



Presentation of ILI Project

Never Stand Still

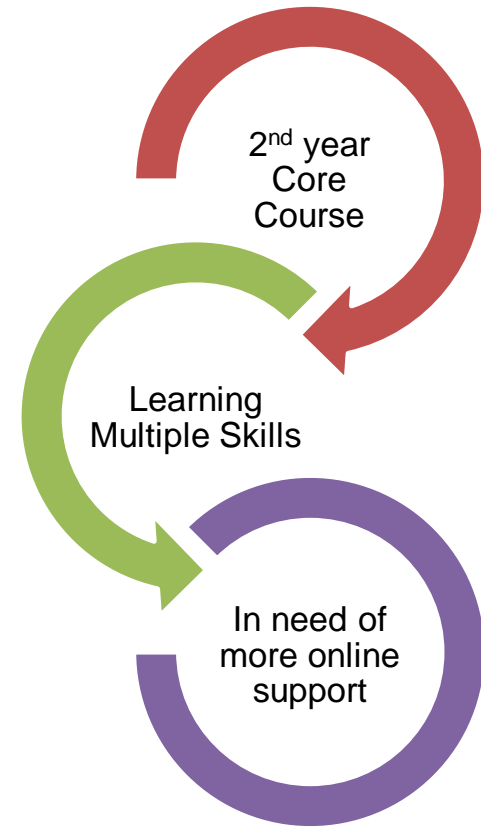
Built Environment

BLDG2023-Construction Planning S1 2018

Dr. Cynthia Wang

Course Background

- BLDG2023 is a 2nd year Core Course in the UG program of the Bachelor of Construction Management and Property
- Involve learning multiple skills :
 - Understanding theory
 - **Calculation and Analysis using various scheduling techniques.**
 - Learning commercial software in construction scheduling and planning
 - Problem solving and communication skills in producing comprehensive planning documents
- **Traditional lecture-based teaching method is not very effective. Students' feedback indicates more online support and individual help.**



OLD vs. NEW Course Design

Knowledge/Skills Covered by the Course	OLD teaching/learning method	Improvement during ILI Project
1. Understanding theory	Textbook, lecture	Online reading material – link to eTextbook, online quiz
2. Conduct calculations	Textbook, Lecture, Tutorial	Pre-recorded videos to teach calculations, Online tutorial video, Online interactive questions, online quiz
3. Learning to use commercial software	Compulsory computer lab sessions	Unchanged.
4. Problem solving and communication skills in producing planning documents	Specified in the group assignment brief, students complete after class.	Dedicated in-class sessions to support group discussion and answer questions. Students' online peer assessment.

Major Tasks Completed in the ILI Project

Moved 4 Weeks' content to Online Teaching

Uplifted all lecture slides and other course materials

Created over 10 video lectures

Created 4 online interactive questions

Created online question bank with over 400 questions



Sample online quiz questions

Question 2

Correct

Mark 1.00 out of 1.00



[Edit question](#)

A forward pass calculates ____ and ____ of activities by working through a schedule from its ____ to its ____.

Select one:

- a. LSD / LFD / START / FINISH
- b. LSD / LFD / FINISH / START
- c. ESD / EFD / FINISH / START
- d. ESD / EFD / START / FINISH ✓

The correct answer is: ESD / EFD / START / FINISH

Question 8

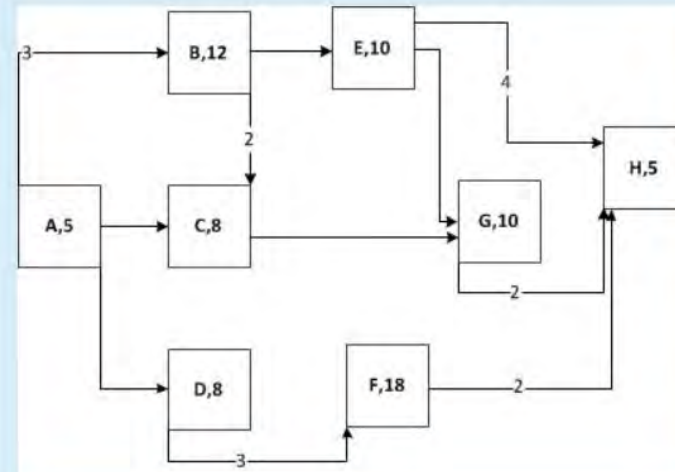
Correct

Mark 1.00 out of 1.00



[Edit question](#)

