
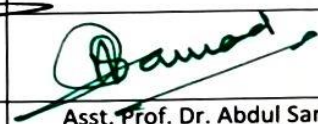


Tishk International University

# MISSION, OBJECTIVES & PLOs

Revised and compiled by Dr. Samira T. Saeed  
QUALITY ASSURANCE, TIU

	<b>Mission, Objectives, and Program Learning Outcomes</b>		<b>Document No</b>	<b>TIU.RC.IN.098E</b>
			<b>Issue Date</b>	<b>06/10/2020</b>
			<b>Revision No</b>	<b>1</b>
	<b>Unit</b>	<b>Quality Assurance Office</b>	<b>Page No</b>	<b>Page</b>

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#	Date of Revision	Ver.	Validity	Description of Change	Prepared by	Reviewed by	Approved by
1	06/10/2020	1	3 years	Original Release	Head of Departments	Dr. Samira T. Saeed	Asst. Prof. Dr. Abdul Samad Salahuddin

FACULTY OF DENTISTRY

## DENTISTRY DEPARTMENT

<b>Mission</b>	<p>The mission of the dentistry (B.D.S) degree program is to raise dentists who are equipped with an up-to-date knowledge and skills in dental science by providing evidence-based learning, competency-based curriculum and state-of-the-art clinical practice to the students.</p>
<b>Objectives</b>	<ul style="list-style-type: none"><li>• Graduates will have the ability to recognize the scientific principles needed for the provision of high standard oral health care.</li><li>• Graduates will have the ability to recognize and follow the rules &amp; regulations that govern the dental profession.</li><li>• Graduates will have the ability to practice evidence-based dentistry in the provision of high standard oral health care.</li><li>• Graduates will be able to work collaboratively with clinicians, parents and other medical specialties advocating for the health of the patient.</li><li>• Graduates will have the ability to practice dentistry with high professional attitude and work ethics.</li><li>• Graduates will be able and interested in conducting dental research.</li></ul>
<b>PLOs</b>	<p>By the end of this program students will be able to:</p> <ol style="list-style-type: none"><li>1. Discuss an in-depth knowledge of the art and science of dentistry and normal human structure and function.</li><li>2. Apply the basic principles of conservative dental treatment.</li><li>3. Identify and interpret the implications of systemic medical conditions to the management of oral health.</li><li>4. Diagnose systemic medical conditions that present with oral symptoms and initiate appropriate management.</li><li>5. Identify complex situations and appropriately manage such situations in liaison with specialist health practitioners.</li><li>6. Apply strategies for oral disease prevention, health maintenance and health promotion for individuals and the community.</li><li>7. Implement comprehensive preventive and therapeutic oral health care for infants and children through adolescence, including those with special health care needs.</li><li>8. Apply the legal, ethical and professional responsibilities required of a practicing dentist.</li><li>9. Design an appropriate treatment planning for patients with multiple dental\oral problems.</li><li>10. Execute research projects based on a thorough knowledge of literature, data collection and analysis.</li><li>11. Explain the oral health needs of communities and engage in community service.</li></ol>

# FACULTY OF NURSING

## NURSING DEPARTMENT

<b>Mission</b>	The Mission of the Nursing B.Sc. degree program is to prepare graduates for working in all related (public and private) hospitals and pursuit for advanced knowledge, practice and skills in nursing by educating them the fundamental concepts, knowledge, laboratory and clinical technique of nursing and health science.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be competent in nursing science, clinical practices, nursing professional code of conduct and nursing values, which serve as the basis for lifelong learning and professional development.</li> <li>• Graduates will have the ability to provide basic health services</li> <li>• Graduates will be able to provide care for chronic and acute conditions.</li> <li>• Graduates will have the ability to provide maternal, child, community and psychiatric health services.</li> <li>• Graduates will have the ability to recognize the scientific principles needed for the provision of high standard health care in community sectors.</li> <li>• Graduates will be professional in their communication with other health care providers such as physicians, and other health care services (biology and chemistry).</li> <li>• Graduates will have the ability to practice nursing with high professional attitude and work ethics in both public and private hospitals.</li> <li>• Graduates will be able to conduct data collection and nursing research services.</li> </ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Demonstrate competence in critical thinking and clinical reasoning skills in the practice of nursing.</li> <li>2. Apply nursing skills and theoretical knowledge in providing required health care to individuals, families, communities, and populations across the lifespan.</li> <li>3. Apply the principles and techniques of ethical, patient-centered, holistic, and culturally sensitive care, health promotion, and disease and injury prevention.</li> <li>4. Professionally manage acute and chronic health conditions during public and private health disasters.</li> <li>5. Employ various forms of communication, including verbal and non-verbal, and technological applications with patients and medical staff.</li> <li>6. Accurately interpret patients' information and apply necessary plans of care in order to maximize safety and optimize health outcomes.</li> <li>7. Apply leadership skills and collaborate efficiently in clinical practices within multidisciplinary teams.</li> <li>8. Monitor outcomes and improve patients' care as needed.</li> <li>9. Apply and promote health policies and regulatory standards that advocate for comprehensive and safe delivery of healthcare.</li> <li>10. Develop research studies that applies quantitative or qualitative research methods that address research questions in the field.</li> </ol>

