# Faculty of Engineering

## Member Units

School of Civil, Mining and Environmental Engineering School of Engineering Physics School of Mechanical, Materials and Mechatronic Engineering

## **Degrees Offered**

## Research

Doctor of Philosophy Master of Engineering - Research Master of Science (Physics) - Research

## Coursework

Master of Engineering

- Civil Engineering
- Environmental Engineering
- Maintenance Management
- Materials Engineering
- Mechanical Engineering
- Mining Engineering
- Master of Engineering Practice
- Bulk Solids and Particulate Technologies
- Civil Engineering
- Engineering Management
- Environmental Engineering
- Maintenance Management
- Materials Engineering
- Materials Welding and Joining
- Mechanical Engineering
- Mechatronics
- Steel Processing and Products

Master of Science (Medical Radiation Physics)

Graduate Diploma in Engineering

- Civil Engineering
- Environmental Engineering
- Materials Engineering
- Mechanical Engineering
- Mining Engineering

Graduate Diploma in Materials Welding and Joining

Graduate Diploma in Science (Physics)

Graduate Certificate in Engineering

Graduate Certificate in Maintenance Management

# Doctor of Philosophy

Testamur Title of Degree:	Doctor of Philosophy
Abbreviation:	PhD
Home Faculty:	Faculty of Engineering
Duration:	3yrs full-time or part-time equivalent
Total Credit Points:	48 credit points per year
Entry Requirements:	Bachelor degree in a relevant discipline with Honours Class
	II, Division 2 or higher.
Delivery Mode:	Research
Starting Session(s):	Autumn/Spring
Standard Course Fee:	HECS exempt (local); \$8750 AUD per session (international)
Location:	Wollongong
UOW Course Code:	201
CRICOS Code:	001245D

#### Overview

Doctor of Philosophy (PhD) candidates undertake in-depth research in order to make an original contribution to the body of knowledge in their area of interest. This qualification can lead to, or enhance, an academic career and is also highly regarded by public and private sector employers. A thesis containing the candidate's research will be presented for examination at the end of the study.

#### Current research areas are listed below:

#### Civil Engineering

Steel and concrete structures Bridge engineering Solid and rock mechanics Foundation engineering, including railways Slope stability and reliability analysis Soft ground improvement technology Reinforced earth Dam and embankment engineering Finite element and other numerical methods Structural dynamics Cementitious materials for construction Flood studies, hydraulics and hydrology Water quality engineering Geo-environmental studies

#### Environmental Engineering

Water quality engineering Environmental hydraulics and unit processes Pollution control engineering Water quality and quantity modelling of catchments, rivers and lakes Soil erosion and sediment transport Environmental pollution modelling Recycling and waste management Environmental geotechnology Solid-liquid separation processes Transport and the environment

#### Materials Engineering

#### Steel Processing and Products:

Polymer coating adhesion Mechanical properties of polymer coatings Surface properties of polymers Peritectic phase transformation: mechanism and kinetics Development of in-situ observation techniques Kinetics of phase transformations in zincalume alloy systems Property/microstructure relationships Process optimisation in direct reduction of iron Thermo-mechanical processing, including HSLA steels Corrosion of steelmaking refractories Slag properties and behaviour

#### Superconducting and Electronic Materials:

Theory and mechanism of superconductors Phase relation, phase evolution and chemistry of superconductors Single crystal growth and study of intrinsic properties Fabrication of bulk, wires and tapes superconductors Critical current density, transport mechanism and flux pinning Studies on structure, microstructure and stability Colossal magnetoresistance materials Spintronic materials High energy batteries for electric vehicles Solid-state rechargeable lithium batteries for telecommunication and portable electronic devices Developing new cathode materials for lithium-ion batteries using Australian mineral resources Investigation of nano-materials for use in lithium rechargeable batteries Composite cathode materials for lithium ion batteries using chemical coating technique Hydrogen storage materials Nickel-metal hydride batteries Processing of thin films Investigation of superconductor thin films Nanofabrication of novel multilayer materials Coated conductors Nanostructure of electronic materials

#### Ceramic and Refractory Materials:

Sintering kinetics High temperature degradation Extrusion of resin-bonded ceramics Processing of refractories

#### Intelligent Polymers:

Artificial muscles Chemical and physical sensors Electronic textiles

#### Nano-materials:

Synthesis and characterisation of carbon nanotubes High energy ball milling Structure and properties of nanocrystalline materials

#### Welding and Joining/Surface Engineering:

Structure and properties of welded metals Weld metal cracking Post weld heat treatment Weldability of creep resistant steels Brazing and diffusion bonding Fusion welding of coated steels Surface engineering of materials Wear and surface property testing Physical vapour deposition processing of metals Ion implantation Microwave processing of materials Solidification

#### Mechanical Engineering (includes Mechatronics)

#### Applied Mechanics:

Bio-mechanics Solid mechanics Computational fluid mechanics Jet cooling in industrial applications Finite element analysis Natural and hybrid ventilation of buildings Industrial ventilation systems Renewable energy systems Wave energy conversion Small wind energy systems Mechanical engineering design Heavy vehicle and rail dynamics

Railway engineering Rolling mill technology Solar thermal system analysis and design Solid mechanics of elastic and magneto- elastic bodies System identification and control Tribology-bearing friction and wear Alternative fuels Novel IC engines

#### Manufacturing and Mechatronics:

Sensors and actuators Smart materials and structures MEMS and Nanotechnology Laser welding and surfacing Automated pipe welding Robotic repair technology Novel control of arc processes Virtual reality weld simulator Magnetic impelled arc butt welding Automated QC and reliability engineering Chip control in automated manufacture Expert/knowledge system in automated machining Intelligent manufacturing systems Monitoring/diagnosis of manufacturing processes and machinery conditions Integrated CAD/CAM Maintenance management