Consider the network below. Activity durations are given in nodes. answer the following questions.



what is latest start date (LSD) of activity D?

Select one:

- a. 9
- b. 5
- c. 6 ✓
- d. 8

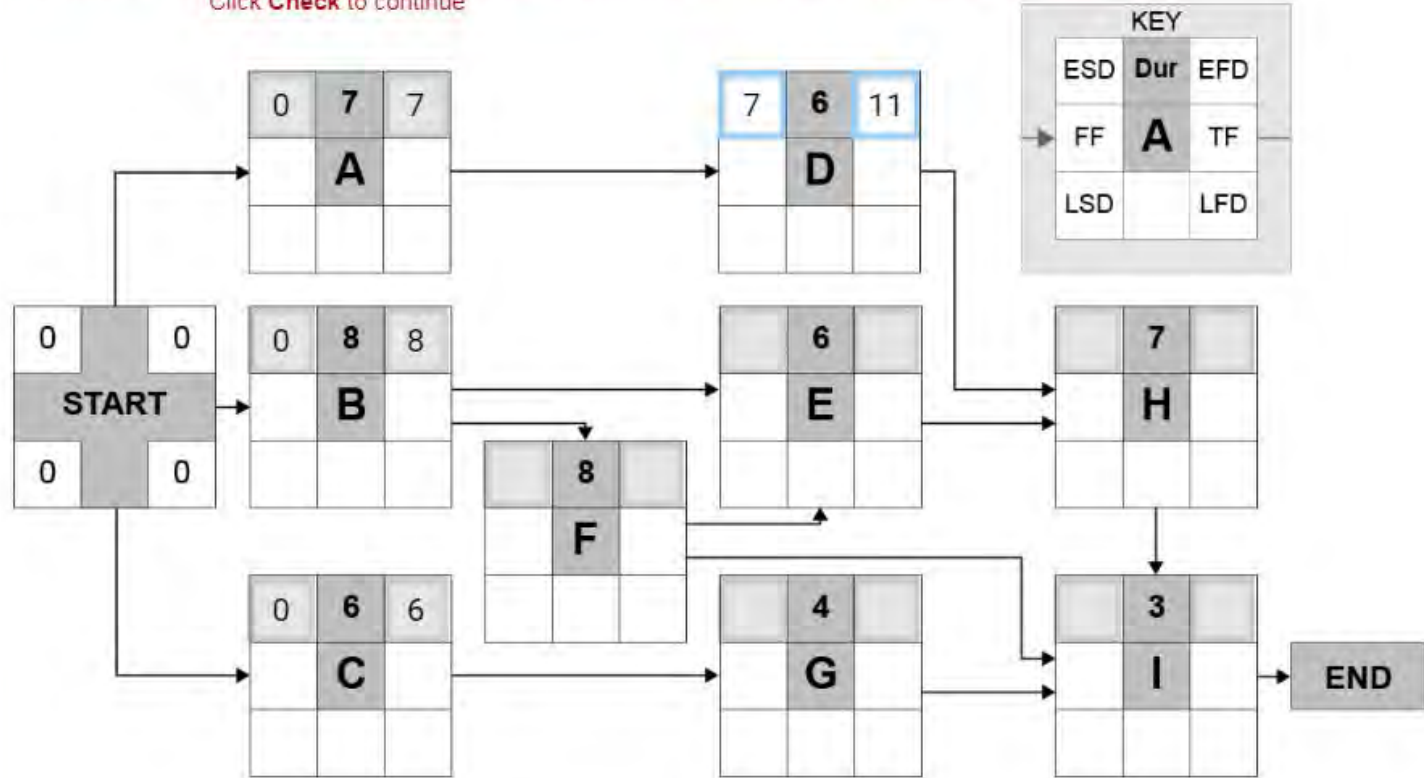


Online Interactive Question

Critical Path Method (CPM)

