

LAB RECORD
SOFTWARE PROJECT MANAGEMENT
[CSE-432]

Amity University Uttar Pradesh



Submitted to
Dr. Roshan Lal Chokar

Submitted by
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Class & Sec: 7CSE 1X
Enrollment number: A2305219837

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY
AMITY UNIVERSITY UTTAR PRADESH
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INDEX

Exp.No	Name of Experiment	Date of Allotment	Date of Evaluation	Remarks	Sign. of Faculty
1.	To answer the following questions about Software Project Management and softwares such as MS Project and ProjectLibre.	19/07/22			
2.	To assign the task of an activity including starting date and finishing date, predecessor and set the calendar properties.	19/07/22			
3.	Draw the Gantt chart for the software project.	26/07/22			
4.	Using Project Planning Activities draw the PERT for the project.	02/08/22			
5.	To configure Fixed Units to tasks and allocate time and resource for the same.	09/08/22			

6.	To configure Fixed Duration to tasks and allocate time and resource for the same.	16/08/22			
7.	To lay out tasks and subtasks and their timings (Work Breakdown Structure) and present the result in form of a Gantt Chart.	19/09/22			
8.	Using the SPM, manage, plan, and organize the project.	27/09/2022			
9.	Using MS Project assign the resources and set the notes for resources.	04/10/2022			
10.	Using MS Project assign the resources and set the notes for resources.	11/10/2022			

LAB 1

Aim: To answer the following questions about Software Project Management and softwares such as MS Project and ProjectLibre.

Theory:

Q.1 What is MS Project 2007/2010? Differentiate between the two versions.

MS Project 2007	MS Project 2010
Has Menus and Toolbars.	Contains a fully customizable Ribbon that encapsulates all the commands needed for various tasks.
Only has the options command in the Tools menu to deal with projects.	Contains the backstage that aids in managing project files.
Does not have the right-click functionality that allows users to see commonly used commands for an item.	Right-Clicking any item in a view shows commonly used commands associated with the component.
Only allows automatic updation of task dates.	Manual Scheduling which allows users to customize task dependencies and project calendar as per their requirements instead of automatically adjusted task dates.

Q.2 Differentiate Between MS Project and ProjectLibre in Tabular Form.

ProjectLibre	MS Project
Does not integrate with other softwares and works only as a stand-alone.	Integrates seamlessly with the Microsoft Environment as a part of their overall package.
Does not allow personalization for users.	Allows custom personalization and UI skins as per user requirements or preferences.
Is Free and Open Source	Requires a subscription from Microsoft.
Offers fewer features but incorporates a simple, easy-to-use AI	Has extra features such as workload, collaboration, resource management, personal calendars and preconfigured templates, among others.

Q.3 What are the tools available in SPM?

Some tools we can use in Software Project Management are:

- Gantt Charts
- PERT Charts
- Logic Network
- Product Breakdown Structure
- Work Breakdown Structure
- Resource Histogram
- Critical Path Analysis

Softwares such as MS Project, ProjectLibre, MeisterTask, Basecamp, Trello, Nifty etc. are useful for software project management as they help assign and update task lists, schedules, create gantt and PERT charts, allocate work breakdown and resources, and facilitate communication and reporting.

Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Aditya Raj Singh	Enrollment No.	A2305219837

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 19th July, 2022

LAB 2

Aim: To assign the task of an activity including starting date and finishing date, predecessor and set the calendar properties.

Theory:

ProjectLibre desktop is a free and open-source project management software system intended ultimately as a standalone replacement for Microsoft Project. ProjectLibre is written in the Java programming language and will thus theoretically run on any machine for which a fully functioning Java virtual machine (JVM) exists. Currently, ProjectLibre is certified to run on Linux, MacOS, and Microsoft Windows

Implementation:

Table for Project Time in Hours:

		Name	Duration	Start	Finish	Predecessors
1		Software Requirement Analysis	0.25 days	19/7/22 8:00 AM	19/7/22 10:00 AM	
2		Designing	0.5 days	19/7/22 10:00 AM	19/7/22 3:00 PM	1
3		Coding	0.75 days	19/7/22 3:00 PM	20/7/22 1:00 PM	2
4		Implementation	1 day	20/7/22 1:00 PM	21/7/22 1:00 PM	3
5		Maintenance	1.25 days	21/7/22 1:00 PM	22/7/22 3:00 PM	4

Table for Project Time in Days:

