

# Grad Cert in Engineering Management (Innovation & Commercialisation)

Specialisations fall into three bands: Technical courses, Management courses, and Engineering Project. A specialisation from any one of these bands meets the requirement for the award of a Graduate Certificate in Engineering Science, which can also be used as credit for 50 per cent of the Master of Engineering Science degree.

We recognise that graduates working in the field of engineering have a variety of aspirations. For many, the technical direction will provide a rewarding career that today is valued increasingly by employers. For others, the natural career path is through management. The new Master of Engineering Science degree recognises the significance of both, with its requirements fulfilled by choosing specialisations from any two of the three bands. For example, a Technical specialisation in Energy can be combined with either an Engineering Project or a specialisation in Management. It is even possible to combine a specialisation in Management with an Engineering Project.

## Study Mode

The program can be undertaken on campus or through distance learning. Most of the courses within the program are facilitated by online learning through Blackboard. To allow for the distribution of teaching materials, courses provided through distance mode commence approximately three weeks after the on campus semester dates. Not all courses are offered in each semester.

## Program Description

The Graduate Certificate program consists of 40 units of coursework. Most courses are available by distance mode for external students.

## Approved Courses

### Graduate Certificate in Engineering Management

The Graduate Certificate requires 40 units, gained through the completion of four courses worth 10 units each. Students can choose any one specialisation from Bands A, B, C.

### Master of Engineering Management

The Master of Marketing requires the completion of eight courses (80 units). Students should choose any two specialisations, covering two of the three Bands (eg combine Energy with Engineering Project)

BAND A – Technical			
Specialization in MINERAL PROCESSING			
Course Code	Course Name	Course Code	Course Name
GENG6005*	Engineering Practice, Innovation and Commercialization	CHEE6007	Particle Processing II
DIRECTED STUDIES Students need to choose TWO COURSES from the selection below			
CHEE6410	Advanced Coal and Mineral Processing	MECH6250	Bulk Materials Handling and Transportation
MECH6200	Advanced Computer Aided Engineering		
* Where this course is part of two specializations an additional elective from one specialization must be selected.			
Specialization in ENERGY			
Course Code	Course Name	Course Code	Course Name
GENG6005*	Engineering Practice, Innovation and Commercialization	CHEE6008	Advanced Energy Systems
CHEE6200	Advanced Clean Coal Technologies		
DIRECTED STUDIES Students need to choose ONE COURSE from the selection below			

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CHEE6410**	Advanced Coal and Mineral Processing	MECH6200	Advanced Computer Aided Engineering
MECH6250	Bulk Materials Handling and Transportation		

\*\* Credit from other external courses may be granted.

## BAND B - Management

### Specialization in MANAGEMENT

Course Code	Course Name	Course Code	Course Name
GENG6005*	Engineering Practice, Innovation and Commercialization	GEBU6020	Strategic Business Systems

### DIRECTED STUDIES

Students need to choose TWO COURSES from the selection below

GSBS6503	Project Management	GSBS6200	Accounting and Financial Management
GSBS6040	Human Resource Management	ENVS6510	Environmental Legislation and Planning
GSBS6020	Management and Organizational Behaviour	ENVS6520	Sustainability

### Specialization in COMMERCIALISATION

Course Code	Course Name	Course Code	Course Name
GENG6005*	Engineering Practice, Innovation and Commercialization	GENG6006	Research and Development and Managing Intellectual Property
GSBS6020	Management and Organizational Behaviour		

### DIRECTED STUDIES

Students need to choose ONE COURSE from the selection below

GSBS6503	Project Management	GSBS6031	Marketing Research
GSBS6200	Accounting and Financial Management	GSBS6162	Entrepreneurship

## BAND C - Project

Course Code	Course Name	Course Code	Course Name
GENG6000	Engineering Project A	GENG6001	Engineering Project B

## Schedule

The [relevant program schedule](#) is available within the [Degree Rules and Schedules](#) section of the [Policy Library](#).

## Trimester Schedule

January, May and September

## Programme Fee

Students should enroll for 20 Units per installment. For the course fees please refer to the attached course fee table. Please note that programme fees may vary from time to time. For more updated programme fees, please visit [www.gradschool.com.au](http://www.gradschool.com.au) and [www.newcastle.edu.au](http://www.newcastle.edu.au).

## Duration of study

8 months