrams, series and parallel circuits, power and power factor correction. Steady-state response using phasor method. Nodal and loop analysis, application of circuit theorems. Steady-state power analysis. Magnetically-coupled circuits. Analysis of balanced three-phase circuits. Frequency response of simple circuits. Series and parallel resonance. Prerequisites: 2152110

2153650 Power Systems and Electrical Machines (3-2-4)

Introduction to power systems. Control of reactive power, voltage and frequency. Contemporary issues related to electrical energy. Basics of power system protection. Principles of DC and AC machines and their types. Ideal and practical transformer. Voltage regulation and efficiency of transformer. Prerequisites: 2152120

2154380 Power System Protection and Control (3-0-3)

An overview of electric industry structure, modern power system, system protection and energy control center. Introduction to power system apparatus: power transforms, circuit breakers, CTs, VTs, CCVTs and line trap. Primary and backup protection of transmission lines. Protection of transformers and busbars. Protection schemes for rotating machinery. Operation, algorithms and advantages of digital relays. Techniques for voltage and frequency control of power systems. Prerequisites: 2143520, 2153650

2154470 Power Generation and Transmission (3-0-3)

Introduction to different types of conventional power plants for generation of power. Operating principles of steam power plants, hydroelectric power plants, hydro turbines, hydro generators, gas-turbine plant, gas-power plant and combined-cycle gas-power plant. Comparison of different transmission line insulators. String efficiency and its improvement. Calculations for sag and tension in designing a transmission line. Classification and comparison of underground cables. Prerequisite: 2153650

2154550 Renewable Energy Systems (3-2-4)

Introduction to renewable energy sources. Electrical characteristics and performance evaluation of PV cells, modules, panels and arrays. Optimization of PV arrays. Design of a stand-alone PV system with battery storage. Wind energy conversion systems, sizing and site matching. Hydro generation and types of hydropower turbines. Solar thermal and ocean thermal energy conversion. Tidal energy, wave power generation,

geothermal and biomass energy systems. Types of energy storage systems. Prerequisite: 2153650

2154620 Smart Grid Renewable Energy Systems (3-0-3)

Basic concept of electric power grid. Types and equipment at grid stations. Grid station automation. Fundamental concepts of power grid integration on microgrids of renewable energy sources. Modeling converters in microgrids. Smart meters and monitoring systems. Design of PV microgrid generating station. Microgrid wind energy systems. Prerequisite: 2154550

2154640 Power System Analysis (3-0-3)

Explanation of Per Unit system and determination of the equivalent circuits of synchronous generator and three-phase power transformers. Parameters of transmission lines. The equivalent circuit models of transmission lines. Power flow analysis. Analyzing symmetrical and unsymmetrical faults in power system. Stability of power systems. Prerequisite: 2153650

2154720 Electrical Power Distribution Systems (3-0-3)

Introduction to electrical power distribution. Power distribution equipment, underground distribution, radial, ring and network distribution systems. Conductors and insulators in power distribution systems. Electrical distribution inside buildings. Analyzing single phase and three phase power distribution systems. Measurement equipment for distribution systems. Discussion of various distribution system considerations. Design of a power distribution system for a small building. Prerequisite: 2153650

2154900 Selected Topics in Power and Renewable Energy (3-0-3)

Topics of current interest in Power and Renewable Energy as selected by the faculty and approved by the EE Department. The course is tailored according to market demands and the technology directions. Prerequisite: 2154550,2153650

2154950 Directed Study in Power and Renewable Energy (3-0-3)

Directed study in Power and Renewable Energy is conducted under the supervision of a faculty member. A student interested to undertake such a study shall submit a proposal outlining the description of the work to be performed with clearly defined objectives and intended outcomes. The study may include experimental investigation, computer simulation or completely theoretical research. The proposal must be approved by the concerned faculty and Head of the EE Department. Prerequisites: 2154550, Approval

2164900 Selected Topics in Electr. and Comm. (3-0-3)

Topics of current interest in Electronics and Communication as selected by the faculty and approved by the EE Department. The course is tailored according to market demands and the technology directions. Prerequisites: 2113520, 2123150

2164950 Directed Study in Electr. and Comm. (3-0-3)

Directed study in Electronics and Communication is conducted under the supervision of a faculty member. A student interested to undertake such a study shall submit a proposal outlining the description of the work to be performed with clearly defined objectives and intended outcomes. The study may include experimental investigation, computer simulation or completely theoretical research. The proposal must be approved by the concerned faculty and Head of the EE Department. Prerequisites: 2113670, 2123150, Approval

2171010 Engineering Mathematics I (3-0-3)

Limits of functions, theorems about limits, evaluation of limit at a point and infinity, continuity. Derivatives of algebraic and trigonometric functions, maxima and minima, engineering applications of derivatives. The definite and indefinite integrals and their applications. Integration by parts, Integration using powers of trigonometric functions, Integration using trigonometric substitution, Integration by partial fractions. Integration of improper integrals. Transcendental Functions. Prerequisite: None

2171020 Engineering Mathematics II (3-0-3)

Matrix addition, subtraction, multiplication and transposition. Complex numbers, algebraic properties of complex numbers, absolute values, complex conjugate, polar representation, powers and roots. Functions of several variables. Double and triple integrals in rectangular and polar coordinates. Applications of multiple integrals in engineering. Infinite sequences, tests for convergence, power series expansion of functions, Taylor series, Laurent series, Fourier series and their applications in engineering. Prerequisite: 2171010

2171210 Engineering Physics I (3-2-4)

Vectors, motion, and Newton's laws. Work, energy, momentum and conservation of momentum. Rotation of rigid bodies, dynamics of rotational motion. Equilibrium and elasticity. Stress and strain. Periodic motion. Engineering applications. Prerequisite: None

2171220 Engineering Physics II (3-2-4)

Electric charge and electric field. Coulomb's law and Gauss's law with applications. Capacitance and dielectrics. DC circuits. Magnetic fields. Ampere's law and its applications. Electromagnetic induction, Faraday's law, Lenz's law, induced electric fields. Self- and mutual-inductance. Electromagnetic waves and Maxwell's equations. Optics and its engineering applications. Prerequisite: None

2171410 Chemistry for Engineers (2-2-3)

Atoms, molecules, ions and formulas of ionic compounds. Electronic structure and the periodic table. Quantum numbers, energy levels and orbital. Orbital diagrams of atoms. Various types of bonds. Chemistry of the metals and semiconductors. Introduction to organic chemistry, bonding and types of hybridization in carbon atom, alkanes and cyclo alkanes, alkyl and halogen substituents. Alkenes and alkynes, Diels-Alder reaction. Types, properties, and use of polymers. Prerequisite: None

2171500 Introduction to Engineering (1-0-1)

Engineering profession and the role of engineers in modern developments, engineering ethics. Various engineering disciplines with special emphasis on electrical engineering. Importance of math and science to engineers. Engineering design and analysis, lab skills for engineers, computer skills for engineers. Electrical Engineering curriculum, curriculum planning and management. Critical thinking, soft skills for engineers, creativity, communication skills. Case studies on engineering ethics. Prerequisite: None

2172030 Engineering Mathematics III (3-0-3)

Vector Calculus and its engineering applications. First order differential equations. Homogeneous linear second-order differential equations with constant and variable coefficients, non-homogeneous linear second-order differential equations with constant coefficients, higher-order linear differential equations with constant coefficients. Power series solution of differential equations. Laplace Transform, Inverse Laplace Transform. Application of Laplace Transform to solve ordinary differential equations. Introduction to partial differential equations (PDEs), first order PDEs, second order PDEs, boundary value problems, engineering applications. Prerequisite: 2171020

2172040 Engineering Mathematics IV (3-0-3)

Linear Algebra: Matrices and determinants, solution of systems of linear equations, eigenvalues and eigenvectors, engineering applications, computer exercises. Complex Analysis: Complex functions, derivative of complex functions, analytic functions, Cauchy-Riemann equations, harmonic functions. Fourier analysis: Fourier Series, Fourier Integrals, Fourier series of even and odd functions with applications. Discrete Mathematics and its engineering applications. Prerequisite: 2172030

2173220 Report Writing and Presentation (3-0-3)

Writing of technical reports, brief reports, and progress reports. Business communication: business letters and memos, executive summary, business reports. Oral presentation: planning, preparation of visuals, and delivering of an oral presentation. Prerequisites: 2171500 + Junior Standing

2173630 Probability and Random Variables (3-0-3)

Concept of Probability. Discrete and continuous random variables. Operations on single random variable: Expected values and moments. Joint cumulative distribution function and joint probability density function. Sum of random variables. Independent random variables. Jointly Gaussian random variables. Definition and classification of random

process, transmission of random process through linear filters, and optimum filtering. Applications in signal processing and communication systems. Prerequisite: 2171020

2174050 Engineering Management (3-0-3)

Introduction to engineering management and role of effective management. Strategic and operational planning, forecasting, action planning. Organization: activities, organizational structures, delegating, establishing working relationships. Basics of leadership. Controlling activities: setting standards, measuring, evaluating, and improving performance. Marketing Management: marketing process and strategies, pricing, promotion strategy, channels of distribution and types of distribution. Prerequisite: 2173220

21x4910 Graduation Project I (1-4-3)

Teams of 3-4 students shall design, implement, test, and demonstrate their graduation project in two semesters. Graduation Project I is to be completed in first semester and it includes literature survey, action plan, design of complete project taking into account realistic constraints, computer simulation (if applicable), partial implementation and testing. Report writing and oral presentation. Prerequisite: 2113670

21x 4930 Graduation Project II (1-4-3)

It is a continuation of Graduation Project I in the second semester. Students will complete the implementation and testing of the remaining part of their design. They will integrate the complete project, test it, and prepare a PCB. Report writing, oral presentation, poster presentation, and project demonstration. Prerequisite: 21x 4910

2174940 Senior Seminar (1-0-1)

The course aims to develop students' understanding of contemporary issues as well as the impact of engineering solutions in a global, economic, environmental, and societal context. It will also improve their oral presentation skills. Prerequisite: 2173220

2103001 Engineering Training

To expose students to a learning environment where they can apply what they have learned in the classroom to a professional setting and enhance their abilities to correlate theoretical knowledge with professional practice. Prior to starting their external training, students shall take two weeks intensive internal training to prepare them for external training. Prerequisite: Completion of 75 credit hours.

Department of Information Technology

Introduction

The rapid growth in the development of computer hardware, software, information technology and the widespread applications in all aspects of life created a considerable demand for computing graduates in all specializations. The College of Information Technology has the reputation of offering quality academic programs based on international standards to prepare its students for a much needed career in the dynamic and rapidly evolving computing industry of today.

Mission

The mission of the Information Technology Department is to provide high-quality education that prepares students for a successful computing career in industry, government, and academia. Conduct research and apply knowledge to solve computing problems, and share computing knowledge and skills with the community.

Department Goals

Goal 1: Providing high quality internationally recognized academic programs

Goal 2: Conducting research that contributes to the advancement of the IT field

Goal 3: Producing graduates who are innovative, life-long learning and able to pursue further graduate studies and research in the discipline of computing

Goal 4: Producing graduates who can provide valuable services to the UAE society and the region in the field of IT.

Goal 5: Increasing the visibility of the IT College in the UAE and the region

Programs offered

- Bachelor in Information Systems - Project Management
- Bachelor in Information Systems - Electronic Business Management

Facilities

The College is equipped with the state-of-the-art computing facilities which are regularly upgraded. All University computers are connected through local and wide area networks. Multimedia facilities are provided in all classrooms and labs. In addition, the College houses electronics, microprocessor and computer network labs. College facilities ensure students are well equipped for performing any required task. All staff and students' computers are linked to the Internet. The College also maintains a library of computer textbooks. This library is regularly updated with the latest books in the field, for the benefit of both students and faculty members.

Department of Information Systems

Introduction

The Department of Information Systems offers a Bachelor of Science in Information Systems degree, which is a 4-years program that requires the completion of 123 credit hours The Information Systems curriculum comprises two concentrations: Project Management and E-Business Management. The program is accredited by the Ministry of Higher Education.

Mission

The mission of the Information Systems program is to provide quality education in the field of information systems based on internationally recognized standards for undergraduate programs; produce information systems professionals who can deploy efficiently IT technologies and implement IT solutions according to market and society needs, particularly in the UAE and Gulf region; and prepare graduates for lifelong learning and research.

Program Educational Goals

Graduates of the Bachelor of Science in Information Systems program will have the following characteristics within few years of graduation:

- PEO_1. Apply acquired knowledge and skills in information systems and implement their skills in public, private, academic and international information systems functional activities.
- PEO_2. Act as information systems professional leaders in performing related skills in technical, business, or ethical duties.
- PEO_3. Engage in life-long learning and professional development in pursuing additional graduate degrees, professional development and self-studies.

Program Learning Outcomes

There are nine Learning Outcomes related to the Information Systems program and three learning outcomes associated to each concentration. Graduates will be able to:

- IS1. Use general education knowledge of diverse fields particularly the business domain in understanding and building IS applications.
- IS2. Apply knowledge of core concepts, techniques and practices to IS applications.
- IS3. Use analytical and critical thinking skills to solve IS problems.
- IS4. Address information requirements and provide solutions that reflect current business needs and changes.
- IS5. Select and adopt emerging technologies for computerized business information systems.
- IS6. Manage information systems components to maintain business sustainability.
- IS7. Make decisions and conduct social responsibilities in an ethical and professional manner.
- IS8. Communicate effectively both orally and in writing.
- IS9. Function independently and as an effective member or a leader of a team.

Concentration in Project Management

- IS-PM1 Use and apply Project Management methods and practices in IS environment.
- IS-PM2 Manage the scope, cost, scheduling and quality of the project.
- IS-PM3 Identify the services, operations and risks involved in IT projects.

Concentration in E-Business Management

- IS-eBM1 Choose IT technologies to support an e-business solution.
- IS-eBM2 Develop plans for the implementation of e-marketing and e-commerce systems.
- IS-eBM3 Identify and explain the use of different online e-marketing and e-commerce business models.

Program Learning Outcomes and Alignment to UAE Qualification Framework (UAEQF)

1. Common Program Learning Outcomes

#	Common Program Learning Outcomes	UAEQF Strands and Justification
IS1	Use general education knowledge of diverse fields particularly the business domain in understanding and building IS applications.	Knowledge
IS2	Apply knowledge of core concepts, techniques and practices to IS applications.	Knowledge
IS3	Use analytical and critical thinking skills to solve IS problems.	Skill
IS4	Address information requirements and provide solutions that reflect current business needs and changes.	Skill
IS5	Select and adopt emerging technologies for computerized business information systems.	Knowledge, autonomy and responsibility
IS6	Manage information systems components to maintain business sustainability.	Autonomy and Responsibility
IS7	Make decisions and conduct social responsibilities in an ethical and professional manner.	Self-Development
IS8	Communicate effectively both orally and in writing.	Skill
IS9	Function independently and as an effective member or a leader of a team.	Role in Context

2. Concentration Specific Learning Outcomes

#	Project Management Concentration Learning Outcomes	UAEQF Strands and Justification
IS-PM1	Use and apply Project Management methods and practices in IS environment.	Knowledge and Skill
IS-PM2	Manage the scope, cost, scheduling and quality of the project.	
IS-PM3	Identify the services, operations and risks involved in IT projects.	

#	E-Business Management Concentration Learning Outcomes	UAEQF Strands and Justification
IS-eBM1	Choose IT technologies to support an e-business solution.	Knowledge and Skill
IS-eBM2	Develop plans for the implementation of e-marketing and e-commerce systems.	
IS-eBM3	Identify and explain the use of different online e-marketing and e-commerce business models.	

Admission Requirements

Admission to the program of Bachelor of Science in Information Systems with its two concentrations requires the U.A.E secondary certificate or an equivalent qualification with a minimum average grade of Advanced Stream - MOE (60%) / General Stream – MOE (65%)

Information system graduates are required to meet the demands of various stakeholders including industry, commerce, education, health, and government. Some graduates are

employed in companies and research organizations, others in resource centers in schools, colleges and universities. There are opportunities in finance, in computing and telecommunications industries, as well as in the medical sector.

Graduation requirements

Students at University of Science and Technology of Fujairah (USTF) are eligible for a bachelor in Information Systems after completion of 123 credits hours, which normally takes eight semesters. The minimum cumulative grade point average for graduation is 2.0 for 123 total credits hours.

Degree requirement

The B.Sc. degree in Information Systems requires the completion of a 123 Cr. Hrs. distributed according to the following plan. The study plan is designed so that the normal duration for completing the degree requirements is 4 years but should not exceed 8 years.

