

## 213-DT Master of Development Technologies

<b>Year and Campus:</b>	2009																																						
<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>	Graduate/Postgraduate																																						
<b>Duration &amp; Credit Points:</b>																																							
<b>Coordinator:</b>	Dr Lu Aye Department of Civil and Environmental Engineering Tel: +61 3 8344 6879 Email: lua@unimelb.edu.au																																						
<b>Contact:</b>	<p>Course Coordinator Dr Lu Aye E: lua@unimelb.edu.au</p> <p>School of Engineering Rebecca Randall E: r.randall@unimelb.edu.au</p>																																						
<b>Course Overview:</b>	<p>The Graduate Program in Development Technologies is designed in consultation with senior engineering academics in developing countries for engineers and other applied scientists in developing countries.</p> <p>This program is also useful for applicants interested in working in overseas countries.</p> <p>This program is designed for students to acquire skills in the analysis, design and management of engineering systems in developing countries and to gain advanced knowledge in the selection and adaptation of engineering technology for sustainable development.</p>																																						
<b>Objectives:</b>	<p>That a graduate of the program should:</p> <ul style="list-style-type: none"> <li># acquire skills in the analysis, design and management of engineering systems in developing countries;</li> <li># gain advanced knowledge in the selection and adaptation of engineering technology for sustainable economic development.</li> </ul>																																						
<b>Course Structure &amp; Available Subjects:</b>	-																																						
<b>Subject Options:</b>	<p><b>Core Subjects (50 points)</b></p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>421-616 Technology Assessment</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>421-629 Energy Efficiency Technology</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>421-711 Solar Energy</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>421-609 Technology in Society</td> <td>Not offered 2009</td> <td>12.500</td> </tr> </tbody> </table> <p>50 points of subjects chosen from <b>Electives</b> or other subjects approved by the Course Coordinator (not more than 25 points by research)</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>421-505 Engineering Hydraulics</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>421-516 Hydraulics and Hydrology</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>421-519 Design of Environmental Systems</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>421-522 Environmental Engineering Design</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>421-523 Occupational Health and Safety Basics</td> <td>Semester 1, Semester 2</td> <td>12.500</td> </tr> <tr> <td>421-525 Field Data Acquisition and Analysis</td> <td>Semester 1</td> <td>12.500</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	421-616 Technology Assessment	Semester 1	12.500	421-629 Energy Efficiency Technology	Semester 2	12.500	421-711 Solar Energy	Semester 1	12.500	421-609 Technology in Society	Not offered 2009	12.500	Subject	Study Period Commencement:	Credit Points:	421-505 Engineering Hydraulics	Semester 1	12.500	421-516 Hydraulics and Hydrology	Semester 2	12.500	421-519 Design of Environmental Systems	Semester 2	12.500	421-522 Environmental Engineering Design	Semester 2	12.500	421-523 Occupational Health and Safety Basics	Semester 1, Semester 2	12.500	421-525 Field Data Acquisition and Analysis	Semester 1	12.500
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421-539 Geotechnical Applications	Semester 2	12.500
421-580 Hydrological Processes 1	Semester 1	12.500
421-581 Hydrological Processes 2	Semester 1	12.500
421-602 Air Quality Control	Semester 1	12.500
421-604 Environmental Management ISO 14000	Semester 2	12.500
421-605 Managing Water Borne Risks	Semester 2	12.500
421-606 Solid Wastes to Sustainable Resources	Semester 1	12.500
421-626 Design of Energy Systems	Semester 2	12.500
421-627 Sustainable Water Resources Management	Semester 2	12.500
421-640 Water Supply and Waste Water Management	Semester 1	12.500
421-644 Research Project	Semester 1, Semester 2	50.000
421-654 Principles of Asset Management	Semester 1	12.500
421-663 Engineering Project Management	Semester 1	12.500
421-664 Project Delivery	Semester 2	12.500
421-666 Management of Project Resources	Semester 2	12.500
421-667 Project Management Practices	Semester 2	12.500
421-668 Sustainable Irrigation System Management	Not offered 2009	12.500
421-680 Engineering for Sustainable Environments	Summer	12.500
421-681 Management for the Environment	Semester 2	12.500
421-682 Engineering Systems Management	Semester 2	12.500
421-670 Sustainable Buildings	Semester 2	12.500

**Entry Requirements:**

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)

**Language Requirements**

International students and students whose prior qualifications are from a university overseas where English is not the official language of instruction and examination need to supply proof of academic English language competency. Proof acceptable to the University includes:

Original evidence of an English Language test score at a sitting within the last 24 months of either:

**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)

**or**

**IELTS** - at least 6.5. (A minimum band score of 6 is required in the Academic Writing module).

Entry under a slightly lower Engineering alternative\*\* English Language entry requirement is available as follows:

**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

**or**

**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.

	** The Faculty of Engineering's English Language alternative may affect the duration and cost of your program.
<b>Core Participation Requirements:</b>	-
<b>Graduate Attributes:</b>	-
<b>Generic Skills:</b>	-