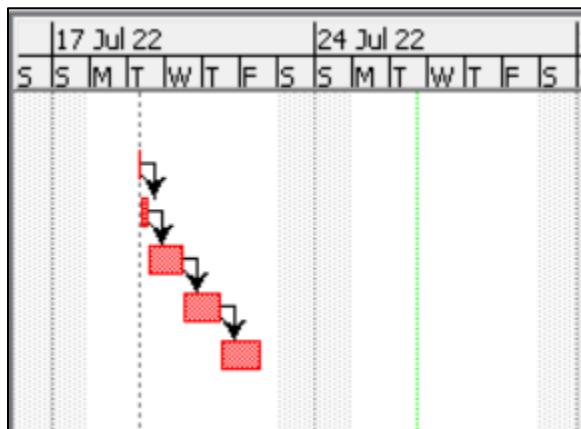
		Name	Duration	Start	Finish	Predecessors
1		Software Requirement Analysis	1 day	19/7/22 8:00 AM	19/7/22 5:00 PM	
2		Designing	3 days	20/7/22 8:00 AM	22/7/22 5:00 PM	1
3		Coding	5 days	25/7/22 8:00 AM	29/7/22 5:00 PM	2
4		Implementation	7 days	1/8/22 8:00 AM	9/8/22 5:00 PM	3
5		Maintenance	9 days	10/8/22 8:00 AM	22/8/22 5:00 PM	4

Table for Project Time in Months:

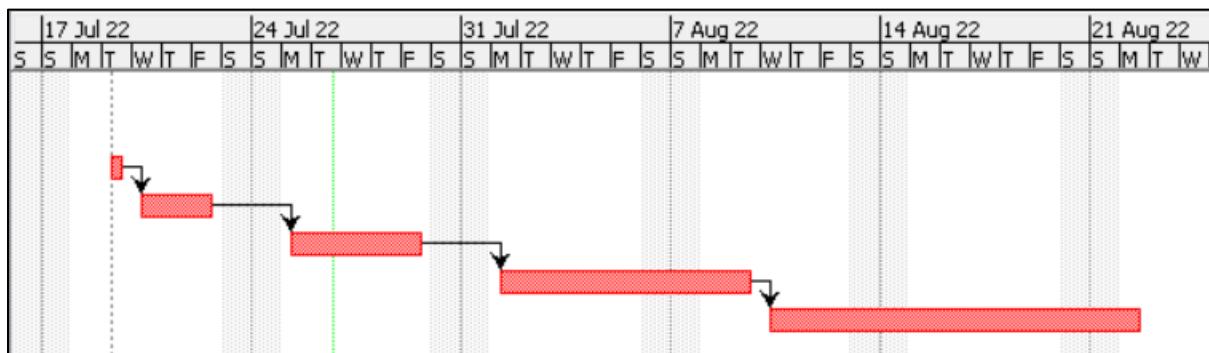
		Name	Duration	Start	Finish	Predecessors
1		Software Requirement Analysis	20 days	19/7/22 8:00 AM	15/8/22 5:00 PM	
2		Designing	40 days	16/8/22 8:00 AM	10/10/22 5:00 PM	1
3		Coding	60 days	11/10/22 8:00 AM	2/1/23 5:00 PM	2
4		Implementation	80 days	3/1/23 8:00 AM	24/4/23 5:00 PM	3
5		Maintenance	100 days	25/4/23 8:00 AM	11/9/23 5:00 PM	4

Results:

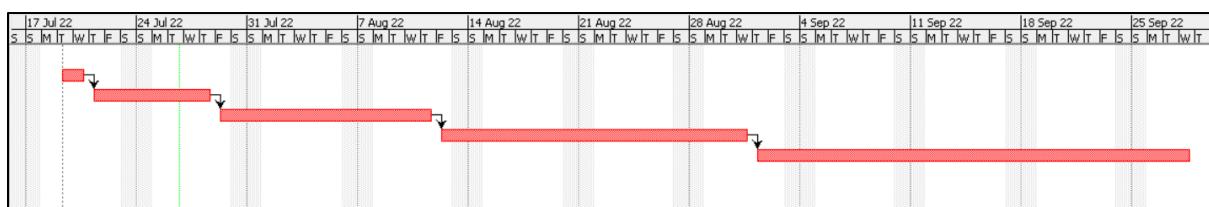
Gantt Chart for Project Time in Hours:



Gantt Chart for Project Time in Days:



Gantt Chart for Project Time in Months:



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Aditya Raj Singh	Enrollment No.	A2305219837

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 26th July, 2022

LAB 3

Aim: Draw the Gantt chart for the software project.

