Master of Engineering Practice (MEPR) - MEngPrac

	External*
Semester intake:	Semester 1 (February) Semester 2 (July) Semester 3 (November)
Fees:	Commonwealth supported place Domestic full fee paying place International full fee paying place
Standard duration:	6 semesters part-time by distance education
Program articulation:	From: Bachelor of Engineering Science

Footnotes

* This program is not available to international students unless living in Australia and holding a valid 457 visa with a duration of no less than 3 years.

Contact us

Future Australian and New Zealand students	Current students
Ask a question Freecall (within Australia): 1800 269 500 Phone (from outside Australia): +61 7 4631 5315 Email: study@usq.edu.au	Ask a question Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email usq.support@usq.edu.au

Professional accreditation

The program is accredited by Engineers Australia and graduates are eligible for Graduate membership at the Professional Engineer level.

Program aims

To enable experienced Engineering Technologists to demonstrate and/or acquire the academic, personal, professional, and technical knowledge, skills and understanding required to commence practice as a graduate Professional Engineer in Australia or overseas within appropriate social, cultural, industrial and environmental contexts.

Program objectives

The objectives of the Master of Engineering Practice are to:

- enable Engineering Technologists to demonstrate and/or acquire the specified generic professional attributes and capabilities that will lead to recognition by Engineers Australia as a professional engineer
- enable Engineering Technologists to demonstrate and/or acquire in-depth cognitive and technical skills and competencies in one of the following fields: Civil Engineering; Electrical and Electronic Engineering; Environmental Engineering, Mechanical Engineering; Power Systems Engineering, or Structural Engineering
- enable Engineering Technologists to demonstrate and/or acquire an advanced and integrated understanding of a complex body of knowledge and theories, concepts and processes in their chosen discipline as a professional engineer
- enable Engineering Technologists to critically analyse, reflect and synthesise information to interpret and transmit knowledge, skills and ideas to a variety of professional and non-professional audiences

- ensure that graduates are eligible to apply for Stage 1 Professional Engineer membership of Engineers Australia and to benchmark competency attributes to Engineers Australia Stage 2 Experienced Professional Engineer.

Admission requirements

To be eligible for admission, applicants must satisfy the following requirements:

- Completion of an Australian university three year Bachelor degree in the area of engineering science or engineering technology in the relevant cognate major or equivalent and a minimum of five years' professional work experience, or equivalent.#*
- English Language Proficiency requirements for Category 3.
- must be an Australian citizen or permanent resident of Australia, or a citizen of New Zealand or the holder of a 457 visa with a duration of at least three years. Note: This program is not available to international students.

Candidates may be admitted on the basis of professional registration as a Technologist Member of Engineers Australia. Candidates must be able to demonstrate that they have at least five years of relevant and significant engineering experience usually after graduation in the Engineering industry and are required to provide a Curriculum Vitae (CV) to demonstrate their industry experience.

* The standing of degrees awarded by an overseas institution will be determined by reference to the Sydney Accord, of which Engineers Australia (EA) is a signatory, and Australian Education International (AEI) which is a federal government agency.

Prospective students are encouraged to talk to the Faculty of Health, Engineering and Sciences before completing an application form.

All students are required to satisfy the applicable English language requirements.

If students do not meet the English language requirements they may apply to study a University-approved English language program. On successful completion of the English language program, students may be admitted to an award program.

Program fees

Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of a student's higher education andstudents pay a student contribution amount, which varies depending on the courses undertaken. Students are able to calculate the fees for a particular course via the Course Fee Finder.

Commonwealth Supported students may be eligible to defer their fees through a Government loan called HECS-HELP.

Domestic full fee paying place

Domestic full fee paying places are funded entirely through the full fees paid by the student. Full fees vary depending on the courses that are taken. Students are able to calculate the fees for a particular course via the Course Fee Finder.

Domestic full fee paying students may be eligible to defer their fees through a Government loan called FEE-HELP provided they meet the residency and citizenship requirements.

Australian citizens, Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who will be resident outside Australia for the duration of their program pay full tuition fees and are not eligible for FEE-Help.

International full fee paying place

International students pay full fees. Full fees vary depending on the courses that are taken and whether they are studied on-campus, via distance education/online. Students are able to calculate the fees for a particular course via the Course Fee Finder.