#### **Bulk Materials Handling:**

Prediction of bin wall loads and flow rates Feeding and discharging systems including pressurised systems Dust and fume control Pneumatic conveying Computer simulation of discrete particles Biomass handling and feeding systems Fluidisation and deaeration

#### Mining Engineering

Rock mechanics Surface mining Mine simulation, planning and design Mine safety and mine ventilation Geostatistics Computer applications in mining engineering Mine water Environmental impact of mining

#### Physics

Astronomy - visible and infrared, planetary surfaces Laser spectroscopy Medical Radiation Physics Scattering of light by solids Solid state spectroscopy of impurities in semiconductors Studies of electronic wave functions in solids Theoretical astrophysics - galaxy formation, gas dynamics

## Master of Engineering - Research

Testamur Title of Degree	Master of Engineering - Research
Abbreviation:	Meser Dee
Appreviation:	MEng - Res
Home Faculty:	Faculty of Engineering
Engineering Disciplines:	Civil, Environmental, Materials, Mechanical, Mechatronics,
5 5 1	Mining
Duration:	1.5 yrs full-time or part-time equivalent
Total Credit Points:	72 credit points
Entry Requirements:	Relevant degree with Honours Class III or above.
Delivery Mode:	Research/Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee:	HECS exempt (local); \$8750 AUD per session (international)
Location:	Wollongong
UOW Course Code:	1303
CRICOS Code:	042554G

#### Overview

The Master of Engineering degree by research is intended for engineers qualified and interested in specific engineering problems. The degree comprises a 48 credit point research thesis and 24 credit points of coursework. Coursework comprises the six credit point subject ENGG951 Engineering Project Management plus 18 credit points of elective subjects chosen from the relevant Master of Engineering program – refer to following pages.:

Advanced standing for some or all of the coursework component may be granted on demonstrated research skills. Evidence of these skills would normally be a Bachelor of Engineering (Honours Class II Division 2 or better) and/or an appropriate Masters Coursework degree.

For current research areas refer to the PhD program above.

## Master of Science - Research

Testamur Title of Degree:	Master of Science - Research
Abbreviation:	MSc - Res
Home Faculty:	Faculty of Engineering
Engineering School:	Engineering Physics
Duration:	1.5 yrs full-time or part-time equivalent
Total Credit Points:	72 credit points
Entry Requirements:	Honours degree in Physics, or a Graduate Diploma in Science
	(Physics) or approved equivalent qualification
Delivery Mode:	Research/Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee:	HECS exempt (local); \$8750 AUD per session (International)
Location:	Wollongong
UOW Course Code:	1304
CRICOS Code:	042555F

#### Overview

The Master of Science degree by research equips candidates with superior skills in research design and methodology in preparation for leadership roles in their chosen field. The degree comprises a 48 credit point research thesis and 24 credit points of coursework. Advanced standing for some, or all, of the coursework component may be granted on demonstrated research skills.

Students entering with a degree below Honours Class II, Division 2 will complete the 48 credit point thesis and 24 credit point combination of subjects chosen from the remaining Graduate Subjects below and the list of undergraduate Physics subjects. These subjects will be chosen in consultation with and approved by the Physics Discipline Adviser. For current research areas refer to the PhD program above.

#### **Course Program**

Subjects Core Subject	st	Credit Points
PHYS401	Theoretical Mechanics and Electromagnetism	8
PHYS441	Advanced Astrophysics	4
PHYS444	Quantum Mechanics	8
PHYS446	Solid State Physics	8
PHYS910	Advanced Project in Physics A	6
PHYS946	Advanced Solid State Physics	6
PHYS947	Special Topics in Physics A	6
PHYS948	Physics of Imaging	6
PHYS960	Advanced Project in Physics B	6
PHYS997	Special Topics in Physics B	6

# Master of Engineering (Civil Engineering)

Testamur Title of Degree:	Master of Engineering (Civil Engineering)
Abbreviation:	MEng
Home Faculty:	Faculty of Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	Bachelor of Engineering with honours at Class III or higher from this University, or an approved equivalent qualification.
Delivery Mode:	Coursework/Dissertation
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$6000 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	1403
CRICOS Code:	042657M

#### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects, according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

Subjects		Credit Points
ENGG945	Dissertation	24
Elective Sub	iects	
CIVL901	Project	6
CIVL902	Reliability in Geotechnical Engineering	6
CIVL903	Concrete Technology	6
CIVL904	Highway Materials	6
CIVL905	Transportation Engineering	6
CIVL907	Civil Engineering Computations	6
CIVL908	Advanced Soil Mechanics	6
CIVL909	Advanced Foundation Engineering	6
CIVL910	Vibrations of Structures	6
CIVL911	Finite Element Methods	6
CIVL912	Engineering Hydrology	6
CIVL914	Analysis and Design of Bridge Structures	6
CIVL916	Research Topics in Civil Engineering	6
CIVL918	Steel Structures	6
CIVL919	Earth Structures	6
CIVL923	Advanced Reinforced Concrete	6
ENGG955	Engineering Research Methods	6
Note: Not al	l subiects available in anv one vear – refer Subiect List	ina.