Software used: Project Libre

Theory:

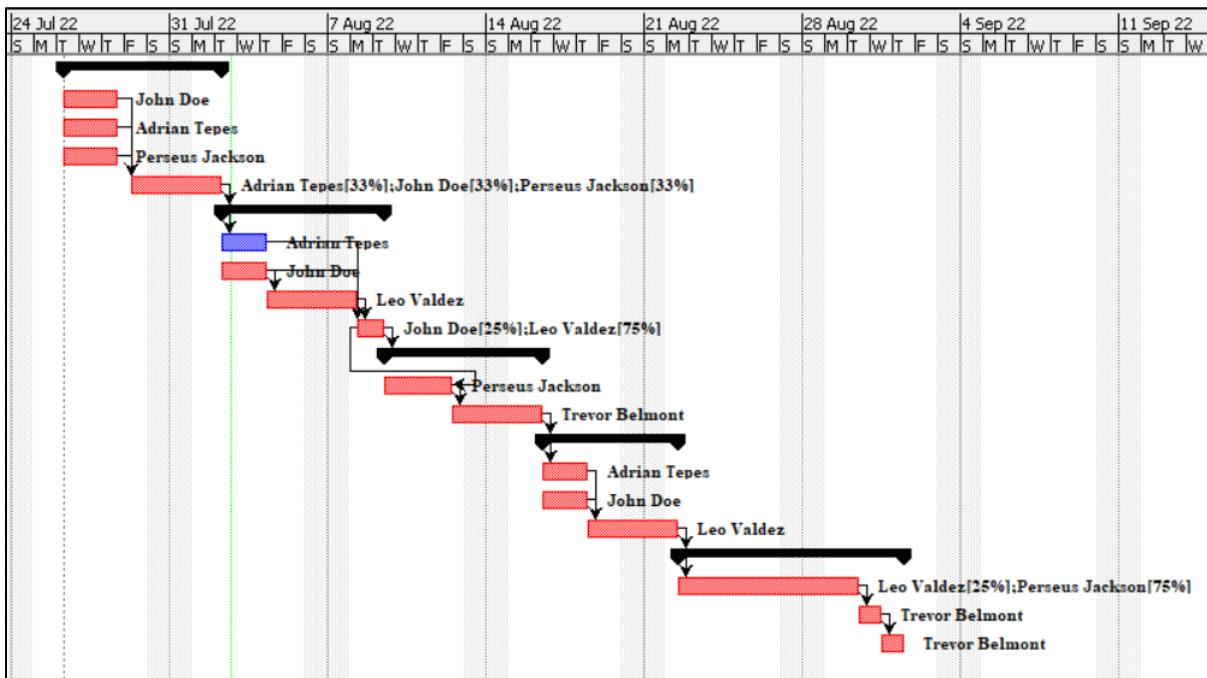
Following are the steps to draw a Gantt chart for a project:

1. Create various tasks of the project after gathering and analysing all the requirements.
2. In each task, create some more tasks and indent them to make them sub tasks. Now, the completion of a task will be marked by completion of all its sub tasks.
3. Provide the sub tasks with their duration start and end dates and other attributes.
4. Using the predecessor property, link the sub tasks to each other and to the main tasks.
5. After setting all these properties, the Gantt chart is ready. Go to the view menu, click on the Gantt chart and the following view will be displayed.

Implementation:

		Name	Duration	Start	Finish	Predecessors	Resource Names
1		Requirement Analysis	5.02 days	26/7/22 8:00 AM	2/8/22 8:09 AM		
2		Determine Requirements of Product Supplier	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		John Doe
3		Determine Requirements of bank	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		Adrian Tepes
4		Determine h/w and s/w requirements	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		Perseus Jackson
5		Prepare SRS	2.02 days	29/7/22 8:00 AM	2/8/22 8:09 AM	2;3;4	Adrian Tepes[33%];John Doe[33%];Perseus Jackson[33%]
6		Design	5.5 days	2/8/22 8:09 AM	9/8/22 1:09 PM	5	
7		Design Phase	2 days	2/8/22 8:09 AM	4/8/22 8:09 AM	5	Adrian Tepes
8		Design Bank Transaction and Security Module	2 days	2/8/22 8:09 AM	4/8/22 8:09 AM		John Doe
9		Design Purchasing and Delivery Module	2 days	4/8/22 8:09 AM	8/8/22 8:09 AM	8	Leo Valdez
10		Final Use Case Design	1.5 days	4/8/22 8:09 AM	9/8/22 1:09 PM	7;8;9	John Doe[25%];Leo Valdez[75%]
11		Coding	5 days	9/8/22 1:09 PM	16/8/22 1:09 PM	10	
12		Database	3 days	9/8/22 1:09 PM	12/8/22 1:09 PM	10SF	Perseus Jackson
13		Database and User Interface Connectivity	2 days	12/8/22 1:09 PM	16/8/22 1:09 PM	12	Trevor Belmont
14		Testing	4 days	16/8/22 1:09 PM	22/8/22 1:09 PM	13	
15		Unit Testing	2 days	16/8/22 1:09 PM	18/8/22 1:09 PM	13	Adrian Tepes
16		White and Black Box Testing	2 days	16/8/22 1:09 PM	18/8/22 1:09 PM		John Doe
17		Integrated Testing	2 days	18/8/22 1:09 PM	22/8/22 1:09 PM	15;16	Leo Valdez
18	grid	Delivery of the Product	30 days	22/8/22 1:09 PM	1/9/22 1:09 PM	17	
19		Update Changes	6 days	22/8/22 1:09 PM	30/8/22 1:09 PM	17	Leo Valdez[25%];Perseus Jackson[75%]
20		Training User	1 day	30/8/22 1:09 PM	31/8/22 1:09 PM	19	Trevor Belmont
21		Handover Product to Client	1 day	31/8/22 1:09 PM	1/9/22 1:09 PM	20	Trevor Belmont

