16CSCI08I
Software Project Management

Lab (8)

Risk Planning

PERT Equation

Exercises:

1.

Activity	a Optimistic	m Most Likely	b Pessimistic	Te Expected Time	s Standard Deviation
A	17	29	47		
B	6	12	24		
C	16	19	28		
D	13	16	19		
E	2	5	14		
F	2	5	8		

$Te = (a + 4m + b)/6$ $s = (b-a)/6$

- Determine the expected time for each task.
- Calculate the standard deviation for each task.
- Which task is the most risky task?
- Which task is the less risky task?

2.

Activity	a Optimistic	m Most Likely	b Pessimistic	Te Expected Time	s Standard Deviation
A	3	4	6		
B	2	3	4		
C	3	3	5		
D	2	2	2		
E	4	6	11		
F	1	1	2		
G	4	4	4		
F	3	5	8		
J	3	6	10		
K	1	1	2		

$Te = (a + 4m + b)/6$ $s = (b-a)/6$

- Determine the expected time for each task.
- Calculate the standard deviation for each task.
- Arrange the tasks from the most risky to the less risky depending on their standard deviation.