Forward Pass (Activity A to I)

Instructions: Complete the **Earliest Start Date (ESD)** and **Earliest Finish Date (EFD)** for Activity D
Click **Check** to continue




KEY		
ESD	Dur	EFD
FF	A	TF
LSD		LFD


Incorrect. Please try again.
Hint
Only one preceding activity A:
 $ESD = EFD(A) = 7$
 $EFD = ESD + Duration(D) = 7 + 6 = 13$
EFD is incorrect.

Produced video clips (Welcome video)

Welcome to the Course



 Subtitles (Closed Captions) available

 Full screen available

[Video Transcript \(PDF\)](#)  

Last modified: Monday, 27 November 2017, 10:04 AM

Turn Theatre Display On



UNSW
AUSTRALIA

Produced video clips



Line Of Balance – Calculation for Producing the Graph

Cynthia Wang
Faculty of the Built Environment

UNSW

Feedback from Students

Feedback - CPM Week

Overview Edit questions Templates Analysis Show responses

Anonymous entries (7)

Download table data as Comma separated values (.csv) **Download**

Response number	Relevance of the video content (theory and examples)	Would you recommend the interactive exercises to your peers as something that would help their grasp of the calculation?	Quality of the additional resources available for your learning	Overall, this week's online learning was beneficial to my understanding of the content.	What other type of resources or support, would have assisted your learning for this week's content?
Response number: 1	Satisfied	Highly recommend	Very satisfied	Very satisfied	More interactive questions as well as more practice questions like the textbook chapters would help clarify some areas. Sometimes whilst watching the lecture calculation examples online it was made over complicated and confusing. It was not until I asked another friend to help explain FF and TF calculations and when I did the interactive question which I actually understood the concept.
Response number: 2	Very satisfied	Highly recommend	Satisfied	Very satisfied	i love online video! i can watch again and again to understand CPM
Response number: 3	Satisfied	Highly recommend	Neutral	Satisfied	the exercises are good. but the reading textbook and the slides does not provide you the exact understanding to answer critical and tricky question, but overall you get the idea of the CPM concept.
Response number: 4	Very satisfied	Highly recommend	Neutral	Very satisfied	better layout for calc..
Response number: 5	Very satisfied	Recommend	Very satisfied	Very satisfied	more examples and theory notes

Feedback from Students

Feedback - ONM Week

Overview Edit questions Templates Analysis Show responses

Anonymous entries (6)

Download table data as Comma separated values (.csv) **Download**

Response number	Relevance of the video content (theory and examples)	Would you recommend the interactive exercises to your peers as something that would help their grasp of the calculation?	Quality of the additional resources available for your learning	Overall, this week's online learning was beneficial to my understanding of the content.	What other type of resources or support, would have assisted your learning for this week's content?
Response number: 1	Neutral	Highly recommend	Satisfied	Satisfied	more interactive
Response number: 2	Very satisfied	Highly recommend	Very satisfied	Very satisfied	need more exercises for conceptual questions and calculation
Response number: 3	Very satisfied	Recommend	Satisfied	Satisfied	nothing
Response number: 4	Very satisfied	Highly recommend	Very satisfied	Satisfied	I feel that the differences between lag and lead time should be mentioned in the video.
Response number: 5	Neutral	Recommend	Dissatisfied	Satisfied	the start-to-finish made no sense at all in the exercise and quiz. the resources for that part was not as clear as the others. But in general a good way to learn
Response number: 6	Satisfied	Highly recommend	Satisfied	Satisfied	More examples are the only improvements I could suggest.

The End

