Hours

MECHANICAL ENGINEERING TECHNOLOGY: BACHELOR

Overview

Program Mission

Prepare graduates to be successful as technicians and engineers embracing innovation and discovery and striving for life-long learning and professional development in the field of Mechanical Engineering Technology.

Program Description

The Bachelor of Mechanical Engineering Technology program provides an excellent broad education with a focused area of specialization options to cater for the global UAE industry. Mechanical engineering technology graduates are trained to support the design, development, and maintenance of mechanical, static as well as rotating equipment. The program also teaches them to develop effective energy solutions, and manufacture and maintain state of the art equipment. HCT Mechanical Engineers are trained to use state of the art software and hardware to rapidly prototype and test potential product design, computerized testing and measurements, and computer control of machinery.

The Bachelor of Mechanical Engineering Technology curriculum produces high-quality engineers known for productivity, timeliness, dedication, and competence in the workplace. Graduates have the ability to work logically, accurately and efficiently; to gather and use information effectively; and to continue enhancing their careers through lifelong learning. The program stresses the effective use of technology, information resources and engineering tools. The program instills leadership qualities based on moral and ethical principles coupled with sound and rational judgment. Finally, the program is designed to prepare interested students for graduate studies in mechanical engineering technology and other areas of professional practice.

This program offers elective concentrations in Power and Design and Manufacturing. Students will have the option to graduate with a Diploma in Mechanical Engineering Technology upon the successful completion of 78 credits inclusive of the 8 week Work Placement.

Program Goals

- Provide Mechanical Engineering professionals who are equipped with the technical knowledge and skills required by the industry to develop, design, and maintain mechanical systems to highest level of industry standards.
- Prepare graduates for a successful career as effective decision makers with strong communication and teamwork skills and an understanding of the global, ethical and social implications of the industry and Mechanical Engineering profession.
- Provide graduates with strong commitment to lifelong learning, continuing education, and professional growth.
- Provide graduates with leadership qualities and commitment to contribute actively to achieving the Abu Dhabi Vision 2030.

Program Learning Outcomes

Upon graduation, a HCT graduate in Bachelor of Mechanical Engineering Technology should demonstrate:

- An ability to apply knowledge, methods, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to Mechanical Engineering Technology;
- An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to Mechanical Engineering Technology;
- An ability to apply written, oral, and graphical communication in broadly defined technical and non-technical environments, and an ability to identify and use appropriate technical literature
- 4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes
- An ability to function effectively as a member as well as a leader on technical teams.
- An ability to develop and evaluate a business plan to transform an engineering design (systems, products, services and solutions) into a business opportunity utilizing entrepreneurial skills and knowledge

Requirements Completion Requirements

Bachelor of Mechanical Engineering Technology

Students must successfully complete a minimum of 146 credits, including:

Code	Title	Credit Hours
Program Co	ore Courses	74
Program El	lective Courses	18
Mathemati	cs and Science Courses	21
General Stu	udies course	33
Total Credi	t Hours	146
Code	Title	Credit

Mechanical Engineering Core Courses

Required Credits: 74		
EGN 1133	Design Thinking in Technology	3
EGN 2712	Applied Programing for Engineers	2
EGN 2806	Work Placement I	6
EGN 3012	Project Management	2
EGN 3212	Economics for Engineering	2
EGN 3806	Work Placement II	6
ELE 2153	Electrical Eng Fundamentals	3
MCE 2203	Applied Statics	3
MCE 2213	Mechanics of Materials	3
MCE 2223	Applied Dynamics	3
MCE 2303	Material Selection and Testing	3
MCE 2311	Solid Modelling	1
MCE 2323	Manufacturing Technology I	3
MCE 2332	Geometric Dimensioning and Tolerancing	2
MCE 2403	Thermodynamics	3
MCE 2903	Sophomore Design Project	3

