Master of Science D	egree in			THE GEORGE WASHINGTON
ENGINEERING	MANAGE	MENT		UNIVERSITY WASHINGTON, DC
in collaboration with the	e <b>George Wash</b>	ington University	v-USA	
Degree Level: <b>Postg</b>	raduate			
Qualification type	Location	Study mode	Delivery Language	Duration
Master's Degree	Main Campus	Full Time	English	Two Years

## **KEY FACTS**

#### NQF\*

NQF Alignment (2017) Ref: AQ17-003 Level 9

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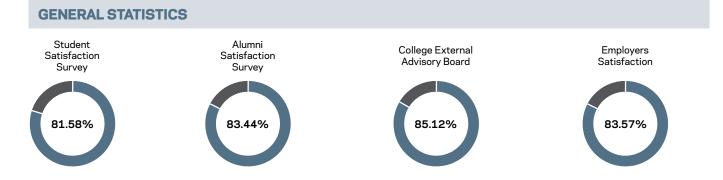
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## **PROGRAMME OVERVIEW**

Ahlia University hosts the Master of Science in Engineering Management (MSEM) in collaboration with the George Washington University (USA). The field of Engineering Management with focus in Engineering and Technology Management (E&TM) bridges the gap between engineering and management. It involves the overall management of organizations oriented to manufacturing, construction, engineering, technology, or production. E&TM enables engineers to function more effectively in the business environment. The MSEM Programme provides a technical-based alternative to a traditional Postgraduate Programme. Graduates of this programme will be specialized in areas including management of technology, product and process, quality, organizational management, operations management, program management or marketing and finance.

## **PROGRAMME AIMS**

- 1. Work and lead effectively in the business environment by applying engineering management principles in the overall management of organizations oriented to manufacturing, construction, engineering, technology, or production.
- 2. Coordinate critical organizational functions-organizational management and behavior, operations, project management, marketing, cost and quality control, finance, staff, technical requirements, engineering contract management and supervise technical development while maintaining high performance.
- 3. Prepare to take the exam for certification as a Project Management Professional (PMP), offered by the Project Management Institute to further establish professional credentials.
- 4. To nurture an innovative and sustainable research culture that encourages learners to produce quality research outcomes in Engineering Management.
- 5. To equip learners with life-long learning skills and ethical behavior and to be professionally competent.



## **ENTRY REQUIREMENTS**

Admission to the MSEM programme is based on the George Washington University Requirements Applicants applying for the MSEM Programme must meet the current entrance requirements of the School of Engineering and Applied Science (SEAS). Ideal candidates for the programs will meet the following requirements.

- Minimum grade point average of B (3.0 on a 4.0 scale) or higher in the last two years of undergraduate study.
- Grade of C or better in the two college calculus courses this is a prerequisite to all graduate programs in the EMSE department. Applicants who do not meet this requirement in full but are otherwise qualified may be conditionally admitted and required to take an additional 3-credit hour course, EMSE 4197 - Special Topics: Quantitative Methods in Engineering Management, during the first year of graduate study at Ahlia University. If required, EMSE 4197 counts as the 12th course and the student's program the requires 39 credit hours.
- Received a bachelor's degree in engineering, a physical science, mathematics, computer science, business administration, or information technology for a regionally accredited institution.

#### Note: GW considers a candidate's entire background, and all submitted materials when reaching an admission decision.

#### **Application Procedure**

The following documents should be submitted to Ahlia University Admission and Registration Office for completeness in line with Higher Education Council requirements prior forwarding it to GW for processing:

- Completed graduate application form with a non-refundable application fee.
- Official transcripts from all colleges and universities attended.
- Your Resume / CV
- Any evidence provided by applicants from countries where English is not the official language to demonstrate
  proficiency in English will be helpful; for example, scores on the Test of English as a Foreign Language (TOFEL) or
  other appropriate English examinations.
- A personal interview is also required.

### **FEES**

The Master of Science Degree in Engineering Management is consisted of 36 credit hours covering 10 courses and a dissertation. The program can be completed in 1.5 year.

The cost of one credit-hour is BD 265 and therefore one course (consisting of 3 credit-hours) costs BD 795.

10 Courses - 30 Credit-hours (BD 265 per Credit-hour) Dissertation - 6 Credit-hours (BD 265 per Credit-hour)	BD 7950 BD 1590
	BD 9910
SUBTOTAL	DD 9910

Each semester the student is required to pay for the courses they register in as per the study plan.

## **PROGRAMME CONTENT AND STRUCTURE**

The curriculum of the MSEM Programme requires 11 courses totaling 36 American semester credit hours (144 NQF credits) including two types of course requirements: 4 core courses (12 credits) and 6 focus courses (18 credits) in addition to a research course EMSE 6995 (6 credits), where students are expected to utilize their knowledge and skills in writing a defendable dissertation in Engineering Management. While core courses must be taken by all students, students choose the focus courses from a set of specialized topics that, as a whole, provide the level o f deta il necessary fo r proficiency in particular areas. The research methods course EMSE 6992 is a prerequisite for the compulsory research course EMSE 6995.

### **EMPLOYABILITY AND LEARNING PATHWAYS**

The MSEM degree combines core business analytical skills with specialist skills in engineering subfields including systems analysis and operations research. The degree produces graduates suitable for positions with technical organizations. Large manufacturing enterprises, increasingly relying on automated assembly lines, as well as resource extractive enterprises, would particularly value the skill mix afforded by newly minted MSEM graduates:

- Project Engineer / Project Manager /
   Engineering Project Manager
- Systems Manager
- Operations Manager
- Technical Manager
- Software (Applications) Engineer
- Structural Engineer
- Automation Engineer
- Hardware Engineer

Course title	Credit hours		
Core Courses			
The Management of Technical Organizations	3		
Survey of Finance and Engineering Economics	З		
Decision Making with Uncertainty	3		
Systems Engineering I	З		
Special Topics: Research Methods for the EM	З		
Elective Courses (5 courses out of 8)			
Organizational Behavior for the Engineering Manager	З		
Technical Enterprises	3		
Marketing of Technology	3		
Knowledge Management I	3		
Techniques of Risk Analysis and Management	З		
Logistics Planning	З		
Program and Project Management	3		
Quantitative Models in Systems Engineering	З		
EMSE Research			
Research - Engineering Management	6		
Total credit hours	36		

Graduates from the MSEM programme could pursue professional certifications in relation to Project Management

For more information please visit our website **www.ahlia.edu.bh** 



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