**FACULTY OF PHARMACY**

## PHARMACY DEPARTMENT

<b>Mission</b>	The mission of the pharmacy B.Sc. degree program is to educate and train students to become pharmacists capable of taking active responsibilities in all drug development and research topics, apply critical thinking and ethical rules in every circumstance, and contribute to public health. These are achieved through educating them the fundamental concepts, knowledge and field techniques and skills of pharmacy professionals.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be competent in manufacturing, compounding, dispensing of medications accurately.</li> <li>• Graduates will be able to conduct thorough and accurate patient assessments.</li> <li>• Graduates will be able to identify and assess drug related problems relating to specific patient cases.</li> <li>• Graduates will be able to effectively communicate health and medication related information to patients and/or care givers and provide effective counseling services as warranted.</li> <li>• Graduates will have the ability to accurately assessing the literature and other research resources to provide evidence-based drug information that meets the needs of patients and other health care providers.</li> <li>• Graduates will be prepared to efficiently and appropriately optimize patient-specific outcomes using the Pharmacist Patient Care Process (PPCP) in the community pharmacy setting, including collaboration with other healthcare professionals.</li> </ul>
<b>PLOs</b>	<p>By the end of this program students will be able to:</p> <ol style="list-style-type: none"> <li>1. apply basic principles of pharmaceutical sciences, biochemistry, physical science, biology, mathematics and statistics needed for the application of these sciences to drug therapy and human health.</li> <li>2. illustrate healthcare systems and pharmaceutical manufacturing process in national, and international arena.</li> <li>3. apply problem-solving and decision-making skills in selecting the interaction-free drug regimen.</li> <li>4. apply patient-centered care using the best available data, as per the conditions of patients to design, adjust, record, execute and track pharmacotherapy care plans.</li> <li>5. Effectively apply principles of Pharmaceutical knowledge for discovery of new drugs from natural and chemical resources to treat the various lethal diseases affecting mankind.</li> <li>6. Apply principles of finance, marketing and human resources effectively to manage medication use systems.</li> <li>7. Utilize and apply the legal, ethical and professional responsibilities required for a pharmacist.</li> <li>8. Relate principles of continuous quality improvement to the evaluation of pharmacy services and develop outcome indicators for pharmacy services.</li> <li>9. Utilize medication use and intervention effectiveness</li> <li>10. Develop research studies that applies quantitative or qualitative research methods that address research questions in the field.</li> </ol>



FACULTY OF ENGINEERING

## ARCHITECTURAL ENGINEERING DEPARTMENT

<b>Mission</b>	The mission of the Architecture B.Sc. degree is to prepare students to become innovators and problem solvers in all architecture related field by educating them into the highest levels of theoretical knowledge and practical skills, which leads them to apply effectively the fundamental concepts, knowledge and drawing techniques of the architectural practice.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be able to respond to the actual needs of local and regional markets and professional communities at large.</li> <li>• Graduates will be capable of actively interacting with their professional milieu.</li> <li>• Graduates will be able to match science and art together as a creative skill to improve the society and will progress successfully in the field of architecture.</li> <li>• Graduates will apply problem-solving skills to address the complex problems of the 21st century through the application of art and science.</li> <li>• Graduates will be able to demonstrate intensive theoretical knowledge and practical skills in the field of computer applications needed for fulfilling tasks.</li> <li>• Graduates will utilize their creativity, imagination, critical thinking, and a sense of history for the development of social and ethical aspects.</li> </ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Apply problem-solving skills in the architectural context.</li> <li>2. Demonstrate knowledge of architectural history, theory, and practice in solving architectural design problems.</li> <li>3. Utilize freehand drawing, architectural graphics, and model building skills in solving architectural design problems.</li> <li>4. Utilize the computer as a tool in a wide range of documentation and presentation applications, using CAD, 3-D visualization and rendering, electronic image composition and editing software.</li> <li>5. Apply knowledge of mathematics, science, engineering and technology in solving architectural design problems.</li> <li>6. Develop designs that meet desired needs within realistic economic, social, political, and cultural constraints.</li> <li>7. Develop designs that fulfill the environmental, health &amp; safety, and sustainability considerations.</li> <li>8. Demonstrate team-working skills and show the ability to work collaboratively with various design teams involved in the building industry, and collaborate and negotiate with clients.</li> <li>9. Demonstrate the necessary knowledge for applying laws, codes, regulations, standards and practices in relation to building construction systems.</li> <li>10. Show their ideas through high quality drawing skills and artistic sense.</li> <li>11. Utilize their skills to address professional and ethical responsibilities, diversity and commitment to the work field.</li> <li>12. Suggest solutions and techniques for engaging in life-long learning and knowledge about contemporary issues.</li> </ol>