Program structure

The Master of Engineering Practice program is a 12-unit program made up of the following three components:

Schedule A: Five core courses (seven units)

- ENG8300 Self-Assessment Portfolio
- ENG8311 Workplace Portfolio (2 units)
- ENG8308 Industry Project (2 units)
- ENM1600 Engineering Mathematics
- ENG8208 Advanced Engineering Project Management or ENG8104 Asset Management in an Engineering Environment

ENG8300 Self-assessment Portfolio

The course ENG8300 Self-Assessment Portfolio is the first course students undertake in the program and it is designed to enable them to firstly assess their existing attributes and capabilities and then to nominate the specific workplace experiences they will use to demonstrate their level of competency in the courses: ENG8311 Workplace Portfolio and ENG8308 Industry Project. Students will also nominate the Academic courses they will undertake in the program to enable them to satisfy other attribute and capability requirements. It may also be necessary for them to identify some specific types of industrial experience they need to undertake to be able to satisfy any remaining requirements. The outcome of this self-assessment process will be a Pathway to Graduation Plan prepared by the student in consultation with the examiner of the course.

A second component of this course will require students to show that they can write a Career Episode Report that demonstrates their achievement of two of the specified attributes and capabilities. To do this successfully students will have to demonstrate they are able to accurately reflect on their experience and that they have the communication skills that are necessary to write such a report. The information in a Career Episode Report must be verified and endorsed by a professional engineer who is preferably a member of Engineers Australia. Achievement of this component of the course is critical because students will use Career Episode Reports to demonstrate Engineers Australia's Stage 2 and discipline specific competencies in the Workplace Portfolio and Industry Project courses.

At the end of this course students will submit a portfolio containing their Curriculum Vitae, the Career Episode Reports and the Pathway to Graduation Plan. The Examiner of the course will assess the portfolio and either:

(1) Approve the Pathway to Graduation Plan
(2) Request modifications to the Plan before it is approved, or
(3) Decide that the student does not have the required knowledge, experience, attributes or capabilities to be able to satisfactorily complete the program. In this case the student will be cancelled from this program and counselled on alternative ways of achieving their goals. Students in this category may still be awarded a passing grade in the course. If a student has passed this course, they will then be granted an exemption when they enrol in another program in the area of Engineering and Built Environment.

Once a Pathway to Graduation Plan has been approved a student may enrol in the remaining courses in the Plan. The Plan will, in due course, be used by the Faculty to assess the student's eligibility to graduate.

Prospective students should visit the Engineers Australia web site to gain an understanding of the processes which will be followed. In particular, they should view the Stage Two Competencies and the guidelines for achieving Chartered status.

The Workplace Portfolio and Industry Project courses

The Workplace Portfolio course and the Industry Project course are designed to enable students to develop Portfolios that will enable them to obtain credit for their achievements during their employment as an Engineering Technologist. The courses are:

- ENG8311 Workplace Portfolio (2 units)
- ENG8308 Industry Project (2 units).

The core course ENM1600 Engineering Mathematics is designed to give students the enabling skills in mathematics and problem solving needed to undertake the Technical courses in their program. Students who

have completed courses, or an equivalent course, as part of an earlier completed program of study should apply for an exemption.

Schedule B: Five technical courses

During the preparation of their Pathway to Graduation Plan students must nominate how they are going to demonstrate achievement of the objectives of each of the **Technical Courses** defined for their specialisation and listed in this Schedule. They may do this by studying a course or by demonstrating achievement of the objectives of the course in their Workplace Portfolio. A student may study a maximum of **five** of the **Technical Courses** listed in this Schedule.

Schedule C: One Practice Course

Students must complete the practice course allocated in the recommended enrolment pattern for their major (0 units).

Required time limits

school Practice course are shown in the Residential School schedule in this Handbook and external students should ensure they are able to attend the residential school prior to enrolling in a Practice course. Personal protective equipment is compulsory in many engineering, construction and spatial science laboratories, students should confirm the requirements before attending residential schools for Practice courses.

Students who enrol in on-campus mode for Practice courses normally undertake a series of weekly activities and/or attend a compulsory residential school.

Exit points

Students who have completed four courses in the program may satisfy the requirements for the Graduate Certificate of Engineering Technology program and therefore exit the program with a Graduate Certificate

Footnotes

\+ The Springfield on-campus offering of this course will not be available in 2017.

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Electrical and Electronic Engineering specialisation recommended enrolment pattern

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.

