

# POSTGRADUATE DIPLOMA IN MECHANICAL ENGINEERING (MANUFACTURING, PROCESS AND AUTOMATION SYSTEMS)

## Programme Requirements

Code	Title	Credits
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Students take **60** credits in Part I as follows – all listed core modules (**20** credits) and elective modules to the value of **40** credits:

### Core Modules

ME6019	Preliminary Research Project	10
MG6021	Operations Management	5
MG6315	Project Management	5

### Elective Modules

Students take modules to the value of **40** credits from the following, with at least **25** credits from Group A, the balance of credits from Group B, and with no more than **30** credits of elective modules selected in any single Semester.

Select at least **25** credits from the following:

ME6002	CAD/CAM
ME6006	Non-Destructive Testing
ME6007	Mechanical Systems
ME6008	Robotics <sup>1</sup>
ME6012	Advanced Robotics <sup>1</sup>
CE6024	Finite Element Analysis
CS6506	Programming in Python <sup>2</sup>
CS6507	Programming in Python with Applications <sup>2</sup>
NE6015	Data Analytics for Engineering
EE4012	Biomedical Systems
EE6061	Industrial Automation and Control

### Group B

Select remaining credits from the following:

PE6009	Pharmaceutical Engineering
PE6002	Optimisation and Continuous Process Improvement
PE6007	Mechanical Design of Process Equipment
CE3010	Energy in Buildings
CE4016	Energy Systems in Buildings
EE6046	Introduction to Micro Electromechanical Systems (MEMS)

<b>Total Credits</b>	<b>60</b>
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<sup>1</sup> Students wishing to take ME6012 must also take ME6008.

<sup>2</sup> Students wishing to take CS6507 must also take CS6506.

## Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.