## CIVIL ENGINEERING DEPARTMENT

<b>Mission</b>	The Mission of Civil Engineering B.Sc. degree program is to develop highly competent civil engineering professionals. This is achieved by providing dynamic learning atmosphere that ensure our students would gain an educational, practical, professional, and intellectual experience that enables them to contribute to society through teaching, research, practice, and public service.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be prepared to meet and exceed the expectations of employers.</li> <li>• Graduates will be competent in urban development.</li> <li>• Graduates will be prepared as designers of modern structural systems, roads, and tunnels.</li> <li>• Graduates will have the ability to apply their engineering skills, exhibiting critical thinking and problem-solving skills in professional engineering practices.</li> <li>• Graduates will be able to tackle social, technical and business challenges in their field.</li> <li>• Graduates will be able to exhibit ethical attitudes and effective skills in communication, management, teamwork and leadership.</li> <li>• Graduates will be prepared for ongoing learning and professional development through self-study, continuing education in civil engineering and in other allied fields, such as industry, environment, infrastructures and safety.</li> </ul>
<b>POs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Apply principles of mathematics, science, and engineering</li> <li>2. Design and conduct experiments, as well as analyze and interpret data accurately.</li> <li>3. Design an engineering system, component, or process to meet desired industrial needs.</li> <li>4. Identify, formulate and solve complex engineering problems</li> <li>5. Apply, in design and construction, the most modern design codes, standards and specifications such as; AISC, ACI, ASCE 7, IBC, etc.</li> <li>6. Use the techniques, skills, and modern engineering tools, such as surveying instruments, and designing software that are necessary for engineering practices.</li> <li>7. Apply knowledge and skills in construction project management and recognition of international standards and methodologies</li> <li>8. Manage to work with multi-disciplinary teams and communicate effectively.</li> <li>9. Identify the moral values that ought to guide the Civil Engineering profession and resolve the moral issues in the profession.</li> <li>10. Apply the principles of sustainable development in their professional duties which go in line with the paramount safety, health and welfare of the public.</li> <li>11. Analyze the impact of engineering solutions in a global and social context</li> <li>12. Identify the need and have the ability to engage in lifelong learning and knowledge of contemporary issues.</li> </ol>

## COMPUTER ENGINEERING DEPARTMENT

<b>Mission</b>	The Mission of the Computer Engineering B.Sc. degree program is to develop highly competent professional students, prepare them for entry-level positions in computer engineering, and carry out further study in the field by educating them the fundamental skills and techniques of computer and software engineering.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be able to manage the industry-academia relationships.</li> <li>• Graduates will be able to handle the professional and leadership challenges of their careers.</li> <li>• Graduates will have the ability to effectively participate in a computer-specific and multi-disciplinary research teams.</li> <li>• Graduates will be prepared to take the responsibilities associated with engineering practice, including the professional, societal, and ethical context in which they do their work.</li> <li>• Graduates will be able to apply their communication skills to effectively promote their ideas, goals, or products.</li> <li>• Graduates will be competent in the underlying concepts of modern computer engineering.</li> </ul>
<b>PLOs</b>	<p>By the end of this program students will be able to:</p> <ol style="list-style-type: none"> <li>1. apply knowledge of mathematics and science to solve engineering problems.</li> <li>2. identify and analyze stakeholder needs, establish priorities and goals, constraints, and uncertainties of the computer systems (social, cultural, legislative forensics, environmental, business etc.).</li> <li>3. apply problem solving and design methodologies to develop components, systems and/or processes to meet specified requirements.</li> <li>4. model the structure and behavior of real or virtual systems, components, and processes.</li> <li>5. effectively coordinate a range of disciplinary and interdisciplinary activities.</li> <li>6. communicate and engage effectively with diverse stakeholders.</li> <li>7. apply effective communication skills to arrive at problem and design solutions in team contexts.</li> <li>8. use different modern methods, techniques, tools, and skills for engineering practice in real engineering projects.</li> <li>9. apply the professional and ethical principles of software engineering and data analytics.</li> <li>10. identify the impact of computer engineering solutions in a global, economic, environmental, and societal context.</li> <li>11. identify the emerging computer related problems and formulation of their solutions.</li> <li>12. develop research in the field of computer engineering using qualitative and quantitative methods to meet up with increasing needs and aspirations of mankind.</li> </ol>

## INTERIOR DESIGN ENGINEERING DEPARTMENT

<b>Mission</b>	<p>The mission of the Interior Design Engineering B.Sc. degree program is to produce competent &amp; compassionate and international level skilled designers. The program presents the students with the opportunity of gaining fundamental design skills in addition to encouraging students to self-developing lifelong skills. The main points that the Program keens to are:</p> <ul style="list-style-type: none"> <li>• Updating the content and the structure of the curriculum regularly to correspond to the modern trends in the Interior Design field.</li> <li>• Improving the CAD skills of the students.</li> <li>• Providing an integrating link between the academia and the market needs.</li> </ul>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be prepared for future professional careers in the local market and the region.</li> <li>• Graduates will be competent in the premium standards of interior design engineering.</li> <li>• Graduates will be able to interact with a variety of working teams and in multiple environments.</li> <li>• Graduates will have the ability to design with emphasis on the human and built environment relationship.</li> <li>• Graduates will be able to conduct research in the interior design field.</li> <li>• Graduates will have the ability to apply the ethical standards of the interior design profession.</li> </ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Identify social, cultural, economic, ecological and technological in design solutions.</li> <li>2. Apply project management skills and quantity estimation.</li> <li>3. Apply laws, codes, regulations, standards and practices in relation to building construction systems.</li> <li>4. Examine the historical and theoretical fundamentals of interior design.</li> <li>5. Apply the principles of lighting, acoustics, thermal comfort, and indoor air quality in relation to environmental impact and human wellbeing.</li> <li>6. Employ collaboration and leadership skills in the process of internal design.</li> <li>7. Distinguish codes, standards, and guidelines that impact the human experience of interior spaces.</li> <li>8. Develop quantitate and qualitative research projects in areas of interior design</li> <li>9. Apply the creativity and analytical skills and artistic sense.</li> <li>10. Evaluate how materials are fabricated, installed and maintained and how to plan furniture, fixture and equipment layouts.</li> <li>11. Employ interior design knowledge using computer aided design tools and drawing techniques on two and three dimensional as required.</li> </ol>

