Meet your course coordinator
ME(Electrical)
ME(Electrical with Business)

Sem. 2, 2017

Prof Christina Lim
Deputy Head (Academic)
chrislim@unimelb.edu.au
Meet EEE Staff

Ms Kanchan Katkade
EEE Academic Support Coordinator
Master of Engineering (Electrical)

Developing bionic implants, sensor networks and ultra-broadband wireless.
With Business

The Master of Engineering (with Business) recognises the need for engineers to understand the management of organisations.
Course Structure

Master of Engineering (Electrical)

212.5 points core
  87.5 points electives
300.0 points total

Master of Engineering (Electrical with Business)

262.5 points core
  37.5 points electives
300.0 points total

Depending on previous degree, credit may have been awarded already.
## ME(Electrical) – Study Plan Example

<table>
<thead>
<tr>
<th>Y1</th>
<th>Foundations of Electrical Networks*</th>
<th>Engineering Mathematics*</th>
<th>Engineering Computation*</th>
<th>Approved Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Digital System Design</td>
<td>Probability and Random Models</td>
<td>Signal and Systems*</td>
<td>Electrical Network Analysis and Design*</td>
</tr>
<tr>
<td>Y2</td>
<td>Electrical Device Modelling</td>
<td>Communication Systems</td>
<td>Embedded System Design</td>
<td>Signal Processing</td>
</tr>
<tr>
<td></td>
<td>Control Systems*</td>
<td>Electronic Circuit Design</td>
<td>Electronic System Implementation</td>
<td>Engineering Practice and Communication* OR Creating Innovative Engineering*</td>
</tr>
<tr>
<td>Y3</td>
<td>Electrical Engineering Capstone Project*</td>
<td>Electrical Engineering Elective</td>
<td>Electrical Engineering Elective</td>
<td>Approved Elective</td>
</tr>
</tbody>
</table>

* Indicates subjects that can be taken in multiple semesters

University of Melbourne pathway students are recommended to take Creating Innovative Engineering

Disclaimer: Study plans are subject to approval from Academic Board and Subject Availability and therefore, are likely to change. Students are advised and strongly recommended to consult the handbook when developing their study plan
# ME(Electrical with Business) – Study Plan Example

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<thead>
<tr>
<th></th>
<th>Foundations of Electrical Networks*</th>
<th>Engineering Mathematics*</th>
<th>Engineering Computations*</th>
<th>World of Engineering Management*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1</td>
<td>Digital System Design</td>
<td>Probability and Random Models</td>
<td>Signals and Systems*</td>
<td>Electrical Network Analysis and Design*</td>
</tr>
<tr>
<td>Y2</td>
<td>Electrical Device Modelling</td>
<td>Embedded System Design</td>
<td>Engineering Contracts &amp; Procurement</td>
<td>Marketing Management for Engineers</td>
</tr>
<tr>
<td></td>
<td>Control Systems*</td>
<td>Electronic Circuit Design</td>
<td>Electronic System Implementation</td>
<td>Economic Analysis for Engineers</td>
</tr>
<tr>
<td>Y3</td>
<td>Electrical Engineering Capstone Project*</td>
<td>Communication Systems</td>
<td>Signal Processing</td>
<td>Strategy Execution for Engineers*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Electrical Engineering Elective</td>
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## University of Melbourne pathway students are recommended to take Creating Innovative Engineering

Disclaimer: Study plans are subject to approval from Academic Board and Subject Availability and therefore, are likely to change. Students are advised and strongly recommended to consult the handbook when developing their study plan.
Students who enter without credit for Foundations of Electrical Networks will be restricted in their course planning because of the prerequisite structure.
### ME (Electrical) Program

#### Year 1
- **Foundations of Electrical Networks**
- Digital System Design
- Probability and Random Models
- Signal and Systems*

#### Year 2
- Electrical Device Modelling
- Control Systems*
- Electronic Circuit Design
- Introduction to Power Engineering

