351-AA Ph.D.- Engineering

Year and Campus:	2008
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Graduate/Postgraduate
Duration & Credit Points:	
Contact:	Melbourne School of Engineering website **www.eng.unimelb.edu.au (http://www.eng.unimelb.edu.au)** Search for an answer or send an email via our queries website **eng-unimelb.custhelp.com (http://eng-unimelb.custhelp.com/)**
Course Overview:	The Doctor of Philosophy (PhD) is the University's major research qualification. Candidates undertake a research program and are required to make a significant and new contribution to their discipline. Typically a student's research will be supervised by a single member of the academic staff assisted by two other members of staff interested in the research area. This panel monitors progress and provides supervision to the student. Candidates write up to a 100,000 word thesis about their research. The thesis is examined externally with at least one international examiner. **Duration** The normal period of candidature is three years for full-time candidates with the possibility of two, six month extensions. All PhD candidates are required to complete a minimum of 12 months full-time research at the University in order to benefit from planning, conducting and writing up their research within a University community and environment. Normally the entire PhD is undertaken at the University. **Entry Requirements** Normally a four-year degree at H1 (80%+) level. Some departments of the Melbourne School of Engineering prefer to admit students to the research masters in the first instance with conversion to PhD after 1 year of study. All PhD students are probationary students for the first year of their studies. Applicants interested in applying for a PhD are advised to enter into communication with the Postgraduate Coordinator in the relevant department to determine the suitability of their proposed research topic and the availability of appropriate supervision. **Coursework Component** Some research degrees require a coursework component. **Intake** Students may commence a PhD at any time during the year subject to prior arrangement with their nominated supervisor. Where a student is enrolling in a PhD with a coursework component intake may be restricted by the timetabling of subjects. Please check with the relevant department prior to making any arrangements for enrolment or travel. **Awarding of Final Mark & Grade** Where there is a coursework component the final mark and grade for the degree is the mark and grade awarded for the thesis. A pass in all coursework is required to fulfill the requirements of the degree.
Objectives:	-
Course Structure & Available Subjects:	-
Subject Options:	**Electrical and Electronic Engineering PhD students** All students are required to complete a minimum of four subjects and a maximum of eight. A minimum of four subjects must be chosen from the core subjects detailed below.

If a student does not have sufficient background in the core subjects they may be required by the supervisory panel to take preliminary undergraduate subjects. Undergraduate preliminary subjects will not count towards the postgraduate level coursework requirement. Subjects from other departments may be selected in consultation with the supervisor and the department, and are subject to the written approval of the Head of Department.

All PhD students are required to attend departmental seminars over the period of their candidature.

During their candidature students are trained in research and communication skills with particular reference to presenting their work to both the research and broader communities.

Students will typically participate in leading conferences in their research areas. Students are able to benefit from overseas exchange/training periods through our extensive international collaboration network. he Department maintains an intensive international visitors program, allowing students and staff to collaborate with international experts in particular sub-disciplines.

Core subjects for Electrical & Electronic Engineering PhD students

Subject	Study Period Commencement:	Credit Points:
431-658 Advanced Studies 1 (Electrical)	Semester 1	12.50
431-659 Advanced Studies 2 (Electrical)	Semester 2	12.50
431-660 Advanced Studies 3	Not offered 2008	12.500
431-661 Advanced Studies 4	Not offered 2008	12.500
431-681 Quantum Opto-electronics	Not offered 2008	12.500
431-682 Lightwave Devices and Systems	Not offered 2008	12.50
431-683 Wireless Systems	Not offered 2008	12.500
431-684 Communication Network Standards/Protocol	Semester 1	12.50
431-685 Introduction to Optimisation	Semester 2	12.50
431-686 Linear Systems Theory	Not offered 2008	12.50
431-687 Nonlinear Systems Theory	Semester 1	12.50
431-688 Statistical Signal Processing	Not offered 2008	12.50
431-689 Information Theory	Semester 2	12.50
431-690 Advanced Topics in Communications	Not offered 2008	12.50
431-691 Advanced Topics in Signals and Systems	Semester 1	12.50
431-692 Advanced Topics in Photonics	Not offered 2008	12.50
431-693 Advanced Topics Biomedical Engineering	Not offered 2008	12.50

Entry Requirements:	Applicants interested in applying for a PhD are advised to enter into communication with the Postgraduate Coordinator in the Department of interest, or the Academic Manager in the Melbourne School of Engineering.
Core Participation Requirements:	-
Graduate Attributes:	-
Generic Skills:	-