## PETROLUM AND MINING ENGINEERING DEPARTMENT

<b>Mission</b>	The Mission of the Petroleum and Mining Engineering B.Sc. degree program is to prepare students for employment and active involvement in various petroleum and mining-related areas and the pursuit of advanced degrees in petroleum and mining engineering by educating them in the fundamental concepts, knowledge and laboratory/field techniques and skills in the various related disciplines such as prospecting, reservoir development, drilling, production and mineral exploitation.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be competent in critical questioning and analysis of petroleum and mining engineering issues.</li> <li>• Graduates will be able to apply engineering principles and practices for the safe and efficient exploration, development, production, transportation and management of petroleum and mineral resources.</li> <li>• Graduates will have the ability to design and conduct experiments related to the petroleum and mining issues.</li> <li>• Graduates will be prepared for oil and mining careers in industry.</li> <li>• Graduates will have the ability to integrate key science and engineering problems and challenges in a practical environment.</li> </ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1. apply the principles of engineering, science, and mathematics to identify, formulate, and solve Petroleum and Mining Engineering problems.</li> <li>2. apply designs to produce solutions that meet specified Petroleum and Mining project needs with consideration of health, safety, and environment.</li> <li>3. make judgments in Petroleum and Mining Engineering situations by considering the global, economic, and environmental impacts.</li> <li>4. function effectively and demonstrate professionalism in both individual and group settings by creating a collaborative environment.</li> <li>5. develop and conduct appropriate Petroleum and Mining experiments and researches using qualitative and quantitative methods.</li> <li>6. analyze and interpret data of Petroleum and Mining experimentation correctly.</li> <li>7. make logic and reasonable engineering estimation of data to design a solution for specific Petroleum and Mining Engineering projects.</li> <li>8. apply advanced knowledge and modern engineering tools as needed</li> <li>9. design systems, components or processes to meet the needs and demands of the profession of Petroleum and Mining Engineering projects.</li> <li>10. apply the Petroleum and Mining Engineering concepts to other energy sectors such Geothermal.</li> </ol>

## MECHATRONICS ENGINEERING DEPARTMENT

<b>Mission</b>	The mission of the Mechatronics B.Sc. degree program is to prepare students for diverse job potentials whether; state, private or entrepreneurship, in all mechatronics related field by effective imparting of theoretical as well as practical courses throughout the years of study in the college.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be competent in their field equipped with sufficient skills and abilities to handle complex engineering problems.</li> <li>• Graduates will be able to translate plane linguistic statements into a robust; technological and academic interconnected constructs to perform a given task.</li> <li>• Graduates will be able to communicate effectively with different members from various disciplines.</li> <li>• Graduates will be prepared as engineers with quality of leadership of high morals and professional ethics.</li> <li>• Graduates will be prepared for future careers in industry.</li> </ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1. apply the knowledge as well as the ability to implement mathematics, science, and engineering fundamentals and construct solution of complex engineering problems.</li> <li>2. analyze and synthesize systems and/or sub-systems that can function in coherence with a variety of initial states and boundary conditions.</li> <li>3. analyze data produced by acquisition systems for both localized and/or remote applications.</li> <li>4. apply the knowledge about environmental issues which they are capable of embracing in their solution constructs coupled with public health and safety requirements.</li> <li>5. identify various parameters of physical quantities such as: temperature, pressure and displacement, through the use of appropriate sensors, transducers and actuators to different processors and provide suitable control for that.</li> <li>6. apply the knowledge about the energy demand and the sustainability requirements which can be addressed in any proposed engineering project to achieve and optimized solution.</li> <li>7. communicate effectively and work collaboratively with other engineers and technical personnel.</li> <li>8. apply the traits of good leadership, responsibility, passion and active engagement in both professional and community assignments.</li> <li>9. apply personal and industrial safety at work standards.</li> <li>10. draw all necessary plans and procedures to meet good satisfaction based on customer feedback.</li> <li>11. apply competency based marketing within the corporate domain that matches standards beyond local arena.</li> <li>12. apply the basic organizational and project knowledge skills; and effectively manage resources, tasks and time.</li> </ol>

