Tutorial 4

A project has to undertake the following work, separated into modules. Each module records the minimum elapsed time in months, effort in person months and other modules that it depends on. You are required to complete the project as fast as possible. You should also try to maintain a stable team size, as far as that is possible, so that you do not keep adding members to the team and then removing them. Draw PERT and Gantt chart to show how you plan to schedule the work. Add useful milestones to the Gantt chart. Draw an Earned Value chart showing the planned effort as a function of time. Use a forward and a backward pass to construct the PERT chart.

Number	Name	Elapsed	Effort	Depends on
1	Requirements Gathering	2	3	
2	Prototyping	1	3	
3	Specification	0.5	1.5	1, 2
4	Design	2	6	3
5	Test Plan	1.5	2	3
6	Implement User Interface	1	2	4
7	Implement Netwo		4	4
8	Implement Func		4	4
9	Test UI	0.5	1	5, 6
10	Test Network layer	1	1	5, 7
11	Test Functional layer	1	2	5, 8
12	Integration Testing		1.5	9, 10, 11
13	Acceptance Test	0.5	1	12