# ELECAS8621
# Master of Engineering in Electrical Engineering

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

**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:

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

| | Elec9712 (High Voltage Systems) |
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| | 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) |
| | *Signal Processing:* |
| | Elec9721 (Digital Signal Processing Theory & Applications) |
| | Elec9722 (Digital Image Processing) |
| | Elec9723 (Speech Processing) |
| | *Systems & Control:* |
| | Elec9731 (Robust & Linear Control Systems) |
| | Elec9732 (Analysis & Design of Non-linear Control) |
| | *Special Topics:* |
| | Elec9781 (Special Topics in Electrical Engineering 1) |
| | Elec9782 (Special Topics in Electrical Engineering 2) |
| Two (ETM) Engineering Technical Management Electives | 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) |
| One EE Design Course | Elec9123 (Design Proficiency) |
| Masters Projects A,B,C(total 12uoc with 4uoc each) | 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. |
| 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 1st year. |

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

*Edited on 12 November 2019 GF*