

3 Teaching and Learning Activities

Weeks	Lecture	Tutorial	Independent	Assessments Due
Week 1 05-03-2018	1-hour lecture: Introduction to the unit and Grouping	No tutorial scheduled	Students are expected to read Lecture note in vUWS	
Week 2 12-03-2018	1-hour lecture: The concept of planning and Bar/Gantt Charts	2-hour tutorial: Introduction to assessments and grouping	Students are expected to read Lecture note in vUWS	
Week 3 19-03-2018	1-hour lecture: Critical Path Method - Arrow diagrams	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	
Week 4 26-03-2018	1-hour lecture: Critical Path Method - Precedence diagrams	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	
Week 5 02-04-2018	1-hour lecture: Overlapping network models	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	
Week 6 09-04-2018	1-hour lecture: Resources management - limits, resource aggregation and levelling	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	
Week 7 16-04-2018	1-hour lecture: Critical path scheduling by computer	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	
Week 8 23-04-2018	1-hour lecture: Project control	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	- Online Quiz
Week 9 30-04-2018				
Week 10 07-05-2018	1-hour lecture: Chain scheduling, multiple activity and line of balance	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	
Week 11 14-05-2018	1-hour lecture: Work study	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	
Week 12 21-05-2018	1-hour lecture: Risk and scheduling	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	
Week 13 28-05-2018	1-hour lecture: Program evaluation and review technique (PERT)	2-hour tutorial: scheduling exercises	Students are expected to read Lecture note in vUWS	- Planning Report
Week 14 04-06-2018	1-hour lecture: Revision week in preparation for examination (including time allowance to undertake student feedback survey)	2-hour tutorial: Q&A	Students are expected to read Lecture note in vUWS	
Week 15 11-06-2018				
Week 16 18-06-2018				
Week 17 25-06-2018				- Final Exam

The above timetable should be used as a guide only, as it is subject to change. Students will be advised of any changes as they become known.

- Programming is identifying activities, establishing relationships, developing logical sequences
- Scheduling is the process of quantifying the program, concerning with sequencing and timing
- Work breakdown structure (WBS) is a deliverable-oriented **hierarchical decomposition of the work** to be executed by the project team, to accomplish the project objectives and create the required deliverables, with **each descending level** representing **an increasingly detailed** definition of the project work
 - it organizes and defines the total scope of the project
- Types of schedules:
 - Time schedule
 - Production process, duration of activities
 - Resource schedule
 - Cost, availability of resources
 - Target schedule
 - Quantifying the program
- Aim for resource-based, target-based scheduling to provide the most realistic scheduling tool
- Conceptual stage
 - Strategic planning: project development/construction strategy
 - Overall project schedule: time schedule
 - Detailed schedule for managing conceptual stage: medium-term
- Design stage
 - Design management plan
 - Medium-term schedule of design activities
 - Short-term schedule of weekly design tasks