



ENGINEERING DEPARTMENT

ARCHITECTURE & CIVIL ENGINEERING

COURSE DESCRIPTION FOR DIPLOMA (QS)

COURSE CODE	COURSE DESCRIPTION	CREDIT HOURS
ENGL 2100	<b>Technical Communication:</b> The course introduces the student to the theories, principles, and processes of effective written communication in the technical disciplines with attention to the major strategies for composing technical discourse; techniques for analyzing audiences and writing situations, and for organizing data and information.	3
CEQS 2110	<b>Building Services 1:</b> The course aims to equip the student with an understanding of the basic systems of services within a building. The student will be able to understand the concept of sound, acoustics and vibration. Understand the basic telecommunication systems in a building. Further the students will be able to understand the following: water supply, soil and waste pipe, gas installation systems, refuse collection, electrical installation and lightning protection.	3
CEQS 2211	<b>Building Services 2:</b> The course enables the student to Identify and describe the following systems and their functions: Fire prevention and fire fighting systems, mechanical conveyors in building, ventilation and air-conditioning systems, building automation systems, and sewage disposal systems.	3
PHIL 2108	<b>Business Ethics:</b> This course is to equip the student with highest ethical standards that will guide him/her through real life dilemmas. It also enables the student to understand the concept of value, Islamic and Omani values, appreciate and respect ethnic and cultural diversity.	3
CEQS 2120	<b>Construction Measurement 1:</b> The course introduces the student to the standard measurement concepts and applications for simple works in view of the Standard Method of Measurement. The course enables the student to take off quantities and prepare measurements using drawings and specifications for the following: surface, trench and pier whole excavation, foundation and simple concrete frame structure, concrete ground floors and upper floors, concrete staircases, walls, partitions, ceiling and finishes.	3
CEQS 2221	<b>Construction Measurement 2:</b> The course aims to equip the student with the ability to produce measurements of complex construction works. The student will be able to: apply Newton's Laws and mathematic principles to take off quantities and prepare measurements using drawings and specifications for the following: piling works, basement and retaining walls, doors and windows, long span roof, floor and wall finishes, Demolitions and renovation works and external works for buildings.	3
CEQS 2101	<b>Construction Technology 1:</b> The course introduces the student to the building components, construction materials and their properties. Further they understand the functions, design principles and method of construction for the following: frame, upper floors, walls, doors and windows, finishes in buildings.	3

CEQS 2202	<b>Construction Technology 2:</b> The course aims to introduce the student to the function, design principles, method and process of construction and detailing of works at site. Also the course enables the student to understand the following building components: Substructure work (Retaining walls and basements), Long span roof, Pre-fabricated building, Pre-stressed concrete, Temporary and External works and Built-in fitments. Identify and describe the processes and procedures of construction planning and Control. Demolition and renovation works for buildings more than 4 story high and large floor area are also introduced.	3
PHIL 2200	<b>Formal Logic:</b> The course aims to develop the student's ability to think and function effectively, logically, analytically and effectively using oral and written communication. The student will be able to apply analytical skills in problems solving, Present a reasoned argument. Function creatively in work environment and deal with people rationally.	3
CEQS 2399	<b>Diploma Project:</b> The course enables the student to integrate the various areas of knowledge he/she gained through the program. Consolidate personal confidence in working independently or in a team and improve his/her spirit of performance along with presentation skills.	3
CECE 2230	<b>Building Drawing:</b> The course enables the student to understand the basic principles of drafting and planning of buildings. It enables the student to develop AutoCAD skills for drawing building plans, elevation, section and building details like Substructures, Frames, Walls, Floors, Staircases, Doors and windows, Roofs and ceilings, Long span roof, Temporary and External works.	3
CELS 2100	<b>Engineering Surveying:</b> The course provides the student with basic principles of Surveying. The student will be able to develop the ability to observe and record angles and linear measurements. Understand the method of producing a plan from survey fieldwork. Gains experience to work as a team member and cooperate and exchange ideas during fieldwork. Develop the skills and personal qualities necessary to use surveying instruments with confidence.	3