

## 352-ST Master of Engineering Science(Engineering Structures)

| Year and Campus:                       | 2008   |                |  |         |                            |                |                        |                        |       |                          |                        |    |
|--|--|----------------|--|---------|----------------------------|----------------|------------------------|------------------------|-------|--------------------------|------------------------|----|
| Fees Information:                      | Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>  |                |  |         |                            |                |                        |                        |       |                          |                        |    |
| Level:                                 | Graduate/Postgraduate  |                |  |         |                            |                |                        |                        |       |                          |                        |    |
| Duration & Credit Points:              |  |                |  |         |                            |                |                        |                        |       |                          |                        |    |
| Contact:                               | Course Coordinator Assoc. Professor Nelson Lam E: <a href="mailto:ntkl@unimelb.edu.au">ntkl@unimelb.edu.au</a> Faculty of Engineering<br>Rebecca Randall E: <a href="mailto:r.randall@unimelb.edu.au">r.randall@unimelb.edu.au</a>   |                |  |         |                            |                |                        |                        |       |                          |                        |    |
| Course Overview:                       | <p>The Graduate Program in Engineering Structures is designed to meet the needs of graduates involved in disciplines associated with the advanced design of engineering structures. The Program includes contemporary issues such as ecologically sustainable buildings and the design of structures for extreme loading, such as earthquake, wind, blast and fire. Participants are also able to choose from a wide range of elective subjects including subjects focusing on project management and architecture. The major themes of this course are: structural systems, conceptual design, sustainable design, extreme loading and advanced analysis techniques.</p> <p>A three-semester program on a full-time basis comprised of 150 points, consisting of the subjects required for the Master of Engineering Structures with the addition of two research subjects and a corresponding reduction in the number of points allocated to elective subjects.</p>  |                |  |         |                            |                |                        |                        |       |                          |                        |    |
| Objectives:                            | -  |                |  |         |                            |                |                        |                        |       |                          |                        |    |
| Course Structure & Available Subjects: | -  |                |  |         |                            |                |                        |                        |       |                          |                        |    |
| Subject Options:                       | <p><b>Core Subjects:</b> 25 points</p> <p><b>Restricted Elective Subjects:</b> 37.5 points</p> <p><b>Research Subjects:</b> 62.5 points</p> <table><tr><th>Subject</th><th>Study Period Commencement:</th><th>Credit Points:</th></tr><tr><td>421-642 Research Topic</td><td>Semester 1, Semester 2</td><td>12.50</td></tr><tr><td>421-644 Research Project</td><td>Semester 1, Semester 2</td><td>50</td></tr></table> <p><b>Elective Subjects:</b> 25 points</p> <p>Taken from the Electives List in the Master of Engineering Structures or other subjects with the approval of the Course Coordinator.</p>   |                |  | Subject | Study Period Commencement: | Credit Points: | 421-642 Research Topic | Semester 1, Semester 2 | 12.50 | 421-644 Research Project | Semester 1, Semester 2 | 50 |
| Subject                                | Study Period Commencement:   | Credit Points: |  |         |                            |                |                        |                        |       |                          |                        |    |
| 421-642 Research Topic                 | Semester 1, Semester 2   | 12.50          |  |         |                            |                |                        |                        |       |                          |                        |    |
| 421-644 Research Project               | Semester 1, Semester 2   | 50             |  |         |                            |                |                        |                        |       |                          |                        |    |
| Entry Requirements:                    | <p>The <b>academic requirements</b> for admission to the Masters program are: 4 year degree in engineering or science in a relevant discipline with an average grade of at least 65% or via pathway (average grade equivalent to at least 65% at the University of Melbourne)</p> <p><b>Language Requirements</b></p> <p>International students and students whose prior qualifications are from a university where English is not the official language of instruction and examination need to supply proof of academic English language competency.</p> <p>Proof acceptable to the University includes:</p> <p>Original evidence of an English Language test score at a sitting within the last 24 months of either -</p> <p>TOEFL - at least 577 and a TWE of at least 4.5 (paper based) or a TOEFL of at least 233 with an Essay Rating of at least 4.5 (computer based)</p> <p><b>or</b></p> <p>IELTS - at least 6.5. (A minimum band score of 6 is required in the Academic Writing module).</p> <p>Entry under a slightly lower Engineering alternative* English Language entry requirement is available as follows:</p> <p>TOEFL - at least 550, with a TWE of 4 or the computer based TOEFL of at least 213 with an Essay Rating Score of at least 4 and agreeing in writing to undertake and pass an ESL subject in the first semester of study at the University of Melbourne</p> |                |  |         |                            |                |                        |                        |       |                          |                        |    |

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|   | <b>or</b><br>IELTS - at least 6 and agreeing in writing to undertake and pass an ESL subject in the first semester of study at the University of Melbourne.<br>* The Faculty of Engineering's English Language alternative may affect the duration and cost of your course. |
| <b>Core Participation Requirements:</b> | -   |
| <b>Graduate Attributes:</b>             | -   |
| <b>Generic Skills:</b>                  | -   |