



Dept. of Civil Eng.
Faculty of Engineering
Assiut University
2nd Semester – Evaluation
2019/2020 - June 2020

Civil Eng. Program
Using Primavera in CPM
(CPM3007)
3rd year – bylaw: 2016
Course Evaluation
Marks: 100



	اسم الطالب
	الرقم الأكاديمي
موضوعات خاصة فى الهندسة الإنشائية	اسم المقرر
الثالث	المستوى
مشروع بحثي لمجموعة أنشطة وتحليل بياناتها	عنوان البحث المرجعي

التوقيع	الدرجة	رقم المطلوب
		المطلوب الأول <u>30</u> درجة
		المطلوب الثاني <u>40</u> درجة
		المطلوب الثالث <u>20</u> درجة
		المطلوب الرابع <u>10</u> درجة
		المجموع

توقيع لجنة الامتحان

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Problem:

* In light of the attached data, Find the Following Requirements: Using Primavera P6

- 1 Finish Date of the Project. (30 marks)
- 2 All activities in the project (ID, Name, Start, Finish, Budget Cost & Total Float). (40 marks)
- 3 Critical Path. (20 marks)
- 4 Activity Usage Profile (Cash Flow). (10 marks)

Data to use:

- Estimated start date for the project is 01-Sep-2020
- All Durations are in days
- Calendars 1 & 2 are attached
- (If any Holiday meets a weekend shift 1 day after)

Activity List:

Activity Name	Optimistic Duration	Normal Duration	Pismistic Duration	Pred. Activity(ies)	Relation type	Calendar	Constrain	Cost/day (EGP)
A	2	3	5	Start	SS	1	N/A	10000
B	14	24	35	Start	SS	1	N/A	2000
C	4	6	10	A	FS+3	1	N/A	8000
D	12	20	30	B	FS	1	N/A	2000
E	9	15	23	C	FS	1	N/A	4000
F	7	11	18	D	FS-1	2	N/A	4000
G	15	25	38	E	FS	2	N/A	4000
H	8	13	20	F	FS	2	As Late As Possible	2000
				B	FS			
J	5	8	13	C	FS+4	1	As Late As Possible	4000
				G	SS+5			
K	11	18	28	E	FS	1	N/A	6000
L	1	1	3	B		2	N/A	1000
M	16	27	40	D	FS+6	2	As Late As Possible	3000
				L	FF			
N	10	17	25	G	FS	1	N/A	8000
O	3	4	8	K	FS	1	N/A	7000
P	13	22	33	K	FS	2	As Late As Possible	20000
				M	FS			
Q	6	10	15	P	FF	1	N/A	5000
				N	FF+2			

Calendar.1:

Week start on Sunday			
5-day-working			
Following are Holidays (Day-off):			
21-Aug	06-Oct	25-Dec	07-Jan
14-Sep	21-Nov	11-Dec	25-Jan
10-Sep-2020 to 15-Sep-2020			
25-Jun-2021 to 30-Jun-2021			
30-Aug-2021 to 04-Aug-2021			

Calendar.2:

Week start on Saturday			
6-day-working			
Following are Holidays (Day-off):			
21-Sep	06-Oct	25-Dec	07-Jan
03-Feb	21-Nov	11-Dec	25-Jan
10-Sep-2020 to 15-Sep-2020			
25-Jun-2021 to 30-Jun-2021			
30-Aug-2021 to 04-Aug-2021			



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Answer:

- Calculation of Original Duration to be used in Primavera:
Using point estimate or PERT, **always round numbers up**

Duration of

A:

J:

B:

K:

C:

L:

D:

M:

E:

N:

F:

O:

G:

P:

H:

Q:

Good Luck



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Requirement (1): Finish Date of Project

- Finish Date of Project in DD-MMM-YY format:

Good Luck



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Requirement (2): All Activities Layout

Good Luck



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Requirement (3): Critical Path Layout

Good Luck



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Requirement (4): Activity Usage Profile (Cash Flow)

Good Luck