# Master of Engineering (Environmental Engineering)

Testamur Title of Degree:	Master of Engineering (Environmental Engineering)
Abbreviation:	MEng
Home Faculty:	Faculty of Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	Bachelor of Engineering with honours at Class III or higher from this University, or an approved equivalent qualification.
Delivery Mode:	Coursework/Dissertation
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$6000 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	1403
CRICOS Code:	042657M

#### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects, according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

#### **Course Program**

Subjects Core Subjec	t	Credit Points
ENGG945	Dissertation	24
<b>Elective Sul</b>	bjects	
ENGG955	Engineering Research Methods	6
ENVE901	Project	6
ENVE916	Research Topics in Environmental Engineering	6
ENVE925	Water Quality Engineering	6
ENVE926	Air and Noise Pollution	6
ENVE927	Environmental Engineering Processes Design	6
ENVE928	Design of Urban Water Systems	6
ENVE929	Site Contamination and Remediation Technologies	6
ENVE930	Coastal, River and Groundwater Engineering	6
ENVE931	Membrane Processes and Applications	6
ENVI920	The Scientific Basis of Environmental Management	6
ENVI921	Environmental Planning	6
CIVL908	Advanced Soil Mechanics	6
CIVL912	Engineering Hydrology	6

Note: Not all subjects available in any one year - refer Subject Listing.

## Master of Engineering (Maintenance Management)

Testamur Title of Degree:	Master of Engineering (Maintenance Management)
Abbreviation:	MEng
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Mechanical Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree from a recognised institution
	with Honours Class III, or higher.
Delivery Mode:	Coursework/Dissertation
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$6000 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	1403
CRICOS Code:	042657M

#### Overview

Maintenance engineers having completed their Graduate Diploma in Maintenance Management will be given appropriate credits for the course they already have completed. Credits may also be approved for other qualifications or experience for suitable applicants. In order to then obtain a Masters of Engineering (Maintenance Management), the candidate must have a Graduate Diploma in Maintenance Management or equivalent and have completed successfully a further 48 cp. These must consist of 2

core and 2 elective subjects and a 24 cp research project leading to a dissertation. The research project will run in parallel with the formal coursework throughout the anticipated last year of a candidate's study. Students will be able to choose a suitable investigation from the current research activities at any of the disciplines involved.

#### **Course Program**

Subjects Core Subject		Credit Points
ENGG945	Dissertation	24
MECH971	Systems Analysis for Maintenance	6
MECH973	Systems Engineering and Life Cycle Management	6
MECH976	Maintenance System Design and Management	6
TBS903	Managing People in Organisations	6
Elective Sub	jects	
ACCY901	Accounting for Managers	6
MECH972	Condition Based Maintenance	6
MECH977	Advanced Topics in Maintenance 1	6
TBS906	Information Systems for Managers	6

Plus other postgraduate subjects from the Business School or Engineering, subject to approval from the course coordinator.

# Master of Engineering (Materials Engineering)

Testamur Title of Degree:	Master of Engineering (Materials Engineering)
Abbreviation:	MEng
Home Faculty:	Faculty of Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	Bachelor of Engineering with honours at Class III or higher from
	this University, or an approved equivalent qualification.
Delivery Mode:	Coursework/Dissertation
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$6000 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	1403
CRICOS Code:	042657M

#### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects, according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

Subjects		Credit Points	
Core Subject			
ENGG945	Dissertation	24	
Elective Sub	jects		
Advanced En	igineering Materials program		
MATL901	Special Topic in Materials A	6	
MATL903	Recent Developments in Materials	6	
MATL905	Metallic Materials	6	
MATL906	Ceramics, Glasses and Refractories	6	
MATL907	Polymeric Materials	6	
MATL972	Selection and Design of Materials	6	
Materials Processing program			
MATL901	Special Topic in Materials A	6	
MATL902	Special Topic in Materials B	6	
MATL903	Recent Developments in Materials	6	
MATL921	Formability of Sheet Material	6	
MATL932	Surface Engineering of Materials	6	
MATL937	Process Metallurgy	6	
Metallurgy pi	rogram		

MATL901	Special Topic in Materials A	6
MATL903	Recent Developments in Materials	6
MATL905	Metallic Materials	6
MATL911	Mechanical Behaviour of Materials	6
MATL951	Performance of Materials A	6
MATL952	Performance of Materials B	6
MATL972	Selection and Design of Materials	6

Note: Not all subjects available in any one year - refer Subject Listing.

# Master of Engineering (Mechanical Engineering)

Testamur Title of Degree:	Master of Engineering (Mechanical Engineering)
Abbreviation:	MEng
Home Faculty:	Faculty of Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	Bachelor of Engineering with honours at Class III or higher
	from this University, or an approved equivalent qualification.
Delivery Mode:	Coursework/Dissertation
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$6000 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	1403
CRICOS Code:	042657M

#### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects, according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

Subjects Core Subject		Credit Points
ENGG945	Dissertation	24
Elective Subject	cts	
ENGG955	Engineering Research Methods	6
Advanced Man	ufacturing Program	
MECH919	Advanced Topics in Mechanical Engineering 1	6
MECH929	Advanced Topics in Mechanical Engineering 2	6
MECH934	Advanced Manufacturing Processes	6
MECH935	Integrated Manufacturing Systems	6
MECH939	Advanced Topics in Mechanical Engineering 3	6
MECH949	Advanced Computer Control of Machines and	6
	Processes	
MECH950	Advanced Robotics	6
Applied Mecha	nics Program	
MECH903	Biomechanical Engineering	6
MECH918	Sustainable Energy in Buildings	6
MECH919	Advanced Topics in Mechanical Engineering 1	6
MECH920	Numerical Methods in Mechanical Engineering	6
MECH925	Advanced Fluid Power	6
MECH926	Applied Fluid Mechanics	6
MECH928	Finite Element Techniques in Mechanical Engineering	6
MECH929	Advanced Topics in Mechanical Engineering 2	6
MECH930	Mechanical Vibration and Condition Monitoring	6
MECH931	Friction Lubrication and Wear	6
MECH933	Solar Energy	6
MECH939	Advanced Topics in Mechanical Engineering 3	6
MECH979	Sustainable Transport and Engine Technologies	6