Type of Courses	Cr. Hrs.
1. University General Education Courses	**24**
• (a) University Compulsory Courses	15
• (b) University Elective Courses	9
2. Information Systems Program Compulsory Common Core Courses	**84**
• (a) General Business Courses	18
• (b) Information Systems Core Courses	63
• (c) Internship	3
3. Information Systems Program Concentration Courses	**9**
4. Information Systems Program Elective Courses	**6**
Total Credit Hours	**123**

(1) University General Education Requirements

(a) University Required Courses (15 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
1021100	Islamic Culture	3	0	0	3	-
1021400	Communication skills in Arabic language	3	0	0	3	-
1031101	Statistics	2	2	0	3	-
1041200	Information Technology	2	2	0	3	-
1141300	Innovation and Entrepreneurship	3	0	0	3	-

(b) University Elective Courses (9 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
1. Humanities / Arts						
1021501	Introduction to Hadeeth and Sunna	3	0	0	3	-
1071200	Academic Writing	3	0	0	3	-
1071300	Introduction to Digital Photography	3	0	0	3	-
1091200	French Language	3	0	0	3	-
1121100	Principles of Architecture	3	0	0	3	-
1121200	Principles of Interior design	3	0	0	3	-
1121400	Introduction to Art	3	0	0	3	-
1151500	The Art of Written Expression	3	0	0	3	-

1191500	The Art of Public Speaking	3	0	0	3	-
1201150	Legal Culture	3	0	0	3	-
2. Natural and Applied Sciences						
1031200	Environmental Science	3	0	0	3	-
1031300	Research Methodology	3	0	0	3	-
1081200	General Physics	3	0	0	3	-
1121300	Modern Technology and Society	3	0	0	3	-
1131100	Internet Concepts	3	0	0	3	-
1131200	Introduction to information System	3	0	0	3	-
1151100	History of Science in Islam	3	0	0	3	-
1151200	Scientific Pioneering	3	0	0	3	-
1151400	Principles of Mathematics	3	0	0	3	-
1151700	Educational Technology	3	0	0	3	-
1161200	Astronomy	3	0	0	3	-
1171100	General Chemistry	3	0	0	3	-
1171200	Fundamental of Human Nutrition	3	0	0	3	-
1171300	First Aid	3	0	0	3	-
1171500	Application of Remote Sensing and GIS	3	0	0	3	-
1181200	General Biology	3	0	0	3	-
1181300	Oral Health	3	0	0	3	-
3. Social or Behavioral Sciences						
1071100	Critical Thinking	3	0	0	3	-
1071500	Family System	3	0	0	3	-
1131400	Library Information System	3	0	0	3	-
1141100	Economic Concepts	3	0	0	3	-
1141200	Entrepreneurship development	3	0	0	3	-
1151600	Emirates Society (English)	3	0	0	3	-
1191100	English Communication Skills	3	0	0	3	-
1191200	Introduction to communication Sociology	3	0	0	3	-
1191300	Information Society	3	0	0	3	-
1191400	Media Culture	3	0	0	3	-
1191600	Communication Between Cultures	3	0	0	3	-
1151300	General Psychology (English)	3	0	0	3	-

(2) Information Systems Compulsory Common Core Courses

(a) Major Requirements - General Business Courses (18 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
4002910	Introduction to Management	3	0	0	3	-
4002926	Principles of Accounting I	3	0	0	3	-
4003950	Principles of Marketing	3	0	0	3	4002910
4003960	Fundamentals of Finance	3	0	0	3	4002926
4004090	Organizational Behavior	3	0	0	3	4002910
4106020	Human Resources Management	3	0	0	3	4004090

(b) Major Requirements - Core Courses and Internship (66 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	

3082010	Information Systems Management	3	0	0	3	3151030
3082020	Business Statistics	3	0	0	3	1031101
3082030	Fundamentals of Computer Systems	2	2	0	3	50 Cr. Hrs
3082050	Systems Analysis and Design	2	2	0	3	3151030
3082060	Communication Management	3	0	0	3	1041200
3082090	Business Process Management	3	0	2	3	3082010
3083070	Change Management	3	0	0	3	3082010
3083090	Knowledge Management	3	0	0	3	3151030 4002910
3084020	Business Intelligence and Data Warehousing	3	0	0	3	3153020
3084040	Information Systems Strategy and Acquisition	3	0	0	3	99 Cr. Hrs
3084050	Information Systems Project	1	4	0	3	99 Cr. Hrs
3084060	IT Resource Management	3	0	0	3	99 Cr. Hrs
3084070	Information Systems Internship	0	0	0	3	90 Cr. Hrs
3151020	Problem Solving and Programming	2	2	0	3	-
3151030	Information Technology in Business	2	2	0	3	1041200 4002910
3152050	Fundamentals of Data Communications and Networking	2	2	0	3	3151020
3153020	Database Management Systems	2	2	0	3	3151020 3151030
3153030	Fundamentals of Information Security	3	0	0	3	3152050
3153040	Fundamentals of Web Systems	2	2	0	3	3151020
3153060	Computer Ethics and Professional Practices	3	0	0	3	3153030
3153070	Information Technology Project Management	2	2	0	3	3082050
3153080	Enterprise Systems	3	0	0	3	3153020 4002910

(3) Information Systems Concentration Courses

(a) Major Requirements - Compulsory Concentration Courses (9 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
3084220	E-Marketing	3	0	0	3	4003950
3153220	Web Technologies	2	2	0	3	3153040
3154240	E-Commerce	2	2	0	3	3153040

(I) Project Management Concentration

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
3084110	IT Services and Operations Management	3	0	0	3	3082090
3084120	Project Planning, Scheduling and Cost Control	3	0	0	3	3153070
3084130	Project Quality and Risk Management	3	0	0	3	3153070

(II) E-Business Management Concentration

(b) Major Requirements - Elective Courses (Both Concentrations) (6 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.	Prerequisite

		Lec	Lab	Tut	Cr. Hrs.	
3084080	Selected Topics in Information Systems	2	2	0	3	3153070
3084090	Individual Project	1	4	0	3	3153070
3152060	Human Computer Interaction	2	2	0	3	3082050
3152080	Computerized Accounting	2	2	0	3	4002926
3153090	Cloud Computing	3	0	0	3	3153030
3153210	Database Administration	2	2	0	3	3153020
3154230	Advanced Database Design and Implementation	2	2	0	3	3153020
3154290	Mobile Applications	2	2	0	3	3082030 3153020

Students are allowed to register a maximum of one elective course outside the proposed list after the approval of the Department Head.

Proposed Study Plan

First Semester (Both Concentrations)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
xxxxxxx	University Elective I	3	0	0	3	-
1021100	Islamic Culture	3	0	0	3	-
1021400	Communication skills in Arabic language	3	0	0	3	-
1041200	Information Technology	2	0	2	3	-
4002910	Introduction to Management	3	0	0	3	-
Total		15	0	2	15	

Second Semester (Both Concentrations)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
xxxxxxx	University Elective II	3	0	0	3	-
1031101	Statistics	2	0	2	3	-
3151020	Problem Solving and Programming	2	0	2	3	-
3151030	Information Technology in Business	2	0	2	3	1041100 4002910
4003950	Principles of Marketing	3	0	0	3	4002910
Total		12	0	6	15	

Third Semester (Both Concentrations)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
xxxxxxx	University Elective III	3	0	0	3	-
3082010	Information Systems Management	3	0	0	3	3151030
3082020	Business Statistics	3	0	0	3	1031101
3082060	Communication Management	3	0	0	3	1041100
4002926	Principles of Accounting I	3	0	0	3	-
Total		15	0	0	15	

Fourth Semester (Both Concentrations)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	

3082090	Business Process Management	3	2	0	3	3082010
3083070	Change Management	3	0	0	3	3082010
3152050	Fundamentals of Data Communications and Networking	2	0	2	3	3151020
3153040	Fundamentals of Web Systems	2	0	2	3	3151020
4004090	Organizational Behavior	3	0	0	3	4002910
Total		13	2	4	15	

Fifth Semester (Both Concentrations)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
3082030	Fundamentals of Computer Systems	2	0	2	3	50 Cr. Hrs
3082050	System Analysis and Design	2	0	2	3	3151030
3083090	Knowledge Management	3	0	0	3	3151030 4002910
3153020	Database Management Systems	2	0	2	3	3151020 3151030
3153030	Fundamentals of Information Security	3	0	0	3	3152050
Total		12	0	6	15	

Sixth Semester (Both Concentrations)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
1141300	Innovation and Entrepreneurship	3	0	0	3	-
3153060	Computer Ethics and Professional Practices	3	0	0	3	3153030
3153070	IT Project Management	2	0	2	3	3082050
3153080	Enterprise Systems	3	0	0	3	3153020 4002910
4106020	Human Resources Management	3	0	0	3	4004090
Total		14	0	2	15	

Seventh Semester

(a) Project Management Concentration

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
xxxxxxx	Major Elective I	x	0	x	3	xxxxxxx
3084020	Business Intelligence and Data warehousing	3	0	0	3	3153020
3084110	IT Services and Operations Management	3	0	0	3	3082090
3084120	Project Planning, Scheduling and Cost Control	3	0	0	3	3153070
4003960	Fundamentals of Finance	3	0	0	3	4002920
Total		x	0	x	15	

(b) E-Business Management Concentration

Course No.	Course Title	Contact and Credit Hrs.	Prerequisite

		Lec	Lab	Tut	Cr. Hrs.	
xxxxxxx	Major Elective I	x	0	x	3	xxxxxxx
3084020	Business Intelligence and Data warehousing	3	0	0	3	3153020
3153220	Web Technologies	2	0	2	3	3153040
3154240	E-Commerce	2	0	2	3	3153040
4003960	Fundamentals of Finance	3	0	0	3	4002920
Total		x	0	x	15	

Eighth Semester

(a) Project Management Concentration

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
xxxxxxx	Major Elective II	x	o	x	3	xxxxxxx
3084040	Information Systems Strategy and Acquisition	3	0	0	3	99 Cr. Hrs
3084050	Information Systems Project	1	0	4	3	99 Cr. Hrs
3084060	IT Resource Management	3	0	0	3	99 Cr. Hrs
3084130	Project Quality and Risk Management	3	0	0	3	3153070
Total		x	0	x	15	

SUMMER SESSION: Internship training

(b) E-Business Management Concentration

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
xxxxxxx	Major Elective II	x	o	x	3	xxxxxxx
3084040	Information Systems Strategy and Acquisition	3	0	0	3	99 Cr. Hrs
3084050	Information Systems Project	1	0	4	3	99 Cr. Hrs
3084060	IT Resource Management	3	0	0	3	99 Cr. Hrs
3084220	E-Marketing	3	0	0	3	4003950
Total		x	0	x	15	

Summer Session: Internship Training

Minor in Information Systems

Study Plan

The Minor in Information Systems provides a range of courses to suit requirements of students of different majors. The study plan of the Minor is as follows:

(a) Compulsory Courses* (9 Credit Hours)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
3082050	Systems Analysis and Design	2	2	0	3	50 Cr. Hrs
3084020	Business Intelligence and Data Warehousing	3	0	0	3	3153020
3153020	Database Management Systems	2	2	0	3	50 Cr. Hrs

* A compulsory course which is part of the student's major must be replaced by another optional course.

(b) Optional Courses (6 credit hours)**

Course No.	Course Title	Contact and Credit Hrs.	Prerequisite

		Lec	Lab	Tut	Cr. Hrs.	
3082090	Business Process Management	3	0	2	3	60 Cr. Hrs
3084040	Information Systems Strategy and Aquisition	3	0	0	3	99 Cr. Hrs
3153070	IT Project Management	2	2	0	3	60 Cr. Hrs

**An optional course which is part of the student's major cannot be taken.

Admission and Completion Requirements

The admission and completion requirements are specified in USTF's Minor Programs Policy. Specific requirements of the College of Information Technology are:

1. Only registered students of majors offered by colleges at USTF other than the Information Technology College can apply for a Minor in Information Systems.
2. Students accepted for a Minor in Information Systems must successfully complete 15 credit hours from the courses described in the minor's study plan.
3. Any course taken or to be taken by the student as part of his major study plan cannot count towards the minor and must be replaced by another course from the list of options available for the minor.

Information Systems Department Courses Descriptions

3082010 Information Systems Management

Information systems management is the planning, acquisition, development and use of these systems. This course is designed to give students managerial view of information systems and its role in modern organizations to allow them to evaluate, adopt, and manage existing and new information systems. Topics include Information Systems in Business Today, Global E-business and Collaboration, Information Systems Organizations and Strategy, Achieving Operational Excellence and Customer Intimacy, E-commerce, Digital Goods, Managing Knowledge, Enhancing Decision Making, Building Information Systems, Managing Projects, Managing Global Systems.

3082020 Business Statistics

This course provides students with good knowledge and skills related to: sampling Methods, parameters estimation, Confidence Intervals for Mean and Proportion; testing the hypothesis about Mean, Proportion, and Variance, for both finite and large populations, and to design and use the Analysis of Variance.

3082030 Fundamentals of Computer Systems

This course covers concepts of computer organization and architecture, main types of memory; central processing unit, memory addressing; principles and concepts of modern operating systems; operating system services: processes and process management, memory management; file systems; multitasking and multithreading; operating system security and configuration; Input/output devices and control; virtualization of computing services.

3082050 System Analysis and Design

This course introduces the phases of the system development cycle. Topics include: Systems Development Methodologies, Project Team Roles and Skills; software project planning; requirement analysis phase; system design; Human Computer Interaction Layer Design; Physical Architecture Layer Design; and implementation phase. Systems analysis and design using UML will be discussed.

3082060 Communication Management

The course aims at equipping the students with effective business communication skills. The course provides a thorough practice in business letters, memos, reports, resumes and job applications. In addition to developing written communication, the course teaches verbal communication skills such as speeches, interviews, and other dyadic forms of communication. The entire teaching process is focused on building effective communication skills among students.

3082090 Business Process Management

The course introduces the methods and techniques required to analyze, design, implement, automate, and evaluate business processes. Structured along the phases of the Business Process Management (BPM) life cycle, students learn to analyze organizational performance from a process perspective, redesign processes using value-focused techniques, design workflows and implement them in BPM systems, simulate new process designs, and create process analytics applications. The course leads students from process discovery through conceptual and technical process design through the implementation of workflows to the structure of process-aware information systems.

3083070 Change Management

Continuous change is inevitable in all organizations for technical, financial, or human reasons. Change management can make the difference between chaos and order, depending on how we understand and manage it. This course provides students with an understanding of the principles, objectives, implementing, and managing changes. Among the topics that Students will be able to master, include comprehending the complexity of change within organizational cultures and systems, managing resistance for change, and understanding the role of leader, manager, and change agent in change management. Besides theoretical component, students will be given case studies to build concrete understanding of real-life examples.

3083090 Knowledge Management

The aim of this course is to introduce basic concepts, terminologies, tools, and techniques of Knowledge Management (KM). Topics covered include: the origins and units of organizational knowledge; knowledge management life-cycle models, knowledge management implementation models, knowledge capture and codification, knowledge sharing, knowledge management tools and knowledge management strategies.

3084020 Business Intelligence and Data Warehousing

Today's IT deals with gigantic amount of information. The success of any organization greatly depends on its ability to process and understand its information and extract essential knowledge to help managers take well informed decisions. This course teaches students the basic of data warehouse and how to deal with business intelligence – an information technology approach to data collection, data storage and data analysis to support a wide variety of management tasks, from performance evaluation to trend spotting and policy making. The students learn effective modeling techniques and use them to extract business intelligence and present them to users.

3084040 Information Systems Strategy and Acquisition

This advanced course examines how IT enables organizations to conduct business in radically different and more effective ways. The course defines high-level IT infrastructure and Information Systems that support the operational and strategic needs of organizations. It develops also a framework that will allow IS leaders to assess existing IT infrastructures and emerging technologies as well as how these enabling technologies might affect organizational strategy.

3084050 Information Systems Project

This course aims to give students the opportunity to work in a guided but independent fashion to investigate a problem by making use of information technology knowledge, techniques, and methodologies acquired in the previous semesters to provide a suitable solution to an IT problem. The course also aims to enhance teamwork and communication skills, both oral and written as well as ethical issues involved.

3084060 IT Resource Management

This course addresses the tactical/operational responsibilities and roles of the IT Management, and the governance considerations that link the IS-business organizations. The focus is on current/emerging issues in creating and coordinating the key activities necessary to manage the day-to-day operations of the IS function, and coordinating the skills and organizational IS infrastructure.

