

# BSc (Hons) Production and Operations Management - E340

## 1. Introduction

In the manufacturing/service industry today there is a continuous need to improve operations and production practices in order to remain competitive. This requires skilled personnel having a broad range of management skills together with a soft understanding of engineering practices. Such knowledge contributes to an enhanced awareness of business, manufacturing processes and technology and the important information systems that underpin them.

The BSc (Hons) Production and Operations Management programme has been designed to focus on the core themes of industrial systems, operations, supply chain management and business strategy in a well-structured manner. It puts quality in the forefront and enhances problem solving skills during the 3-year knowledge acquiring process. This programme is targeted at young and motivated people who have a passion for performance excellence and who can aspire to quickly move to managerial positions in the manufacturing/service industry after acquiring sufficient working experience.

## 2. General Entry Requirements

As per General Entry Requirements for admission to the University for Undergraduate Degrees.

## 3. Programme Requirements

2 GCE 'A' Level passes including Mathematics.

### 4. (i) Minimum Requirements for Degree Award – 102 credits

### (ii) Minimum Requirements for Diploma Award – 60 credits

A student may opt for a Diploma in Production and Operations Management provided s/he satisfies the following minimum requirements.

MODULES	CREDITS
Modules from Levels 1, 2 & 3	54
Diploma Project	6
<b>TOTAL</b>	<b>60</b>

The Diploma project would normally be of 8 weeks duration for an input of at least 90 hours.

## 5. Programme Duration

	Normal (Years)	Maximum (Years)
Degree:	3	5

## 6. Credits per Year

Minimum 18, Maximum 48, subject to Regulation 5 above.

## 7. Assessment

Assessment will be based on a written examination of 2 to 3 hours duration (normally a paper of 2 hour duration for modules carrying less or equal to 3.5 credits and 3 hours paper for modules carrying four-six credits) and on continuous assessment done during the semester or year.

Written examinations for all modules, whether taught in semester 1 or in semester 2 or both, will be carried out at the end of the academic year (unless otherwise stated).

The continuous assessment will count for 20-40% of the overall percentage mark of the module(s), except for a Programme where the structure makes for other specific provision(s). Continuous assessment may be based on laboratory work, seminars and/or assignments and **should include at least 1 class test.**

MECH 1008Y (1) and MECH 1017Y (1) will be assessed solely by continuous assessment.

## 8. Important Note

This BSc programme focusses mainly on Production & Operations Management systems and is not meant for registration with the Council of Registered Professional Engineers (CRPE).

## 9. List of Modules - BSc (Hons) Production and Operations Management

<b><u>CORE MODULES</u></b>		<b>Hrs/Wk</b>	<b>Credits</b>
<b>Code</b>	<b>Module Name</b>	<b>L+P</b>	
MECH 1006Y(1)	Quantitative Methods	3+0	6
MECH 1007Y(1)	Operations Management 1	3+0	6
MECH 1008Y(1)	Basic Computer Applications*	2+1	5
MECH 1017Y(1)	Professional Skills*	1.5+1	4
MECH 1019Y(1)	Production Technology	1.5+1	4
MECH 1018Y(1)	Introduction to Supply Chain Management	1.5+0	3
MECH 2009Y(3)	Operations Management 2	3+1	7
MECH 2015Y(3)	Supply Chain Management & Logistics	3+0	6
MECH 2016Y(3)	Manufacturing Processes	3+1	7
MECH 2017Y(3)	Sustainable Manufacturing	2+0	4
MECH 2018Y(3)	Project Management	2+0	4
MECH 3000Y(5)	Degree Project	-	9
MECH 3004Y(5)	Business and Manufacturing Strategy	2+0	4
MECH 3005Y(5)	Industrial Engineering	3+0	6
MECH 3006Y(5)	Occupational Health and Safety	3+0	6
MECH 3007Y(5)	Quality Management Systems	3+0	6
MECH 3017Y(5)	Maintenance Management	1.5+0	3
MGT 1067Y(1)	Principles and Practice of Management	3+0	6
MGT 2061Y(3)	Human Resource Management	3+0	6

\* To be assessed by continuous assessment only

**10. Programme Plan – BSc (Hons) Production and Operations Management****YEAR/LEVEL 1**

<b>Code</b>	<b>Module Name</b>	<b>Hrs/Wk L+P</b>	<b>Credits</b>
<b>CORE</b>			
MECH 1006Y(1)	Quantitative Methods	3+0	6
MECH 1007Y(1)	Operations Management 1	3+0	6
MECH 1008Y(1)	Basic Computer Applications*	2+1	5
MECH 1017Y(1)	Professional Skills*	1.5+1	4
MECH 1018Y(1)	Introduction to Supply Chain Management	1.5+0	3
MECH 1019Y(1)	Production Technology	1.5+1	4
MGT 1067Y(1)	Principles and Practice of Management	3+0	6

\* To be assessed by continuous assessment only

**YEAR/LEVEL 2**

<b>Code</b>	<b>Module Name</b>	<b>Hrs/Wk L+P</b>	<b>Credits</b>
<b>CORE</b>			
MECH 2009Y(3)	Operations Management 2	3+1	7
MECH 2015Y(3)	Supply Chain Management & Logistics	3+0	6
MECH 2016Y(3)	Manufacturing Processes	3+1	7
MECH 2017Y(3)	Sustainable Manufacturing	2+0	4
MECH 2018Y(3)	Project Management	2+0	4
MGT 2061Y(3)	Human Resource Management	3+0	6

**YEAR/LEVEL 3**

<b>Code</b>	<b>Module Name</b>	<b>Hrs/Wk L+P</b>	<b>Credits</b>
<b>CORE</b>			
MECH 3000Y(5)	Degree Project	-	9
MECH 3007Y(5)	Quality Management Systems	3+0	6
MECH 3004Y(5)	Business and Manufacturing Strategy	2+0	4
MECH 3005Y(5)	Industrial Engineering	3+0	6
MECH 3006Y(5)	Occupational Health and Safety	3+0	6
MECH 3017Y(5)	Maintenance Management	1.5+0	3

**Total number of credits for the award of the degree = 34 + 34 + 34 = 102**