

School of Civil and Environmental Engineering Term3, 2020

CVEI3101 ENGINEERINO PERATION SND **CONTROL**

COURSE DETAILS				
Units of Credit	6			
Contact hours	6 hours per week			
Lecture	Mondays	11:00 ±13:00	Online	
	Tuesdays	12:00 ±14:00	Online	
: RUNVKRSV	Tuesdays	14:00 ±16:00	Online	
	Tuesdays	14:00 ±16:00	Online	
	Tuesdays	14:00 ±16:00	Online	
	Tuesdays	14:00 ±16:00	Online	
	Tuesdays	16:00 ±18:00	Online	
	Tuesdays	16:00 ±18:00	Online	
	Tuesdays	16:00 ±18:00	Online	
	Wednesdays	14:00 ±16:00	Online	
	Wednesdays	14:00 ±16:00	Online	
	Wednesdays	14:00 ±16:00	Online	
	Wednesdays	14:00 ±16:00	Online	
	Wednesdays	16:00 ±18:00	Online	
	Wednesdays	16:00 ±18:00	Online	
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Lecturer

Dr. Johnson Shen

Professor David Carmichael

Mr. Robert Holdom

INFORMATION ABOUT THE COURSE

This course is an introduction to general principles of construction organisation and control of engineering operations. It starts by looking at cost estimation, safety issues, and quality management in construction projects. This course also addresses project management concepts including PMBOK review, management tools, project scheduling and resource planning. Additional issues considered in the course include important economic and financial issues. Finally, the course covers engineering ethic and its principles in construction industry.

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Lea	arning Outcome	EA Stage 1 Competencies
1.	Become familiar with definitions of engineering and management work	PE1.3, PE1.5, PE2.1, PE2.2
2.	Understand and use project management tools such as: Gantt chart and CPM charts	PE1.1, PE1.3, PE2.4, PE3.4
3.	Appreciate the key aspects in construction operations including time, cost, safety, ethic, and quality	PE1.2, PE2.3, PE2.4, PE3.4
4.	Understand the elements of economics and risk management	PE1.3, PE1.6, PE2.3, PE3.4
5.	Identify and explain key theories and concepts of project planning	PE1.1, PE1.3, PE2.1, PE2.4

For each hour of contact it is expected that you will put in at least 1.5 hours of private study.

COURSE PROGRAM

Term 3 2020

Date	Topic and Lecture Content	Demonstration Content	Lecturer	Assessment Due
14/09/2020	Course Introduction/ Cost	,	,	, ,
(Week 1)	Estimation 1			

1.

Appendix A: Engineers Australia (EA) Competencies Stage 1 Competencies for Professional Engineers