3084070 Information Systems Internship

Internship familiarizes students with actual working environments. It gives students the opportunity to integrate their knowledge and skills learned in the course by applying it to real world problems encountered in business and industry. Internship also gives the student a feeling of what is involved in working on actual information technology problems and develop communication and team-work skills as well as ethical issues relation to IT.

3084080 Selected Topics in Information Systems

This course aims to introduce students to new developments in the area of information systems not specifically covered in the curriculum and in which a faculty member has developed interest and proficiency. The intention is to provide a rapid response to

current trends and to widen student's knowledge in different areas if IS. Specific content of the course will depend on the particular area taught at the time.

3084090 Individual Project

This course aims to give students the opportunity to work alone in a guided but independent fashion to investigate a problem by making use of information systems knowledge, techniques, and methodologies acquired in the previous semesters to provide a suitable solution to an IT problem. The course also aims to develop communication skills, both oral and written.

3084110 IT Services and Operations Management

This course provides a detailed, modular introduction to the concepts, terms, definitions, benefits, objectives, and relationships within IT service management processes and functions, according to the ITIL best practice framework. It is based on principles described in ITIL's Service Support and Service Delivery Standards. It provides a practical understanding of ITIL key concepts, principles, processes, and functions.

3084120 Project Planning, Scheduling and Cost Control

Most failures of projects are related to either schedule delays, or cost overrun or both. A balanced cost and time management is in the core of project management, and successful projects will need extensive attention to budget performance, which is strongly coupled to schedule. This course will explore recent methods and techniques which integrate technical, schedule, and cost objectives to enhance control on projects and ensure their success and timely termination. The course will allow students to get deep understanding of the many factors that affect project time and cost performance, and teaches them how to employ best practices, well known templates, methods and techniques to observe and control them.

3084130 Project Quality and Risk Management

Project Quality and Risk management are forward looking disciplines, which try to identify potential future problems and plan for effective mitigation or avoidance techniques, leading to greater success in projects and business in general. While it covers all aspects of an organization, this course will introduce students to analytical and mathematical models to enable them measure and evaluate risks and quality related to IS projects.

3084220 E-Marketing

The course describes common strategies for the marketing of goods and services via the Internet range from public relations and corporate communications to advertising and electronic commerce. Students investigate and evaluate various marketing and communication strategies and tactics for the World Wide Web. Emphasis is placed on critical evaluation skills as well as Web site planning, development, design, and other factors, which contribute to a Web site's success.

3151010 Calculus for Information Technology

This course covers the essential mathematical topics that students specialized in information technology needs. The first part of the course deals with plane analytic geometry. The second part covers the basic knowledge about matrices and determinants. The third part is designed to provide students with notions of real functions: limits, continuity, differentiability, and integration with applications on simple derivatives and integrals.

3152080 Computerized Accounting

The Computerized accounting information system joins together the skill sets of accounting and information technology. Information technology has created new challenges and opportunities for accountants who also have expertise in information systems. Many traditional accounting functions are now embodied in systems that require a different combination of technical and financial knowledge. The CAIS course is designed to provide this combination of knowledge and skill sets to meet the new challenges and opportunities of the information technology world. The main objective of the course is to introduce students to the design and implementation of a systematic structure for providing information for decision-making.

3151020 Problem Solving and Programming

This course provides knowledge and skill of problem solving and programming concepts using pseudo code and a computer programming language. Topics cover: the problem-solving process; data types; variables, constants, and memory locations; simple sequential programs; basic input/output; selection and repetition control structures; arrays and strings; and user-defined functions.

3151030 Information Technology in Business

This course aims to cover a range of general information technology topics that will make the student appreciate the role of IT in business. Topics include: information technology fundamentals; information technologies; business applications; development processes; and ethical, societal and security issues.

3152060 human Computer Interaction

Concepts, human information processing (cognition, perception, movement, culture, communication, human diversity, motivation for computer interaction, human performance models, etc.), user interface design principles, information presentation, visual, auditory and tactile displays, speech communication, data entry, controls, tools and feedback, human factors in computer programming, workspace design, environmental and legal considerations. We will study the modeling, the building and the evaluation aspects.

3152050 Fundamental of Data Communications and Networking

Introduction to computer networks and the Internet. Protocol layers and the OSI model. Application layer: HTTP, FTP, SMTP, POP3, DNS and peer-to-peer applications. Transport

layer: UDP, TCP and congestion control. Network layer: virtual circuits, routers, IP protocols and routing algorithms. Link layer: error detection and correction, multiple access, MAC addressing, switches, ARP, Ethernet, local area networks and wide area networks. Wireless and mobile networks.

3153010 Operating Systems

This course covers the principles and concepts of modern operating systems. Operating system services: processes and process management, memory management, file systems, Input/Output and device control, deadlocks, distributed systems, case studies. To introduce the learner to the principles and practice of operating systems with respect to effective and convenient management and operation of a computer system.

3153020 Database Management Systems

This course is designed to give a theoretical and practical background in database techniques. It covers: database concepts, data models, data dictionary, entity relationship diagrams, and relational data model, converting E-R models to relational model, SQL language, and normalization. Oracle software is used in the Lab.

3153030 Fundamental of Information Security

This course aims at introducing fundamental security concepts to students. Main security threats and related countermeasures are presented. Students will learn the importance of protecting information stored on computer systems from unauthorized access. The students will also learn how to encrypt and decrypt information, control access to objects and recommend a secure system implementation.

3153040 Fundamentals of Web Systems

This course introduces the basics of Web systems and how it differs from desktop systems. Students will learn client-server architecture, and how it evolves to multitier system. The course will allow student to learn and use essential Web languages and technologies including XHTML, CSS, and XML. Students will apply this knowledge to generate essential web components like basic browser controls (buttons, links, and menus), forms and frames. They will also understand how these components are managed on the server side.

3153050 Fundamentals of Software Engineering

The course emphasizes object-oriented techniques and the use of UML. Topics covered in this course include: overview of the software engineering process, software process models, UML syntax and semantics, software requirement analysis, software design principles and models, component-level design, and software testing. Student will work in teams on software projects.

3153060 Computer Ethics and Professional Practices

This course will examine the ethical issues that arise in the use of computers, and the responsibilities of those who work with computers, either as computer science

professionals or end users. Topics covered include: legal, social and ethical issues surrounding computer technology and its use; privacy; intellectual property rights and copy right laws; information technology code of ethics; issues of privacy and confidentiality; risks of using computers; and computer crime: computer viruses, hacking, phishing and pharming, scams, etc.

3153070 Information Technology Project Management

This course aims cover: characteristics of IT Project management, initiating an IT project; project planning; defining and managing project scope, structuring a project, project schedule and budget, managing project risk, project communication, tracking, and reporting, IT project quality management, ethics and professional practices, and project implementation.

3153080 Enterprise Systems

This course introduces students to the new concept of enterprise systems and shows its role in the industry as used by medium and large enterprises. Students will understand the main architectural components of today's enterprise and its infrastructure. The course also introduce different business domain concepts and workflow management and will help student make the link between development and implementation issues on one side and practical enterprise applications on the other side.

3153090 Cloud Computing

This course aims to introduce students to theory and practice of cloud computing. Topics include: introduction to cloud computing; parallel and distributed systems; cloud infrastructure; applications and paradigms; resource virtualization; resource management and scheduling; networking support; cloud storage systems; cloud security.

3153110 Advanced Computer Networks

This course will cover the principles of networking with a focus on algorithms, protocols, and implementations for advanced networking services. We will examine a variety of ideas that were proposed to enhance the Internet, why some of these enhancements were successful while others were not. The emphasis in this course is on topics such as routing protocols, advanced routing and switching. It covers Internet architecture, congestion control, QoS, IPv6, and voice over IP. The student will use network simulators for some network models.

3153120 Network Security

This course introduces students to main security concepts related to the protection of a network from known threats and attacks. This includes digital signatures, authentication protocols, IP and Web security and e-mail security. It also emphasizes the importance of using firewalls in order to secure a network. Packet-filtering routers, application and circuit-level gateways are presented. Advanced cryptographic algorithms are also discussed in details such AES, MAC and hash operations and cipher modes.

3153210 Database Administration

This course prepares students to administer and maintain databases by applying best practices and procedures to any database platform. With general, platform independent approach, students will be able to work as database administrators to any of the major industrial databases including Oracle, IBM BD2, Sybase, Microsoft and MySQL. Students will become familiar with DBA roles and responsibilities, be able to create a database environment with modeling and normalization as well as reporting while maintaining data integrity.

3153220 Web Technologies

This course will introduce students to different Web technologies, languages, and frameworks. The student will review the dynamics of these technologies, their advantages and disadvantages. Students will also learn the applicability of each of these technologies in different Web application settings and environment. Students will also learn how to mix and match these technologies and investigate their compatibility and integration challenges.

3154010 Information Technology Project

The course aims to give students the opportunity to work in a guided but independent fashion to investigate a problem by making use of information technology knowledge, techniques, and methodologies acquired in the previous semesters to provide a suitable solution to an IT problem. The course also aims to enhance team work and communication skills, both oral and written.

3154020 Information Technology Internship

Internship familiarizes students with actual working environments. It gives students the opportunity to integrate their knowledge and skills learned in the course by applying it to real world problems encountered in business and industry. Internship also gives the student a feeling of what is involved in working on actual information technology problems and develop communication and team-work skills as well as ethical issues relation to IT.

3154030 Selected Topics in Information Technology

This course aims to introduce students to new developments in the area of information technology not specifically covered in the curriculum and in which a faculty member has developed interest and proficiency. The intention is to provide a rapid response to current trends and to widen student's knowledge in areas such as but not limited to: information storage, retrieval, security, processing, or transition. Specific content of the course will depend on the particular area taught at the time.

3154040 Individual Project

This course aims to give students the opportunity to work alone in a guided but independent fashion to investigate a problem by making use of information technology

knowledge, techniques, and methodologies acquired in the previous semesters to provide a suitable solution to an IT problem. The course also aims to develop communication skills, both oral and written.

3154230 Advanced Database Design and Implementation

This course builds on top of the first DBMS course by introducing advanced database concepts to allow students to effectively design and implement industrial quality database. The course revisits SQL in a deeper, more practical approach, with a focus on its PL/SQL extension. The student will learn database in a client-server setting, and see how to manage multi-user databases. Students will be able to design and implement functional databases that include major components of an industrial database.

3154240 E-Commerce

This course aims to expose students to the theory and practice of e-commerce. Topics covered are: Introduction to E-Commerce, E-Commerce Technology Infrastructure, Revenue models, Marketing on the web, Business-to-business online strategies, Web server hardware and software, E-Commerce Commercial Software, E-Commerce security, Payment Systems, and Planning for e-commerce business

3154260 Knowledge Management

This aim of this course is to introduce basic concepts, terminology, and techniques of Knowledge Management (KM). Topics covered include: the origins and units of organizational knowledge; evolution of knowledge management; implementation and utilization of knowledge management systems, and how to measure their impact, outputs, and benefits.

Faculty members of the College of Information Technology

University of Science and Technology of Fujairah					
Name	**Rank**	**Specialization**	**Degree**	**Date**	**University**
Dr. Liaqat Ali	Assistant Prof.	Information System	PhD	2008	East London, UK
Dr. Haythem Mohamed El-Messiry	Associate Professor	Computer Science	PhD	2004	Ulm University - Germany
Dr. Mohammed Salahat	Assistant Professor	Information System	PhD	2017	Huddersfield, UK

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Department of Interior Design

Mission

The Department of Interior Design provides high-quality interior design education to its students by focusing on developing their technical as well as generic skills so that they are well qualified for gainful employment in interior design discipline and can effectively contribute to the advancement of the community. The Interior Design program also aims to prepare its students for postgraduate study.

Goals

The ID Program Goals, also referred to as Program Educational Objectives (PEOs) are stated below. Graduates of Interior Design program shall have:

1. A foundation in basic skills and the ability to apply those skills in their design process and presentation.
2. Skills and abilities required for data collection, analysis, design, and evaluation of interior design projects including technical details.
3. The ability to utilize up-to-date technology in the field of interior design, for example, computer-aided design and other software applications, and working drawings and presentations.
4. The ability to work as an efficient team member in multi-professional groups.
5. The ability to recognize environmental factors and cultural, traditional and heritage aspects.
6. The ability of critical thinking and life-long learning.
7. Gained basic information about the interior environment, with the application of lighting, acoustics and human factors.

Alignment of Program Outcomes to QF Emirates

Program Outcomes	Strand 1 Knowledge	Strand 2 Skills	Strand 3 Autonomy and Responsibility	Strand 4 Role in Context	Strand 5 Self-Development
1. Apply the concepts and principles of interior design drawings and techniques	X				
2. Apply a systematic method in data collection in the process in project design and technical details	X				
3. Implement broad knowledge in the field of interior design through, construction details, working drawings, technical specifications and project documents	X				

4. Communicate effectively in multidisciplinary teams and work effectively with other professionals in the ID industry	X				
5. Apply and identify the application of chosen interior design product taking into consideration sustainability, culture, tradition, and heritage aspects	X				
6. Employ and adjust communication professionally in design, conduct development stages, analyze and interpret satisfactory results		X			
7. Direct knowledge in practice, through critical thinking and lifelong self-learning		X			
8. Evaluate, select, and apply modern media as well as software package and information technology		X			
9. Communicate effectively, visually, orally and in written format, and deploy up-to-date presentation techniques to present and explain project		X			
10. Evaluate the theories and design development of the interior design products that reflect the critical thinking		X			
11. Work independently as well as part of a team in a variety of design project process			X		
12. Take responsibility for developing appropriate resolutions to any interior design outcomes			X		
13. Demonstrate professional quality appropriate to the design project				X	
14. Manage the achievement of desired outcomes individually or within the teamwork				X	
15. Express the ability to follow contemporary issues and describe the impact of different interior design solutions in local and international community frameworks				X	
16. Find out from credible resources as well as from experiences earned in various circumstances, and thus enhance their knowledge and skills throughout their professional career					X
17. Apply and analyze ethical standards in professional practice					X

Admission Requirements

Admission to the Interior Design program requires a UAE Secondary School Certificate, or its equivalent, with a minimum acceptable grade of 60 percent.

For more information, please refer to the university admissions policy

Career Opportunities

A graduate from the Interior Design program is qualified by education, experience and examination to develop interior designs for the purpose of improving the quality of life, increasing productivity, and protecting the health, safety, and welfare the public. A graduate is able to take up a job position as an:

- Interior Designer
- Interior Teaching Assistant
- Project Manager Assistant
- Business Marketing Assistant

Graduation Requirements

The Bachelor in Interior Design will be awarded upon the fulfillment of the following:

- Successful completion of all courses in the program curriculum (130 Credit Hours)
- Successful completion of four Credit Hours of Engineering Training
- A minimum cumulative AGPA of 2.0

Degree Requirement

The Bachelor degree in Interior Design requires the completion of 134 Cr. Hrs. distributed according to the following plan:

Classification	No. of Courses	Total Credit Hours
University Requirements(Compulsory)	5	15
University Requirements(Elective)	3	9
College Requirements (Compulsory)	2	6
Department requirements (Compulsory)	29	95
Interior Design Elective Courses	3	9
Total	42	134

(1) University Requirements – Compulsory: (15Cr. Hrs.)

Compulsory	Course Code	Course Name	Cr. Hrs.
Arabic (3 credit hours)	1021400	Communication Skills in Arabic (Arabic Medium Schools)	3
	1021401	Arabic for Non-Arabs	3
Islamic (3 credit hours)	1021100	Islamic Culture (Arabic)	3
Innovation and Entrepreneurship (3 credit hours)	1141300	Innovation and Entrepreneurship	3
Information Technology (3 credit hours)	1041200	IT Fundamentals	3
	1041203	IT Fundamentals (Arabic)	3
	1031331	Statistics for Sciences	3

Quantitative and Critical Reasoning (3 credit hours)	1031330	Applied Quantitative Analysis for Social Sciences (Arabic)	3

(2) University Requirements – Elective: (9 Cr. Hrs.)

