

Handbook 2020

Coursecode

M1305

ELECTRICAL POWER ENGINEERING (ME+MIT)

Murdoch University

Correct as at: 8 July 2020 at 12:43pm

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University Secretary
Murdoch University
South Street
Murdoch
Western Australia 6150

Telephone: (08) 9360 6000

Facsimile: (08) 9360 6847

<http://www.murdoch.edu.au>

TEQSA Number PRV12163; CRICOS Provider Code: 00125J

Cancellation of Courses, Majors, Minors and Units

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

Alternative Formats

Handbook home page:

<http://handbook.murdoch.edu.au>

This publication can also be provided in alternative formats by contacting the Equity and Social Inclusion Office at Murdoch University

Telephone: (08) 9360 6084

Facsimile: (08) 9360 6502

equity@murdoch.edu.au

<http://goto.murdoch.edu.au/EquitySocialInclusion>

ISSN 0815-9068

Published by

University Secretary's Office

Murdoch University



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Group	Course	Offerings
Engineering	Electrical Power Engineering (ME+MIT)	• Murdoch campus (internal)

ENGINEERING

ELECTRICAL POWER ENGINEERING (ME+MIT)

Employment Prospects:

Graduates can find employment in electrical generation, distribution and electrical design industries along with operators of stand-alone systems such as mining and ship building industries.

Availability:

- Murdoch campus (internal)

Course Codes: M1305

The major in Electrical Power Engineering is intended for practising professionals who wish to update their existing qualifications and/or enhance their skills in the areas of electrical generation, power system planning, protection and power electronic converters. It will provide advanced training in these areas, as well as in the design, modelling and control of power systems and power electronic converters, and the integration of distributed energy resources, energy storage and demand response in existing electricity grids.

Environmental Engineering

Main Research Areas:

Circuits and systems, power and energy systems engineering

Admission Requirements (Onshore):

As per course

Major Structure - 24 credit points

Required Units - 24 credit points

ENG558 Advanced Power Electronics - 3 points

MURDOCH: S1-internal

ENG556 Power System Modelling and Analysis - 3 points

MURDOCH: S2-internal

ENG682 Advanced Power Systems Protection and Control - 3 points

MURDOCH: S1-internal, S2-internal

ENG557 Distributed Energy Resources and Demand Response - 3 points

MURDOCH: S1-internal

ENG670 Measurement and Uncertainty Analysis - 3 points

MURDOCH: S2-internal

ENG691 Hazard, Risk and Project Management - 3 points

MURDOCH: S1-internal, S2-internal

ENG610 Engineering Design Project - 6 points

MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, Y-internal

PREREQUISITES

Advanced Power Electronics (ENG558)

Enrolment in Graduate Diploma of Engineering or Master of Engineering or permission of the Engineering Academic Chair.

Advanced Power Systems Protection and Control (ENG682)

ENG556 Power System Modelling and Analysis and enrolment in the Master of Engineering or permission of the Engineering Academic Chair.

Distributed Energy Resources and Demand Response (ENG557)

Enrolment in Graduate Diploma of Engineering or Master of Engineering.

Engineering Design Project (ENG610)

Enrolment in the Master of Engineering or Graduate Diploma in Engineering or MBA+ME or ME+MIT

Hazard, Risk and Project Management (ENG691)

Enrolment in the Master of Engineering, Graduate Diploma in Engineering OR the ME/MIT.

Measurement and Uncertainty Analysis (ENG670)

Enrolment in the Master of Engineering or Graduate Diploma in Engineering or permission of the Engineering Academic Chair

Power System Modelling and Analysis (ENG556)

Enrolment in Graduate Diploma of Engineering or Master of Engineering.