Core			
MECH913	Pneumatic Transport of Bulk Solids	6	
MECH983	Bulk Solids Handling (Storage and Flow)		
Electives			
MECH919	Advanced Topics in Mechanical Engineering 1	6	
MECH927	Physical Processing of Bulk Solids	6	
MECH929	Advanced Topics in Mechanical Engineering 2	6	
MECH931	Friction, Lubrication and Wear	6	
MECH939	Advanced Topics in Mechanical Engineering 3	6	
Mechatronics F	Program		
Core			
ECTE955	Advanced Laboratory (replaces ENGG955)	6	
Plus 3 electives	- at least one should be chosen from the Control Engineering sub	jects and	
one from the Me	chanical Engineering subjects.		
Control Engine	ering Subjects:		
ECTE945	Advanced Intelligent Control	6	
ECTE946	Advanced Computer Controlled Systems	6	
MECH949	Advanced Computer Control of Machines and	6	
	Processes		
Mechanical Engi	neering Subjects:		
MECH925	Advanced Fluid Power	6	
MECH934	Advanced Manufacturing Processes	6	
MECH935	Integrated Manufacturing Systems	6	
MECH939	Advanced Topics in Mechatronics	6	
Robotic Subjects	S:		
ECTE973	Advanced Robotics Manipulators	6	
ECTE974	Advanced Robotics Sensory Control	6	
MECH950	Advanced Robotics	6	
Note: Not all sul	bjects available in any one year – refer Subject Listing.		

## Master of Engineering (Mining Engineering)

Testamur Title of Degree:	Master of Engineering (Mining Engineering)
Abbreviation:	MEng
Home Faculty:	Faculty of Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	Bachelor of Engineering with honours at Class III or higher
	from this University, or an approved equivalent qualification.
Delivery Mode:	Coursework/Dissertation
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$6000 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	1403
CRICOS Code:	042657M

#### Overview

The Master of Engineering allows the student to combine specialist postgraduate subjects, according to his or her undergraduate background, with project work. The program comprises a 24 credit point dissertation and at least 24 credit points of coursework. The dissertation typically requires rigorous research in a specialised area – normally in the area of coursework components undertaken.

Subjects Core Subje	ct	Credit Points
ENGG945	Dissertation	24
Elective Su	bjects	
ENGG955	Engineering Research Methods	6
MINE901	Transportation of Mineral and Personnel	6
MINE902	Advanced Studies in Mining Engineering	6
MINE903	Simulation of Underground Mining Operations and	6
	Problems	
MINE904	Rock Mechanics and Ground Control	6
MINE905	Environmental Control in Mines	6

MINE906	Mining Engineering Techniques	6
MINE908	Fires, Explosions and Mine Gases	6
MINE909	Mine Subsidence	6

Note: Not all subjects available in any one year – refer Subject Listing.

## Master of Engineering Practice (Bulk Solids and Particulate Technologies)

Testamur Title of Degree:	Master of Engineering Practice (Bulk Solids and Particulate
	Technologies)
Abbreviation:	MEngPrac
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Mechanical Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering or a Bachelor of Science degree, or
	an Associate Diploma in a relevant field, plus appropriate
	industrial experience
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee:	Refer Faculty
Location:	Wollongong
UOW Course Code:	590
CRICOS Code:	N/A

#### Overview

This course is offered on a part-time (modular) basis over 2 years and is a joint degree with the University of Newcastle. This is a full fee paying course.

Students will be awarded a Master of Engineering Practice (Bulk Solids and Particulate Technologies) on successful completion of 48 cp comprising:

#### **Course Program**

Subjects	et	Credit Points
		,
MECH983	Bulk Solids Handline (Storage and Flow)	6
MECH995	Bulk Solids Handling (Systems and Design)	6
MECH990	Project in Bulk Solids and Particulate Technologies	6
Elective Sub	ojects	
MECH913	Pneumatic Transport of Bulk Solids	6
MECH927	Physical Processing of Bulk Solids	6
MECH982	Bulk Solids Characterisation and Particulate Mechanics	6
MECH984	Belt Conveying	6
MECH985	Dust and Fume Systems	6
MECH986	Instrumentation and Control Systems for Bulk Solids	6
MECH987	Advanced Topics in Bulk Solids and Particulate	6
	Technologies 1	
MECH988	Advanced Topics in Bulk Solids and Particulate	6
	Technologies 2	
MECH989	Advanced Topics in Bulk Solids and Particulate	6
	Technologies 3	
MECH993	Maintenance Management of Bulk Handling Systems	6
MECH994	Mechanical Handling Systems	6

Note: Apart from MECH990, each subject is run on a modular basis comprising 5 days of lectures, laboratory demonstrations, case studies and problem solving, followed by assessable tasks.

# Master of Engineering Practice (Civil Engineering)

Testamur Title of Degree:	Master of Engineering Practice (Civil Engineering)
Abbreviation:	MEngPrac
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Civil Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$5,500 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	590
CRICOS Code:	020204M

#### Overview

The Master of Engineering Practice allows practising engineers to build on and update their knowledge, and learn in additional areas to those taken in their first degree. The core subjects develop skills that all practising engineers need, and the choice of electives allows specialisation in the areas such as:

- advanced soil mechanics
- advanced foundation geotechnical engineering
- steel structures
- concrete technology
- engineering hydrology

The dissertation is a project allowing study in a particular area in depth. The dissertation develops skills in information retrieval, project planning and organisation analysis, problem solving, and effective communication of results.