Course Code	Course Name	Credit Hours
	1. Humanities / Arts	
1021501	Introduction to Hadeeth and Sunna	3
1071200	Academic Writing (English)	3
1071300	Introduction to Digital Photography	3
1091200	French Language	3
1121100	Principles of Architecture	3
1121200	Principles of Interior design	3
1121400	Introduction to Art	3
1151500	The Art of Written Expression (Arabic)	3
1191500	The Art of Public Speaking (English)	3
1201150	Legal Culture	3
	2. Natural and Applied Sciences	
1031200	Environmental Science	3
1031300	Research Methodology	3
1081200	General Physics	3
1121300	Modern Technology and Society	3
1131100	Internet Concepts	3
1131200	Introduction to information System	3
1151100	History of Science in Islam	3
1151200	Scientific Pioneering	3
1151400	Principles of Mathematics	3
1151700	Educational Technology	3
1161200	Astronomy	3
1171100	General Chemistry	3
1171200	Fundamental of Human Nutrition (English)	3
1171300	First Aid (English)	3
1171500	Application of Remote Sensing and GIS	3
1181200	General Biology	3
1181300	Oral Health	3
	3. Social or Behavioral Sciences	
1071100	Critical Thinking	3
1071500	Family System	3
1131400	Library Information System	3
1141100	Economic Concepts	3
1141200	Entrepreneurship development	3
1151600	Emirates Society (English)	3
1191100	English Communication Skills	3
1191200	Introduction to communication Sociology	3
1191300	Information Society	3
1191400	Media Culture	3
1191600	Communication Between Cultures	3
1151300	General Psychology (English)	3

(3) College Requirements (3 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
110140	Math for Management	2	0	2	3	---

(4) Specialization Requirements Compulsory: (98 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
2901010	Introduction to Interior Design	1	4	---	3	---
290209	Psychology of Design	3	---	---	3	2902010
2901100	CAD I For Interiors	1	4	----	3	1041200
2902050	CAD II For Interiors	1	4	----	3	2901100
2901052	Technical writing for ID	3	---	---	3	---
2901032	Freehand Drawing I	1	4	----	3	---
2901080	Freehand Drawing II	1	4	-----	3	2901032
2901020	Engineering Graphics for Interiors	2	2	0	3	---
2901040	Materials Technology	2	---	---	2	---
2901060	Interior Design I	1	6	----	4	2901010
2902020	Model Building	1	4	----	3	2901020 2901040
2902010	Interior Design II	1	6	----	4	2901060
2902060	Interior Design III	1	6	----	4	2902010
2902030	History of Interior Design I	3	---	---	3	2901060
2902080	History of Interior Design II	3	---	---	3	2902030
2901070	Color in Interior Design	2	2	----	3	---
2902070	Interior Construction I	2	2	----	3	2901020 2901040
2901090	Furniture Design	1	4	-----	3	2901010 2901020
2902040	Lighting and Acoustics in Interior Design	2	2	----	3	2901060
2903010	Interior Design IV	1	8	----	5	2902060
2903040	Interior Design V	1	8	----	5	2903010
2903020	Interior Construction II	2	2	----	3	2902070
2903030	Interiors in the UAE	3	---	----	3	2902060
2903050	Working Drawings I	2	2	----	3	2903020
2903230	Practice in Interior Design	3	--	--	3	290213
2903060	Sustainability for ID	3	---	---	3	2903010
2904020	Working Drawings II	1	2	----	2	2903050
2904010	Graduation Project I	2	2	----	3	2903040
2904030	Graduation Project II	1	8	----	5	2904010
2904100	ID Practical Training	---	---	---	4	2903040

(5) Specialization Requirements Electives: (9 Cr. Hrs.)

The student will take three of the following Specialization Electives as approved by the academic advisor.

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
2905010	Selected Topics in Fur. Des	1	4	---	3	2901090 2903010
2905020	Islamic Interiors	3	---	---	3	2903010

2905030	Theory of Interior Design	3	---	---	3	2903010
2905040	Selected Topics in Interior Design	1	4	---	3	2903010
2905060	Architectural Design for Interiors	3	---	---	3	2903010

Proposed Study Plan

First Year – Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr.Hrs.	Lec	St. Hrs.	Lab	
2901010	Introduction to Interior Design	3	1	4	-	-
2901020	Engineering Graphics for Interiors	3	2	2	-	-
2901032	Freehand Drawing I	3	1	4	-	-
2901040	Materials Technology	2	2	-	-	-
1041200	IT Fundamentals	3	2	2	-	-
1021100	Islamic Culture	3	3	1 Tut.	-	-
Total		17				

First Year – Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr.Hrs.	Lec	St. Hrs.	Lab	
2901060	Interior Design I	4	1	6	0	2901010
2901070	Color in Interior Design	3	1	4	0	2901010
2901080	Freehand Drawing II	3	1	4	0	2901032
2901090	Furniture Design	3	1	4	0	2901010 2901020
2901100	CAD I for Interiors	3	1	0	4	1041100
2901052	Technical Writing for ID	3	3	--	0	
Total		19				

Second Year – Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr.Hrs.	Lec	St. Hrs.	Lab	
2902010	Interior Design II	4	1	6	0	2901060
2902030	History of Interior Design I	3	3	---	0	2901060
2902020	Model Building	3	1	0	4	2901020 , 2901040
2902040	Lighting &Acoustics for ID	3	2	2	0	2901060
2902050	CAD II for Interiors	3	1	0	4	2901100
1031333	Statistics/Art Major	3	2	2 (Tut.)	0	
Total		19				

Second Year – Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr.Hrs.	Lec	St. Hrs.	Lab	
2902060	Interior Design III	4	1	6	-	2902010
2902080	History of Interior Design II	3	3	0	-	2902030
2902070	Interior Construction I	3	2	2	-	2901020 , 2901040
290209	Psychology of Design	3	3	0	-	2902010
1021400	Comm. skills in Arabic Lang.	3	3	0	-	---
xxxxxxxx	University Elective	3	---	---	-	2902010
Total		19				

Third Year – Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr.Hrs.	Lec	St. Hrs.	Lab	
2903010	Interior Design IV	5	1	8	-	2902060
2903020	Interior Construction II	3	2	2	-	2902070
2903030	Interiors in the UAE	3	3	0	-	2902060
1031200	Environmental Science	3	3	0	-	---
110140	Math for Management	3	3	2 (Tut.)	-	---
Total		17				

Third Year – Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr.Hrs.	Lec	St. Hrs.	Lab	
2903040	Interior Design V	5	1	8	-	2903010
2903050	Working Drawings I	3	2	2	-	2903020
xxxxxxxx	Special Elective I	3			-	-
2903060	Sustainability for ID	3	3	0	-	2903010 , 1031200
xxxxxxxx	University Elective II	3			-	
Total		17				

>> External Training I - 2 Cr. Hrs. (6 weeks)

Fourth Year – Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr.Hrs.	Lec	St. Hrs.	Lab	
2904010	Graduation Project I	3	2	2	-	2903040
2904020	Working Drawings II	2	1	2	-	2903050
xxxxxxxx	University Elective III	3			-	-
xxxxxxxx	Special Elective II	3			-	-
Total		11				

Fourth Year – Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Cr.Hrs.	Lec	St. Hrs.	Lab	
2904030	Graduation Project II	5	1	8	-	2904010
xxxxxxxx	Special Elective III	3			-	-
2904040	Practice in Interior Design	3	3	0	-	2904020
Total		11				

>> External Training II - 2 Cr. Hrs. (6 weeks)

Interior Design Department Course Descriptions

Introduction to Interior Design **Course Code: 2901010**

Credit Hours: 3Cr. Hrs.: Theory (1 hrs.), Studio (4 hrs.)

Pre-Requisite: None Co-Requisite: 2901020, 2901040

This course aims to introduce students to the basic elements of design, its principles, visual aspects with their perception, design vocabulary and their application in design. It also familiarizes the students with the implementation of fundamental concepts and elements of Interior Design.

Engineering Graphics for Interiors **Course Code: 2901020**

Credit Hours: 3Cr. Hrs.: Theory (2 hrs.), Studio (2 hrs.)

Pre-Requisite: None Co-Requisite: None

This course aims to familiarize students with basic drafting skills and essential fundamental concepts of interior design drafting by introducing the principle of parallel- line drawings, orthogonal projections, and rendering techniques. It enables students to understand the use of 2-D, 3-D parallel and orthographic projections in interior design projects.

Freehand Drawing I **Course Code: 2901032**

Credit Hours: 3Cr. Hrs: Theory (1 hrs.), Studio (4 hrs.)

Pre-Requisite: None Co-Requisite: None

This course aims to introduce a solid grounding in the principles of freehand drawing. The emphases are on teaching basics of drawing and composition, including how to create sketch perspectives, assume scale, and introduce textures and tones into their illustrations of interior spaces. It enables students to conceptualize their imagination in the field of interior design.

Materials Technology **Course Code: 2901040**

Credit Hours: 2 Cr. hrs.: Theory (2 hrs.)

Pre-Requisite: None Co-Requisite: None

This course aims to provide the interior design students the technical aspects of surface and structural materials. It enables students to learn how to apply innovative material concepts of three-dimensional design to the reality of finished space in respect of human behavior, environmental needs, and regulations.

Technical Writing for Interior Design **Course Code: 290 1052**

Credit Hours: 3Cr. Hrs.: Theory (3 hrs.)

Pre-Requisite: None Co-Requisite: None

This course intends to develop interior design students' proficiency and communicative competence in technical/professional writing and oral presentation skills. Following the statement that "Write to communicate," in Design should be focused on showing rather telling, students learn how to organize and express facts and ideas about their profession

through written words. Coursework focuses on the production of technical and research documents used in industry for possible audiences, simultaneously practical and interactive assignments designed specially to improve their verbal communication.

Interior Design I **Course Code: 2901060**

Credit Hours: 4Cr. Hrs.: Theory (1 hrs.), Studio (6 hrs.)

Pre-Requisite: Introduction to Interior Design (2901010) Co-Requisite: 2901070, 2901090

This course introduces the students to residential interior design and its requirements, including interior space planning, furniture arrangements, and design treatments. Students should be introduced to the basics of interior design concept, gathering data of several client's needs and types. Classify the residential activities and functions to arrange the elements of interiors, like furniture, accessories, and floor wall ceiling materials, in a unified design.

Color in Interior Design **Course Code: 2901070**

Credit Hours: 3 Cr. Hrs.: Theory (2 hrs.), Studio (2 hrs.)

Pre-Requisite: None Co-Requisite: Interior Design I (2901060)

This course provides students with a background in color theories as it relates to interior design including color schemes. The class consists of lectures, discussions and in-class exercises through individual and group work. Lectures explain the physics of color, color theories, physiology of color, the psychology of color, color in art and practical assignments focusing on the application of color in residential design project in the design studio.

Freehand Drawing II **Course Code: 2901080**

Credit Hours: 3 Cr. Hrs.: Theory (1 hrs.), Studio (4 hrs.)

Pre-Requisite: Freehand Drawing I (2901032) Co-Requisite: None

This course is the one built on the knowledge and skills acquired in freehand I. Students continue developing the cognitive process associated with the drawing studies of space in multiple relationships. Variety of assignments emphasize on students learning the development of personal, introspective illustrations and rapid concept development as well as an exploration of various media in experimental applications.

Furniture Design **Course Code: 2901090**

Credit Hours: 3 Cr. Hrs.: Theory (1 hrs.), Studio (4 hrs.)

Pre-Requisite: Introduction to Interior Design (2901010) , Engineering Graphics for Interiors (2901020) Co-Requisite: Interior Design I (2901060)

This course is an introduction to the furniture design process considering all its aspects such as aesthetic design issues, structure, ergonomics, anthropometry functionality, materials technology, and manufacturability. The course also incorporates the study of history and design of residential and commercial furniture styles and periods along with the contemporary design, which leads the Students to utilize the design process to explore and formulate concepts, communicate those design ideas, and fabricate a quality furniture piece based on their research and design solutions.

CAD I for Interiors **Course Code: 2901100**

Credit Hours: 3 Cr. Hrs.: Theory (1 hrs.), Lab (4 hrs.)

Pre-Requisite: IT Fundamental (1041200) Co-Requisite: None

This course aims to introduce students to Computer Aided Design and drafting (CADD) and its application for interior design projects using autoCAD software. Topics include 2D tool palette, object information, resources and command box windows, dimensioning tool, scale, layers, line weight and symbols. It is also includes file management, printing and plotting methods enable students to demonstrate their understanding, skills and proficiency in producing both "presentation" and "technical" styles of Interior design drawings.

Interior Design II **Course Code: 2902010**

Credit Hours: 4 Cr. Hrs.: Theory (1 hrs.), Studio (6 hrs.)

Pre-Requisite: Interior Design I (2901060) Co-Requisite: 2902020, 2902040

This course introduces students to the factors important in the successful design of retail stores, cafés, restaurants and hair salons in urban and shopping mall settings. Students learning comprises many aspects from interior space utilization, façade design, display fixtures fitting and furniture design, visual merchandising to signage and lighting design principles as well as the role of the interior designer in branding and the selling of a product by understanding customer behavior.

Model Building **Course Code: 2902020**

Credit Hours: 3 Cr. Hrs.: Theory (1 hrs.), Lab (4 hrs.).

Pre-Requisite: Engineering Graphics for Interiors (2901020), Materials Technology (2901040). Co-Requisite: Interior Design II (2902010)

This course is an introduction to understanding the way that designers use models in their design project. Students are encouraged to learn that three-dimensional model is making from a variety of simple materials, sculpting, mold-making, wood joinery, laser cutting and 3D printing to support design development for their design projects. In addition, an induction lecture helps students to arrange the materials on samples board for their design project.

History of Interior Design I **Course Code: 2902030**

Credit Hours: 3 Cr. hrs.: Theory (3 hrs.)

Pre-Requisite: Interior Design I (2901060) Co-Requisite: None

This course aims to introduce students a critical overview of the history of interior design, its connection to different periods and cultures, and its integral relationship with the interior, architecture, and decorative arts. Lecture, readings, and field trips focus on the development of major forms, period styles, and ornament from ancient Egypt, Greece, and Rome through the Renaissance, Baroque, Rococo, and Neoclassical eras.

Lighting and Acoustics for Interior Design Course Code: 2902040

Credit Hours: 3 Cr. Hrs.: Theory (2 hrs.), Studio (2 hrs.)

Pre-Requisite: Interior Design I (2901060) Co-Requisite: Interior design II (2902010)

The course aims to introduce interior design students with lighting design system, lighting graphics, the creation of specifications' legend and basic control systems as well as special topics such as decorative luminaires and energy efficiency. The course explores the physical influence of lighting on color. The course includes in-depth mathematical calculations used to determine the amount of natural and artificial lighting and acoustic treatment required to meet specific codes and clients' needs. Various factors of sound and vibration control are also included to understand acoustic behavior in interior space.

CAD II for Interiors Course number: 2902050

Credit hours: 3 Cr. Hrs.: Theory (1 hrs.), Lab (4 hrs.)

Pre-Requisite: CAD I for Interiors (2901100) Co-Requisite: None

Building on the skills from CAD I, this course aims to teach students an advanced three dimensional, rendering and presentation software packages. In addition, students will utilize their learning skills to develop their projects and design analyses outcome, which will enhance their 3D computer visualization skills, as well as generative types of CAD concepts.

Interior Design III Course Code: 2902060

Credit Hours: 4 Cr. Hrs.: Theory (1 hrs.), Studio (6 hrs.)

Pre-Requisite: Interior Design II (2902010) Co-Requisite: 290209

The course aims to introduce students to commercial interior design such as offices' interiors in the setting of administrative and public buildings. The course contents would then enable the students to design office interiors with emphasis placed on planning, circulation, furniture arrangement, color, lightings and other design treatments. The students can recognize the organizational charts and the nature of the business to provide the successful design.

Interior Construction I Course Code: 2902070

Credit Hours: 3 Cr. Hrs.: Theory (2 hrs.), Studio (2 hrs.)

Pre-Requisite: Engineering Graphics for Interiors (2901020), Materials Technology (2901040) Co-Requisite: Interior Design III (2902060)

This course would help students, both in exploring the finishing materials, and in understanding, the principle involved in selecting materials for interior spaces. They will identify the elements of interior structure, and recognize physical and visual properties, dimensional characteristics of common used finishes for interior spaces by using the graphic material symbols in their drawings.

History of Interior Design II Course Code: 2902080

Credit Hours: 3 Cr. hrs.: Theory (3 hrs.)

Pre-Requisite: History of Interior Design I (2902030) Co-Requisite: None

This course introduces students to ideas and approaches to the study of design history and theories with particular emphasis on the contemporary interior environment. Lectures, discussion and field trips help students to explore wide range of built environment and the use of historical documents. Analysis of various movement and their development phase enable students to understand broad historical frameworks.

