

ABPL90331 ICT in Building

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	This subject is not offered in 2014. This subject runs on a biennial basis in semester 2, in even years e.g. 2014, 2016.
Time Commitment:	Contact Hours: 3 hours per week Total Time Commitment: 120 hours
Prerequisites:	Admission to the following Melbourne School of Design programs: MC-ARCH2Y Master of Architecture (200 points) MC-ARCH3Y Master of Architecture (300 points) MC-LARCH2Y Master of Landscape Architecture (200 points) MC-LARCH3Y Master of Landscape Architecture (300 points) MC-CONMG2Y Master of Construction Management (200 points) MC-CONMG3Y Master of Construction Management (300 points) MC-PROP2Y Master of Property (200 points) MC-PROP3Y Master of Property (300 points) MC-URPL Master of Urban Planning 234AA Master of Design 234AH Master of Design (Heritage) 373AA Graduate Diploma in Planning and Design Or approval from the subject coordinator.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p>
Contact:	Environments and Design Student Centre Ground Floor, Baldwin Spencer (building 113) <i>Enquiries</i> Phone: 13 MELB (13 6352) Web: http://edsc.unimelb.edu.au/ (http://edsc.unimelb.edu.au/) Email: edsc-enquiries@unimelb.edu.au (mailto:edsc-enquiries@unimelb.edu.au)
Subject Overview:	This subject explores the use of information and communication technologies from design to construction, to the post-delivery life cycle of buildings. The subject follows three overlapping themes: (i) historical overview of informatisation in the building industry, including the opportunities and constraints that follow these developments; (ii) discussion of contemporary issues in the delivery of building projects and potential solutions offered by ICT; and (iii) exposure to selected ICT methodologies and tools such as building information modeling and integrated project delivery solutions. The subject is organised as an advanced seminar supplemented with hands-on workshops in use of specific ICT solutions.
Learning Outcomes:	<ul style="list-style-type: none"> # To understand and respond to the changing operating context of building industry. # To critically assess and adopt ICT-based solutions in building life cycle. # To cultivate deeper understanding about pressures to change, possible responses and future scenarios in construction.

	# To gain exposure to global trends in project design to delivery using ICT-based approaches.
Assessment:	Class participation (10%), through comments and remarks displaying understanding of the information required to inform project participants of their roles in a given project, and the ways to accomplish its production. Professional report equivalent to 3500 words (60%) due in week 10, focusing on effective ways of structuring communication in a building project by using information technologies. Class presentation of 25 minutes (30%) held in week 12, demonstrating one's ability to synthesise the complex information required to plan, organise, lead and control a construction project.
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
Generic Skills:	At the completion of the subject students should have developed the following skills and capabilities: <ul style="list-style-type: none"> # Ability to contextualise present conditions and frame future responses. # Ability to assess and identify organisational and cultural changes. # Ability to synthesise scholarly arguments and technical solutions. # Ability to articulate and present arguments in presentations and scholarly reports.
Related Majors/Minors/Specialisations:	Building Corporate Management Cost Management Melbourne School of Design multidisciplinary elective subjects Policy Project Management Research and Development