## SURVEYING AND GEOMATICS ENGINEERING

<b>Mission</b>	The mission of Surveying and Geomatics engineering B.Sc. degree program is to prepare students for a profession in surveying, mapping, and geospatial science, through educating them the basic principles of surveying and geomatics and practical applications that will enable them to meet industry and society needs and pursue advanced studies.
<b>Objectives</b>	<ul style="list-style-type: none"><li>• Graduates will be able to demonstrate knowledge and skills in data collection, processing, modeling, and analysis in surveying and geomatics.</li><li>• Graduates will have the ability to integrate and manage geospatial reference data used to present deliverables.</li><li>• Graduates will be able to apply necessary skills and knowledge to solve related problems in surveying and geomatics.</li><li>• Graduates will be prepared to apply the knowledge as it is demanded by the industry.</li><li>• Graduates will be prepared to perform their duties in compliance with ethical and professional standards.</li></ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"><li>1. apply knowledge of mathematics, science, and engineering.</li><li>2. design and conduct experiments, as well as analyze and interpret data.</li><li>3. use the techniques, skills, and modern engineering tools necessary for engineering practice.</li><li>4. identify, formulate, and solve engineering problems.</li><li>5. create and manage databases for geographic information system, and land management system.</li><li>6. function effectively as individuals within multidisciplinary teams.</li><li>7. create and use related computer programs in the field of geomatics engineering.</li><li>8. develop research studies that applies qualitative research methods related to geomatics engineering subjects.</li><li>9. analyze the latest knowledge and concurrent issues in surveying and geomatics engineering efficiently</li><li>10. apply the traits of good leadership, responsibility, passion and active engagement in both professional and community assignments.</li></ol>



FACULTY OF SCIENCE

## INFORMATION TECHNOLOGY DEPARTMENT

<b>Mission</b>	The mission of the Information Technology B.Sc. degree program is to prepare students for employment in various information technology-related areas and/or develop research in the field by educating them the fundamental knowledge, modals, tools, skills and techniques of Information Technology.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be able to analyze, design, and implement software and hardware solutions.</li> <li>• Graduates will be able to identify, interpret and analyze stakeholder needs establish priorities and goals, constraints and uncertainties of the information systems.</li> <li>• Graduates will have the ability to apply problem solving, designing and decision-making methodologies to develop components, systems and/or processes to meet specified requirements.</li> <li>• Graduates will be able to model the structure and behavior of real or virtual systems, components and processes.</li> <li>• Graduates will be able to coordinate a range of disciplinary and interdisciplinary activities to arrive at problem and design solutions in team contexts.</li> <li>• Graduates will be competent in self-organization, self-review, personal development and lifelong learning.</li> <li>• Graduates will be able to handle professional and ethical responsibilities.</li> <li>• Graduates will be able to identify the impact of information technology solutions in a global, economic, environmental, and societal context.</li> </ul>
<b>PLOs</b>	<p>By the end of this program students will be able to:</p> <ol style="list-style-type: none"> <li>1. Analyze a problem, and identify the computing requirements appropriate to its solution</li> <li>2. Design, implement, and evaluate computer-based systems, process, component, or program to meet desired needs</li> <li>3. Function effectively in teams to accomplish a common goal</li> <li>4. Identify professional, ethical, legal, security, social, and economic issues and responsibilities</li> <li>5. Analyze the local and global impact of computing on individuals, organizations, and society</li> <li>6. Use current techniques, skills, and tools necessary for computing practice</li> <li>7. Apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, web systems and technologies</li> <li>8. Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems</li> <li>9. Effectively integrate it-based solutions into the user environment</li> <li>10. Apply problem solving skills, core it concepts, best practices and standards to information technologies</li> <li>11. Identify and evaluate organizational requirements and current and emerging technologies</li> <li>12. Design and integrate it-based solutions into the organizational environment</li> </ol>

## MEDICAL ANALYSE DEPARTMENT

<b>Mission</b>	The mission of the Medical Analysis B.Sc. degree program is to prepare professional graduates equipped with knowledge and skills needed in the identification and diagnosis of diseases in the laboratories, monitoring patient health information, and all medical analysis-related areas by educating them the fundamental concepts and techniques of the areas of medical sciences including medical diagnosis in laboratories, quality control assurances, health screening, as well as medical assistance.
<b>Objectives</b>	<ul style="list-style-type: none"><li>• Graduates will be able to understand basic aspects of diseases in general.</li><li>• Graduates will be able to discuss the physiological and pathological aspects of diseases.</li><li>• Graduates will be competent in interpreting the basic principles and applications of cell culture and animal models to study diseases.</li><li>• Graduates will have the ability to identify how genetics and environmental factors contribute to predisposition and progression of diseases.</li><li>• Graduates will have the ability to apply immunotherapy in treating human diseases.</li><li>• Graduates will be able to translate laboratory science into clinical trials.</li><li>• Graduates will be able to recognize the different phases of clinical trials and how clinical trials are performed.</li></ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"><li>1. evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.</li><li>2. apply principles of evidence-based medicine to determine clinical diagnoses.</li><li>3. apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.</li><li>4. formulate and implement acceptable treatment modalities to various disease states.</li><li>5. use technology effectively in the delivery of instruction, assessment, and professional development.</li><li>6. exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.</li><li>7. exhibit organizational skills, accountability, and ethical behavior.</li><li>8. apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment.</li><li>9. apply problem-solving and decision-making skills.</li><li>10. apply and promote health policies and regulatory standards in the field career.</li><li>11. develop research in the field of medical analysis using qualitative and quantitative methods.</li></ol>