Psychology of Design **Course Code: 290209**

Credit Hours: 3 Cr. hrs.: Theory (3 hrs.)

Pre-Requisite: Interior Design II (2902010) Co-Requisite: Interior Design III (2902060)

The course introduces the students to the basic psychology of designing spaces that deals with human occupancy. The study of interaction between human behavior and physical environment enable the students to examine perception and cognition, cultural differences in spatial context, proxemics and the role of values in the design of interior environment. Focusing on socio- psychology and aesthetics, students analyze all other aspects of human behavior in interior atmosphere to design comfortable environment for the end user.

Interior Design IV **Course Code: 2903010**

Credit Hours: 5 Cr. hrs.: Theory (1 hrs.), Studio (8 hrs.)

Pre-Requisite: Interior Design III (2902060) Co-Requisite: Interior Construction II (2903020)

This course provides students with an introduction to the process of designing hospitality areas specifically hotel interiors. Lectures from guest speakers and industry professionals enable students to gain an overview of all aspects of hotel design including designing for communal areas and understanding room typologies. Students learn how to create a concept based on local culture its influence and how to respond to a brief from a client. Their learnings extended to the field of interior landscape design. The off-site visits take place at a luxury hotel to understand the operation of these hotels that help them to create successful design.

Interior Construction II **Course Code: 2903020**

Credit Hours: 3 Cr. Hrs.: Theory (2 hrs.), Studio (2 hrs.)

Pre-Requisite: Interior Construction I (2902070) Co-Requisite: Interior Design IV (2903010)

This course would assist the students exploring the interiors' structural elements such as load bearing structure, partitions, door construction, ceiling and floor design system including interior furnishing and its construction details, based on information gathered within the previous pre-request course interior construction I. In addition, it improves their understanding of custom design working.

Interiors in the UAE **Course Code: 2903030**

Credit Hours: 3 Cr. hrs.: Theory (3 hrs.)

Pre-Requisite: Interior Design III (2902060) Co-Requisite: None

The aim of the course is to allow the students to research and study the various UAE, traditional and contemporary residential interiors. This course would then enable students to develop knowledge for the local culture, customs and materials used in UAE constructions, which would help them to utilize this in their current and future design projects.

Interior Design V **Course Code: 2903040**

Credit Hours: 5 Cr. Hrs.: Theory (1 hrs.), Studio (8 hrs.)

Pre-Requisite: Interior Design IV (2903010) Co-Requisite: 2903050, 2903060

This course aims to introduce students to design various types of exhibitions areas i.e. Temporary exhibitions, permanent exhibitions, museum and trade shows etc. Students refine their skills and knowledge while designing an exhibition using an existing plan with focus on how the various elements of an exhibition plan (such as architecture, lighting, display furniture, and didactics) aid the audiences' interpretation of the artefacts. Students learn how to select the appropriate form of documentation for the exhibitions they create for their projects (trade shows and museums).

Working Drawings I **Course Code: 2903050**

Credit Hours: 3 Cr. hrs.: Theory (2 hrs.), Studio (2 hrs.)

Pre-Requisite: Interior Construction II (2903020) Co-Requisite: Interior Design V (2903040)

The aim of this course is to introduce students to working drawings sets provide dimensioned, graphical information that can be use by a contractor to construct the interiors, or by suppliers to fabricate components of design to assemble or install them as per requirement on site. Focusing on design project detailing, students also learn the construction techniques of their custom design components in this course.

Sustainability for Interior Design **Course Code: 2903060**

Credit Hours: 3 Cr. hrs.: Theory (3 hrs.)

Pre-Requisite: Interior Design IV (2903010) Co-Requisite: None

The aim of this course is to introduce the methodology of sustainability to the interior design students. The environmental issues are an important part in our life and in our future. The interior design field is concerned about the welfare of the people and their interior, so they need to have a sound knowledge of sustainability and its impact on the individual and society. This course should have as a primary objective to explain and recognize the basic meaning of sustainability as philosophy, concept, and principles to guide our students from the first level of the design to construction as well as post construction phase.

Graduation Project I **Course Code: 2904010**

Credit Hours: 3 Cr. hrs.: Theory (2 hrs.), Studio (2 hrs.)

Pre-Requisite: Interior Design V (2903040) Co-Requisite: None

The aim of this course is to help the students in the preparation of an analytical and technical report of their individually chosen graduation project, and would be able to gather data successfully of any chosen project, to collect and analyze needed information for the chosen project, develop in aesthetics and functional needs in interior design spaces.

Working Drawings II **Course Code: 2904020**

Credit Hours: 2 Cr. hrs.: Theory (1 hrs.), Studio (2 hrs.).

Pre-Requisite: Working Drawings I (2903050) Co-Requisite: None

Follow-up with the course working drawing I, students prepare a complete set of contract documents means by which interior design communicate to the building construction industry, code officials, product manufacturers, suppliers, vendor and fabricators. These documents includes Working drawings, specifications, bill of quantities, work schedule etc. While working on given design project, students will acquire a logical approach of these document preparations.

Graduation Project II **Course number: 2904030**

Credit hours: 5 Cr. hrs.: Theory (1 hrs.), Studio (8 hrs.)

Pre-Requisite: Graduation Project I (2904010) Co-Requisite: None

The course gives the student an opportunity to explore his/her ability and knowledge of dealing with actual existing project in interior design. By using the suitable furnishing requirements, student can create an aesthetic and functional interior design through two main objectives, theoretical and practical to define the different functions applications and its positive and negative points.

Practice in Interior Design **Course Code: 2904040**

Credit Hours: 3 Cr. hrs.: Theory (3hrs.)

Pre-Requisite: Working Drawing II (2904020) Co-Requisite: Graduation Project II (2904030)

The aim of this course is to incorporate the basic business theories into the practice of Interior Design. It covers the various principles, which constitute the pillars of business science, to the Interior Design professional. The course develop the skills required in the field of interior design marketing and prepares the students both for employment as well as for future opportunities to set up their own design office as a professional business.

Selected Topics in Furniture Design **Course Code: 2905010**

Credit Hours: 3 Cr. hrs.: Theory (1 hrs.), Studio (4 hrs.)

Pre-Requisite: Furniture Design (2901090), Interior Design IV (2903010) Co-Requisite: None

The aims of the course is to make students more familiar with programming and conceptual design expressed in sketches, and models, as well as with shop drawings and presentation drawings, understanding the aesthetic and functional/ ergonomic aspects of furniture as well as the technological aspects of producing furniture. This course should

help students understand some sociological factors that influence the methodologies of educational investigation in interior and furniture design. This project will assess their presentation skill, imagination and creativity.

Islamic Interiors **Course number: 2905020**

Credit hours: 3 Cr. hrs.: Theory (3 hrs.)

Pre-Requisite: Interior Design IV (2903010) Co-Requisite: None

The aim of the course is to allow the students to search and understand the philosophy of Islamic interiors, with emphasis on decorative elements and accessories. At the end of the course students would be able to implement the basic rules of Islamic interiors depend on the chosen style, using basically the decorative components of Islamic interiors such as; pattern, color, trims and accessories.

Theory of Interior Design **Course Code: 2905030**

Credit Hours: 3 Cr. hrs.: Theory (3 hrs.).

Pre-Requisite: Interior Design IV (2903010) Co-Requisite: None

The aim of this course is to strengthen the students' theoretical background throughout analyze, criticize, and methods and discovering the contemporary theories of designing interiors.

Selected Topics in Interior Design **Course Code: 2905040**

Credit Hours: 3 Cr. hrs.: Theory (1 hrs.), Studio (4 hrs.)

Pre-Requisite: Interior Design IV (2903010) Co-Requisite: None

The aim of this course is to enable the students to develop in research, analysis and criticism capability in the interior design project not covered in design courses. It aims also to explore and present selected topics in interior design. Guiding study and exploration of subjects not covered by other courses in the discipline and successfully analyze, criticize interior design spaces through recognize the program design for divers' project type.

Architectural Design for Interiors **Course Code: 2905060**

Credit Hours: 3 Cr. hrs.: Theory (1 hrs.), Studio (4 hrs.)

Pre-Requisite: Interior Design IV (2903010) Co-Requisite: None

The aim of the course is to enhance the interior design students' skills in creating and solving special problem related to the function of interior spaces; re-designing partitions based on structure information, adding new spaces to success the interior design function, to integrate the interior design with the architectural building. As well as to complete the interior design curriculum by designing the landscape spaces with its need of light building structures as an artistically sculpted structures to fit the aesthetical need of this area.

Interior Design Practical Training **Course Code: 290 4100**

Credit Hours: 4 Cr. hrs.: (2-2 hrs. External Training)

Pre-Requisite: Interior Design V (290 3040) Co-Requisite: None

The aim of this training is to enable students gaining basic professional interior design knowledge, such as; interior finishing materials, suppliers, materials specification, bill of quantity, cost estimation.

Faculty members of the College of Engineering

University of Science and Technology of Fujairah					
Name	**Rank**	**Specialization**	**Degree**	**Date**	**University**
Prof. Dr. Ali Abou-Elnour	Professor Acting Dean	Microwave Electronics	PhD	1994	Technical University Hamburg-Harburg (Germany)
Dr. Amir J. A. Majid	Associate Professor	Control and Power Engineering	PhD	1980	University of Loughborough (England)
Dr. Mohamed Tarique	Associate Professor	Communication Network	PhD	2007	University of Windsor (Canada)
Prof. Platon Alexiou	Professor	Interior Design	PhD	1993	National University of Athens (Greece)

17 | College of Mass Communication

Message

The quest of the College of Mass Communication is to prepare highly-educated professionals who are creative and able to acquire educational abilities, high-level skills in Public Relations and Advertising and Sociology and Social Work, and Psychology.

The college also takes special interest in the theoretical formation and practical training of the students majoring in Public Relations, Advertising, in Sociology and Social Work, and Psychology. This is achieved in accordance with the latest standards in training and qualification in these fields. Through graduation projects, students make distinctive works such as producing films, organizing exhibitions, sociological projects, issuing magazines and preparing and executing media and public relations campaigns. Moreover, the college exerts every possible effort to develop the academic programs in accordance with the latest theories and approaches. The college will also try to offer new programs that will keep pace with the requirements of the modern age and the needs of the job market.

Vision

The College of Mass Communication aims to promote and support the educational process in society, and it adopts the positive aspects of modernity. The college believes that education, research and training require continuous development. Such development will be achieved only in an environment that is open to innovation and stimulates creativity and encourages the spread of centers of excellence, an environment that has a solid infrastructure, capable of supporting the process of communication and academic interaction.

Mission

The College mission is to provide students with solid academic education in both Public Relations and Advertisement and Sociology, Social Work, and Psychology. That is in line with the best international standards and in order to graduate generations of specialists who are able to cope with the latest technological developments and advances in all these fields.

Objectives

- To introduce the latest and the most important theoretical knowledge in Public Relations and Advertisement and Sociology, Social Work, and Psychology.
- Provide students with the needed applied skills to produce different media items and programs by using the college studios and labs or through field training.
- Upgrade their performance in accordance with working legislations and ethics.
- Develop critical and innovative thinking to help them to evaluate the local, regional and international work environment.
- Promote media and sociological research methods which enable graduates to work in research centers or continue their higher studies.

- Students who wish to join the BA media program are required to score 450 in TOFEL or its equivalent as for the students of Sociology and Social Work and Psychology, they are exempted from the above condition.

Programs

Bachelor of Arts in Public Relations and Advertising

Facilities

Educational Technological Resources: In accordance with its efforts to provide the appropriate educational environment and in compliance with the standards of the CAA and the educational strategies, the USTF has provided the appropriate lecture rooms to meet all the needs of the teaching process like data show and easy access to the Internet to expose students to the practical aspects during teaching.

Laboratories

Within its annual plan to develop and support labs, the college tries to meet the required standards. The labs contain modern instruments and programs such as:

- Macintosh Lab
- Multimedia lab.
- Editing Lab.
- Radio and Television Studio.

Faculty members of the College of Mass Communication

University of Science and Technology of Fujairah					
Name	**Rank**	**Specialization**	**Degree**	**Date**	**University**
Dr. El Mahi Abdullah Elmahi	Assistant Professor Dean	English	PhD	1986	Exeter, UK
Dr. Yassine Adam Busati	Assistant Professor	Mass Comm.	PhD	2007	Umm Durman University\ Sudan
Dr. Khalid Khalfallah Sulaiman	Assistant Professor	Mass Comm.	PhD	2010	Al Jazeera University \ Sudan
Dr. Magda Khalfalla Elobed	Assistant Professor	Mass Comm.	PhD	2009	Umm Durman University \ Sudan
Dr. Elsayed Mohamed Abdelrahman	Assistant Professor	Sociology	PhD	2003	Juba University \ Sudan

18 | College of Law

The College of Law at University of Science and Technology of Fujairah (USTF) was established to be one of the best legal educational institutions at the local and regional level and to perform its function among the UAE higher education institutions by preparing legal generations capable of generously giving back to their country and region. The history of the College of Law dates back to 2003 when the College began its first steps by offering a bachelor's program in law. This program was submitted to the Commission for Academic Accreditation (CAA) at the Ministry of Education.

Mission

The College seeks to provide the appropriate scientific environment for encouraging creativity in the various legal areas through the adoption of distinguished academic programs that aim to graduate qualified and trained lawyers and also to deepen comparative legal research in the regional and international issues in order to meet the needs of the community especially in the United Arab Emirates, in particular, and the other Arab countries in general.

Objectives

- Building a scientific and administrative structure capable of activating the knowledge system.
- Achieving a balance between the academic, social, and economic objectives of the College.
- Providing scientific advice in the areas of specialization of the College and cooperating in the field of research with the local community
- Holding conferences, seminars and workshops and preparing effective programs for continuous education
- Preparing systematic programs for continuous education, competency development and community service
- Graduating qualified students who are able to obtain knowledge and achieve excellence in their profession
- Extending bridges of communication and cooperation between the College, external institutions, and scientific research centers regionally and internationally.

College Departments

The College has two departments:

- Department of Public Law
- Department of Private Law.

Offered Programs

The programs that are offered by the college:

- Bachelor of Laws

Faculty members of the College of Law

University of Science and Technology of Fujairah					
Name	**Rank**	**Specialization**	**Degree**	**Date**	**University**
Dr. Issa Rabadi	Assistant Professor Dean	Special Law	PhD	2006	Ain Shams University / Egypt
Prof. Khalaf Mohmmad	Professor	Special Law	PhD	1997	Om Al Qurah University / KSA
Dr. Mohammad Hassan	Assistant Professor	Special Law	PhD	2007	Ain Shams University / Egypt
Dr. Enas Al Khaledy	Associate Professor	Special Law	PhD	2008	Menofia University/Egypt
Dr. Mohammed Al Musawi	Associate Professor	General Law	PhD	2010	Université al qadi ayyad/ Morocco
Dr. Amein Dhamash	Assistant Professor	General Law	PhD	2001	Ain Shams University/Egypt

19 | College of Pharmacy and Health Sciences

The College of Pharmacy and Health Sciences (COPHS) was founded in accordance with the university's policy of establishing an innovative medical environment which embraces health sciences, i.e. dentistry, medical technology, etc., in addition to pharmacy. The establishment of COPHS is intended to meet the demand for pharmacists in hospitals and community pharmacies, and to provide manpower for the increasing number of private pharmacies and the growing pharmaceutical industry in the UAE and the region.

Mission

The mission of the College of Pharmacy and Health Sciences is to create an environment that promotes excellence in pharmaceutical education, practice and research. It is committed to the continuous improvement of its programs to keep abreast with the rapid advances in the profession of pharmacy and the provision of pharmaceutical care. It strives to prepare students to become competent, reliable and ethical health care professionals.

Degree Programs

The College offers the following program:

- Bachelor of Pharmacy (BPharm)

Facilities

Laboratory Facilities

The college has several laboratories, covering the various branches of pharmaceutical science, which have the latest equipment. These laboratories have the instrumental apparatus which will enable students to gain sound practical skills as well as integrate theoretical study with real practical methods and techniques.

Computer Facilities

The college receives full technical support and assistance from the University Computer Center which provides its services all year round to administrators, staff and students. The computer laboratories at the center are well-equipped and are available for use throughout the day; they are administered by trained staff who assist in solving problems and answering queries.

Bachelor of Pharmacy

Program Objectives

- To prepare students for the practice of pharmacy by providing them with the scientific background, clinical and technical skills that they will need to successfully complete their program of study.
- To provide an educational environment that enables students to acquire the behavior, and moral and ethical attitudes they will need to practice the profession competently and ethically.