Results:



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Aditya Raj Singh	Enrollment No.	A2305219837

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 2nd August, 2022

LAB 4

Aim: Using Project Planning Activities draw the PERT for the project.

Software used: Project Libre

Theory:

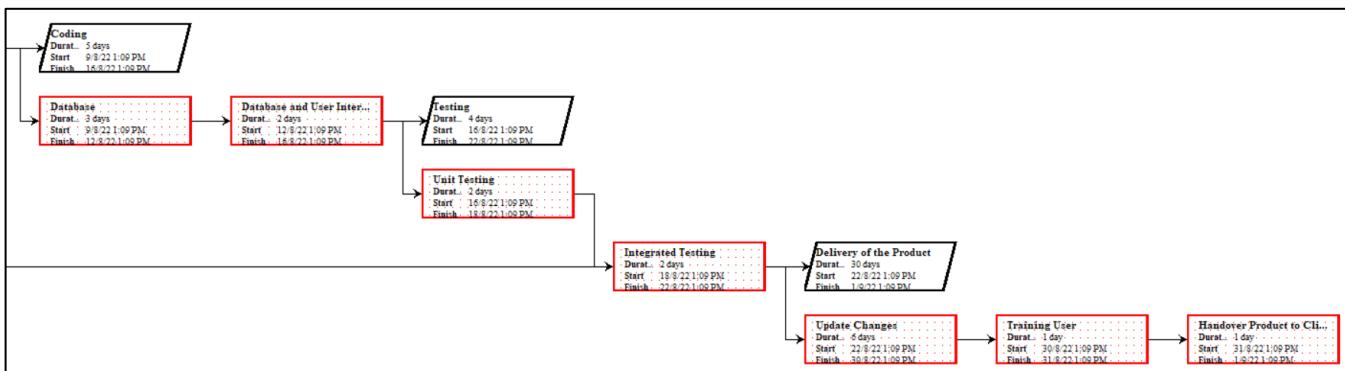
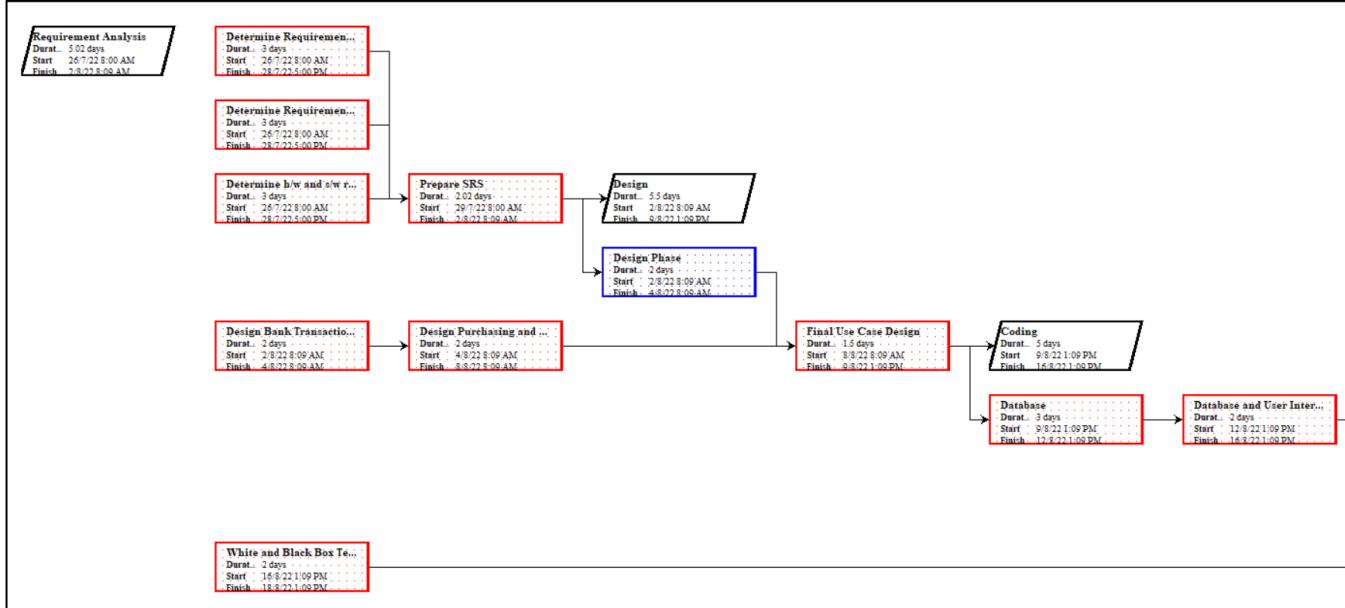
Steps to create a PERT chart are as follows:

