

MENGSC MECHANICAL ENGINEERING (MANUFACTURING, PROCESS AND AUTOMATION SYSTEMS)

¹ Students wishing to take ME6012 must also take ME6008.

² 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*.

Programme Requirements

Students take **90** credits as follows – all listed core modules in Part I (**20** credits), elective modules in Part I to the value of **40** credits, and **30** credits of Research in Part II:

Code	Title	Credits
Part I		
Students take 60 credits in Part I as follows – all listed core modules (20 credits) and elective modules to the value of 40 credits:		
<i>Core Modules</i>		
ME6019	Preliminary Research Project	10
MG6021	Operations Management	5
MG6315	Project Management	5
<i>Elective Modules</i>		
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:		40
Select at least 25 credits from the following:		
ME6002	CAD/CAM (5)	
ME6006	Non-Destructive Testing (5)	
ME6007	Mechanical Systems (5)	
ME6008	Robotics (5) ¹	
ME6012	Advanced Robotics (5) ¹	
CE6024	Finite Element Analysis (5)	
CS6506	Programming in Python (5) ²	
CS6507	Programming in Python with Applications (5) ²	
NE6015	Data Analytics for Engineering (5)	
EE4012	Biomedical Systems (5)	
EE6061	Industrial Automation and Control (5)	
<i>Group B</i>		
Select remaining credits from the following:		
PE6009	Pharmaceutical Engineering (5)	
PE6002	Optimisation and Continuous Process Improvement (5)	
PE6007	Mechanical Design of Process Equipment (5)	
CE3010	Energy in Buildings (5)	
CE4016	Energy Systems in Buildings (5)	
EE6046	Introduction to Micro Electromechanical Systems (MEMS) (5)	
Research		
Students take 30 credits of Research in Part II:		
Part II		
ME6020	Dissertation in Mechanical Engineering	30
Total Credits		90