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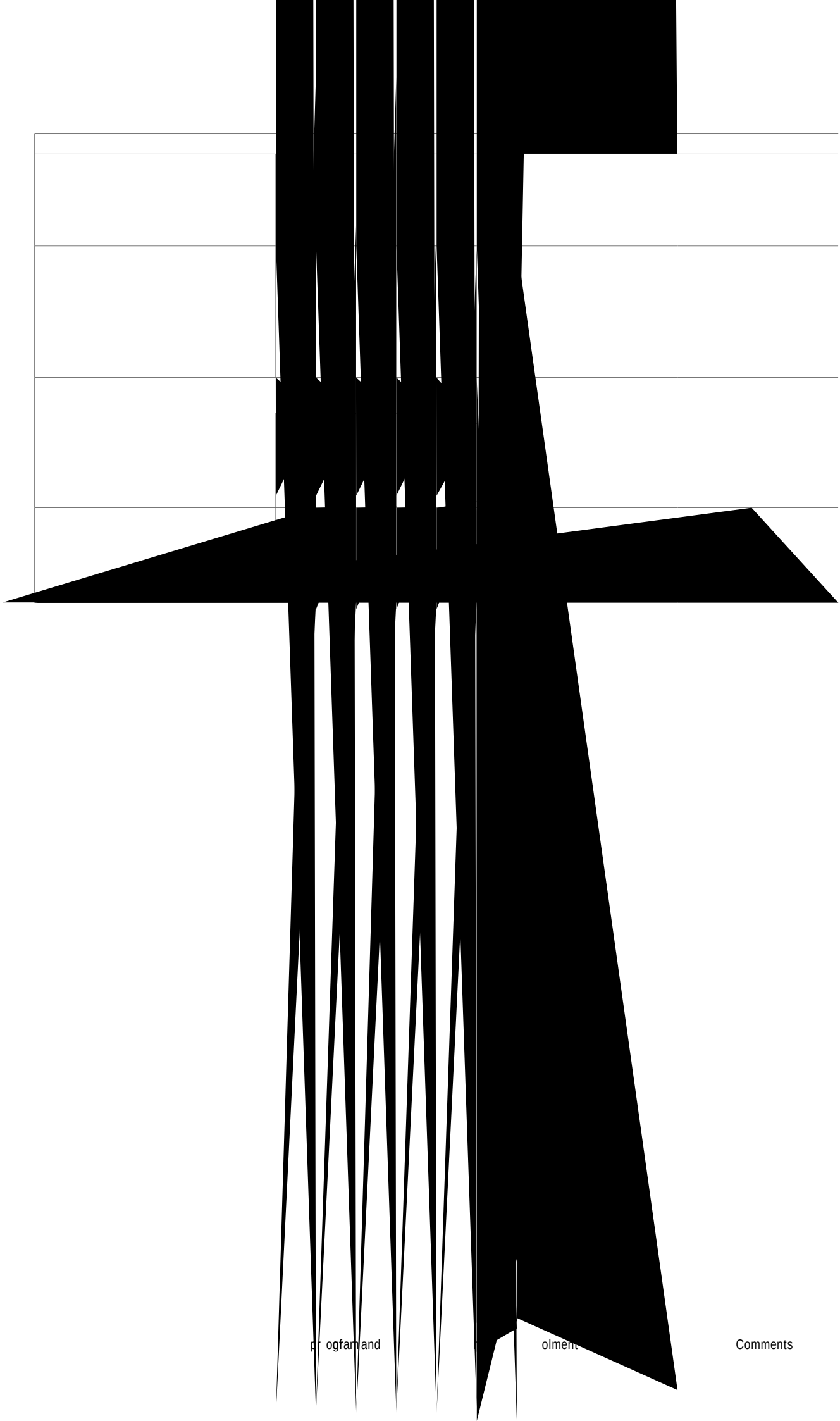