1. Create various tasks of the project after gathering and analysing all the requirements.
2. In each task, create some more tasks and indent them to make them sub tasks. Now, the completion of a task will be marked by completion of all its sub tasks.
3. Provide the sub tasks with their duration start and end dates and other attributes.
4. Using the predecessor property, link the sub tasks to each other and to the main tasks.
5. Now that the PERT chart is ready, go to the view menu, click on the Network Diagram tab and the following PERT chart will be displayed.

Implementation:

		Name	Duration	Start	Finish	Predecessors	Resource Names
1		Requirement Analysis	5.02 days	26/7/22 8:00 AM	2/8/22 8:09 AM		
2		Determine Requirements of Product Supplier	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		John Doe
3		Determine Requirements of bank	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		Adrian Tepes
4		Determine h/w and s/w requirements	3 days	26/7/22 8:00 AM	28/7/22 5:00 PM		Perseus Jackson
5		Prepare SRS	2.02 days	29/7/22 8:00 AM	2/8/22 8:09 AM	2;3;4	Adrian Tepes[33%];John Doe[33%];Perseus Jackson[33%]
6		Design	5.5 days	2/8/22 8:09 AM	9/8/22 1:09 PM	5	
7		Design Phase	2 days	2/8/22 8:09 AM	4/8/22 8:09 AM	5	Adrian Tepes
8		Design Bank Transaction and Security Module	2 days	2/8/22 8:09 AM	4/8/22 8:09 AM		John Doe
9		Design Purchasing and Delivery Module	2 days	4/8/22 8:09 AM	6/8/22 8:09 AM	8	Leo Valdez
10		Final Use Case Design	1.5 days	8/8/22 8:09 AM	9/8/22 1:09 PM	7;8;9	John Doe[25%];Leo Valdez[75%]
11		Coding	5 days	9/8/22 1:09 PM	16/8/22 1:09 PM	10	
12		Database	3 days	9/8/22 1:09 PM	12/8/22 1:09 PM	10SF	Perseus Jackson
13		Database and User Interface Connectivity	2 days	12/8/22 1:09 PM	16/8/22 1:09 PM	12	Trevor Belmont
14		Testing	4 days	16/8/22 1:09 PM	22/8/22 1:09 PM	13	
15		Unit Testing	2 days	16/8/22 1:09 PM	18/8/22 1:09 PM	13	Adrian Tepes
16		White and Black Box Testing	2 days	16/8/22 1:09 PM	18/8/22 1:09 PM		John Doe
17		Integrated Testing	2 days	18/8/22 1:09 PM	22/8/22 1:09 PM	15;16	Leo Valdez
18	☒	Delivery of the Product	30 days	22/8/22 1:09 PM	1/9/22 1:09 PM	17	
19		Update Changes	6 days	22/8/22 1:09 PM	30/8/22 1:09 PM	17	Leo Valdez[25%];Perseus Jackson[75%]
20		Training User	1 day	30/8/22 1:09 PM	31/8/22 1:09 PM	19	Trevor Belmont
21		Handover Product to Client	1 day	31/8/22 1:09 PM	1/9/22 1:09 PM	20	Trevor Belmont

Result:



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Aditya Raj Singh	Enrollment No.	A2305219837
Marking Criteria			
Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 9th August, 2022

LAB 5

Aim: To configure Fixed Units to tasks and allocate time and resources for the same.

Software used: Project Libre

Theory:

A task in which the assigned units (or resources) are a fixed value and any changes to the amount of work or the task's duration does not affect the task's units.

