# 615-672 Pervasive Computing

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| **Credit Points:** | 12.50 |
| **Level:** | 9 (Graduate/Postgraduate) |
| **Dates & Locations:** | 2009,<br>This subject commences in the following study period/s:<br>Semester 1, - Taught on campus. |
| **Time Commitment:** | Total Time Commitment: Not available |
| **Prerequisites:** | Students who are enrolled in the two year 200 point Master of Information Systems must have completed 50 points of study to enrol in this subject. |
| **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 Frank Vetere |
| **Subject Overview:** | Pervasive computing describes access to information using new communications and networking technologies. The technology implies computing power, freed from the desktop, extended to wireless handheld devices, home appliances, and commercial tools-of-the-trade.<br>Pervasive computing solutions must support much more than just the devices and the embedded technology: businesses and service providers are further challenged to develop software solutions that manage the complex, flexible infrastructure and the mobility of those who use these devices; information architectures and system designs must flexibly support changing interaction models and user interface technologies.<br>Pervasive computing helps to bring about changes in lifestyle as new applications and services become available to business and consumers. Pervasive computing also places particular demands on information systems designs in dealing with complex security and privacy considerations.<br>The pervasive presence of portable devices and wireless networks results an environment that is crowded, heterogeneous, and always changing. To succeed without distracting the user, pervasive computing applications must be aware of the context in which they execute, and adapt in ways appropriate to user needs, as that context changes. |
| **Objectives:** | In this subject students will be introduced to technical, organisational, and user-oriented issues associated with the development and deployment of these emerging technologies. |
| **Assessment:** | Two written assignments of 1700 words each due in the first half of semester (25% each); a project involving an individual written assignment of 1700 words due in the first half of semester (25%), one group written assignment of 1000 words (15%) due second half of semester and a 10-20 minute oral presentation due end of semester (10%). |
| **Prescribed Texts:** | None |
| **Breadth Options:** | This subject is not available as a breadth subject. |
| **Fees Information:** | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees |

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| **Generic Skills:** | Through their studies in this subject, students will: enhance their analytical skills through examination of case scenarios and study of published research papers; and broaden their exposure to modern computing technologies. |
| **Links to further information:** | http://www.dis.unimelb.edu.au/current/postgrad/subjects/index.html |
| **Related Course(s):** | Master of Business Administration/Master of Information Systems<br>Master of Information Systems<br>Master of Information Systems<br>Master of Information Systems (Coursework)<br>Master of Information Systems/Postgraduate Diploma in Management<br>Master of Information Technology |
| **Related Majors/Minors/ Specialisations:** | R05 RI Master of Science - Information Systems |