

# 355AF Bachelor of Engineering (Mechanical and Manufacturing Engineering)

| <b>Year and Campus:</b>                           | 2011 - Parkville  |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
|---|---|----------------|--|---------|----------------------------|----------------|---|-----------|----|---------|----------------------------|----------------|-----------------------|------------|-------|--------------------------|------------|-------|-----------------------------|------------|-------|
| <b>CRICOS Code:</b>                               | 003626G   |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| <b>Fees Information:</b>                          | Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>   |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| <b>Level:</b>                                     | Undergraduate   |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| <b>Duration &amp; Credit Points:</b>              | 400 credit points taken over 48 months full time. This course is available as full or part time.  |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| <b>Coordinator:</b>                               | A/Prof Andrew Seng Hock Ooia.ooi@unimelb.edu.au   |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| <b>Contact:</b>                                   | Melbourne School of Engineering<br><a href="mailto:courseinfo@eng.unimelb.edu.au">courseinfo@eng.unimelb.edu.au</a> ( <a href="mailto:courseinfo@eng.unimelb.edu.au">mailto:courseinfo@eng.unimelb.edu.au</a> )<br><a href="http://www.eng.unimelb.edu.au">http://www.eng.unimelb.edu.au</a> ( <a href="http://www.eng.unimelb.edu.au">http://www.eng.unimelb.edu.au</a> )  |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| <b>Course Overview:</b>                           | <p>THERE IS NO FURTHER ENTRY INTO THIS COURSE</p> <p>Students who commenced 4th year in 2010 and have not completed, or have failed the fourth year subjects required, should speak to a course advisor.</p> <p>New pathways to the study of Mechanical Engineering are outlined at <a href="http://www.mech.unimelb.edu.au/future/undergrad.html">http://www.mech.unimelb.edu.au/future/undergrad.html</a> (<a href="http://www.mech.unimelb.edu.au/future/undergrad.html">http://www.mech.unimelb.edu.au/future/undergrad.html</a>)</p> <p>Graduate research programs are available in aspects of mechanical, mechatronics, manufacturing and bioengineering. The department is internationally regarded in fluid mechanics, advanced automotive engineering technology, machine dynamics, mechatronics and biomedical engineering.</p>                   |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| <b>Objectives:</b>                                | N/A   |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| <b>Course Structure &amp; Available Subjects:</b> | <p>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008</p> <p>The recommended or standard course structures for students who commenced the course prior to 2008 are listed below. When setting the timetable every effort will be made to avoid clashes between the times of classes associated with these sets of subjects. Students should be aware however, that if it proves to be impossible to achieve a timetable without clashes in these sets of subjects, the Faculty reserves the right to modify course structures in order to eliminate the conflicts. Students will be advised during the enrolment period of the semester if the recommended courses need to be varied. Where the courses include elective subjects these should be chosen so that timetable clashes are avoided.</p> |                |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| <b>Subject Options:</b>                           | <p>The following 4th year subjects are available in 2011.</p> <p><b>Year Long</b></p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MCEN40020 Major Project and Professional Practice</td> <td>Year Long</td> <td>25</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MCEN40009 Mechanics 4</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>MCEN40010 Thermofluids 4</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>MCEN40018 Control Systems 2</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>  |                |  | Subject | Study Period Commencement: | Credit Points: | MCEN40020 Major Project and Professional Practice | Year Long | 25 | Subject | Study Period Commencement: | Credit Points: | MCEN40009 Mechanics 4 | Semester 1 | 12.50 | MCEN40010 Thermofluids 4 | Semester 1 | 12.50 | MCEN40018 Control Systems 2 | Semester 1 | 12.50 |
| Subject   | Study Period Commencement:  | Credit Points: |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| MCEN40020 Major Project and Professional Practice | Year Long   | 25             |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| Subject   | Study Period Commencement:  | Credit Points: |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| MCEN40009 Mechanics 4                             | Semester 1  | 12.50          |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| MCEN40010 Thermofluids 4                          | Semester 1  | 12.50          |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |
| MCEN40018 Control Systems 2                       | Semester 1  | 12.50          |  |         |                            |                |   |           |    |         |                            |                |                       |            |       |                          |            |       |                             |            |       |

|   | <b>Subject</b>   | <b>Study Period Commencement:</b>   | <b>Credit Points:</b> |
|---|--|-------------------------------------|-----------------------|
|   | MCEN40003 Quality Engineering  | Semester 2                          | 12.50                 |
|   | MCEN40002 Optimisation   | Not offered 2011                    | 12.50                 |
|   | MCEN40015 Advanced Engineering Materials   | Semester 2                          | 12.50                 |
|   | MGMT20004 Human Resource Management  | Semester 1, Semester 2              | 12.50                 |
|   | MCEN40011 Advanced Computational Mechanics   | Semester 2                          | 12.50                 |
|   | MKTG10001 Principles of Marketing  | Summer Term, Semester 1, Semester 2 | 12.50                 |
|   | MGMT20002 Managing Operations  | Summer Term, Semester 1             | 12.50                 |
| <b>Entry Requirements:</b>              | There will be no further entry into this course.   |                                     |                       |
| <b>Core Participation Requirements:</b> | For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a> |                                     |                       |
| <b>Graduate Attributes:</b>             | The Bachelor of Engineering is a professional degree. Graduates can obtain professional recognition by joining Engineers Australia who has accredited these programs. The Bachelor of Engineering also delivers on the University graduate attribute <a href="http://www.unimelb.edu.au/about/attributes.html">http://www.unimelb.edu.au/about/attributes.html</a>   |                                     |                       |
| <b>Notes:</b>                           | <p>Pre-requisite requirements and not allowed subject/s should be checked before selecting any subject.</p> <p>Credit may not be obtained for -</p> <p>both 436201 Thermofluids 1 and MCEN30015 Thermofluids<br/> both 436353 Mechanics 2 and MCEN30016 Mechanical Dynamics<br/> both 436285 Design &amp; Materials 1 and MCEN30017 Mechanics and Materials<br/> both 436286 Design &amp; Materials 2 and MCEN30014 Mechanical Design<br/> both 436284 Organisational Engineering and MCEN90010 Finance and Human Resources for Engineers</p>  |                                     |                       |