This means that adding Work or Duration to the task will not affect the Units. In this case, adding Work will increase the Duration of the task, and vice versa. Fixed Units and Fixed Work are most commonly used Task Types because they represent most project realities.

On Fixed Units task, units will be fixed. If you change the work, duration will be changed.

Implementation:

	Name	Duration	Start	Finish	Pre...	Resource Names
⌚	⌚ Planning and Control	16 days?	16/8/22 8:00 AM	6/9/22 5:00 PM		
	Identify Industry Standards for Project Objectives	4 days	16/8/22 8:00 AM	19/8/22 5:00 PM		Leo Valdez
	Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
⌚	⌚ Planning and Control	16 days?	16/8/22 8:00 AM	6/9/22 5:00 PM		
	Identify Industry Standards for Project Objectives	2 days	16/8/22 8:00 AM	17/8/22 5:00 PM		Leo Valdez;Trevor Belmont
	Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
⌚	⌚ Design	16 days?	16/8/22 8:00 AM	6/9/22 5:00 PM		
	Design Phase	5 days	16/8/22 8:00 AM	29/8/22 5:00 PM		Leo Valdez
	Design Database and Security Module	2 days	30/8/22 8:00 AM	31/8/22 5:00 PM	8	Leo Valdez
	Design Purchasing and Delivery Module	2 days	1/9/22 8:00 AM	2/9/22 5:00 PM	9	Leo Valdez
	Final Use Case Design	2 days	5/9/22 8:00 AM	6/9/22 5:00 PM	10	Leo Valdez
⌚	⌚ Design	15 days?	16/8/22 8:00 AM	5/9/22 5:00 PM		
📅	Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez[200%]
🕒	Design Database and Security Module	2 days	23/8/22 8:00 AM	23/8/22 5:00 PM	13	Leo Valdez
🕒	Design Purchasing and Delivery Module	2 days	24/8/22 8:00 AM	24/8/22 5:00 PM	14	Leo Valdez

Result:

Task Information - 14

General Predecessors Successors Resources Advanced Notes

Name: Design Database and Security Module

Resources:

Name	Work	Work Contour	Assignment...
Leo Valdez	16 hours	Flat	0 days

0 days: 16/8/22 8:00 AM 16/8/22 8:00 AM

11 days: 16/8/22 8:00 AM 30/8/22 5:00 PM

5 days: 16/8/22 8:00 AM 22/8/22 5:00 PM Leo Valdez

2 days: 23/8/22 8:00 AM 24/8/22 5:00 PM 8 Leo Valdez

2 days: 25/8/22 8:00 AM 26/8/22 5:00 PM 9 Leo Valdez

2 days: 29/8/22 8:00 AM 30/8/22 5:00 PM 10 Leo Valdez

9 days: 16/8/22 8:00 AM 26/8/22 5:00 PM

5 days: 16/8/22 8:00 AM 22/8/22 5:00 PM Leo Valdez [200%]

2 days: 23/8/22 8:00 AM 24/8/22 5:00 PM 13 Leo Valdez

2 days: 25/8/22 8:00 AM 26/8/22 5:00 PM 14 Leo Valdez

Task Information - 14

General Predecessors Successors Resources Advanced Notes

Name: Design Database and Security Module

Resources:

Name	Work	Work Contour	Assignment...
Leo Valdez	12 hours	Flat	0 days

0 days: 16/8/22 8:00 AM 16/8/22 8:00 AM

11 days: 16/8/22 8:00 AM 30/8/22 5:00 PM

5 days: 16/8/22 8:00 AM 22/8/22 5:00 PM Leo Valdez

2 days: 23/8/22 8:00 AM 24/8/22 5:00 PM 8 Leo Valdez

2 days: 25/8/22 8:00 AM 26/8/22 5:00 PM 9 Leo Valdez

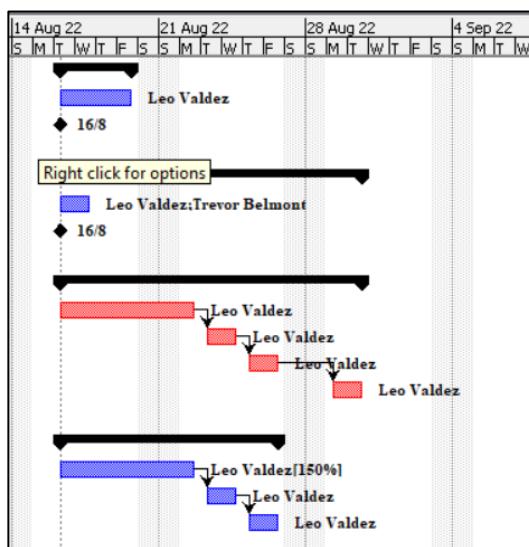
2 days: 29/8/22 8:00 AM 30/8/22 5:00 PM 10 Leo Valdez