MCE 3203	Applied Mechanical Vibrations	3	
MCE 3303	Manufacturing Technology II	3	
MCE 3403	Fluid Mechanics	3	
MCE 3413	Applied Heat Transfer	3	
MCE 3503	Mechanical Design	3	
MCE 3513	Machine Elements and Mechanisms	3	
MCE 3601	Engineering Measurements Lab	1	
MCE 4603	Control Systems	3	
MCE 4902	Capstone Design Project I	2	
MCE 4912	Capstone Design Project II	2	
Mathematics a	and Science Courses		
Required Credi	its: 21		
CHM 1103	Engineering Chemistry	3	
MTH 1103	Pre Calculus	3	
MTH 1203	Calculus I	3	
MTH 2103	Calculus II	3	
MTH 2503	Introduction to Differential Equations	3	
MTH 3013	Calculus III	3	
PHY 1203	Physics II	3	
General Studie	es		
Required Credi	its: 33		
English, Arabid	or other Languages		
Required Credi	its: 12		
LSC 1103, AES	3 1013, AES 1033 and LSC 2193		
Humanities or	Arts		
Required Credi	its: 3		
AES 1003			
Information Te	chnology and Mathematics		
Required Credi	its: 6		
ICT 2013 and N	MTH 1113		
The Natural So	ciences		
Required Credi	its: 3		
PHY 1103			
The Social or E	The Social or Behavioral Sciences		
Required Credits: 9			
LSS 1003, LSS	1123 and BUS 2403		

Concentrations

Concentration Name: Design and Manufacturing Concentration

Total Credit Hours: 18 Concentration Curriculum:

Code	Title	Credit Hours
MCE 4303	Computer Integrated Manufacturing	3
MCE 4313	Advanced Geometric Dimensioning and Tolerancing	3
MCE 4513	Integrated Design for Manufacture and Assembl	у 3
Concentration Code: DMF		

Concentration Electives:

Code	Title	Credit Hours
MCE 3343	Industrial Plant Maintenance	3
MCE 3613	Fluid Power	3
MCE 4323	Non Destructive Testing	3
MCE 4333	Production Planning and Control	3
MCE 4503	Finite Element Analysis	3
MCE 4613	Robotics and Automation	3
MCE 4623	Introduction to Mechatronics	3
MCE 4863	Special Topics in Mechanical Engineering	3
MCE 4893	Directed Study	3

Concentration Name: Power Concentration

Total Credit Hours: 18 Concentration Curriculum:

Code	Title	Credit Hours
MCE 3343	Industrial Plant Maintenance	3
MCE 4403	Refrigeration and Air Conditioning System	3
MCE 4413	Turbomachinery	3
MCE 4423	Power Plant Engineering	3

Concentration Code: MPR

Concentration Electives:

Code	Title	Credit Hours
EGN 4333	Renewable Energy Systems	3
MCE 3613	Fluid Power	3
MCE 4433	Internal Combustion Engines	3
MCE 4443	Computational Fluid Dynamics	3
MCE 4453	Desalination Engineering	3
MCE 4463	Energy Conservation and Management	3
MCE 4503	Finite Element Analysis	3
MCE 4863	Special Topics in Mechanical Engineering	3
MCE 4893	Directed Study	3

Description	Data
Total Required Credits	146
Maximum Duration of Study	6 years
Minimum Duration of Study	4 years
Cost Recovery Program	No
Program Code	BMCET
Major Code	MCE

Ideal Study Plan Recommended Sequence of Study

Year 1		
Semester 1		Credit Hours
EGN 1133	Design Thinking in Technology	3
LSC 1103	Professional Communication and Reporting	3
LSS 1003	Life and Future Skills	3
MTH 1103	Pre Calculus	3
PHY 1103	Physics I	3
	Credit Hours	15