FACULTY OF EDUCATION

## BIOLOGY EDUCATION DEPARTMENT

Mission	The mission of the Biology Education B.Sc. degree program is to prepare students for life-long learning and teaching in the field of biology and its involvement in the world by providing empirical learning through courses, laboratory exercises, educational field experiences, and participation in research, internships, and cooperative education programs.
Objectives	<ul style="list-style-type: none"><li>• Graduates will be competent in scientific reasoning and problem solving across the spectrum of disciplines within biology.</li><li>• Graduates will be able to teach the principles and fundamental concepts of biology.</li><li>• Graduates will be prepared for a wide variety of postgraduate opportunities, professional training programs and jobs in any area of biology.</li><li>• Graduates will be prepared for alternative education in the area of Biology through undergraduate research and internships.</li><li>• Graduates will be able to apply methods of scientific measurement, analyze experimental data and report experimental results in scientific format.</li></ul>
PLOs	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"><li>1. Write accurately and clearly about biology topics that conform to the scientific conventions of that field.</li><li>2. Describe the molecular components of living things, their heredity transformations and the main concerns in these biological process</li><li>3. Identify and analyze the microorganisms including bacteria, fungi and virus and their roles in nature.</li><li>4. Characterize the features of plant organs/tissues/cells/organelles involved in cellular respiration, photosynthesis, reproduction and growth.</li><li>5. Describe the micro and macro anatomy of the living systems and recognize the relationship between structure and function at all biological systems and levels.</li><li>6. Apply safety and proper techniques in the laboratory, and report the results of conducted experiments.</li><li>7. Use appropriate methods and techniques to improve their students' critical thinking, creative thinking and problem solving skills.</li><li>8. Effectively organize and manage classrooms.</li><li>9. Use required methods and techniques for student-centered teaching by considering individual and cultural differences of students.</li><li>10. Develop research studies that applies quantitative or qualitative research methods that address research questions in the field.</li></ol>

## MATHEMATICS EDUCATION DEPARTMENT

Mission	The mission of Mathematics Education B.A. degree program is to offer theoretical and educational courses, and programs of study that will ensure its graduates will be able to contribute to today`s society as mathematics teachers in primary and high schools. This is accomplished through educating the students the mathematical knowledge and skills in the areas of pure and applied mathematics, mathematics education, and educational science.
Objectives	<ul style="list-style-type: none"> <li>• Graduates will be able to apply mathematical content knowledge as mathematics teachers in primary, secondary and high school.</li> <li>• Graduates will have the ability to critically interpret numerical and graphical data.</li> <li>• Graduates will be competent in problem solving and analytical thinking skills.</li> <li>• Graduates will be prepared to be able to have different career opportunities in other industries.</li> <li>• Graduates will be able to communicate with students via social media and teaching technologies as teaching materials.</li> <li>• Graduates will be competent in computational skills necessary for teaching in today`s society</li> <li>• Graduates will be academically ready to take more specialized classes in math by well completing the first cycle.</li> </ul>
PLOs	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Apply the core body of knowledge in pure, applied and educational mathematics.</li> <li>2. Apply methods of teaching on elementary number theory and algebra.</li> <li>3. Design their lectures according to a variety of learners in mathematical morality.</li> <li>4. Connect geometry to other strands of mathematics and use it to solve problems.</li> <li>5. Analyze and apply proof methods to answer background of concepts and verify conjectures.</li> <li>6. Apply differential and integral calculus into the applicable content.</li> <li>7. Implement pedagogical content knowledge, technology and perfectible assessment in every level of basic education.</li> <li>8. Use mathematics critically, research scientifically, and become modern and up-to-date.</li> <li>9. Discuss the interrelationship of human development, cognition, and culture and their impact on learning.</li> <li>10. Apply analytical and theoretical skills to model and solve mathematical problems.</li> <li>11. Effectively use a variety of teaching technologies and techniques and classroom strategies to positively influence student learning.</li> <li>12. Implement connections among educators, families, and the larger community to promote equity and access to education for his/her students.</li> <li>13. Analyze and compare alternative assessment and evaluation of student performance and program effectiveness.</li> <li>14. Communicate effectively and work collaboratively within the context of a global society.</li> </ol>

## ENGLISH LANGUAGE TEACHING DEPARTMENT

<b>Mission</b>	The Mission of the English Language Teaching B.A. degree program is to prepare students to become qualified English language teachers for primary, secondary, and high schools by training them in the fundamental concepts, knowledge, techniques, and essential skills of English language teaching and learning to contribute to education and today's society.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be competent in the basic terms and principles of language teaching for application.</li> <li>• Graduates will be able to teach using modern methods and approaches of teaching foreign language.</li> <li>• Graduates will be skillful in critical thinking, creativity, problem solving skills and translation skills.</li> <li>• Graduates will be able to list methods of assessment and evaluation as well as determine suitable teaching strategies for a particular group of students.</li> <li>• Graduates will have the ability to plan the educating process and using the required approaches by considering the individual needs and difference of the students as well as the requirements of the teaching field.</li> <li>• Graduates will be prepared to conduct collaborative work using education as a medium to connect with society.</li> </ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1- define the basic terms and principles of language teaching.</li> <li>2- communicate ideas in English language effectively and appropriately in written and oral forms both in academic and non-academic contexts</li> <li>3- apply the appropriate methods of assessment and evaluation in the education process to obtain accurate feedback on learners' progress.</li> <li>4- teach the language skills of speaking, writing, listening and reading effectively</li> <li>5- apply the basic terms and principles of language teaching in the teaching process.</li> <li>6- apply modern methods and approaches of teaching foreign language.</li> <li>7- differentiate between material adoption, adaptation, and development methods.</li> <li>8- translate from and into English and their mother tongues.</li> <li>9- use appropriate methods and techniques to improve students' critical thinking, creative thinking and problem solving skills.</li> <li>10- plan teaching and learning processes by considering individual needs, differences of students, and needs of the teaching field.</li> <li>11- use required methods and techniques for student-centered teaching by considering individual and cultural differences.</li> <li>12- provide guidance and counselling to students and their parents to boost the quality of learning of each individual student.</li> </ol>