Program Outcomes

The intended outcomes of the program are that students will be able to:

- Demonstrate knowledge of the basic and clinical science back¬ground of pharmacy practice
- Implement the processes of compounding and dispensing med¬ications, interpreting prescription orders and applying calculations related to the compounding and dispensing of medicines
- Demonstrate knowledge of the basic skills and techniques involved in drug manufacture and development, drug design and screening and quality assurance of pharmaceutical products
- Demonstrate knowledge of the rational use of herbal supplements, fundamentals of phytotherapy and the hazards of poisonous and abused natural products
- Participate in patient care by influencing optimal drug choice and dosage through effective communication with health care providers and patients
- Display legal, moral and ethical attitudes and behaviors consistent with the standards of the profession
- Demonstrate the ability to lead and to function both independent¬ly and as a member of a team
- Develop self-learning skills, problem solving and critical thinking abilities and the ability to retrieve, evaluate and manage informa¬tion in the literature
- Demonstrate the ability to write clear and organized reports, and to present oral communications
- Develop the necessary skills in information use and management to educate health care professionals and the public in optimal drug therapy

Mapping of the B. Pharm PLOs to the UAE's qualification framework.

UAE's Qualifications Frameworks Learning Outcomes Strands	B. Pharm. Program learning outcomes (PLOs)
On successful completion of the BPharm program, graduates will be able to:	
Knowledge	K1. Demonstrate knowledge of the basic and clinical science background of pharmacy practice.
	K2. Demonstrate knowledge of the basic skills and techniques involved in drug manufacture and development, drug design and screening and quality assurance of pharmaceutical products.
	K3. Demonstrate knowledge of the rational use of herbal supplements, fundamentals of phytotherapy and the hazards of poisonous and abused natural products.
Skill	S1. Implement the processes of compounding and dispensing medications, interpreting prescription orders and applying calculations related to the compounding and dispensing of medicines.
	S2. Participate in patient care by influencing optimal drug choice, type of dosage form and the design of dosage regimens.

		S3. Develop problem solving and critical thinking abilities and the ability to retrieve, evaluate and manage information in the literature.
		S4. Demonstrate the ability to write clear and organized reports, and to present oral communications.
Aspects of Competence	**Autonomy and responsibility**	C1. Demonstrate the ability to lead and to function both independently and as a member of a team.
	Role in context	C2. Display legal, moral and ethical attitudes and behaviours consistent with the standards of the profession. C3. Develop communication skills in order to effectively counsel patients on their medications. C4. Develop the necessary skills in information use and management to educate health care professionals and the public in optimal drug therapy.
	Self-development	C5. Develop independent study skills for life-long learning and continuous professional development.

Admission Requirements

Prospective candidates seeking admission to the Bachelor of Phar¬macy (BPharm) program should fulfill the following requirements:

- Secondary school certificate (Advanced Stream - MOE), or its equivalent, with a minimum grade of 70 percent, approved by the UAE Ministry of Education
- A score of 500 or higher in the TOEFL English proficiency test, or the equivalent
- Personal interview
- Demonstration of good conduct and maturity
- Please see the university admission requirements for more detail.

Career Opportunities

The curriculum is designed and continuously improved with the aim of preparing graduates to be able to effectively deliver pharmaceutical services in the private sector as well as in governmental agencies. Pharmacy graduates have the opportunity to work in different placements related to pharmacy profession:

- Community pharmacies
- Hospital pharmacies
- Pharmaceutical industry
- Pharmaceutical scientific laboratories
- Wholesale drug stores
- Medical representations
- Pharmaceutical administration
- Food control and analysis
- Pharmaceutical education and research

Graduation Requirements

The degree of Bachelor of Pharmacy (BPharm) will be awarded after successful completion of least one hundred and fifty credit hours (150 Credit Hours), including the university

requirement courses. The period of study normally takes eight regular semesters and two-three summer semesters. In addition, every student should have field training in community pharmacies, hospital pharmacies and pharmaceutical industry of not less than 600 contact hours which is equivalent to 15 credit hours. The minimum cumulative grade point average (CGPA) for graduation is 2.0.

Degree Requirements

The pharmacy student will be awarded the degree of Bachelor of Pharmacy (BPharm) after the successful completion of at least 150 Credit Hours, including the university requirement courses, distributed according to the following plan:

Type of Courses	Cr. Hrs.
1. University General Education Requirements	**24**
• (a) University Required Courses	15
• (b) University Elective Courses	9
2. College Requirements	**126**
• (a) College Required Courses	108
• (b) College Required Training Courses	15
• (c) College Electives Courses	3
Total Credit Hours	**150**

(1) University General Education Requirements

(a) University Required Courses (15 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
102110-0	Islamic Culture	3	0	1	3	-
102140-0	Communication Skills in Arabic Language	3	0	0	3	-
103110-1	Statistics	2	2	0	3	-
103120	Environmental Sciences	3	0	0	3	-
104110-0	Computer Applications	2	2	0	3	-

(b) University Elective Courses (9 Cr. Hrs.)

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
102120	The miraculousness of the holy Koran	3	0	0	3	-
103130	Research Methodology	3	0	0	3	-
112110	Principles of Architecture and Art	3	0	0	3	-
112120	Principles of Interior Design	3	0	0	3	-
112130	Modern Technology and Society	3	0	0	3	-
113110	Internet Concepts	3	0	0	3	-
113120	Introduction to Information Systems	3	0	0	3	-
114110	Economic Concepts	3	0	0	3	-
114120	Entrepreneurship Development	3	0	0	3	-
115110	History of science in Islam	3	0	0	3	-
115120	Scientific pioneering	3	0	0	3	-
115130	General psychology	3	0	0	3	-
115140	Principle of mathematics	3	0	0	3	-

115150	The Art of Expression and writing	3	0	0	3	-
115160	Emirates Society	3	0	0	3	-
115170	Education Technology	3	0	0	3	-
117110	General chemistry	3	0	0	3	-
117120	Fundamental of Human Nutrition	3	0	0	3	-
117130	First Aid	3	0	0	3	-
117140	Energy, Water and Environment	3	0	0	3	-
117150	Applications of Remote sensing	3	0	0	3	-
118110	Principles of Ethics	3	0	0	3	-
118120	General Biology	3	0	0	3	-
118130	Oral Health	3	0	0	3	-
118140	General principles of Epidemiology	3	0	0	3	-
118150	CPR-Cardio Pulmonary Resuscitation	3	0	0	3	-
119110	Communication Skills	3	0	0	3	-
119120	Introduction to Communication Sociology	3	0	0	3	-
119130	Information Society	3	0	0	3	-
120115	Legal Culture	3	0	0	3	-

(a) Required Courses - Department of Pharmaceutics

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700111	Introduction to Pharmacy	2	2	0	3	-
700112	Physical Pharmacy I	2	2	0	3	700111
700212	Physical Pharmacy II	2	2	0	3	700112
700213	Pharmaceutical Dosage Forms I	2	2	0	3	700112
700214	Pharmaceutical Dosage Forms II	2	2	0	3	700213
700311	Biopharmaceutics and Pharmacokinetics I	2	2	0	3	700214 700422
700312	Biopharmaceutics and Pharmacokinetics II	2	2	0	3	700311
700413	Pharmaceutical Technology	3	2	0	4	700212 700214
700415	Pharmaceutical Technology Training	2	2	0	3	700413

(b) Required Courses - Department of Pharmaceutical Chemistry and Pharmacognosy

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700124	Pharmaceutical Botany	2	2	2	3	-
700127	General Pharmacognosy	3	2	0	4	700124
700128	Pharmaceutical Organic Chemistry I	2	2	0	3	-
700129	Pharmaceutical Organic Chemistry II	2	2	0	3	700128
700222	Pharmaceutical Analytical Chemistry I	2	2	0	3	700128
700223	Pharmaceutical Analytical Chemistry II	2	2	0	3	700222
700321	Phytochemistry	3	2	0	4	700127 700425
700323	Medicinal and Pharmaceutical Chemistry I	2	2	0	3	700129 700333
700324	Medicinal and Pharmaceutical Chemistry II	2	2	0	3	700323
700422	Instrumental Analysis I	2	2	0	3	700223
700425	Instrumental Analysis II	2	2	0	3	700422

(c) Required Courses - Department of Pharmacology and Toxicology

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700135	Principles of Human Anatomy and Physiology I	3	2	0	4	-
700136	Principles of Human Anatomy and Physiology II	2	2	0	3	700135
700231	Biochemistry I	2	2	0	3	700129
700232	Biochemistry II	2	2	0	3	700231
700235	Pharmacology and Therapeutics I	2	2	0	3	700136
700238	Pharmacology and Therapeutics II	2	2	0	3	700235
700331	Pharmacology and Therapeutics III	2	2	0	3	700238
700333	Pharmaceutical Microbiology and Immunology	3	2	0	4	700231
700432	Toxicology and Chemotherapy	3	0	0	3	700331 801318
700434	Bioassays and Drug Screening	2	2	0	3	130130 700331
801318	Pathology / Pharmacy	2	0	0	2	700333

(d) Required Courses - Department of Clinical Pharmacy

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700314	Community Pharmacy Training I	0	0	0	3	Completion of 30 CH
700315	Hospital Pharmacy Training	0	0	0	3	700331
700316	Community Pharmacy Training II	0	0	0	3	700314 700442
700317	Clinical Pharmacy Training	0	0	0	3	700442 700418
700416	Pharmaceutical Legislations	1	0	0	1	700432
700417	Marketing and Sales	1	0	0	1	700442
700418	OTC Drugs and Products	2	2	0	3	700331
700442	Clinical Pharmacy I	2	2	0	3	700312 700331
700443	Clinical Pharmacy II and First Aid	2	2	0	3	700442

(2) College Requirements

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700515	Pharm. Biotechnology	2	2	0	3	700232
700522	Phytotherapy	2	2	0	3	700321
700527	Nuclear Pharmacy	2	2	0	3	700331
700534	Clinical Microbiology	2	2	0	3	700333
700535	Gene Therapy	2	2	0	3	700232 700333

Proposed Study Plan

First Year - Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
104110	Computer Applications	2	2	0	3	-
700111	Introduction to Pharmacy	2	2	0	3	-
700124	Pharmaceutical Botany	2	2	2	3	-
700128	Pharmaceutical Organic Chemistry-I	2	2	0	3	-
700135	Principles of Human Anatomy and Physiology-I	3	2	0	4	-
Total		11	10	0	16	

First Year - Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700112	Physical Pharmacy-I	2	2	0	3	700111
700127	General Pharmacognosy	3	2	0	4	700124
700129	Pharmaceutical Organic Chemistry-II	2	2	0	3	700128
700136	Principles of Human Anatomy and Physiology-II	2	2	0	3	700135
700222	Pharmaceutical Analytical Chemistry I	2	2	0	3	700128
Total		11	10	0	16	

First Year - Summer Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
102130	Environmental Sciences	3	0	0	3	-
Xxxxxx	University Elective course I	3	0	0	3	-
Total		6	0	0	6	

Second Year - Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700212	Physical Pharmacy II	2	2	0	3	700112
700213	Pharmaceutical Dosage Forms I	2	2	0	3	700112
700223	Pharmaceutical Analytical Chemistry II	2	2	0	3	700222
700231	Biochemistry I	2	2	0	3	700129
700235	Pharmacology and Therapeutics I	2	2	0	3	700136
700314	Community Pharmacy Training-I	0	0	0	3	30 Cr. Hrs. 700111
Total		10	10	0	18	

Second Year - Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700214	Pharmaceutical Dosage Forms II	2	2	0	3	700213
700232	Biochemistry II	2	2	0	3	700231
700238	Pharmacology and Therapeutics II	2	2	0	3	700235
700333	Pharmaceutical Microbiology and Immunology	3	2	0	4	700231
700422	Instrumental Analysis I	2	2	0	3	700223
Total		11	10	0	16	

Second Year - Summer Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
103110	Statistics	3	-	0	3	-
102110	Islamic Culture	3	0	0	3	-
Total		6	0	0	6	

Third Year - Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700311	Biopharmaceutics and Pharmacokinetics I	2	2	0	3	700214 700422
700323	Medicinal and Pharmaceutical Chemistry I	2	2	0	3	700129 700333
700331	Pharmacology and Therapeutics III	2	2	0	3	700238
700425	Instrumental Analysis II	2	2	0	3	700422
801318	Pathology / Pharmacy	2	0	0	2	700333
xxxxxx	University elective course II	3	0	0	3	-
Total		13	8	0	17	

Third Year - Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
102140	Communication skills in Arabic Language	3	0	0	3	-
700312	Biopharmaceutics and Pharmacokinetics II	2	2	0	3	700311
700321	Phytochemistry	3	2	0	4	700127 700425
700324	Medicinal and Pharmaceutical Chemistry II	2	2	0	3	700323
700413	Pharmaceutical Technology	3	2	0	4	700212 700214
Total		12	10	0	17	

Third Year - Summer Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
Xxxxxx	University Elective course III	3	0	0	3	-
Total		3	0	0	3	

Fourth Year - Fall Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700315	Hospital Pharmacy Training	0	0	0	3	700331
700415	Pharmaceutical Technology Training	0	0	0	3	700413
700418	OTC Drugs and Products	2	2	0	3	700331
700432	Toxicology and Chemotherapy	3	0	0	3	700331 , 801318
700442	Clinical Pharmacy I	2	2	0	3	700312 , 700331
Xxxxxx	College Elective course	2	2	0	3	after 115 Cr. Hrs.
700315	Hospital Pharmacy Training	0	0	0	3	700331
Total		9	6	0	18	

Fourth Year - Spring Semester

Course No.	Course Title	Contact and Credit Hrs.				Prerequisite
		Lec	Lab	Tut	Cr. Hrs.	
700316	Community Pharmacy Training-II	0	0	0	3	700314 , 700442
700317	Clinical Pharmacy Training	0	0	0	3	700442 , 700418
700416	Pharmaceutical Legislations	1	0	0	1	700432
700417	Marketing and Sales	1	0	0	1	700442
700421	Project	2	2	0	3	after 115 Cr. Hrs.
700434	Bioassays and Drug Screening	2	2	0	3	130130 , 700331
700443	Clinical Pharmacy-II and First Aid	3	0	0	3	700442
Total		9	4	0	17	

College of Pharmacy Course Descriptions

700 111 Introduction to Pharmacy (2-2-3)

This course provides students with basic knowledge of pharmaceutical calculations needed for compounding and dispensing of medications. It includes an introduction to prescriptions, general dispensing procedures, dosage forms with special emphasis on pharmaceutical solutions and basic techniques of compounding simple solutions. The course also covers basic skills and abilities needed to identify various pharmaceutical incompatibilities and basic techniques needed for extraction of crude drugs. Pre-requisite: None

700 112 Physical Pharmacy I (2-2-3)

The course comprises the application of physicochemical principles to pharmaceutical systems. It covers the following basic physical pharmacy concepts: states of matter, phase equilibria and phase rule, nonelectrolyte solutions and their colligative properties and solubility and distribution phenomena. Pre-requisite: 700 11

700 212 Physical Pharmacy II (2-2-3)

This course aims to provide students with basic physicochemical principles needed to explain characteristics and behavior of pharmaceutical dispersions like colloids, suspensions, emulsions, ointments, creams and aerosols. It also covers rheological properties of both Newtonian and non-Newtonian systems. Pre-requisite: 700 112

700 213 Pharmaceutical Dosage Form I (2-2-3)

The course comprises principles and techniques involved in the formulation, preparation and evaluation of solid dosage forms. It covers physical properties of powders, preparation of bulk and divided powders, as well as effervescent and non- effervescent granules and method of tablet and capsule manufacture. The course also covers rectal drug absorption, formulation and evaluation of suppositories. Pre-requisite: 700 112

700 214 Pharmaceutical Dosage Form II (2-2-3)

This course covers basic principles of drug stability, routes of drug degradation and various means of avoiding them. It also covers sterile products including parenteral and ophthalmic preparations; their advantages and disadvantages, formulations, quality

control tests and various sterilization procedures. In addition, aseptic techniques applied during the preparations of sterile products shall be covered. The course also includes an introduction to sustained released products, as well as packaging materials. Pre-requisite: 700 213

700 311 Biopharmaceutics and Pharmacokinetics I (2-2-3)