#### Year 3
- Electrical Engineering Capstone Project*

#### Elective Courses
- Engineering Mathematics*
- Engineering Computation*
- Electrical Network Analysis and Design*
- Signal Processing
- Engineering Practice and Communication*
- Creating Innovative Engineering*
- Approved Elective
- Electrical Engineering Elective

* Indicates required courses.
ME (Electrical) Electives

- **Electrical Electives** need to be taken from the following list; they can be taken any time as long as prerequisites are fulfilled:

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lightwave Systems</td>
<td>Communication Networks</td>
</tr>
<tr>
<td>Power Systems Analysis</td>
<td>High Speed Electronics</td>
</tr>
<tr>
<td>Advanced Communication Systems</td>
<td>Advanced Control Systems</td>
</tr>
<tr>
<td>Advanced Signal Processing</td>
<td>Electronic System Design</td>
</tr>
<tr>
<td>Introduction to Power Engineering</td>
<td>Power Electronics</td>
</tr>
</tbody>
</table>

- **Approved Elective**
  
  *Any postgraduate level subject or third-year undergraduate technical subject*
  
  - including ENGR90033 Internship (25 pts)
  - Check prerequisites and obtain written permission from subject coordinator and then get written permission from course coordinator

- **Electrical with Business** course structure is similar but
  - 3 Electrical Electives
  - Approved Electives taken up by Business subjects
ME (Electrical) Notes

You are encouraged to choose Level-9 subjects for your Approved Electives.

Approved Elective choices (examples):

• Biomedical Engineering subjects such as
  BMEN90021 Medical Imaging
  BMEN90002 Neural Information Processing

• Management subjects such as
  MGMT90026 Supply Chain Management
  MGMT90141 Business Analysis and Decision Making

• Other subjects such as
  ENGR90026 Engineering Entrepreneurship
  COMP90041 Programming and Software Development
  and many others

To-do-list:

• Check prerequisites for enrolment

• Get written approval from subject coordinator and send to course coordinator for approval

• Bring course coordinator approval to STOP1

NOTE: MC-ENG (Electrical) students are NOT ALLOWED to take any of the MC-ENG (Electrical with Business) Business subjects as Approved Electives (i.e. The World of Engineering Management, Engineering Contracts and Procurement, Marketing Management for Engineers, Economic Analysis for Engineers and Strategy Execution for Engineers)
Enrolment

- **Advanced standing** if nothing has changed since application, advanced standing has already been assessed. If there is a difference since application, can lodge [http://students.unimelb.edu.au/admin/credit](http://students.unimelb.edu.au/admin/credit) need to provide transcript, syllabus for assessment.

- **Changing subjects** If you see a subject in the Handbook that should be available in your course but can’t find it in your Study Plan, please contact your Course Coordinator or Program Director to check if it is available to you, then submit an [Enrolment Variation Form](#) attaching approval from CC/PD.

- **Timetabling clashes** Occasionally, you may have a clash between two of your chosen subjects. If this happens, you will have to choose one over the other.

- **CREM (Class Registration Enquiry Management)** If you have any issues in completing your timetable that cannot be avoided, you will need to raise the issue in CREM for advice.
Study differences

- Unscheduled class time
- Self-directed learning
- Active discussion in tutorials
Learning styles

- Lectures
- Tutorials
- Seminars
- Laboratories/practical classes
- Workshops
- Online learning
Examinations

Remain in Melbourne for the entire study period

Final results release date: Friday 1 December 2017

Exam timetable cannot be changed. NO EXCEPTIONS!
Academic misconduct

- **Plagiarism**: representing as one's own original work the creative works of another, without appropriate acknowledgment of the author or source.

- **Collusion**: presentation by a student of an assignment as his or her own which is in fact the result in whole or in part of unauthorised collaboration with another person or persons. It involves two or more students.

- **Working in groups**: when students copy one another (including students who are not members of the group), when students contribute little to the group project but claim equal share.

