

ABPL30040 Measurement of Building Works

Credit Points:	12.50									
Level:	3 (Undergraduate)									
Dates & Locations:	2011, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.									
Time Commitment:	Contact Hours: 1x2 hour lecture per week; 1x2 hour tutorial per week Total Time Commitment: 120 hours									
Prerequisites:	The subject 702-252 (ABPL20041) The Construction Context may be taken concurrently with this subject. <table border="1" data-bbox="387 577 1485 779"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ABPL20042 Residential Construction and Structures</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>ABPL20041 The Construction Context</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	ABPL20042 Residential Construction and Structures	Semester 2	12.50	ABPL20041 The Construction Context	Semester 1	12.50
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ABPL20042 Residential Construction and Structures	Semester 2	12.50								
ABPL20041 The Construction Context	Semester 1	12.50								
Corequisites:	None specified									
Recommended Background Knowledge:	None specified									
Non Allowed Subjects:	None specified									
Core Participation Requirements:	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/									
Coordinator:	Dr Ajibade Aibinu									
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Subject Overview:	This subject aims to give students the knowledge of the processes involved in establishing and maintaining client's budget at the design stage. It provides students with skills needed to effectively monitor the budget for a simple building project on a regular basis during the design stage by cost planning of evolving design, and preparing cost estimate at detailed design and tender documentation stage. Topics covered include Design Economics; Cost planning and control in building design: cost estimating procedure and simple cost modeling techniques. Quantification, measurement, and documentation including the following aspects: purpose and preparation of BoQ; Processes of preparing BoQ including: taking-off, working-up, abstracting and billing; types of bill formats and their uses; basic principles of measurement and description of works: the use of Standard Method of Measurement (SMM) for construction works in practice, principles of measurement and description of the following: substructure (ordinary strip foundation on flat sites – linear) and superstructure (walls and partitions including cladding; floors in timber and concrete, simple flat concrete roof, simple pitched timber roof, Roofing, finishes). Concept of BoQ estimating, pricing of items and building-up of rates for work items. Introduction to computerized measurement. Tender process.									
Objectives:	Upon completion of this subject students should: <ul style="list-style-type: none"> # understand cost forecasting methods at pre construction stage; # understand procurement systems and the relationship between various parties involved in the building procurement process; # understand the role of cost management of building works; # know how to apply Australian Standard Method of Measurement to simple buildings; # price measured building work items; 									

	# understand the theory and practice of competitive tendering.
Assessment:	Practical exercises and Assignments (40%).3 hour exam (60%).Students are required to achieve a mark of at least 40% in the exam in order to pass the subject.Attendance and participation in 80% of the tutorials is a mandatory requirement for passing the continuous assessment component of this subject.
Prescribed Texts:	Picken, D.(1999) Building Measurement: Worked examples, Deakin University Press, Geelong.AIQS et al (1990). Australian Standard Method of Measurement. AIQS & MB-CHAA.Smith, J. and Jaggar, D.(2007) Building Cost Planning for the Design Team, 2nd edition, Butterworth-Heinemann, Australia.Marsden, P. (1998) Basic Building Measurement, NSW University Press, N.S.W.
Recommended Texts:	<ul style="list-style-type: none"> # Willis, C.J., Willis, A. Trench, W. and Lee, S. (2005) Willis's Elements of Quantity Surveying, 10th edition, Blackwell Publishing # Seeley, I.H. and Winfield, R (1999) Building Quantities Explained, The MacMillan Press. # Rawlinsons (Annual), Rawlinsons Australian Construction Handbook, Rawlhouse Publishing, Perth, W.A.
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2011/B-ARTS) # Bachelor of Biomedicine (https://handbook.unimelb.edu.au/view/2011/B-BMED) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2011/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2011/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2011/B-MUS) # Bachelor of Science (https://handbook.unimelb.edu.au/view/2011/B-SCI) # Bachelor of Engineering (https://handbook.unimelb.edu.au/view/2011/B-ENG) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>At the completion of the subject students should have developed the following skills and capabilities:</p> <ul style="list-style-type: none"> # understanding of the roles and responsibilities of quantity surveyors in the construction industry; # develop and apply knowledge of approximate estimating; # understanding of the cost significance of building elements; # understanding of construction documentation used in residential construction; # know how to apply Australian Standard Method of Measurement to quantification and measurement of simple buildings; # effective participation as a team member.
Notes:	Students undertaking this subject will be expected to regularly access the internet-enabled computer (in particular the University's Learning Management System - LMS) for access to information and for online discussion and communication with their tutors and their peers.
Related Majors/Minors/Specialisations:	Construction
Related Breadth Track(s):	Construction