8.5 days: 16/8/22 8:00 AM 26/8/22 1:00 PM

5 days: 16/8/22 8:00 AM 22/8/22 5:00 PM Leo Valdez [200%]

1.5 days: 23/8/22 8:00 AM 24/8/22 1:00 PM 13 Leo Valdez

2 days: 24/8/22 1:00 PM 26/8/22 1:00 PM 14 Leo Valdez



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Aditya Raj Singh	Enrollment No.	A2305219837
Marking Criteria			
Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 16th August, 2022

LAB 6

Aim: To configure Fixed Duration to tasks and allocate time and resources for the same.

Software used: Project Libre

Theory:

A task in which the assigned units (or resources) are a fixed value and any changes to the amount of work or the task's duration does not affect the task's units.

This means that adding Work or Duration to the task will not affect the Units. In this case, adding Work will increase the Duration of the task, and vice versa. Fixed Units and Fixed Work are most commonly used Task Types because they represent most project realities.

On Fixed Duration task, time will be fixed. If you change the work, units will be changed.

Implementation:

	Name	Duration	Start	Finish	Pre...	Resource Names
☐	Planning and Control	16 days?	16/8/22 8:00 AM	6/9/22 5:00 PM		
	Identify Industry Standards for Project Objectives	4 days	16/8/22 8:00 AM	19/8/22 5:00 PM		Leo Valdez
	Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
☐	Planning and Control	16 days?	16/8/22 8:00 AM	6/9/22 5:00 PM		
	Identify Industry Standards for Project Objectives	2 days	16/8/22 8:00 AM	17/8/22 5:00 PM		Leo Valdez;Trevor Belmont
	Initial Planning Complete	0 days	16/8/22 8:00 AM	16/8/22 8:00 AM		
☐	Design	16 days?	16/8/22 8:00 AM	6/9/22 5:00 PM		
	Design Phase	5 days	16/8/22 8:00 AM	29/8/22 5:00 PM		Leo Valdez
	Design Database and Security Module	2 days	30/8/22 8:00 AM	31/8/22 5:00 PM	8	Leo Valdez
	Design Purchasing and Delivery Module	2 days	1/9/22 8:00 AM	2/9/22 5:00 PM	9	Leo Valdez
	Final Use Case Design	2 days	5/9/22 8:00 AM	6/9/22 5:00 PM	10	Leo Valdez
☐	Design	15 days?	16/8/22 8:00 AM	5/9/22 5:00 PM		
☒	Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM		Leo Valdez[200%]
☒	Design Database and Security Module	2 days	23/8/22 8:00 AM	23/8/22 5:00 PM	13	Leo Valdez
☒	Design Purchasing and Delivery Module	2 days	24/8/22 8:00 AM	24/8/22 5:00 PM	14	Leo Valdez

Result:

Task Information - 13

General		Predecessors		Successors		Resources		Advanced		Notes	
Name: Design Phase											
Duration: 5 days											
Percent Complete: 0%		<input type="checkbox"/> Estimated									
Cost: Rs.27397.26											
Work: 80 hours											
Dates											
Start: 16/8/22 8:00 AM		Finish: 22/8/22 5:00 PM									
Baseline Start:										Baseline Finish:	

Design

	11 days	16/8/22 8:00 AM	30/8/22 5:00 PM	
Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM	Leo Valdez
Design Database and Security Module	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	8 Leo Valdez
Design Purchasing and Delivery Module	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	9 Leo Valdez
Final Use Case Design	2 days	29/8/22 8:00 AM	30/8/22 5:00 PM	10 Leo Valdez

Design

	9 days	16/8/22 8:00 AM	26/8/22 5:00 PM	
Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM	Leo Valdez[200%]
Design Database and Security Module	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	13 Leo Valdez
Design Purchasing and Delivery Module	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	14 Leo Valdez