#### **Course Program**

Subjects Core Subject		Credit Points
ENGG950	Innovation and Design	6
ENGG951	Engineering Project Management	6
ENGG952	Engineering Computing	6
Or		
TBS901	Accounting for Managers	6
<b>Elective Subj</b>	ects	
CIVL903	Concrete Technology	6
CIVL908	Advanced Soil Mechanics	6
CIVL909	Advanced Foundation Engineering	6
CIVL912	Engineering Hydrology	6
CIVL918	Steel Structures	6
CIVL923	Advanced Reinforced Concrete	6
CIVL981	Special Topic A	6
CIVL982	Special Topic B	6
ENGG940	Dissertation	12
ENGG953	Modelling of Engineering Management Systems	6

Note: Not all subjects available in any one year - refer Subject Listing.

## Master of Engineering Practice (Engineering Management)

Testamur Title of Degree:	Master of Engineering Practice (Engineering Management)
Abbreviation:	MEngPrac
Home Faculty:	Faculty of Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee	\$5,500 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	590
CRICOS Code:	020204M

#### Overview

The Master of Engineering Practice allows practising engineers to build on and update their knowledge, and learn in additional areas to those taken in their first degree. The core subjects develop skills that all practising engineers need, and the choice of electives allows specialisation in the areas such as:

- managing people in organisations
- supply chain management
- systems analysis for maintenance
- systems engineering and life-cycle management
- maintenance systems design and management.

The dissertation is a project allowing study in a particular area in depth. The dissertation develops skills in information retrieval, project planning and organisation analysis, problem solving, and effective communication of results.

#### **Course Program**

Subjects Core Subjec	t	Credit Points
ENGG950	Innovation and Design	6
ENGG951	Engineering Project Management	6
ENGG952	Engineering Computing	6
Elective Sub	ojects	
ENGG940	Dissertation	12
ENGG953	Modelling of Engineering Management Systems	6
Option 1: Hui	man and Financial Resource Management stream	
TBS901	Accounting for Managers	6
TBS903	Managing People in Organisations	6
TBS908	Supply Chain Management	6
Option 2: Ma	intenance Management stream	
MECH971	Systems Analysis for Maintenance	6
MECH973	Systems Engineering and Life Cycle Management	6
MECH976	Maintenance System Design and Management	6

Note: Students may be able to substitute other subjects from the Graduate School of Business (Faculty of Commerce) or Maintenance Management (Faculty of Engineering) depending on background and experience.

## Master of Engineering Practice (Environmental Engineering)

Testamur Title of Degree:	Master of Engineering Practice (Environmental Engineering)
Abbreviation:	MEngPrac
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Environmental Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee	\$5,500 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	590
CRICOS Code:	020204M

#### Overview

The Master of Engineering Practice allows practising engineers to build on and update their knowledge, and learn in additional areas to those taken in their first degree. The core subjects develop skills that all practising engineers need, and the choice of electives allows specialisation in the areas such as:

- principles of environmental engineering
- wastewater engineering
- water supply engineering
- industrial waste engineering and cleaner production
- solid and hazardous waste engineering and management.

The dissertation is a project allowing study in a particular area in depth. The dissertation develops skills in information retrieval, project planning and organisation analysis, problem solving, and effective communication of results.

#### Course Program

Subjects Core Subject	t	Credit Points
ENGG950	Innovation and Design	6
ENGG951	Engineering Project Management	6
ENGG952 Or	Engineering Computing	6
TBS901	Accounting for Managers	6
Elective Sul	bjects	
ENGG940	Dissertation	12
ENGG953	Modelling of Engineering Management Systems	6
ENVE925	Water Quality Engineering	6
ENVE926	Air and Noise Pollution	6
ENVE927	Environmental Engineering Processes Design	6
ENVE928	Design of Urban Water Systems	6
ENVE929	Site Contamination and Remediation Technologies	6
ENVE930	Coastal, River and Groundwater Engineering	6
ENVE931	Membrane Processes and Applications	6
ENVE981	Special Topic A	6
ENVE982	Special Topic B	6
CIVL904	Highway Materials	6
CIVL912	Engineering Hydrology	6
CIVL924	Advanced Studies in Computer Aided Design	6

Note: Not all subjects available in any one year - refer Subject Listing.

## Master of Engineering Practice (Maintenance Management)

Testamur Title of Degree:	Master of Engineering Practice (Maintenance Management)
Abbreviation:	MEngPrac
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Mechanical Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree from a recognised tertiary
	institution.
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$5,500 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	590
CRICOS Code:	020204M

#### Overview

The objective of the program is to ensure continuous improvement in the strategic and tactical response or organisations, and their managers, to the management of infrastructure assets.

Students who complete other Maintenance Management courses with a credit average may apply for entry to the Master of Engineering Practice course. Appropriate advanced standing will be determined by the Course Coordinator.

Subjects Core Subject		Credit Points
ENGG940	Dissertation	12
MECH971	Systems Analysis for Maintenance	6
MECH973	Systems Engineering and Life Cycle Management	6
MECH976	Maintenance System Design and Management	6
STAT942	Design and Analysis for Quality Control	6
TBS903	Managing People in Organisations	6
Plus Elective	Subjects from below:	
ENGG953	Modelling of Engineering Management Systems	6
MECH972	Condition Based Maintenance	6
MECH977	Advanced Topics in Maintenance 1	6
TBS901	Accounting for Managers	6

#### TBS906 Information Systems for Managers

6

Note: Students may be able to substitute other subjects from the Graduate School of Business (Faculty of Commerce) or Maintenance Management (Faculty of Engineering) depending on background and experience.