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Semester 2	Anahia Camana misatisma I	_
AES 1013	Arabic Communications I	3
AES 1033	Islamic Culture	3
CHM 1103 MTH 1113	Engineering Chemistry Statistics for Engineering	3
MTH 1113	Calculus I	3
PHY 1203	Physics II	3
F111 1203	Credit Hours	18
Summer	Cledit Hours	10
MCE 2303	Material Selection and Testing	3
MTH 2103	Calculus II	3
	Credit Hours	6
Year 2		
Semester 3		
ELE 2153	Electrical Eng Fundamentals	3
ICT 2013	Computational Thinking and Coding	3
MCE 2203	Applied Statics	3
MCE 2311	Solid Modelling	1
MCE 2323	Manufacturing Technology I	3
MCE 2403	Thermodynamics	3
	Credit Hours	16
Semester 4		
AES 1003	Emirati Studies	3
MCE 2213	Mechanics of Materials	3
MCE 2332	Geometric Dimensioning and Tolerancing	2
MCE 2903	Sophomore Design Project	3
MCE 3343	Industrial Plant Maintenance	3
MCE 3613	Fluid Power	3
	Credit Hours	17
Summer		
EGN 2806	Work Placement I	6
2011 2000		
	Credit Hours	6
Year 3	Credit Hours	6
	Credit Hours	6
Year 3	Applied Programing for Engineers	2
Year 3 Semester 5 EGN 2712 EGN 3012	Applied Programing for Engineers Project Management	2 2
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193	Applied Programing for Engineers Project Management Applied Skills Capstone	2 2 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics	2 2 3 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design	2 2 3 3 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations	2 2 3 3 3 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design	2 2 3 3 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours	2 2 3 3 3 3 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods	2 2 3 3 3 3 3 16
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations	2 2 3 3 3 3 3 16
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3303	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II	2 2 3 3 3 3 16
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3303 MCE 3403	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics	2 2 3 3 3 3 16 3 3 3 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3303 MCE 3403 MCE 3403 MCE 3513	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms	2 2 3 3 3 3 16
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3303 MCE 3403	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III	2 2 3 3 3 3 16 3 3 3 3 3 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3403 MCE 3513 MTH 3013	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms	2 2 3 3 3 3 16
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3403 MCE 3513 MTH 3013 Summer	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours	2 2 3 3 3 3 16 3 3 3 3 3 3 3 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3403 MCE 3513 MTH 3013	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours Work Placement II	2 2 3 3 3 3 16 3 3 3 3 3 3 3 18
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3403 MCE 3403 MCE 3403 MCE 3513 MTH 3013 Summer EGN 3806	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours	2 2 3 3 3 3 16 3 3 3 3 3 3 3 3
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3303 MCE 3403 MCE 3403 MCE 3403 MCE 3513 MTH 3013 Summer EGN 3806	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours Work Placement II	2 2 3 3 3 3 16 3 3 3 3 3 3 3 18
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3403 MCE 3513 MTH 3013 Summer EGN 3806 Year 4 Semester 7	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours Work Placement II Credit Hours	2 2 3 3 3 3 16 3 3 3 3 3 3 18 6 6
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3403 MCE 3513 MTH 3013 Summer EGN 3806 Year 4 Semester 7 MCE 4603	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours Work Placement II Credit Hours Control Systems	2 2 3 3 3 16 3 3 3 3 3 18 6 6
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3403 MCE 3513 MTH 3013 Summer EGN 3806 Year 4 Semester 7	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours Work Placement II Credit Hours	2 2 3 3 3 3 16 3 3 3 3 3 3 18 6 6
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3413 MTH 3013 Summer EGN 3806 Year 4 Semester 7 MCE 4603 MCE 4902	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours Work Placement II Credit Hours Control Systems Capstone Design Project I	2 2 3 3 3 3 16 3 3 3 3 3 18 6 6
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3403 MCE 3513 MTH 3013 Summer EGN 3806 Year 4 Semester 7 MCE 4603	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours Work Placement II Credit Hours Control Systems Capstone Design Project I	2 2 3 3 3 16 3 3 3 3 3 18 6 6
Year 3 Semester 5 EGN 2712 EGN 3012 LSC 2193 MCE 2223 MCE 3503 MTH 2503 Semester 6 LSS 1123 MCE 3203 MCE 3403 MCE 3403 MCE 3513 MTH 3013 Summer EGN 3806 Year 4 Semester 7 MCE 4603 MCE 4902 EGN 3212	Applied Programing for Engineers Project Management Applied Skills Capstone Applied Dynamics Mechanical Design Introduction to Differential Equations Credit Hours Basic Research Methods Applied Mechanical Vibrations Manufacturing Technology II Fluid Mechanics Machine Elements and Mechanisms Calculus III Credit Hours Work Placement II Credit Hours Control Systems Capstone Design Project I	2 2 3 3 3 3 16 3 3 3 3 3 18 6 6

MCE 3413	Applied Heat Transfer	3
	Credit Hours	14
Semester 8		
MCE 4912	Capstone Design Project II	2
4 Elective Courses		12
	Credit Hours	14
	Total Credit Hours	146

Faculty and Academic Staff

Al Ain Men's

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