

CS587- Software Project Management

Assignment #3

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7. What is the earliest finish date for this project if it is scheduled to start on 10/23/17 ?

If the project is scheduled to start by 10/23/2017 then the earliest finish date for this project with the shared resources will be 05/08/2018.

The total duration of the project is 141.61 days.

8. Can this project be completed 2 Months after its start date? Explain why Yes or No

No! It is not feasible to complete this project (Assignment #3) within 2 months from its start date of 10/23/2017. This is because we have used the resources effectively to find the early finish date for the assignments #1 and #2.

The best possible finish date of Assignment #3 is acquired by allocating feasible amount of resources remaining from Assignment #1 and Assignment #2 along with the resources provided exclusively for the Assignment #3. However, it could be feasible to complete the Assignment #3 more faster within the 2 Months span from its start date, if more resources are provided and make them assigned to the tasks in Assignment#3.

9. Submit your Comments regarding the start and completion dates and resources assignments for the two projects in a PDF document called Analysis.pdf.

Project 1:

Start Date : 09/25/2017

Finish Date : 02/28/2018

Duration : 112.17 Days

Resources : Used maximum resources where ever possible to complete the project as early as possible

Project 2:

Start Date : 10/13/2017

Finish Date : 03/22/2018

Duration : 114.08 Days

Resources : Used maximum resources where ever possible to complete the project as early as possible

Project 3:

Start Date : 10/23/2017

Finish Date : 05/08/2018

Duration : 141.61 Days

Resources : Used maximum resources where ever possible to complete the project as early as possible

Document and Comment on WBS

WBS- Work Breakdown Structure is a hierarchical structure of all the process/ activities/ tasks in the project represented in terms of numeric numbers(codes). It decomposes the project into parts in a hierarchical nature. Usually it represents all the sub tasks under the main task where in the main tasks are listed under the project.

Document and Comment on Network Diagrams

This is a graphical representation of all the tasks/process/activities, dependencies and the critical path of the entire project in a sequential manner. The network diagram comprises of

Boxes/Nodes - Represents Tasks

Lines - Represents Dependencies between boxes by connecting them

Document and Comment on the Resource Pool Utilization

Resource Pool is a set of resources which can be used/assigned to complete the project tasks. The interesting part is that the resource pool can be assigned exclusively to a project or task or shared between multiple projects for better utilization of resources. We must be careful in keeping track of allocated resources between single or multiple projects to avoid time conflicts. The resources can be utilized from 1% to 100% depending upon the project need. We must avoid over allocation of resources (More than 100%).

Assumptions:

The Estimation Baseline (Part I) is being calculated using the steps provided in Tutorial #5 and values are mentioned in the document "Assignment#3EstimationBaseline.PDF". With the help of these values the creation of Project plan for Part II is carried out.

The resources are used for all the 3 projects(3 assignments) and the free resources are used from Assignment #1 and Assignment #2 along with the newly provided resources from Assignment #3 for completing this project #3 (assignment #3).

I have used "Pool takes precedence" option while sharing the resources and during the time conflicts between the Assignment #1, Assignment #2 and Assignment #3 I have used "Solving conflict using Strategy #2- Levelling Resources" mentioned in the "Tutorial #4".