## Master of Engineering Practice (Materials Engineering)

Testamur Title of Degree:	Master of Engineering Practice (Materials Engineering)
Abbreviation:	MEngPrac
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Materials Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee	\$5,500 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	590
CRICOS Code:	020204M

#### Overview

The Master of Engineering Practice allows practising engineers to build on and update their knowledge, and learn in additional areas to those taken in their first degree. The core subjects develop skills that all practising engineers need, and the choice of electives allows specialisation in the areas such as:

- metallurgical processing
- engineering materials
- refractories
- corrosion and degradation
- mechanical behaviour

The dissertation is a project allowing study in a particular area in depth. The dissertation develops skills in information retrieval, project planning and organisation analysis, problem solving, and effective communication of results.

#### **Course Program**

Subjects	•	Credit Points
ENGG950	Innovation and Design	6
ENGG951	Engineering Project Management	6
ENGG952	Engineering Computing	6
Or		
TBS901	Accounting for Managers	6
Elective Subj	ects	
ENGG940	Dissertation	12
ENGG853	Modelling of Engineering Management Systems	6
MATL901	Special Topics in Materials A	6
MATL902	Special Topics in Materials B	6
MATL903	Recent Developments in Materials	6
MATL951	Performance of Materials A	6
MATL952	Performance of Materials B	6

Note: Not all subjects available in any one year - refer Subject Listing.

# Master of Engineering Practice (Materials Welding and Joining)

Testamur Title of Degree:	Master of Engineering Practice (Materials Welding and
	Joining)
Abbreviation:	MEngPrac
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Materials and Mechanical Engineering
Duration:	3 to 4 yrs part-time distance delivery
Total Credit Points:	60 credit points
Entry Requirements:	A Bachelor of Engineering or Bachelor of Science degree
Delivery Mode:	Flexible Delivery
Starting Session(s):	Jan, Mar, May, July, Sept, Nov Intakes
Standard Course Fee:	\$5,500 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	CR590
CRICOS Code:	020204M

#### Overview

This course is offered on a flexible delivery basis. It consists of a set of 16 modules with a total of 48 cp, together with a 12cp Dissertation (ENGG 919). The 3 credit point modules are presented in the form of 12 text based distance delivery subjects and four intensive one week subjects which are offered in February each year. Assessment is by assignment and examination.

In addition to the self study texts a web-based tutor is used.

Approval of the Professor of Materials Welding and Joining will be required for the subject matter of ENGG 919 - Dissertation.

#### **Course Program**

Subjects		Credit Points
ENGG901	Introduction to Welding and Joining Processes	3
ENGG902	Fusion Welding Processes Part 1	3
ENGG903	Other Joining Processes	3
ENGG904	Fusion Welding Processes Part 2	3
ENGG905	Behaviour of Metals during Welding - Part 1	3
ENGG906	Behaviour of Metals during Welding - Part 2	3
ENGG907	Welding of Non-Ferrous Metals and Non-Metals	3
ENGG908	Construction and Design - Part 1	3
ENGG909	Construction and Design - Part 2	3
ENGG910	Fabrication/Applications Engineering - Part 1	3
ENGG911	Fabrication/Applications Engineering - Part 2	3
ENGG914	Fabrication/Applications Engineering Part 3	3
ENGG915	Design on Structures	3
ENGG916	Fabrication Case Studies	3
ENGG917	Processes, Equipment, Automation	3
ENGG918	Weldability and Wear	3
ENGG919	Dissertation	12

## Master of Engineering Practice (Mechanical Engineering)

Testamur Title of Degree:	Master of Engineering Practice (Mechanical Engineering)
Abbreviation:	MEngPrac
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Mechanical Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$5,500 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	590
CRICOS Code:	020204M

#### Overview

The Master of Engineering Practice allows practising engineers to build on and update their knowledge, and learn in additional areas to those taken in their first degree. The core subjects develop skills that all practising engineers need, and the choice of electives allows specialisation in the areas such as:

- air conditioning and refrigeration
- applied fluid mechanics
- continuum mechanics
- Iubrication and wear
- advanced robotics
- sustainable transport and engine technologies
- sustainable energy in buildings.

The dissertation is a project allowing study in a particular area in depth. The dissertation develops skills in information retrieval, project planning and organisation analysis, problem solving, and effective communication of results.

#### **Course Program**

Subjects		Credit Points
Core Subject	t	
ENGG950	Innovation and Design	6
ENGG951	Engineering Project Management	6
ENGG952	Engineering Computing	6
Or		
TBS901	Accounting for Managers	6
Elective Sul	bjects	
ENGG940	Dissertation	12
ENGG953	Modelling of Engineering Management Systems	6
MECH926	Applied Fluid Mechanics	6
MECH930	Mechanical Vibration and Condition Monitoring	6
MECH918	Sustainable Energy in Buildings	6
MECH931	Friction, Lubrication and Wear	6
MECH949	Advanced Computer Control of Machines and Processes	6
MECH950	Advanced Robotics	6
MECH979	Sustainable Transport and Engine Technologies	6
Note: Not a	II subjects available in any one year – refer Subject Li.	sting.

## Master of Engineering Practice (Mechatronics)

Testamur Title of Degree:	Master of Engineering Practice (Mechatronic Engineering)
Abbreviation:	MEngPrac
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Mechatronic Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee	\$5,500 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	590
CRICOS Code:	020204M

#### Overview

The Master of Engineering Practice allows practising engineers to build on and update their knowledge, and learn in additional areas to those taken in their first degree.

The program is offered jointly by the Faculty of Engineering and the Faculty of Informatics (School of Electrical, Computer and Telecommunications Engineering). The core subjects develop skills that all practising engineers need, and the choice of electives allows specialisation in the areas such as:

- advanced robotics
- advanced laboratory in electrical control
- advanced computer control of machines and processes
- computer controlled systems
- robotics manipulators
- robotics sensory control.