This course provides the basic principles required for understanding the concentration-time course of a drug in the body and hence prepares students to understand various factors that can influence it. It is important to be aware of the factors, which can influence this concentration-time course and hence modify the effectiveness and safety of the drug. Factors involved include physicochemical, pharmaceutical, physiological or pathological factors related to the patient's condition. It also provides basic methods for assessing bioavailability and bio-equivalency of drug products, which are considered vital tools for quality control tests. Bio-pharmaceutical aspects of new drug delivery systems will also be highlighted. Pre-requisite: 700 214, 700 422

700 312 Biopharmaceutics and Pharmacokinetics II (2-2-3)

The course will introduce the student to the changes in drug absorption, distribution and elimination with time following one compartment IV bolus, oral absorption and IV infusion. The lectures will provide students with principles of the linear and non-linear pharmacokinetic models and their application. The principles of clinical pharmacokinetics are also introduced in order to be able to formulate or modify drug dose-regimens according to the need of patients. Pre-requisite: 700 311

700 413 Pharmaceutical Technology (3-2-4)

This course covers theoretical background and practical demonstration of different manufacturing unit processes like; heat transfer, filtration, particle size reduction, and particle size analysis, mechanisms of mixing, powder flow, granulation, and drying that are applied in pharmaceutical industries. The course also comprises the design and operation of clean rooms with special emphasis on quality assurance and good manufacturing practice guidelines. Pre-requisite: 700 212, 700 214

700 415 Pharmaceutical Technology Training (3-3)

The course provides the student with basic training in large scale manufacturing of pharmaceutical dosage forms and quality control tests conducted for such dosage forms. It also covers quality assurance and good manufacturing practice guidelines followed during large scale manufacturing of various pharmaceutical dosage forms Pre-requisite: 700 413

700 515 Pharmaceutical Biotechnology

This course introduces the student to the field of biotechnology with especial emphasis on its applications in the preparation of biopharmaceuticals. The course entails definitions, brief history and major areas of contribution of biotechnology. The course shall also cover recombinant DNA technology including cloning of DNA, PCR and Gene

libraries. In addition, different methods adopted for the preparation of biotechnology drug products and their evaluation, handling and storage shall be covered. Current marketed biotechnology drug products, as well as the future prospects of biotechnology shall be discussed. Pre-requisite: 700232

700 124 Pharmaceutical Botany (2-2-3)

This course deals with the study of the medicinal plants and their botanical structure including plant cell structure, type of cells, cell contents and the general study of the plant organs (leaves, barks, flowers, seeds, fruits) macroscopically and microscopically. Pre-requisite: None

700 127 General Pharmacognosy (3-2-4)

Pharmacognosy deals with the study of physical, chemical and biological properties of important medicinal plants. The study includes their origin, morphology, histology, chemical constituents and their use. The drugs are classified into groups according to their main therapeutic values. Pre-requisite: 700 124

700 128 Pharmaceutical Organic Chemistry I (2-2-3)

This course presents the fundamentals of certain topics in organic chemistry. It covers important areas in organic chemistry, which include aliphatic and aromatic hydrocarbons, alkyl and aryl halides, alcohols, ethers and epoxides. It emphasizes the pharmaceutical importance of these functional groups. Pre-requisites: None

700 129 Pharmaceutical Organic Chemistry II (2-2-3)

This course is a continuation of Pharm. Organic Chemistry I. The course includes basic chemical reactions and mechanisms, stereo-chemistry, phenols, aldehydes, ketones, and carboxylic acids and acid derivatives, properties and reactions of dysfunctional compounds, amines, aromatic and heterocyclic compounds, and introduction to organic natural products. Laboratory work concerns specific chemical reactions, organic synthesis and identification of organic compounds. Pre-requisite: 700 128

700 222 Pharmaceutical Analytical Chemistry I (2-2-3)

The course covers chemical purity and its control; pharmacopoeial standards and specifications, theoretical basis and practical applications of quantitative analysis of pharmaceutical compounds applying volumetric methods based on acid-base, diazotization, complexation and non-aqueous titrations. Pre-requisite: 700 128

700 223 Pharmaceutical Analytical Chemistry II (2-2-3)

A continuation of Pharmaceutical Analytical Chemistry I, this course covers volumetric analysis based on oxidation-reduction and precipitation as well as gravimetric analysis. Pre-requisite: 700 222

700 321 Phytochemistry (3-2-4)

This course covers the study of the chemistry of crude drugs such as volatile oils, glycosides, alkaloids bitter principles, resins and saponins, etc. The study includes the

biosynthesis, the chemical and physical properties, identification tests, and methods of isolation and methods of assays. Pre-requisites:700 127, 700 425

700 323 Medicinal and Pharmaceutical Chemistry I(2-2-3)

This course covers the basic principles of medicinal chemistry. It deals with the relationship between chemical structure and biologic activity. Topics covered include the effect of physicochemical properties on biologic response, the effect of molecular modification on receptor binding, and drug metabolism. The second part of the course is devoted to the study of chemotherapeutic agents including antibiotics, synthetic antibacterial agents and antifungal and antiviral agents. Pre-requisites: 700 129, 700 333

700 324 Medicinal and Pharmaceutical Chemistry II(2-2-3)

This course covers the chemistry, structural features and structure – activity relationships of the major classes of pharmacotherapeutic agents. The course adopts a pharmacological classification, but within each class the emphasis is on the chemical basis of drug action. Topics covered include adrenergic and cholinergic drugs, CNS depressants, analgesics, antihistamines, local anesthetics and cardiovascular drugs. Pre-requisite: 700 323

700 422 Instrumental Analysis I (2-2-3)

The course provides an introduction to the instrumental methods of analysis including spectroscopic methods of analysis such as UV – VIS and flourimetry; in addition to the following electro chemical methods: conductometry, potentiometry, amperometry and polarography. Pre-requisite: 700 223

700 425 Instrumental Analysis II (2-2-3)

This course aims to introduce students to application of the concept of applying instrumentation for the separation of mixtures as well as the qualitative and quantitative analysis of medicinal and pharmaceutical formulations. The course covers different chromatographic methods and techniques (PC, TLC, IEC, CC, GPC, GC, HPLC) in addition to infra-red spectroscopy, nuclear magnetic resonance and mass spectroscopy. Pre-requisite: 700 422

700 522 Phytotherapy (College Elective Course) (3-3)

The course covers medicinal plants and other naturally-occurring medicinal compounds intended for the treatment of different ailments of the human body. The study includes the active constituents of these natural products, pharmacokinetic and pharmacodynamic effects of these constituents, appropriate dosage forms and their preparations. Monographs of selected medicinal herbs are also included in the study. Pre-requisite: 700 321 after 115 Credit Hours

700 527 Nuclear Pharmacy (College Elective Course) (3-3)

The course provides a comprehensive discussion of the fundamentals of the field of nuclear pharmacy. It covers the formulation and application of radiopharmaceuticals.

Topics include the preparation, and quality control of clinically useful radiopharmaceuticals. Procedures and techniques involved in handling, disposition, and use of radioisotopes in nuclear pharmacy practice will be discussed. Diagnostic and therapeutic uses of radiopharmaceuticals and their adverse reaction are included. Pre-requisite: 115 Credit Hours

700 135 Principles of Human Anatomy and Physiology I (3-2-4)

This course provides students with a broad knowledge of the structure and functions of the human body. The course includes the structure and function of the normal cell; tissues in general, their different types, microscopic characteristics, locations, distribution and functions in the human body. A study of the different organ systems and their respective roles and function in the organization of the body. Gross anatomy is covered in its broadest aspects and includes the anatomy of different systems; muscular, respiratory, digestive, cardiovascular, nervous, reproductive, skeletal, endocrinal and urinary. The physiology is integrated with anatomy for each system of the human body. Topics which are covered in details include the organization, regulation and functions of the muscular, gastrointestinal, respiratory, cardiovascular, blood, lymphatic, renal, endocrinal, nervous and special senses and reproductive systems. Clinical applications related to these systems are mentioned. Pre-requisite: None

700 136 Principles of Human Anatomy and Physiology II(2-2-3)

Continuation of Principles of Anatomy and Physiology I (700 135) with special emphasis on the various pathophysiological aspects and conditions. Systems covered are the nervous, cardiovascular, lymphatic, respiratory, renal, special senses and reproductive system. Pre-requisite: 700 135

700 231 Biochemistry I (2-2-3)

The course covers the study of the structure and function of the biological constituents of living cells and their chemical reactions. Emphasis is made on the structure and function of carbohydrates, proteins, nucleic acids, lipids and vitamins. Enzyme kinetics and enzyme-catalyzed reactions are also covered. Pre-requisite: 700 129

700 232 Biochemistry II (2-2-3)

The study of the metabolism and biochemical energetics is covered in the course with emphasis on intermediary metabolism of proteins, carbohydrates and lipids. The course also includes the biosynthesis of biologically important macromolecules such as proteins, lipids, and nucleic acids. Nutrition, starvation and obesity are also covered. Pre-requisite: 700 231

700 235 Pharmacology and Therapeutics I (2-2-3)

The course covers General Pharmacology: Principles of drug action, routes of administration of drugs, passage of drugs across cell membranes and factors affecting the dosage and action of drugs. The autonomic nervous system: Introduction, sympathomimetics, sympathetic depressants, parasympathomimetics, parasympathetic

depressants and drugs acting on autonomic ganglia. Skeletal muscle relaxants. Drugs acting on respiratory system. Autacoids and local hormones are also covered. Pre-requisite: 700 136

700 238 Pharmacology and Therapeutics II (2-2-3)

This course covers the action of drugs on the cardiovascular system (CVS), rental system, hematopoietic system and in the gastrointestinal tract (G.I.T). Pre-requisite: 700 235

700 331 Pharmacology and Therapeutics III (2-2-3)

The course covers the action of drugs on the central nervous system and the endocrine system. Pre-requisite: 700 238

700 333 Pharmaceutical Microbiology and Immunology (3-2-4)

This course covers the following: General microbiology including sterilization, anatomy and growth of bacteria, bacterial genetics and antimicrobials. Systemic microbiology including bacterial diseases, viral diseases and fungal diseases accompanied by the etiology, clinical picture, lab diagnosis, treatment, prevention and control of these diseases Pre-requisite: 700 231

700 432 Toxicology and Chemotherapy (2-2-3)

This course covers the adverse and toxic effects of drugs and many other chemicals that may be responsible for household, environmental and industrial intoxication. It also covers heavy metals toxicity and its management, common poisons and their antidotes, air pollutants, solvents and vapours and toxicity of pesticides. Chemotherapy covers the classification mechanism of action, clinical indications and adverse effects of anti-infective agents. These include antimicrobials, antiviral, antifungal, anthelmintic, antineoplastic agents. Pre-requisite: 700 311, 801 318

700 434 Bioassays and Drug Screening (2-2-3)

This course covers general methods used in the preclinical drug development. These include general methods used in the screening for a new drug and the determination of the potency using biological objects. The course covers the general methods of bioassay and drug screening of drugs acting on the autonomic nervous system, cardiovascular system, neuromuscular junction, gastrointestinal tract, respiratory system, central nervous system and hormones. It also deals with the design and analysis of pharmacological experiments. Pre-requisites: 700311, 0130130

801 318 Pathology (2-2)

The course covers the fundamentals of the basic disease processes of the body: gross, microscopic and biochemical features of pathologic conditions of the organ systems are studied in detail in order to establish a sound foundation for pharmaceutical and clinical practice. Pre-requisite: 700 333

700 534 Clinical Microbiology (College Elective Course) (2-2-3)

The course provides students with basic knowledge of the important signs, symptoms and etiology of diseases as well as mechanisms of preventing infection and the means of identifying and diagnosing causative agents. Pre-requisite: 700 333

700 535 Gene Therapy (College Elective Course) (3-3)

The course is designed to provide students with a clear understanding of how human genes causing disease can be identified, and the impact of this on diagnosis, prevention and treatment. Methods used to isolate genes involved in disease and types of gene therapy treatment will also be discussed. The course deals with the basic science of gene therapy, gene delivery vectors, expression of transferred genes, and current gene therapy protocols in humans. Regulatory issues concerning biomaterials will also be addressed. Recognition of the advantages, disadvantages and limitations of gene therapy will be included. Pre-requisites: 700 232, 700 333 after 115 Credit Hours

700 442 Clinical Pharmacy I (2-2-3)

The course builds on the prior knowledge gained in pharmacology, biopharmaceutics and kinetics. The overall aim of the module is to develop the skills that students require to understand new aspects of pharmacy practice and the concept of pharmaceutical care. Upon completion of the course, students should be able to demonstrate sound knowledge and understanding of the pathophysiology of major organ diseases, namely, the cardiovascular, respiratory, and endocrine systems. Furthermore, the course is designed to enable students to: analyze and review a patient's case history in the light of pathophysiology of disease; critically evaluate literature and data relating to the clinical use of medicines; identify independently different medical abbreviation and terminology and acquire effective skills in reading, writing, speaking and listening to enable them to communicate effectively with doctors and other healthcare professionals. Pre-requisites: 700 312 and 700 331

700 443 Clinical Pharmacy II and First Aid (2-2-3)

The course builds on the prior knowledge gained in Clinical Pharmacy I. The overall aim of the module is to help students to access the knowledge base and skills required for assessment of pharmaceutical needs of patients in either primary or secondary healthcare settings and to understand how major diseases are managed, including the options available for drug therapy. The importance of establishing therapeutic goals for the patient will be emphasized throughout the course. The first aid section of this course is designed to educate students as to the correct procedures to be followed in the emergency care of a sick or injured person. The course is designed with great emphasis on the skills and knowledge critical to saving life and minimizing the severity of injury or sudden illness. Safety awareness and accident prevention are emphasized throughout the course. Pre-requisite: 700 442

700 418 OTC Drug and Products (2-2-3)

The course is designed to provide the student with a solid knowledge of OTC drugs in all aspects with the objective of graduating a patient-oriented pharmacist. This will include monitoring, screening and evaluating drug treatment regimens either in community or hospital settings. In particular, symptoms associated with common diseases will be considered with respect to: possible causes; symptoms and signs; treatment available; counseling points; and when to refer to doctors. This course is also designed to enable students to decide on the diagnosis of a complaint through the use of questioning techniques; recognize and evaluate the symptoms of minor ailments; select a suitable treatment, if any, and give appropriate advice; assess “danger symptoms” and judge when it is appropriate to refer the patient; and choose an effective level of communication with patients and other healthcare professionals. Pre-requisites: 700 312 and 700 331

700 416 Pharmaceutical Legislations (1-1)

This course is designed to acquaint students with the legal and ethical basis of pharmacy practice. The course emphasizes the pharmacist's responsibility to care for patients and to respect patients as autonomous individuals. A detailed presentation of the laws that govern and affect the practice of pharmacy in UAE is included. Major topics include general legal principles, non-controlled and controlled prescription requirements and over-the-counter drug requirements. Pre-requisite: 700 432

700 417 Marketing and Sales (1-1)

This course is designed to provide pharmacy students with the basic principles and theories of marketing as well as the principles of management and administration of a pharmacy in community and institutional settings. The course will cover all aspects of selling including applying standard criteria to evaluate the quality of selling, retail selling and product planning. Pre-requisite: 700 442

700 314 Community Pharmacy Training I (3-3)

700 316 Community Pharmacy Training II (3-3)

Through the utilization of selected community pharmacies and competency based objectives, the student will gain an appreciation for the profession of pharmacy as practiced in the community and develop the professional attitudes, judgment and skills needed to function in this setting. These courses are designed to enable students to: acquire advanced knowledge and proficiency in community pharmacy management, process prescriptions in an efficient manner compatible with advanced skills, acquire additional exposure to pharmacy operations and to different practitioners’ disease approach, develop the skills necessary to provide pharmaceutical care services and acquire increased proficiency in counseling patients on health and drug-related matters. Pre-requisites: for 700 314:700 111, 30 hours Pre-requisites: for 700 316: 700 314, 700 442

700 315 Hospital Pharmacy Training (3-3)

This training is designed to provide students with the principles of pharmacy practice in a hospital setting. The training program aims to enable the students to acquire practice experience in various areas of hospital pharmacy including: understanding the basic layout of the pharmacy department in a hospital setting; understanding the system of referral, identifying and reporting any possible drug interactions and mastering the administrative part of hospital pharmacy services. Pre-requisite: 700 333

700 317 Clinical Pharmacy Training (3-3)

This course is designed to provide the students with professional practice experience in clinical pharmacy. This includes acquiring the following competencies: independently reviewing and analyzing a patient's case history and identifying possible problems associated with the use of medicines, actively participating in drug choice and in the design of dosage regimens to ensure optimal drug therapy. Pre-requisites: 700 418, 700 442

