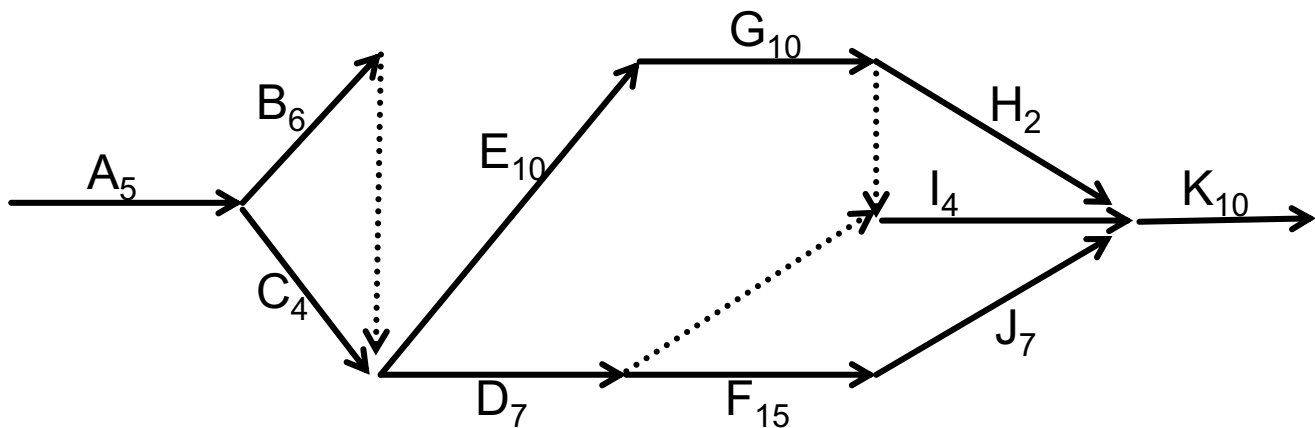


Problem Sheet 8

1. Consider the Activities on Arrows diagram below:



- Do a forward and backward pass to find the critical path.
- Draw the corresponding Activities on Nodes diagram.
- Give the float for each activity.

2. Consider the following project:

Activity	Duration	Prerequisites
A	1	-
B	1	-
C	3	-
D	2	A, B
E	3	C
F	4	C
G	12	A
H	1	D, E, F
I	2	F

- Draw the Activities on Nodes diagram and find the critical path.
- Draw the Activities on Arrows diagram and find the critical path.
- Draw a Gantt chart for the project.

3. Consider the project below:

Task	Prerequisites	Duration	Crash Time	Crash Cost
A	-	8	5	£30
B	-	6	2	£200
C	A, B	2	1	£15
D	C	4	2	£60
E	C	5	1	£100
F	D, E	1	-	-

By drawing activities on arrows diagrams, find the least cost method of reducing the overall project duration to 11 time units.