LOGISTICS 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 Logistics Engineering Technology.

Program Description

Bachelor of Logistics Engineering Technology provides an excellent broad education with specializations to cater to the global UAE logistics industry. The HCT Logistics Engineering Technology program aims to produce high-quality engineers with qualities of productivity, timeliness, dedication, and competence in the workplace. Graduates are expected to have the ability to work logically, accurately and efficiently; to gather and use information effectively; and to continue enhancing their careers through lifelong learning. Moreover, the program is designed to prepare interested students for graduate studies in logistics engineering technology and other areas of professional practice. To this end, Logistics Engineering Technology students are trained to support the analysis, design, development and improvement of logistics systems in the manufacturing and service arenas.

The Bachelor of Logistics Engineering Technology curriculum stresses the effective use of technology, information resources and engineering tools; students are trained to use state of the art software packages necessary to facilitate their efforts to analyze and optimize existing systems, and to test and validate potential gains attainable from improving the system. In addition, the program instills leadership qualities based on moral and ethical principles coupled with sound and rational judgment.

Students will have the option to graduate with a Diploma in Logistics Engineering Technology upon the successful completion of 78 credits inclusive of the 8 week Work Placement.

Program Goals

- 1. Provide logistics professionals with the technical knowledge and skills required by the industry to highest level of 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 engineering profession.
- 3. Teach graduates strong commitment to lifelong learning, continuing education, and professional growth.
- 4. Instill graduates with leadership qualities and commitment to contribute actively to their profession.

Program Learning Outcomes

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

1. 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 Logistics Engineering Technology;

- An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to Logistics 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
- 5. An ability to function effectively as a member as well as a leader on technical teams.
- 6. 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 Logistics Engineering Technology

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

Code	Title	Credit Hours
Program Co	ore Courses	83
Program El	lective Courses	12
Mathemati	cs and Science Courses	18
General Stu	udies course	33
Total Credit Hours		146
Code	Title	Credit

Hours

Logistics Engineering Core Courses

Required Credits: 83		
EGN 1133	Design Thinking in Technology	3
EGN 2101	Computer Aided Drafting	1
EGN 2233	Engineering Mechanic Fundamentals	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 3333	Health Safety and Environment	3
EGN 3806	Work Placement II	6
IET 2103	Technology Innovation and Integration	3
IET 3203	Operations Management	3
IET 3233	Facilities Planning and Material Handling	3
IET 3303	Operations Research	3
IET 4513	Purchasing and Contract Management	3
IET 4523	Warehouse and Inventory Management	3
LGE 2003	Logistics Principles and Supply Chain Management	3
LGE 2013	Transportation Modes	3

LGE 2203	Introduction to Enterprise Information Management	3
LGE 2313	Managing People and Organizations	3
LGE 2902	Sophomore Design Project	2
LGE 3203	ERP I Principles	3
LGE 3212	ERP II Applications	2
LGE 3413	Sales and Distribution in Logistics	3
LGE 3503	Accounting for Managers	3
LGE 4303	Quality Control and Management	3
LGE 4423	Intermodal Freight Transport	3
LGE 4543	Simulation of Logistics Systems	3
LGE 4902	Capstone Design Project I	2
LGE 4911	Capstone Design Project II	1
Logistics Engi	neering Elective Courses	
Required Cred	-	
LGE 4003	National Transport and Planning Law	3
LGE 4013	Hazardous Goods Management	3
LGE 4203	GIS in Logistics	3
LGE 4313	International Human Resource Management	3
LGE 4403	Port Management	3
LGE 4413	Airport Management	3
LGE 4453	Management of Distribution Networks	3
LGE 4463	Maritime Transport	3
LGE 4603	Transport and Economic Geography	3
LGE 4803	Special Topics in Logistics Engineering	3
LGE 4893	Directed Study	3
MAR 4703	Shipping Management	3
Mathematics a	and Science Required Courses	
Required Cred	its: 18	
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
PHY 1203	Physics II	3
General Studie	25	
Required Cred	its: 33	
English, Arabio	c or other Languages	
Required Cred	its: 12	
LSC 1103, AES	\$ 1013, AES 1033 and LSC 2193	
Humanities or	Art	
Required Cred	its: 3	
AES 1003		
Information Te	echnology and Mathematics	
Required Cred	its: 6	
ICT 2013 and I	MTH 1113	
The Natural So	ciences	
Required Cred	its: 3	
PHY 1103		
The Social or I	Behavioral Sciences	
Required Cred	its: 9	
LSS 1003, LSS	3 1123 and BUS 2403	

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

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
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		
CHM 1103	Engineering Chemistry	3
LGE 2003	Logistics Principles and Supply Chain Management	3
	Credit Hours	6
Year 2		
Semester 3		
AES 1003	Emirati Studies	3
IET 2103	Technology Innovation and Integration	3
IET 3233	Facilities Planning and Material Handling	3
LGE 2203	Introduction to Enterprise Information Management	3
LGE 2313	Managing People and Organizations	3
MTH 2103	Calculus II	3
	Credit Hours	18
Semester 4		
AES 1013	Arabic Communications I	3
EGN 2101	Computer Aided Drafting	1
EGN 3333	Health Safety and Environment	3
ICT 2013	Computational Thinking and Coding	3
IET 4523	Warehouse and Inventory Management	3
LGE 2013	Transportation Modes	3
LGE 2902	Sophomore Design Project	2
	Credit Hours	18
Summer		
EGN 2806	Work Placement I	6
	Credit Hours	6
Year 3		
Semester 5		
EGN 3212	Economics for Engineering	2
IET 3203	Operations Management	3
IET 4513	Purchasing and Contract Management	3
LGE 3203	ERP I Principles	3
LSS 1123	Basic Research Methods	3

	Total Credit Hours	146
	Credit Hours	13
2 Elective Courses		6
LGE 4911	Capstone Design Project II	1
LGE 4543	Simulation of Logistics Systems	3
LGE 4423	Intermodal Freight Transport	3
Semester 8		
	Credit Hours	17
2 Elective Courses		6
LGE 4902	Capstone Design Project I	2
LGE 4303	Quality Control and Management	3
IET 3303	Operations Research	3
Semester 7 BUS 2403	Innovation and Entrepreneurship	3
Year 4		
	Credit Hours	6
EGN 3806	Work Placement II	6
Summer		
	Credit Hours	15
LSC 2193	Applied Skills Capstone	3
LGE 3503	Accounting for Managers	3
LGE 3413	Sales and Distribution in Logistics	3
LGE 3212	ERP II Applications	2
EGN 3012	Project Management	2
EGN 2712	Applied Programing for Engineers	2
Semester 6		
	Credit Hours	17
MTH 2503	Introduction to Differential Equations	3

Faculty and Academic Staff

Abu Dhabi Men's

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