

## 421-668 Sustainable Irrigation System Management

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| <b>Credit Points:</b>                    | 12.500   |
| <b>Level:</b>                            | Graduate/Postgraduate  |
| <b>Dates &amp; Locations:</b>            | 2008,<br>This subject commences in the following study period/s:<br>Semester 1, - Taught on campus.  |
| <b>Time Commitment:</b>                  | Contact Hours: 36 hours intensive subject held in six 1-day sessions between weeks 1 and 6 of the semester; Non-contact time commitment: 84 hours Total Time Commitment: -   |
| <b>Prerequisites:</b>                    | None   |
| <b>Corequisites:</b>                     | None   |
| <b>Recommended Background Knowledge:</b> | None   |
| <b>Non Allowed Subjects:</b>             | None   |
| <b>Core Participation Requirements:</b>  | -  |
| <b>Coordinator:</b>                      | Hector Malano  |
| <b>Subject Overview:</b>                 | Operation and management of water supply systems, allocation and distribution of water to users; irrigation canal control concepts, automation and modernisation of canal delivery networks. Modelling of irrigation system operation and development of operational plans. Management of irrigation and drainage assets, infrastructure asset management, costing and pricing of irrigation and drainage service. User participation in irrigation operation and management. Management of irrigation provider agencies, strategic planning and customer relations. |
| <b>Assessment:</b>                       | Two assignments of up to 3000 words each (90%) and class presentations (10%).  |
| <b>Prescribed Texts:</b>                 | None   |
| <b>Breadth Options:</b>                  | This subject is not available as a breadth subject.  |
| <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>Generic Skills:</b>                   | On completion, candidates should: <ul style="list-style-type: none"> <li># be able to determine irrigation water demand at farm and system levels</li> <li># have an advanced understanding of canal operation principles and operation</li> <li># be able to formulate operational plans for large irrigation networks</li> <li># be able to determine the cost of irrigation and drainage services and formulate appropriate pricing policy</li> </ul>   |
| <b>Related Course(s):</b>                | Graduate Certificate in Engineering(Water Resources Management)<br>Graduate Diploma in Engineering(Water Resources Management)<br>Master of Development Technologies<br>Master of Energy Studies<br>Master of Engineering Management<br>Master of Engineering Project Management<br>Master of Engineering Science (Engineering Management)<br>Master of Engineering Structures<br>Master of Environmental Engineering<br>Master of Utilities Management<br>Master of Water Resource Management   |