INDUSTRIAL ENGINEERING TECHNOLOGY: DIPLOMA

Program Mission

Working in partnership with industry, the Diploma in Industrial Engineering Technology program provides quality education that prepares highly skilled technicians capable of serving the community and fulfilling personal ambitions with excellence. Graduates may choose to continue into the additional two years of the program to become innovative engineers.

Program Goal

The Program Educational Objectives of the Diploma in Industrial Engineering program at HCT is to produce graduates who will:

- 1. Integrate their attained knowledge and skills with their job expertise to identify and solve problems, and to optimize the interactions among elements of the systems within their area of practice to enhance safety, quality and productivity.
- 2. Practice their roles in serving their organizations and community with firm commitment to social values and professional ethics.
- 3. Continue to improve their personal and professional abilities through self and administrated learning and training related to their job functions for continual professional growth.
- 4. Serve as future team leaders with effective professional communication and technical skills and contribute actively to achieving Abu Dhabi Vision 2030.

Program Learning Outcomes

Upon graduation, a HCT graduate in Diploma in Industrial Engineering Technology should demonstrate:

- An ability to apply knowledge, techniques, skills and modern tools
 of mathematics, science, engineering, and technology to solve
 well#defined engineering problems appropriate to the Industrial
 Engineering Technology.
- An ability to design solutions for well#defined technical problems and assist with the engineering design of systems, components,or processes appropriate to the Industrial Engineering Technology.
- An ability to apply written, oral, and graphical communication in well# 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.
- 5. An ability to function effectively as a member of a technical team.

Requirements Completion Requirements

Diploma in Industrial Engineering Technology

Students must successfully complete a minimum of 76 credits, including:

Total Credit Hours Code Title Credit Hours Industrial Engineering Core Courses Required Credits: 37 EGN 1133 Design Thinking in Technology 3 EGN 2101 Computer Aided Drafting 1 EGN 2233 Engineering Mechanic Fundamentals 3 EGN 2806 Work Placement I IET 2003 Introduction to Industrial Engineering 3 IET 2103 Technology Innovation and Integration 3 IET 2213 Work Measurement and Ergonomics 3 IET 2223 Quality Control 3 IET 2233 Introduction to Maintenance Management 3 IET 2421 Engineering Measurements Lab 1 IET 2421 Engineering Measurements Lab 1 IET 2902 Sophomore Design Project 2 LGE 2003 Logistics Principles and Supply Chain Management Mathematics and Science Required Courses Required Credits: 15 CHM 1103 Engineering Chemistry 3 MTH 1103 Pre Calculus I MTH 2103 Calculus II 3 MTH 2103 Calculus II	Code	Title	Credit Hours			
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76

3 years

Total Required Credits

Maximum Duration of Study

Minimum Duration of Study	2 years
Cost Recovery Program	No
Program Code	DINET
Major Code	IET

Ideal Study Plan Recommended Sequence of Study

Year 1		
Semester 1		Credit
FON 1100	Design Thinking in Technology	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
Semester 2		
AES 1033	Islamic Culture	3
EGN 2233	Engineering Mechanic Fundamentals	3
MTH 1113	Statistics for Engineering	3
MTH 1203	Calculus I	3
PHY 1203	Physics II	3
	Credit Hours	15
Summer		
AES 1013	Arabic Communications I	3
CHM 1103	Engineering Chemistry	3
	Credit Hours	6
Year 2		
Semester 3		
AES 1003	Emirati Studies	3
EGN 2101	Computer Aided Drafting	1
IET 2003	Introduction to Industrial Engineering	3
IET 2213	Work Measurement and Ergonomics	3
IET 2413	Manufacturing Technologies and Materials	3
MTH 2103	Calculus II	3
	Credit Hours	16
Semester 4		
ICT 2013	Computational Thinking and Coding	3
IET 2103	Technology Innovation and Integration	3
IET 2223	Quality Control	3
IET 2233	Introduction to Maintenance Management	3
IET 2421	Engineering Measurements Lab	1
IET 2902	Sophomore Design Project	2
LGE 2003	Logistics Principles and Supply Chain Management	3
	Credit Hours	18
Summer		
EGN 2806	Work Placement I	6
	Credit Hours	6
	Total Credit Hours	76