## PHYSICS EDUCATION DEPARTMENT

<b>Mission</b>	The mission of the Physics Education B.A. degree program is to prepare students for life-long learning and teaching physics at the secondary, high school level, or research labs, and its involvement in our world by providing empirical learning through courses and laboratory exercises, educational field experiences, and participation in research, internships, and cooperative education programs with special emphasis on ‘learning by doing’.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be competent in the basic terms and principles of Physics teaching for application purposes.</li> <li>• Graduates will be able to teach Physics using modern methods and approaches of teaching.</li> <li>• Graduates will be competent in critical thinking, scientific reasoning and problem solving skills across the spectrum of disciplines within Physics.</li> <li>• Graduates will have the ability to plan the educating process and using required approaches by considering the individual needs and differences of the students as well as the requirements of the teaching field.</li> <li>• Graduates will be prepared for a wide variety of post-graduate degrees and professional training programs, or entry level jobs in any area of physics.</li> <li>• Graduates will be prepared for careers in industry and to conduct collaborative work using education as a medium to connect with society.</li> </ul>
<b>PLOs</b>	<p>By the end of this program students will be able to:</p> <ol style="list-style-type: none"> <li>1. Discuss concepts and principles of physics.</li> <li>2. Conduct proper experiments safely and interpret the data in physics teaching physics.</li> <li>3. Use the results of recent education and subject-specific developmental research when designing, implementing and justifying their own practice as a teacher.</li> <li>4. Apply analytical and theoretical skills to model and solve physics problems.</li> <li>5. Identify students’ misconceptions and deal with them in classroom.</li> <li>6. Prepare physics lessons with appropriate learning materials and teaching methods.</li> <li>7. Effectively assess, plan, teach, organize, and manage physics classrooms.</li> <li>8. Use appropriate methods and techniques to improve students’ critical thinking, creative thinking and problem solving skills in physics.</li> <li>9. Use required modern methods and techniques for student-centered teaching by considering individual and cultural differences of students.</li> <li>10. Effectively use a variety of teaching technologies and techniques and classroom strategies to foster student learning.</li> <li>11. Communicate effectively and work collaboratively within the context of a global society.</li> <li>12. Exhibit character and decision-making skills embodying professionalism and ethical behavior.</li> </ol>



FACULTY OF LAW

## LAW DEPARTMENT

<b>Mission</b>	The mission of the Law B.A. degree program is to prepare students for the ethical practices at the highest level of quality and integrity in order to serve the public interest. This is achieved through educating them the fundamental concepts of equality, justice and fairness and enhancing their analytical abilities and their skills in oral and written communication. In addition, the program instills in students the obligation to provide legal assistance to many members of society, educates them about the crucial role played by lawyers in resolving issues of public policy.
<b>Objectives</b>	<ul style="list-style-type: none"><li>• Graduates will be able to contribute to the quality of the legal system by developing the habit of engaging in critical reflection about themselves, the justice system and the practice of law.</li><li>• Graduates will be able to deal with clients' legal issues in ethical and creative manner.</li><li>• Graduates will be competent in the field of law by developing skills regarding advocacy, legislation, law reforms and other legal services</li><li>• Graduates will be able to become effective and integral part of the legal team.</li><li>• Graduates will be able to practice effective listening, written and oral communication skills.</li><li>• Graduates will be able to understand and use statutes and other enacted rules to solve legal problems or construct legal arguments.</li></ul>
<b>PLOs</b>	By the end of this program, students will be able to: <ol style="list-style-type: none"><li>1. Use and interpret the texts of Iraqi law in advising clients and resolving disputes.</li><li>2. Accurately identify the issue on appeal, judgement, procedural history, rules of law, reasoning and policy choices.</li><li>3. Identify the relationship between cases and statutes, and the appropriate uses of each in solving legal problems.</li><li>4. Use the basic theories and practice of legislative enactment and interpretation.</li><li>5. Identify and evaluate analogies and distinctions between facts in the sources of the rules and in scenario facts.</li><li>6. Discuss the main characteristics of Islamic law, including its resources, legal development and all the other legal issues which are connected to the Islamic law such as marriage and divorce.</li><li>7. Apply critical thinking with the current legal issues.</li><li>8. Manage legal research and technology offerings, including the use of electronic legal research databases.</li><li>9. Formulate effective briefing, note-taking, and drafting techniques.</li><li>10. Communicate effectively and work collaboratively within the context of a global society.</li></ol>

