# 431-659 Advanced Studies 2 (Electrical)

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| **Credit Points:** | 12.50 |
| **Level:** | 9 (Graduate/Postgraduate) |
| **Time Commitment:** | Contact Hours: 36 hours of lectures, directed reading, tutorials and project work; Non-contact time commitment: 84 hours Total Time Commitment: Not available |
| **Prerequisites:** | To be determined in consultation with the lecturer. |
| **Corequisites:** | None |
| **Recommended Background Knowledge:** | None |
| **Non Allowed Subjects:** | None |
| **Core Participation Requirements:** | For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: <a href="http://services.unimelb.edu.au/disability">http://services.unimelb.edu.au/disability</a> |
| **Contact:** | Engineering Student Centre<br>Ground Floor, Old Engineering Building<br>The University of Melbourne<br>Victoria 3010 AUSTRALIA<br>Tel: +61 3 8344 6703<br>Fax: +61 3 9349 2182<br>Email **http://eng-unimelb.custhelp.com (Engineering%20Student%20Centre%20%20Ground%20Floor,%20Old%20Engineering%20Building%20The%20University%20of%20Melbourne%20Victoria%203010%20AUSTRALIA%20%20Tel:%20+61%203%208344%206703%20Fax:%20+61%203%209349%202182%20%20Email%20http:/eng-unimelb.custhelp.com)** |
| **Subject Overview:** | The content of this subject will change from year to year. The subject will be used to present new research oriented topics in electrical engineering. This subject may not be offered every year.<br>Students are informed of the topics covered by Advanced Studies subjects prior to the commencement of the semester. |
| **Objectives:** | On completion of this subject, the student should have:<br># an intermediate level of knowledge of a particular research topic in electrical engineering. |
| **Assessment:** | Continuous assessment of written assignments or projects with reports not exceeding 6000-words (30%), final examination not exceeding 3-hours (70%). Students are required to pass the final examination in order to pass the subject as a whole. |
| **Prescribed Texts:** | None |
| **Breadth Options:** | This subject is not available as a breadth subject. |
| **Fees Information:** | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees |
| **Generic Skills:** | 1. ability to apply knowledge of basic science and engineering fundamentals;<br>2. in-depth technical competence in at least one engineering discipline<br>ability to undertake problem identification, formulation and solution;<br>3. ability to utilise a systems approach to design and operational performance<br>4. expectation of the need to undertake lifelong learning, capacity to do so |

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| | 5. capacity for independent critical thought, rational inquiry and self-directed learning<br>6. intellectual curiosity and creativity, including understanding of the philosophical and methodological bases of research activity<br>7. openness to new ideas and unconventional critiques of received wisdom<br>8. profound respect for truth and intellectual integrity, and for the ethics of scholarship |
| **Related Course(s):** | Ph.D.- Engineering |