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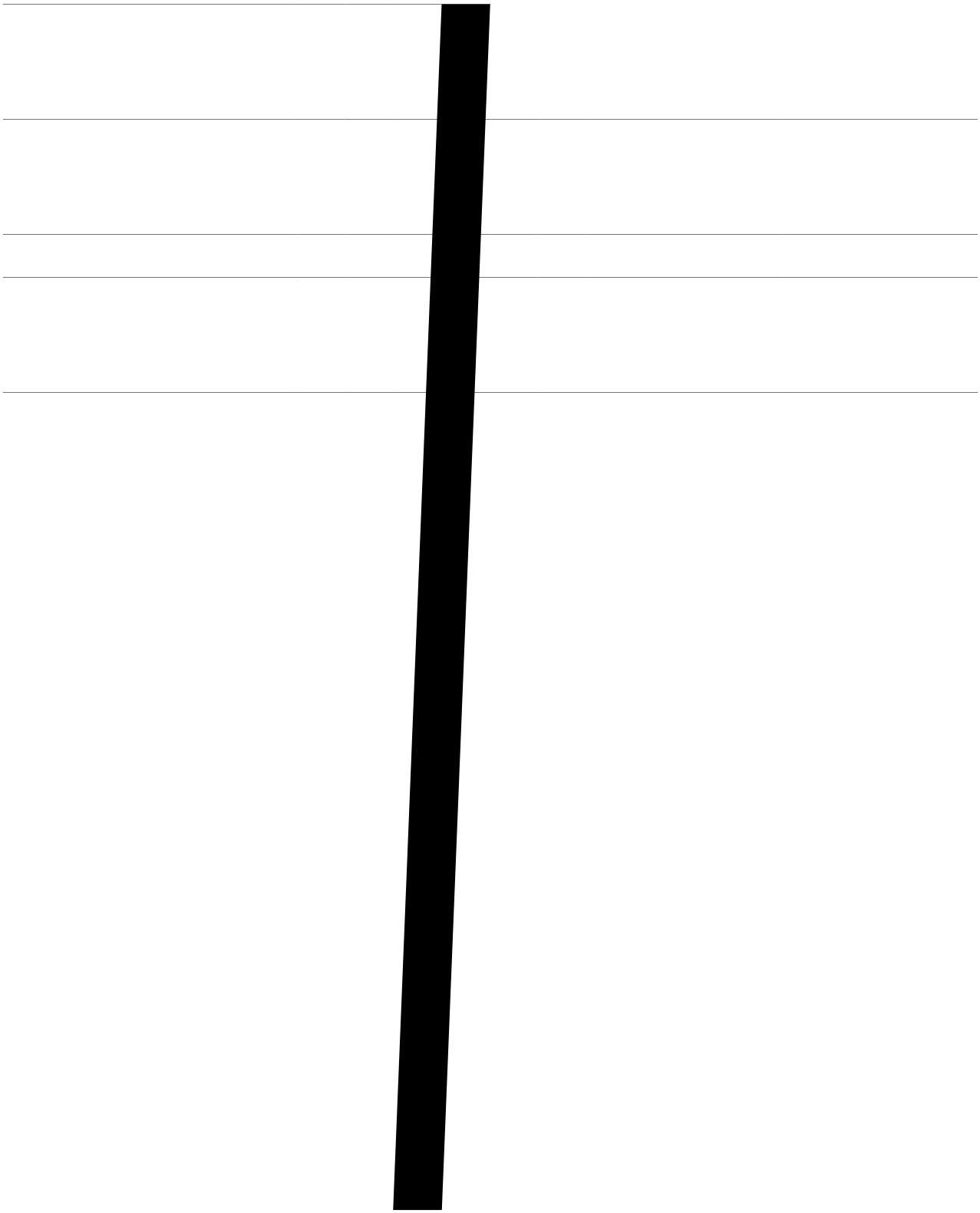
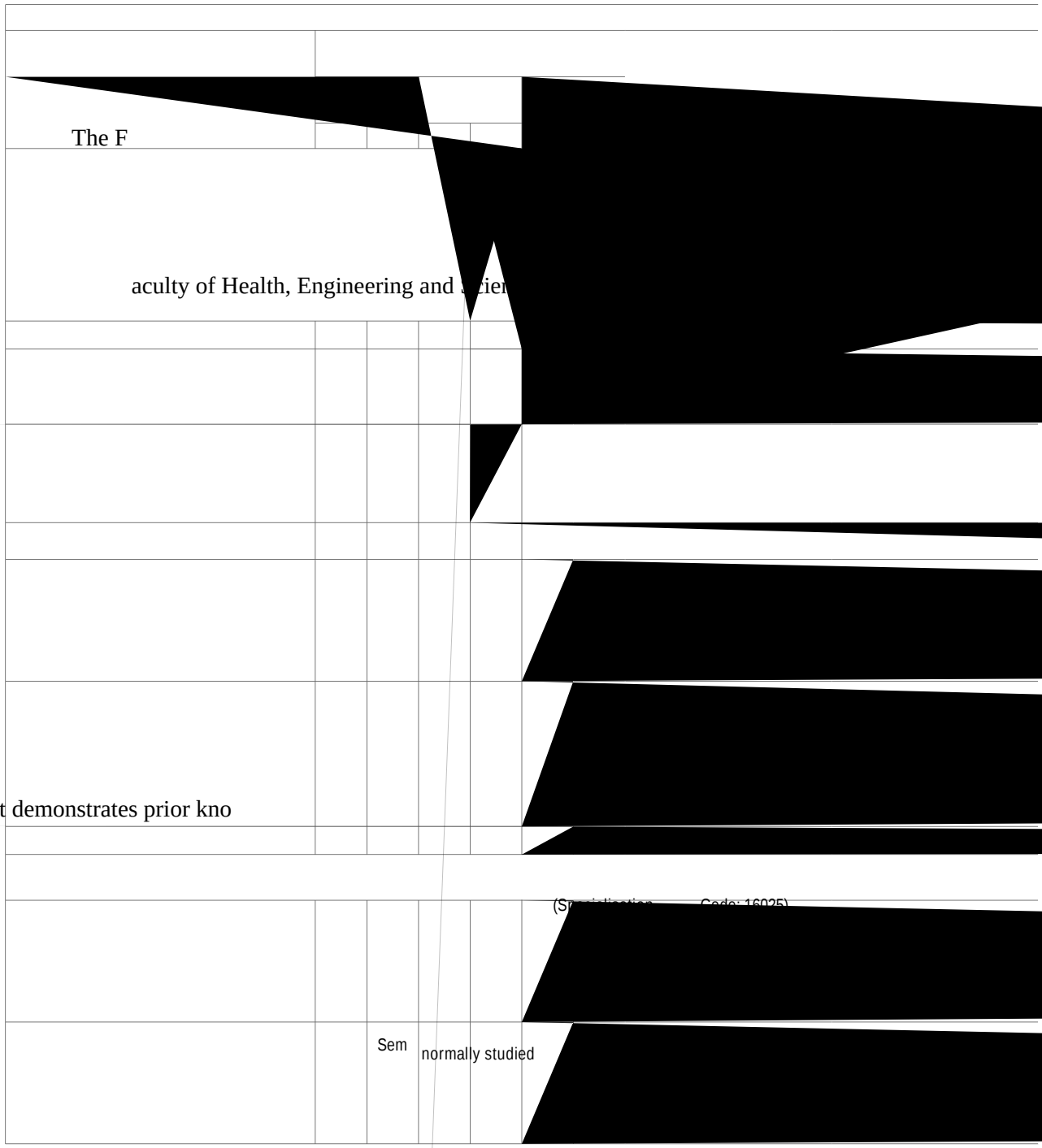
Specialisation: Environmental Engineering (Specialisation Study Code: 15211)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
							be enrolled in one of the fol lowing Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS	
ECO8012 Methods for Sustainable Development						2		
ENV4107 Water Resources Engineering						2	Pre-requisite: (ENV3104 and ENV3105) or Students must be enrolled in one of the fol lowing Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS	
ENV4203 Public Health Engineering						2	Pre-requisite: ENV1101 or ENV2103 or Students must be enrolled in one of the fol lowing Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS	
ENV4204 Environmental Technology						1	Pre-requisite: MAT1100 or MAT1500 or ENM1600 or S tudents must be enrolled in one of the following Program s: GCEN or METC or MENS or GCNS or GDNS or MSST or MEPR	
ENV5205 Solid and Liquid Waste Treatment						1	Pre-requisite: ENV4203 or ENV4204 or Students must be enrolled in one of the fol lowing Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS	
LAW2107 Environmental Law						1	Co-requisite: LAW1101 or ENG2002 or (Students en rolled in Programs: BEDU (Legal Studies) or BLAW or LLBP or BALW or BBLA or BCLA or BCLW & Co-requi site: LAW1201 or LAW1111) or (Students enrolled in Pro gram: DJUR & Co-requisite: LAW5501 or LAW5111)	
Schedule C: One Practice Course Students must complete the practice course.								
ENV3904 Environmental Engineering Practice				3			Pre-requisite: ENV4203 or Students must be enrolled in one of the following Program s: GDNS or MENS	

Mechanical Engineering specialisation recommended enrolment pattern

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.





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Schedule B: **T** Sem ement of the objecti es of each of the

Structural Engineering specialisation recommended enrolment pattern

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the