700 421 Project (2-2-3)

This course is designed to acquaint the student with the techniques involved in the development of a project in the basic, pharmaceutical or clinical sciences. The project will be assigned and the student will be expected to perform literature reviews and other work deemed necessary by the college instructor to produce an acceptable final written report Pre-requisite: 115 Credit Hours

Faculty members of the College of Pharmacy and Health Sciences

University of Science and Technology of Fujairah					
Name	**Rank**	**Specialization**	**Degree**	**Date**	**University**
Prof. Sumia Sir-Elkhatim Mohamed I	Professor Dean	Pharmaceutical Sciences	PhD	1991	University of Florida, USA
Dr. Ibrahim Abu Al Futuh	Associate Professor	Pharmacognosy	PhD	1975	University of Bath, UK
Dr. Babiker Mohamed Ahmed El-Haj	Assistant Professor	Pharmaceutical Chemistry	PhD	1982	University of London, UK
Dr. Shihab El Tahir Diab	Assistant Professor	Pharmacology / Toxicology	PhD	2014	Florida A and M University, USA
Dr. Mousa Adel Qarwai	Assistant Professor	Pharmaceutics	PhD	1997	University of Bath, UK
Dr. Yaser Al worafi	Associate Professor	Clinical pharmacy	PhD	2011	USM – University of Science in Malaysia
Dr. Mohamed Rashrash	Assistant Professor	Clinical pharmacy	PhD	2014	Howard/George Washington/George Mason University, USA
Dr. Srinivasan Ramamurthy	Assistant Professor	Pharmaceutical Chemistry	PhD	2009	Tamil Nadu Dr. M.G.R. Medical University, India

Academic Calendar 2017/2018

Fall Semester

Day	Date	Description
Sunday	August 20, 2017	**Faculty members report to work**
		11:00: Deans welcome the new students
		12:00-13:00: Tour of the campus
		13:00-14:00: Tutorial session on course registration
Sunday - Thursday	August 20 - 24, 2017	**Course registration for continuing and new students**
		Examinations for incomplete removal
		Period for accepting credit transfer requests
		Period for accepting changing major requests
Sunday	August 27, 2017	**Beginning of classes**
Sunday - Thursday	August 27 - 31, 2017	**Add and drop period**
Thursday	August 31, 2017	**Last date for dropping courses or registration suspension with 100% refund**
Thursday - Sunday	August 31 - Sep. 3, 2017	**Arafat Day ,Eid Al-Adha Holiday**
Sunday - Thursday	September 3 - 14, 2017	**Period suspension of registration with 50% refund**
Thursday	September 21, 2017	**Last date for dropping courses**
Friday	September 22, 2017	**Al Hijra holiday**
Sunday - Thursday	October 15 - 26, 2017	**Mid-term examinations period**
Sunday	October 29 , 2017	**Beginning of admission period for spring semester 2017-2018**
Thursday	November 16, 2017	**Last date for withdrawal**
Sunday - Thursday	November 19 - 30, 2017	**Period for course evaluation**
		Early registration for spring semester 2017-2018
Thursday	November 30, 2017	**UAE Martyr's Day** **Al Mawlid Al Nabawi holiday**
Saturday - Sunday	December 2 - 3, 2017	**UAE National Day holiday**
Saturday - Tuesday	December 9 - 19, 2017	**Final examinations period**
Thursday	December 21, 2017	**Last date for requesting incomplete**
		10:00 : Colleges Council meeting
		15:00 Council for Academic Affairs meeting
		Announcement of final examinations results
Sunday - Thursday	**Dec. 24, 2017 - Jan. 4, 2018**	**Fall-Semester vacation**

* Islamic holidays are determined after sighting the moon. Thus, actual dates may not coincide with the dates in this calendar.

Spring Semester		
Day	**Date**	**Description**
Sunday - Thursday	January 7 - 11, 2018	**11:00: Deans welcome the new students**
		12:00-13:00: Tour of the campus
		13:00-14:00: Tutorial session on course registration
		Course registration for continuing and new students
		Examinations for incomplete removal
		Period for accepting credit transfer requests
		Period for accepting changing major requests
Sunday	January 14, 2018	**Beginning of classes**
Sunday - Thursday	January 14 - 18, 2018	**Add and drop period**
Thursday	January 18, 2018	**Last date for dropping courses or registration suspension with 100% refund**
Sunday - Thursday	Jan. 21 - Feb. 1, 2018	**period for suspension of registration with 50% refund**
Monday - Tuesday	February 5 - 6, 2018	**Graduation Ceremony for the fall semester 2017-2018**
Thursday	February 8, 2018	**Last date for dropping courses**
Sunday - Thursday	March 4 - 15, 2018	**Mid-term examinations period**
Sunday - Thursday	March 25 - April 5, 2018	**Spring semester vacation**
Sunday	April 8, 2018	**Beginning of admission period for Fall Semester 2018-2019**
Friday	April 13, 2018	**Al Isra'a Wal Mi'raj holiday**
Sunday - Thursday	April 15 -26, 2018	**Period for course evaluation**
		Early registration for Summer Semester 2017-2018
Thursday	April 19, 2018	**Last date for withdrawal**
Sunday - Thursday	April 29 - May 10, 2018	**Early registration for Fall Semester 2018-2019**
Saturday - Thursday	May 12 -24, 2018	**Final examinations period**
Tuesday	May 29, 2018	**Last date for requesting incomplete**
		10:00 : Colleges Council meeting
Thursday	May 31 , 2018	**15:00 Council for Academic Affairs meeting**
		Announcement of final examinations results
Sunday	**June 3, 2018**	**Beginning of Summer vacation**

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Summer-1 Semester		
Day	**Date**	**Description**
Wednesday – Thursday	June 6 - 7, 2018	**Course registration**
Sunday	June 10, 2018	**Beginning of classes**
Sunday - Monday	June 10 - 11, 2018	**Add and drop period**
Thursday - Sunday	June 14 - 17 , 2018	**30 Ramadan, Eid Al-Fitr holiday**
Sunday	June 24, 2018	**Beginning of mid-term examinations**
Thursday	June 28, 2018	**Last date for withdrawal**
Wednesday - Thursday	July 18 - 19, 2018	**Final examinations period**
Monday	July 23 , 2018	**13:00 Council for Academic Affairs meeting**
		Announcement of final examinations results

N.B: 2 hours per class session

Summer-2 Semester		
Day	**Date**	**Description**
Sunday	July 22 , 2018	**Beginning of training**
Monday - Thursday	August 20-23 2018	**Arafat Day, Eid Al-Adha holiday**
Thursday	August 30, 2018	**End of 6 weeks training**
Sunday	September 9 , 2018	**Announcement of 6 weeks training results**
Thursday	September 13, 2018	**End of 8 weeks training**
Sunday	**September 23, 2018**	**Announcement of 8 weeks training results**

Important Note:

Field training for students expected to graduate in summer 2 of Academic Year 2017-2018.

Regards,

Office of Admissions and Registration

Academic Calendar 2018/2019

Fall Semester		
Day	**Date**	**Description**
Sunday	August 26, 2018	**Faculty members report to work**
		11:00: Deans welcome the new students
		12:00-13:00: Tour of the campus
		13:00-14:00: Tutorial session on course registration
Sunday - Thursday	August 26 - 30, 2018	**Course registration for continuing and new students**
		Examinations for incomplete removal
		Period for accepting credit transfer requests
		Period for accepting changing major requests
Sunday	September 2, 2018	**Beginning of classes**
Sunday - Thursday	September 2 - 6, 2018	**Add and drop period**
Thursday	September 6, 2018	**Last date for dropping courses or registration suspension with 100% refund**
Sunday - Thursday	September 9 - 20, 2018	**Period suspension of registration with 50% refund**
Tuesday	September 11, 2018	**Al Hijra holiday**
Thursday	September 27, 2018	**Last date for dropping courses**
Sunday - Thursday	Oct. 21 - Nov. 1, 2018	**Mid-term examinations period**
Sunday	November 4, 2018	**Beginning of admission period for spring semester 2018-2019**
Tuesday	November 20, 2018	**Al Mowlid Al Nabawi holiday**
Thursday	November 22, 2018	**Last date for withdrawal**
Sunday - Thursday	Nov. 25 – Dec. 13, 2018	**Period for course evaluation**
		Early registration for spring semester 2018-2019
Friday	November 30, 2018	**UAE Martyr's Day**
Sunday -Monday	December 2 - 3, 2018	**UAE National Day holiday**
Wednesday	December 12 , 2018	**Last Day of Classes**
Thursday - Tuesday	December 13 – 23 , 2018	**Final examinations period**
Tuesday	December 25, 2018	**Make –up Exam**
Sunday - Thursday	**Dec. 24, 2018 - Jan. 4, 2019**	**Fall-Semester vacation**

* Islamic holidays are determined after sighting the moon. Thus, actual dates may not coincide with the dates in this calendar.

Spring Semester		
Day	**Date**	**Description**
Sunday	January 13, 2019	**11:00: Deans welcome the new students**
		12:00-13:00: Tour of the campus
		13:00-14:00: Tutorial session on course registration
		Course registration for continuing and new students
		Examinations for incomplete removal
		Period for accepting credit transfer requests
		Period for accepting changing major requests
Sunday	January 20, 2019	**Beginning of classes**
Sunday - Thursday	January 20 - 24, 2019	**Add and drop period**
Thursday	January 24, 2019	**Last date for dropping courses or registration suspension with 100% refund**
Sunday - Thursday	Jan. 27 - Feb. 7, 2019	**period for suspension of registration with 50% refund**
Thursday	February 14, 2019	**Last date for dropping courses**
Sunday - Thursday	March 10 - 21, 2019	**Mid-term examinations period**
Sunday - Thursday	March 24 - April 4, 2019	**Spring semester vacation**
Wednesday	April 3, 2019	**Al Isra'a Wal Mi'raj holiday**
Sunday	April 14, 2019	**Beginning of admission period for Fall Semester 2019-2020**
Thursday	April 25, 2019	**Last date for withdrawal**
Sunday - Thursday	April 28 - May 9, 2019	**Period for course evaluation**
		Early registration for Summer Semester 2018-2019
Sunday - Thursday	May 12 -23 , 2019	**Early registration for Fall Semester 2019-2020**
Thursday	May 16 , 2019	**Last Day of Classes**
Saturday - Monday	May 18 -27, 2019	**Final examinations period**
Tuesday	May 29, 2019	**Last date for requesting incomplete**
		10:00 : Colleges Council meeting
Tuesday	May 28, 2019	**Make –up Exam**
Sunday	**June 2, 2019**	**Beginning of Summer vacation**

* Islamic holidays are determined after sighting the moon. Thus, actual dates may not coincide with the dates in this calendar.

Summer-1 Semester		
Day	**Date**	**Description**
Sunday	June 9 , 2019	**Beginning of classes**
Sunday - Monday	June 9 - 10, 2019	**Course registration for registering late students**
		Add and drop period
Sunday	June 30, 2019	**Beginning of mid-term examinations**
Thursday	July 11, 2019	**Last date for withdrawal**
Wednesday - Thursday	July 20 - 21, 2019	**Final examinations period**

N.B: 2 hours per class session

Summer-2 Semester		
Day	**Date**	**Description**
Sunday	July 28 , 2019	**Beginning of training**
Monday - Thursday	August 10-13 2019	**Arafat Day, Eid Al-Adha holiday**
Thursday	September 5, 2019	**End of 6 weeks training**
Thursday	**September 19, 2019**	**End of 8 weeks training**

Important Note:

Field training for students expected to graduate in summer 2 of Academic Year 2017-2018.

Regards,

Office of Admissions and Registration

Glossary of Terms

The terms defined below are mostly based on the definitions given in CAA's Standards 2011. Other terms have been added for the sake of completeness.

College

An administrative unit within the University, comprising of one or more departments, to offer undergraduate and graduate programs, such as College of Dentistry or College of Engineering. Each college has a Dean to oversee the operation of the college.

Undergraduate Student

A student enrolled on a bachelor's degree or taking undergraduate courses.

Baccalaureate or Bachelor's degree

The Baccalaureate (Bachelor's degree) is awarded after completing undergraduate program of study typically completed in four to five years of full-time study, with a minimum of 120 semester credits. The most common undergraduate degrees are Bachelor of Art (BA) and Bachelor of Science (BSc).

Graduate Diploma

A graduate diploma typically includes one year or at least 24 semester credits (or equivalent) of course work beyond the bachelor's degree.

Master's degree

A Master's degree typically requires at least one year of study, or a minimum of 30 semester credits of course work (or equivalent) beyond the bachelor's degree. The minimum credits are not inclusive of any non-credit bridge courses which may be required. A Master's degree often, though not always, requires a substantial research paper, a thesis, or a project.

Course

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 in the University Catalog.

Program

The set of courses and other formally established learning experiences which together lead to a qualification. Program may also refer to a specific aspect of the curriculum, such as the general education program.

Curriculum

The term refers both to the range of courses offered by the University and to a set of .related courses constituting an area of specialization, such as the electrical engineering curriculum.

Course Syllabus

A description of course goals, course learning outcomes, contents, assessment instruments and grading criteria, week-by-week study plan, examination dates, etc. that is provided to the students at the beginning of their classes.

Credit or Credit Hour

A credit, or credit hour, is a unit of measurement defining the student's overall effort towards attaining a qualification. One semester credit or credit hour equals approximately 1 hour of time in class per week over a semester of 15 weeks or longer. For laboratory, 1 semester credit normally is given for two hours of laboratory time per week over a 15-week semester.

Credit Load

The total number of credit hours a student can register during a specific semester.

Semester

A semester is a period of time, typically a minimum of 15 weeks, during which the University offers courses. Some courses may be offered in a time-shortened period, such as summer semester, which nonetheless offers class contact time and out-of-class assignments equivalent to a semester course. USTF offers courses in fall and spring semesters and optionally in summer semester.

Academic Calendar

It represents important semester-specific dates and deadlines for students, academic and administrative departments, and instructors.

Academic Year

The period of instruction composed of the fall, spring, and summer semesters. The academic year begins at the start of the fall semester and ends after the last day of the summer semester.

Add/Drop Period

Days set aside by the University for students to change their study schedule by adding or dropping courses in a specific semester.

Graduate Student

A student who has enrolled in a Graduate Diploma, a Master's or Doctoral degree program.

Academic Advisor

A faculty member who advises students on their study plan and course selection, monitors their academic progress, assists in their career planning, and guides in other academic and non-academic matters.

Academic Warning

A graduate student is issued an academic warning if his/her CGPA falls below 3.0 at the end of a semester. Such a student is said to be not in good academic standing. If this also happens at the end of another semester, the student is issued second academic warning and placed on academic probation.

Academic Dismissal

If a graduate student on academic probation (with two academic warnings) fails to raise his/her cumulative GPA (CGPA) at the end of the next semester, the student is academically dismissed from the University.

In-Progress (IP)

A grade indicating that a course is still in progress and will be completed at a later date.

Conditional Admission

A student may be give conditional admission requiring him/her to successfully complete some specified coursework and/or fulfill other requirements in order to progress into the full set of courses within an academic program.

Learning Outcomes

Refers to knowledge, skills, and aspects of competence that a student is expected to know and be able to do at each level of qualification.

Credit Transfer

A system whereby successfully completed unit of study contributing towards a degree can be transferred from one program to another within USTF or from another university to USTF.

Prerequisite

A course or courses that serve as foundations for continued (advanced) courses. A student must successfully pass a prerequisite course before taking a course for which it is a prerequisite.

Electives

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.

Developmental or Remedial Courses

Such courses prepare a student for enrolling in a regular curriculum, and aid the student in rectifying an area or areas of deficiency. Developmental or remedial courses are non-credit courses and do not count toward the requirements of an academic qualification. The University limits the number of credit-bearing courses that a student may take while enrolled in developmental or remedial courses.

Bridge Program

A program intended to bridge the gap between a student's prior work and the background required for the program he/she is entering. Typically such a program would be needed by students entering graduate business education where the student's undergraduate major was in an area other than business, or graduate engineering programs where the student's major was in a different engineering specialty. The courses in a bridge program typically do not carry degree credit. The University may choose to require enrollment in bridge programs as a condition of admission.

Directed Study/Independent Study

A course in which a student is individually supervised by a faculty member, which enables a student to undertake a learning opportunity which is otherwise unavailable. Directed learning or independent study courses must have an appropriate learning plan (typically a syllabus), learning outcomes, end of term evaluations and appropriate assessment.

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