The dissertation is a project allowing study in a particular area in depth. The dissertation develops skills in information retrieval, project planning and organisation analysis, problem solving, and effective communication of results.

#### Course Program

Subjects Core Subject	ct	Credit Points
ENGG950	Innovation and Design	6
ENGG951	Engineering Project Management	6
ENGG952 Or	Engineering Computing	6
TBS901	Accounting for Managers	6
<b>Elective Su</b>	bjects	
ECTE971	Robotics Manipulators	6
ECTE972	Robotics Sensory Control	6
ECTE941	Intelligent Control	6
ECTE942	Computer Controlled Systems	6
ECTE955	Advanced Laboratory	6
ENGG940 or	Dissertation	12
ECTE953	Report	12
ENGG953	Modelling of Engineering Management Systems	6
MECH950	Advanced Robotics	6

Note: Not all subjects available in any one year - refer Subject Listing.

## Master of Engineering Practice (Steel Processing and Products)

Master of Engineering Practice (Steel Processing and
Products)
MEngPrac
Faculty of Engineering
Materials and Mechanical Engineering
1 yr full-time or part-time equivalent
48 credit points
A Bachelor of Engineering degree
Coursework
Autumn/Spring
\$5,500 (local); \$8750 AUD (International) per session
Wollongong
590
020204M

#### Overview

Candidates would normally be expected to have a Bachelor Degree in Materials or Mechanical Engineering, but a bachelor degree in another appropriate field of engineering or science together with appropriate professional experience would also be accepted.

Subjects Core Subject	cts	Credit Points
ENGG930	Preliminary Topics in Steel Processing and Products	6
TBS950	Quality in Management	6
ENGG931	Steel Products and their Production	6
MGMT933	Management of Process Innovation 1	6
MECH970	Maintenance Management	6
Electives		
ENGG932	Rolling Technology	6
ENGG933	Coating Technology	6
ENGG934	Steelmaking	6
ENGG935	Casting	6
MATL906	Ceramic Materials	6
ENGG936	Control of Steel Processing	6
MGMT915	Management of Change	6
1010101915		0

6

Note: Not all subjects available in any one year - refer Subject Listing.

## Master of Science (Medical Radiation Physics)

Testamur Title of Degree:	Master of Science (Medical Radiation Physics)
Abbreviation:	MSc
Home Faculty:	Faculty of Engineering
Engineering School:	Engineering Physics
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	Completion of an Honours BSc or equivalent with Physics as
	a major study.
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$9000 (local); \$8900 AUD (International) per session
Location:	Wollongong
UOW Course Code:	574
CRICOS Code:	035592D

#### Overview

Candidates who have completed a bachelors degree which does not include a relevant major study will be required to complete additional subjects in Physics as outlined in the Masters Degree regulations. Students who have completed the Bachelor of Medical Radiation Physics from the University of Wollongong, or equivalent specialist course, would be advised to enrol in a Medical Radiation Physics research program.

The course consists of a research project and four subjects.

#### Course Program

Subjects Core Subject		Credit Points
PHYS951	Medical Physics Research Project	18
PHYS952	Radiation and Radiotherapy Physics	8
PHYS953	Medical Imaging and Nuclear Medicine	8
PHYS954	Radiobiology and Radiation Protection	8
GHMB927	An Introduction to Human Anatomy and Physiology	6

## Graduate Diploma in Engineering

Testamur Title of Degree:	Graduate Diploma in Engineering
Abbreviation:	GradDipEng
Home Faculty:	Faculty of Engineering
Engineering Disciplines:	Civil, Environmental, Materials, Mechanical, Mining
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree from a recognised tertiary
	institution.
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee	\$4750 (local); \$8750 AUD (international)
per FT session:	
Location:	Wollongong
UOW Course Code:	649
CRICOS Code:	009237F

#### Overview

The Graduate Diploma in Engineering is intended to provide specialised studies in engineering. It may provide entry to the Masters – Research program for students who do not have the necessary entry qualifications, particularly if studying this discipline for the first time.

Students enrol in one of the following 48 credit point subjects according to their discipline area:

Civil Engineering	CIVL899 Advanced Topics in Engineering
Environmental Engineering	ENVE899 Advanced Topics in Engineering
Materials Engineering	MATL899 Advanced Topics in Engineering

Mechanical Engineering	MECH899 Advanced Topics in Engineering
Mining Engineering	MINE899 Advanced Topics in Engineering

## Graduate Diploma in Maintenance Management

Graduate Diploma in Maintenance Management
GradDipMtceMgt
Faculty of Engineering
Mechanical Engineering
1 yr full-time or part-time equivalent
48 credit points
A Bachelor of Engineering degree from a recognised tertiary institution.
Coursework
Autumn/Spring
\$6000 (local); \$8750 AUD (international)
Wollongong
672
012108M

#### Overview

The Graduate Diploma in Engineering is intended to provide specialised studies in Maintenance Management.

Maintenance Managers/Engineers without tertiary qualifications in engineering but with significant industrial experience, will also be considered for admission to a limited number of places.

Students completing the Graduate Diploma in Maintenance Management at the University of Wollongong will have the option to enter into the Master of Engineering Practice (Maintenance Management), with the appropriate credit.