FACULTY OF  
ADMINISTRATIVE SCIENCES  
AND ECONOMICS

## BUSINESS AND MANAGEMENT DEPARTMENT

<b>Mission</b>	The Mission of the Business and Management B.Sc. degree program is to provide the students with successful business and management related careers in various type of organizations, enable them to start their own business, and for the pursuit of advanced degrees in Management related fields, through emphasizing on and educating fundamentals techniques, concepts, and managerial skills needed in the field of Management.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be able to demonstrate necessary skills and knowledge to fulfill different positions to serve the department, the University, the business community, academic and other professional organizations, the local &amp; international communities and become future entrepreneurs.</li> <li>• Graduates will be competent in team-building skills, analytical skills, quantitative skills, leadership skills, and soft skills in the fields of management and organizations.</li> <li>• Graduates will be able to apply critical thinking skills to work efficiently and effectively as a prospective employee or employer after their graduation.</li> <li>• Graduates will be able to apply theoretical knowledge practically with an emphasis of working on live case-studies from the industry.</li> <li>• Graduates will be competent in ethical leadership and all ethical aspects related to the business and management profession through specialized curriculum.</li> <li>• Graduates will have the ability to do research that focus on problems related to local and international organizations.</li> </ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Analyze and communicate global, economic, legal and ethical aspects of business.</li> <li>2. Demonstrate effective leadership and collaboration skills needed to make business critical decisions, accomplish functional, organizational and professional goals.</li> <li>3. Demonstrate written and oral communication and information literacy competencies that support the effectiveness of strategic planning, marketing and operational activities.</li> <li>4. Evaluate and apply the effective use of technology to optimize business performance.</li> <li>5. Develop comprehensive solutions to business problems by synthesizing and evaluating information using qualitative and quantitative methods of reasoning and analysis.</li> <li>6. Generate ethics and social responsibility in organizations.</li> <li>7. Manage assignments individually, and in a group, and to have self-confidence for taking responsibility</li> <li>8. Generate a viable feasibility analysis and professional business plan.</li> <li>9. Produce effective written business reports related to the industry to be used for decision making.</li> <li>10. Identify the dynamics, advantages, and issues of diversity and in teams and international organizations.</li> </ol>

## ACCOUNTING DEPARTMENT

<b>Mission</b>	The mission of the Accounting B.Sc. degree program is to provide quality of education and research with international standards, ethical & human values to the students to carve them as future professional leaders by educating them the modern concepts in accounting and enabling them to tackle professional challenges effectively and efficiently in the industry.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be able to use the knowledge and skills consistent with the accounting profession.</li> <li>• Graduates will demonstrate ethical decision making skills in consistent with GAAP (Generally Accepted Accounting Principles) and IFRS (International Financial Reporting Standards) as future accountants</li> <li>• Graduates will apply critical, analytical problem solving and logical thinking skills which are inherent in the profession.</li> <li>• Graduates will apply accounting theoretical knowledge practically by understanding the needs of the industry.</li> <li>• Graduates will exhibit self-discipline, consistency, accuracy and proactivity in their field work.</li> </ul>
<b>PLOs</b>	<p>By the end of this program, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Identify ethical issues associated to accounting profession.</li> <li>2. Prepare financial statements according to generally accepted accounting principles (gaap) and international financial reporting standards (ifrs)</li> <li>3. Apply critical thinking to examine and analyze financial data and effects of differing financial accounting methods on the financial statements.</li> <li>4. Identify the needs of the various users of accounting data and communicate and recommend such data to stakeholders.</li> <li>5. Apprehend fraud related circumstances and find preventives measures.</li> <li>6. Discuss current auditing standards and acceptable practices, as well as the impact of audit risk on the engagement.</li> <li>7. Identify the audit process from the engagement planning stage through completion of the audit, as well as the rendering of an audit opinion via the various report options.</li> <li>8. Apply cost accounting methods to evaluate and project business performance.</li> <li>9. Assess the taxation of individual income and corporate income.</li> <li>10. Apply appropriate judgment derived from knowledge of accounting theory, to financial analysis and decision making.</li> </ol>

## INTERNATIONAL RELATIONS AND DIPLOMACY PROGRAM

<b>Mission</b>	The mission of the International Relations and Diplomacy B.A. degree program is to prepare students for future careers in the field of international affairs, diplomacy, government and civil society. This will be achieved by providing high quality education and training on fundamental principles, institutions and practice in related fields of international relations and diplomacy.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• Graduates will be competent in related areas of politics, international relations and diplomacy</li> <li>• Graduates will have the ability to define the major trends of national, regional and global politics</li> <li>• Graduates will be prepared to pursue their future career in the labor market in their related area of study.</li> <li>• Graduates will be able to conduct scientific research and investigation in their field of study</li> <li>• Graduates will have the ability to employ timely analytical, negotiation and diplomatic skills required for pursuing a successful career in the related areas of diplomacy and consular services.</li> </ul>
<b>PLOs</b>	<p>By the end of this program, graduates will be able to:</p> <ol style="list-style-type: none"> <li>1. Demonstrate critical thinking and academic debate in their field of study</li> <li>2. Apply fundamental principles and approaches in international relations and diplomacy</li> <li>3. Discuss the historical development in political sciences</li> <li>4. Critically analyze current trends in national and international politics</li> <li>5. Apply the principles of national constitutions/law and international law</li> <li>6. Demonstrate effective leadership skills in their future career</li> <li>7. Communicate effectively and work collaboratively within the context of a global society.</li> <li>8. Demonstrate essential diplomatic, negotiation, mediation knowledge and skills tied with effective problem-solving skills.</li> <li>9. Demonstrate project management knowledge and skills especially in the areas of public service and humanitarian intervention.</li> <li>10. Produce researches in the field of international relations and diplomacy as well as the other related fields of social sciences.</li> </ol>