School of Electrical Engineering & Telecommunications

Faculty of Engineering

UNSW Sydney

Postgraduate by Coursework Programs

8338 - Master of Engineering Science (2 years)
5341 - Graduate Diploma of Engineering Science (1 year)

The School of Electrical Engineering and Telecommunications offer the following areas of Specialisations (PLANS) for each of the above programs:

Electrical Engineering ELECBS8338 and ELECQS5341 Energy Systems ELECIS8338 and ELECRS5341

Systems and Control ELECPS8338 only

Telecommunications TELEBS8338 and TELECS5341

Satellite Systems ELECOS8338 only

Postgraduate by Coursework Academic Coordinator

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Electrical Engineering Building (map ref: G17)

UNSW Kensington, Sydney

Postgraduate by coursework program guideline – School of	Electrical Engineering & Telecommunications
Master of Engineering Science (2 years)	Graduate Diploma of Engineering Science

GSOE9360 Professional Discourse in Engineering
GSOE9820 Project Management OR CVEN9731 Project Management Framework
GSOE9810 Quality in Engineering
SOLA9103 RE System Modelling & Analysis
MANF6860 Strategic Manufacturing Management
SOLA9004 Sustainable and Renewable Energy
CVEN9892 Sustainability Assessment

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Postgraduate by coursework program guideline – School of Electrical Engineering & Telecommunications

Master of Engineering Science (2 years)

Program code: 8338

Specialisation: ELECIS8338 (Energy Systems)

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Students choose		UOC
Disciplinary Courses	4 from List A	24
Advance Disciplinary	4 from List B	24
Project Report A *	Elec9771	6
Project Report B **	Elec9772	6
Research-related	Gsoe9010 or 9011 or	6
	9220	
ETM course	1 from List C	6
Electives (up to 4	From Lists A/ B/ C	24
courses)		
Total UOC		96

Graduate Diploma of Engineering Science (1 year)

Program code: 5341

Specialisation: ELECRS5341 (Energy Systems)

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Students choose		UOC
Disciplinary Courses	3 from List A	18
Advance Disciplinary	3 from List B	18
Electives (up to 2	From Lists A/B/C	12
courses)		
Total UOC		48

^{*}The Project Report A must be taken after completion of 48 UOC.

List A - Disciplinary Courses:

Elec4602 Microelectronic Design and Technology

Elec4611 Power System Equipment

Elec4612 Power System Analysis

Elec4613 Electrical Drive Systems

Elec4614 Power Electronics

Elec4621 Advanced Digital Signal Processing

Elec4631 Continue-Time Control Systems Design

Phtn4661 Optical Circuits and Fibres

Tele4652 Mobile & Satellite Communications Systems

List B - Advance Disciplinary Courses:

Elec4617 Power System Protection

Elec9711 Power Electronics for Renewable Energy

Elec9712 High Voltage Systems

Elec9713 Industrial and Commercial Power

Elec9714 Electricity Industry Planning

Elec9715 Electricity Industry Operation

Elec9716 Electrical Safety

Elec9719 Real-Time Digital simulations

Elec9741 Electrical Engineering Data Science

Gsoe9141 Smart Grids and Networks

Gsoe9142 Energy Efficient Lighting & Equipment

List C – Engineering Technical Management (ETM) courses: (no more than 24uoc of ETM courses to be taken)

GSOE9210 Engineering Decision Structures

GSOE9830 Engineering Economi5 (e)6.7 (b8w 14.0417 0 T-3.3 (gh)-0.7 (t)-5(G)-5 Tw 0.20-0.7 (t))J0 Tc 0 &8c 0u8 (g)J0eTc 0 Twc 0

^{**}The Project Report B must be taken immediately after Project Report A.

GSOE9445 Entrepreneurial Engineering

Postgraduate by coursework program guideline – School of Electrical Engineering & Telecommunications

Master of Engineering Science (2 years)

Program code: 8338

Specialisation: ELECPS8338 (Systems & Control)

Graduate Diploma of Engineering Science (1 year)

Program code: 5341

List C – Engineering Technical Management (ETM) courses: (no more than 24uoc of ETM courses to be taken)

GSOE9210 Engineering Decision Structures

GSOE9830 Engineering Economics OR CVEN9701 Engineering Economics

and Financial Management OR CEIC8204 Topics in Business Management in Chemical Engineering

GSOE9712 Engineering Statistics and Experimental Design

CVEN9888 Environmental Management

GSOE9510 Ethics & Leadership in Engineering

MANF9400 Industrial Management

GSOE9445 Entrepreneurial Engineering

MATH5846 Introduction to Probability and Stochastic Processes

GSOE9340 Life Cycle Engineering OR SOLA9015 Life Cycle Assessment

GSOE9017 Managing Energy Efficiency OR GSOE9121 Operational Energy Efficiency

MATH3156 Optimization

COMP9021 Principles of Programming

MANF9472 Production Planning and Control

GSOE9360 Professional Discourse in Engineering

GSOE9820 Project Management OR CVEN9731 Project Management Framework

GSOE9810 Quality in Engineering

SOLA9103 RE System Modelling & Analysis

MANF6860 Strategic Manufacturing Management

SOLA9004 Sustainable and Renewable Energy

CVEN9892 Sustainability Assessment

GSOE9143 Sustainable Electrical Energy Technology Assessment

SOLA5056 Sustainable Energy in Developing Countries

GSOE9997 Engineering Work Related Learning for Postgraduates

Notes:

Each course worth 6 units of credit (6 uoc).

Not all courses are offered in both sessions. You need to view the timetable website to find out each course's availability in each session:

https://www.engineering.unsw.edu.au/electrical-engineering/timetables

Courses exemption: Students may apply for some courses exemptions. Students with a four year honours degree (for example in Electrical Engineering) may obtain a maximum of 48 UOC of exemptions.

Postgraduate by coursework program guideline – School of Electrical Engineering & Telecommunications

Master of Engineering Science (2 years)

Graduate Diploma of Engineering Science (1 year)

Program code: 8338

Program code: 5341

Specialisation: ELECOS8338 (Satellite Systems EysteSp&l

GSOE9360 Professional Discourse in Engineering
GSOE9820 Project Management OR CVEN9731 Project Management Framework
GSOE9810 Quality in Engineering
SOLA9103 RE System Modelling & Analysis
MANF6860 Strategic Manufacturing Management
SOLA9004 Sustainable and Renewable Energy
CVEN9892 Sustainability Assessment
GSOE9143 Sustainable Electrical Energy Technology Assessment
SOLA5056 Sustainable Energy in Developing Countries
GSOE9997 Engineering Work Related Learning for Postgraduates

Notes:

Each course worth 6 units of credit (6 uoc).

Not all courses are offered in both sessions. You need to view the timetable website to find out each course's availability in each session:

https://www.engineering.unsw.edu.au/electrical-engineering/timetables

Courses exemption: Students may apply for some courses exemptions. Students with a four year honours degree