[https://academichonesty.unimelb.edu.au/?_ga=1.180392610.445416620.14528279741](https://academichonesty.unimelb.edu.au/?_ga=1.180392610.445416620.14528279741)
Common Forms of Academic Misconduct

1. Copying and pasting from web sites or other published material, even if referenced (but not quoted)
2. Same as 1) but then substituting some synonyms in the belief that it is paraphrasing
3. Copying images and tables without acknowledgment
4. Copying words, analysis, structure or style from other students (often from previous years)
5. Using computer code from others without acknowledgment
6. “Signing in” for other students where attendance is mandatory
7. Not turning off mobile phones in exams
• 140 allegations of academic misconduct
• 50 resulted in educative exercises
• 2 found not guilty
• 54 given substantial penalties (zero for subject or zero for the assignment)
• 34 received reprimands
Ways to Avoid Academic Misconduct

1. Compose the argument yourself, rather than modifying someone else’s.
2. Develop and set out analysis yourself.
3. Learn the fine detail of how to properly reference the work of others.
4. Learn how to read a ‘Turn It In’ report so you can check a team mate’s work.
5. Use a reference manager (EndNote or Mendeley)
6. Decide whether you want to learn and maintain your self respect and values
Library research skills for Engineering

- Online resource developed between MSE and University Library
- Self-paced material on library skills useful for research
- Contains basic and advanced materials
- Suggests concrete ways to relate skills to your research area
- Access via Learning Management System (LMS)
  - “My Communities” is under “My Subjects”
  - Click on “Library Research Skills for Engineering”
STOP
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**ADMISSIONS INFORMATION**
- Our courses
- Entry requirements
- Single subject studies
- Extension program

**ADMINISTRATIVE AND INFORMATION SERVICES**
- Fees
- Transcripts and academic statements
- Scholarships and graduations

**ENROLMENT SERVICES**
- Course planning
- Enrolment assistance
- Special consideration
- Student equity

**SKILLS AND DEVELOPMENT SERVICES**
- Careers
- Academic skills
- Student connect
- Study abroad and exchange

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- Financial aid
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ask.unimelb.edu.au

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234 St. Kilda Road (VCA and MCM students only)
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757 Swanston Street
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Stop 1 at SOUTHBANK
VCA and MCM students only
234 St Kilda Road, Southbank
(Elisabeth Murdoch Building)

Health and Wellbeing services
All students
138 Cardigan Street, Carlton

Current opening hours: students.unimelb.edu.au/stop1
Course Planning and Enrolment help

You can get course advice at any time from a Student Advisor at Stop 1. They can assist you to make informed decisions about:

- Subject selection
- Majors, minors and specialisations
- Study pathways
- Study Abroad and Exchange

Read our course planning page to get you started.

Access course planning resources
students.unimelb.edu.au/admin/course-planning/resources
**Parkville** (all students)

**Southbank** (VCA & MCM students only)
Helpful online pages:
students.unimelb.edu.au/balance
services.unimelb.edu.au/finder
If you need ongoing assistance due to long-term circumstances, you can register with Student Equity and Disability Support.

We offer a range of support services:

- Alternative formats for written materials
- Support workers, such as note-takers
- Specialist equipment
- Assistive technology
- Accessible teaching spaces

Visit services.unimelb.edu.au/disability/students
As a student, you may have ongoing or episodic circumstances that adversely affect your academic performance. These could include:

<table>
<thead>
<tr>
<th>Example circumstances</th>
<th>Example study adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic illness</td>
<td>Leave of absence</td>
</tr>
<tr>
<td>Disability</td>
<td>Reduced study load</td>
</tr>
<tr>
<td>Students with carer status</td>
<td>Alternative exam arrangements</td>
</tr>
<tr>
<td>Elite athletes or performers</td>
<td>Support, such as note-takers</td>
</tr>
<tr>
<td>Army Reservists</td>
<td>Specialist equipment/technology</td>
</tr>
</tbody>
</table>

If you have ongoing circumstances that may affect your studies, find out how to register for assistance at students.unimelb.edu.au/admin/special
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Any questions?