#### Course Program

Subjects Core Subject		Credit Points
MECH970	Maintenance Management	6
MECH971	Systems Analysis for Maintenance	6
MECH972	Condition Based Maintenance	6
MECH973	Systems Engineering and Life Cycle Management	6
MECH976	Maintenance System Design and Management	6
TBS902	Statistics for Decision Making	6
TBS903	Managing People in Organisations	6
Plus One Elec	tive Subject from below:	
TBS901	Accounting for Managers	6
TBS906	Information Systems for Managers	6

Note: Students may be able to substitute other subjects from the Graduate School of Business (Faculty of Commerce) or Maintenance Management (Faculty of Engineering) depending on background and experience.

## Graduate Diploma in Materials Welding and Joining

Testamur Title of Degree	Graduate Diploma in Materials Welding and Joining
Abbroviation:	CradDinMW/I
ADDIEVIATION.	GiauDipiviwu
Home Faculty:	Faculty of Engineering
Engineering Discipline:	Materials and Mechanical Engineering
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A Bachelor of Engineering degree from a recognised tertiary
	institution or approved equivalent qualification, prior learning
	and experience.
Delivery Mode:	Flexible Delivery
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$5500 (local); \$8750 AUD (international) per session
Location:	Wollongong
UOW Course Code:	CR666
CRICOS Code:	N/A

#### Overview

There are 16 modules. Refer to Master of Engineering Practice in Materials Welding and Joining. This course is offered on a flexible delivery basis and is the same as the MEPrac with the exception of the dissertation which is not required.

## Graduate Diploma in Science (Physics)

Testamur Title of Degree:	Graduate Diploma in Science (Physics)
Abbreviation:	GDipSc
Home Faculty:	Faculty of Engineering
Engineering School:	Engineering Physics
Duration:	1 yr full-time or part-time equivalent
Total Credit Points:	48 credit points
Entry Requirements:	A pass Bachelor degree of at least three years' duration in a
	relevant discipline.
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$6000 (local); \$8750 AUD (International) per session
Location:	Wollongong
UOW Course Code:	650
CRICOS Code:	002363A

#### Overview

This course is designed to provide:

- 1) a Masters qualifying course for students who have inadequate preparation for direct entry into the Masters by Research program;
- 2) an opportunity for Science teachers who have a degree, but have taken Physics to first or second year level only, to improve their understanding and horizons in Physics;
- 3) an opportunity for international students and students without a full major in Physics to update their knowledge of Physics.

Students must consult the Physics Discipline Adviser for admission to the course. Forty eight (48) credit points to be chosen from the following list in consultation with the Physics Discipline Adviser.

Subjects Core Subject		Credit Points
PHYS205	Advanced Modern Physics	6
PHYS215	Vibrations, Waves and Optics	6
PHYS233	Introduction to Environmental Physics	6
PHYS235	Mechanics and Thermodynamics	6
PHYS255	Radiation Physics	6
PHYS295	Astronomy - Concepts of the Universe	6
MATH201	Multivariate and Vector Calculus*	6
MATH202	Applied Differential Equations*	6
MATH283	Mathematics 2E for Engineers Part 1	6
PHYS305	Quantum Mechanics*	6
PHYS325	Electromagnetism*	6
PHYS335	Classic Mechanics*	6
PHYS365	Detection of Radiation: Neutrons, Electrons and X-Rays	6
PHYS375	Nuclear Physics	6
PHYS385	Statistical Mechanics*	6
PHYS390	Astrophysics	6
PHYS401	Theoretical Mechanics and Electromagnetism	8
PHYS441	Advanced Astrophysics	4
PHYS444	Quantum Mechanics	8
PHYS446	Solid State Physics	8
PHYS452	Medical Imaging	8
PHYS453	Radiobiology and Radiation Protection	8
PHYS456	Imaging Physics	8
PHYS910	Advanced Project in Physics A	6
PHYS947	Special Topics in Physics A	6
PHYS948	Physics of Imaging	6
PHYS960	Advanced Project in Physics B	6
PHYS990	Applied Physics Project	24

PHYS997Special Topics in Physics B6Note: Starred subjects are pre- and co-requisites of some of the physics subjects.

# Graduate Certificate in Engineering

Graduate Certificate in Engineering
GCertEng
Faculty of Engineering
6mths part-time equivalent
24 credit points
A Bachelor of Engineering degree from a recognised tertiary institution.
Coursework
Autumn/Spring
\$5500 (local); \$8750 AUD (international) per session
Wollongong
695
N/A

#### Overview

This program is designed for those wishing to undertake a short program in engineering. Other qualifications, together with relevant professional experience, will be considered.

On completion of the Graduate Certificate, students can apply to transfer to the Master of Engineering Practice.

#### Course Program

Subjects Core Subject	C	Credit Points
ENGG950	Innovation and Design	6
ENGG951	Engineering Project Management	6
ENGG952	Engineering Computing	6
Plus one elective subject from one of the Master of Engineering Practice programs.		

## Graduate Certificate in Maintenance Management

Testamur Title of Degree:	Graduate Certificate in Maintenance Management
Abbreviation:	GCertMtcMgt
Home Faculty:	Faculty of Engineering
Duration:	6mths part-time equivalent
Total Credit Points:	24 credit points
Entry Requirements:	A Bachelor of Engineering degree from a recognised tertiary
	institution.
Delivery Mode:	Coursework
Starting Session(s):	Autumn/Spring
Standard Course Fee:	\$6000 (local); \$8750 AUD (international) per session
Location:	Wollongong
UOW Course Code:	1134
CRICOS Code:	032520M

#### Overview

This course is designed for those wishing to undertake a short program in Maintenance Management as a stepping stone to other awards. On completion of the Graduate Certificate, students can apply to transfer to the Master of Engineering Practice (Maintenance Management).

Four subjects are usually chosen from the Master of Engineering Practice (Maintenance Management) with approval from the Course Coordinator.