



Australia's
Global
University

ELECAS8621

Master of Engineering in Electrical Engineering

Program structure checklist

This checklist is for students who commences ELECAS8621 from 2019 onwards.

“Courses exemption” or “credit transfer” from other institutions are **NOT** allowed in this program.

Students have to complete 17 courses with a total of 96uoc, normally over the 2-year period, from the following list:

<p>Six Disciplinary Electives</p>	<p><i>Microsystems:</i> Elec4601 (Digital & Embedded Systems Design) Elec4602 (Microelectronic Design & Technology) Elec4603 (Solid State Electronics) Elec4604 (RF Electronics) Elec4605 (Quantum Devices and Computers)</p> <p><i>Energy Systems:</i> Elec4611 (Power System Equipment) Elec4612 (Power System Analysis) Elec4613 (Electrical Drive Systems) Elec4614 (Power Electronics) Elec4617 (Power System Protection)</p> <p><i>Signal Processing:</i> Elec4621 (Advanced Digital Signal Processing) Elec4622 (Multimedia Signal Processing) Elec4623 (Biomedical Instrumentation, Measurement & Design)</p> <p><i>Systems & Control:</i> Elec4631 (Continuous – Time Control System Design) Elec4632 (Computer Control Systems) Elec4633 (Real-time Engineering)</p>
<p>Five Advanced Disciplinary Electives</p>	<p><i>Microsystems:</i> Elec9701 (Mixed Signal Microelectronic Design) Elec9702 (Radio Frequency Integrated Circuit Design) Elec9703 (Microsystems Design & Technology) Elec9704 (VLSI Technology) Elec9705 (Quantum Devices)</p> <p><i>Energy Systems:</i> Elec9711 (Power Electronics for Renewable & Distributed Generation)</p>

	<p>Elec9712 (High Voltage Systems) Elec9713 (Industrial & Commercial Power Systems) Elec9714 (Electricity Industry Planning & Economics) Elec9715 (Electricity Industry Operation & Control) Elec9716 (Electrical Safety) Elec9719 (Real-Time Digital Simulations) Gsoe9141 (Smart Grids and Distribution Networks)</p> <p><i>Signal Processing:</i> Elec9721 (Digital Signal Processing Theory & Applications) Elec9722 (Digital Image Processing) Elec9723 (Speech Processing)</p> <p><i>Systems & Control:</i> Elec9731 (Robust & Linear Control Systems) Elec9732 (Analysis & Design of Non-linear Control)</p> <p><i>Special Topics:</i> Elec9781 (Special Topics in Electrical Engineering 1) Elec9782 (Special Topics in Electrical Engineering 2)</p>
Two (ETM) Engineering Technical Management Electives	<p>Gsoe9210 (Engineering Decisions) Gsoe9420 (Project Management in Engineering and Research) Gsoe9445 (Entrepreneurial Engineering) Gsoe9510 (Ethics & Leadership in Engineering) Gsoe9747 (Innovation and Commercialisation for Engineers) Gsoe9820 (Project Management) Gsoe9830 (Economic Decision Anal. In Engineering)</p>
One EE Design Course	Elec9123 (Design Proficiency)
Masters Projects A,B,C(total 12uoc with 4uoc each)	<p>Elec9451 (Masters Project A) in one term in 2nd year Elec9452 (Masters Project B) in next term continuously after passing elec9451. Elec9453 (Masters Project C) in next term after passing elec9452.</p>
Industrial Training	Need to have 60 working days of Industrial Training (IT) and submit the IT report; recommend to do the work experience by the end of your 1 st year.

Note: check available courses offered in each term from this site: <http://classutil.unsw.edu.au>

Edited on 12 November 2019 GF