ABPL90323 Construction Scheduling

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2014, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 3 hours per week Total Time Commitment: 120 hours
Prerequisites:	Admission to MC-CONMG2Y Master of Construction Management (200 points), MC-CONMG3Y Master of Construction Management (300 points), or approval from the subject coordinator.
Corequisites:	None
Recommended Background Knowledge:	This subject assumes knowledge of building processes, work breakdown structures and manual scheduling techniques. Subjects such as ABPL90025 Project Management in Practice would be beneficial to undertake before enrolling in this subject.
Non Allowed Subjects:	None
Core Participation Requirements:	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. 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
Coordinator:	Dr Hemanta Doloi
Contact:	**Environments and Design Student Centre** Ground Floor, Baldwin Spencer (building 113) *Enquiries* 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:	Through an introduction to details of construction scheduling techniques and use of professional scheduling tools, this subject articulates the clear processes of logical development of time program for construction activities in projects. Real-life case projects are used for students to explore the concepts of activity definition, activity sequencing, resource allocation and resource leveling in the time schedule development process. Organised as a working seminar, the subject exposes students to clear visualisation of the construction processes and logical placement of construction activities whilst enabling them to understand underlying constraints in the schedule development context.
Learning Outcomes:	# To teach students how to optimise construction time in a range of residential and commercial projects; # To provide a framework for evaluating alternative construction methods and implications in schedule; # To optimise the use of resources such as people, materials, equipment, and capital; # To provide the early warning of potential problems and set priorities; and # To develop skills and training on professional scheduling tools such as MS Project and Primavera.

Assessment:	Class participation (10%), demonstrating active involvement in a range of class activities and peer discussions. Two group assignments equivalent to a total of 4000 words (60%) due in week 6 and 10, demonstrating a high level of technical understanding of sequencing construction processes, resource allocation and resource levelling in construction activities and development of a feasible construction schedule for effective delivery of projects. Individual reflective assignment equivalent to 1000 words (30%) due in week 12, demonstrating the conceptual understanding of construction scheduling and ability to apply knowledge across a range of scenarios in residential and commercial building projects.
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: # Ability to visualise constructability issues; # Ability to map or imagine construction processes in the context of timely project completion; # Ability to examine alternative construction methods and the results of ripple effects; # Ability to appreciate the effectiveness of construction schedule in overall time control in projects.
Related Majors/Minors/ Specialisations:	Building Building Systems and Trade Specialties Cost Management Melbourne School of Design multidisciplinary elective subjects Project Management