# 615-670 Internet Software Development Principles

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| **Credit Points:** | 12.500 |
| **Level:** | Graduate/Postgraduate |
| **Dates & Locations:** | 2008,<br>This subject commences in the following study period/s:<br>Semester 1, - Taught on campus.<br>Semester 2, - Taught on campus.<br>There will be one three-hour class each week during the 12 teaching weeks of semester. Students are required to attend all classes. Classes consist of lectures and workshop tasks. |
| **Time Commitment:** | Total Time Commitment: Students are expected to devote a total of approximately 8 hours per week to this subject. This means that in addition to the three hours per week in class, students should devote approximately 5 hours each week reading and preparing for presentations and working on the assignments. |
| **Prerequisites:** | (433-520 Programming AND Software Development AND 615-570 Database Systems & Information Modelling and 433-522 Internet Technologies) OR equivalent. |
| **Corequisites:** | None |
| **Recommended Background Knowledge:** | None |
| **Non Allowed Subjects:** | None |
| **Core Participation Requirements:** | It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit. |
| **Coordinator:** | Dr Andrew Lonie |
| **Subject Overview:** | This subject introduces a range of technologies and methodologies in current use in software development targeted to internet applications. Topics include: object modeling, UML and component based software engineering, and sufficient exposure to enable the student to understand, with a reasonable degree of sophistication, terms such as .NET, .COM, DNA, ASP, SOAP and others in common use.<br><br>The emphasis will be on design principles and developing an understanding of the architectures and technologies as applied in common business contexts. By the end of the course students should:<br># Understand the issues involved in the architecture and design of complex inter- and intra-organisational systems;<br># Develop the skills to produce high-level models and designs for complex distributed systems<br># Gain exposure to modern application development frameworks such as .NET and J2EE<br># Understand the rationale behind emerging distributed systems technologies such as J2EE, XML, Web Services and.NET and assemble small prototype systems using these technologies |
| **Assessment:** | Two individual written assignments (10% each) totalling no more than 2000 words each, due in weeks 4 and 8 respectively; one team design and implementation assignment due in week 12 (20%); a 2-hour written examination in the examination period (60%). Further details will be made available to students prior to the commencement of the subject. |
| **Prescribed Texts:** | There are no prescribed texts for this subject. |
| **Breadth Options:** | This subject is not available as a breadth subject. |

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| **Fees Information:** | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees |
| **Generic Skills:** | Generic Skills<br>Students should develop skills in reading and communicating results found in the related research literature, and enhance independent learning skills. |
| **Notes:** | Student Feedback<br>We welcome your comments about this subject - things you liked and things you think we could improve on. You can provide this feedback in several ways:<br># speaking directly to the lecturer<br># speaking to your student representative or the MIS/MIT Program Director<br># completing the Quality of Teaching survey administered towards the end of each subject<br>The feedback provided by students in these ways will be communicated to lecturers and taken into account in subject planning and staff training. |
| **Related Course(s):** | Master of Information Technology<br>Master of Information Technology |