Task Information - 13

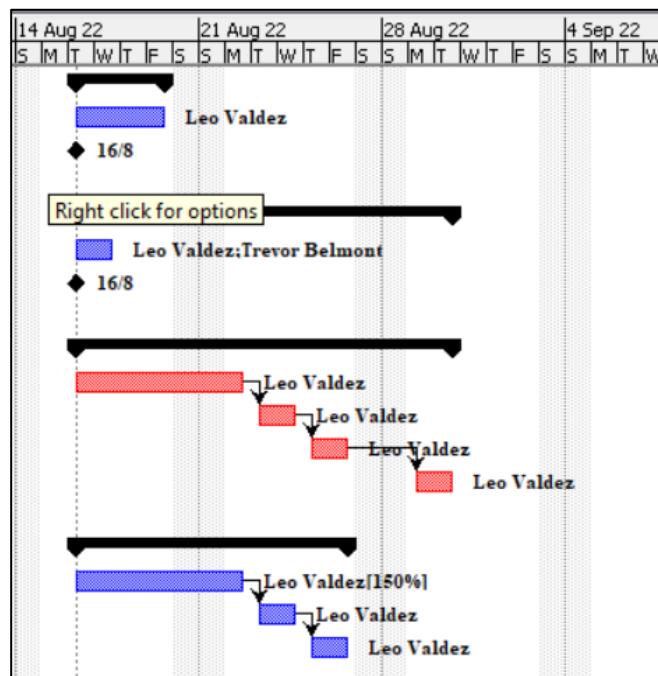
General		Predecessors		Successors		Resources		Advanced		Notes	
Name: Design Phase											
Duration: 5 days											
Percent Complete: 0%		<input type="checkbox"/> Estimated									
Cost: Rs.20547.95											
Work: 60 hours											
Dates											
Start: 16/8/22 8:00 AM		Finish: 22/8/22 5:00 PM									
Baseline Start:										Baseline Finish:	

Design

	11 days	16/8/22 8:00 AM	30/8/22 5:00 PM	
Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM	Leo Valdez
Design Database and Security Module	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	8 Leo Valdez
Design Purchasing and Delivery Module	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	9 Leo Valdez
Final Use Case Design	2 days	29/8/22 8:00 AM	30/8/22 5:00 PM	10 Leo Valdez

Design

	9 days	16/8/22 8:00 AM	26/8/22 5:00 PM	
Design Phase	5 days	16/8/22 8:00 AM	22/8/22 5:00 PM	Leo Valdez[150%]
Design Database and Security Module	2 days	23/8/22 8:00 AM	24/8/22 5:00 PM	13 Leo Valdez
Design Purchasing and Delivery Module	2 days	25/8/22 8:00 AM	26/8/22 5:00 PM	14 Leo Valdez



Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Aditya Raj Singh	Enrollment No.	A2305219837

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 9th September, 2022

LAB 7

Aim: To lay out tasks and subtasks and their timings (Work Breakdown Structure) and present the result in form of a Gantt Chart.

Software used: Project Libre

Theory:

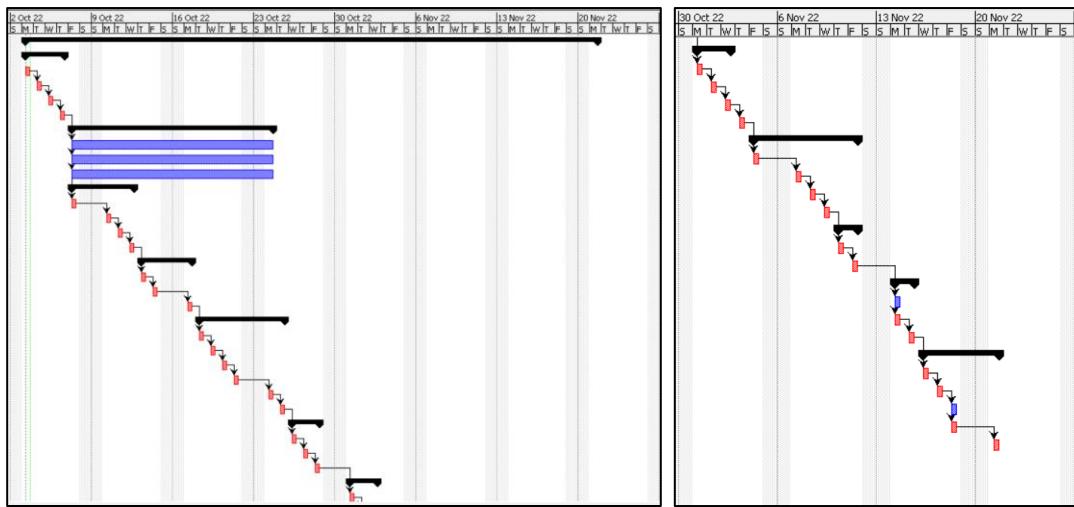
You are the project manager with the contracted company selected by the City of Metropolis to work with the City's project team to carry out the work on the Geodatabase Design and Development Project. Your company responded to the City's RFP and was selected to perform the work. The contracted work for which you are responsible is summarized in section 1.2 of the RFP with more detailed explanation in subsequent RFP sections.

You must create a work breakdown structure (WBS) in which all the tasks and subtasks are laid out along with their timing, and further the results are shown in the form of Gantt Chart.

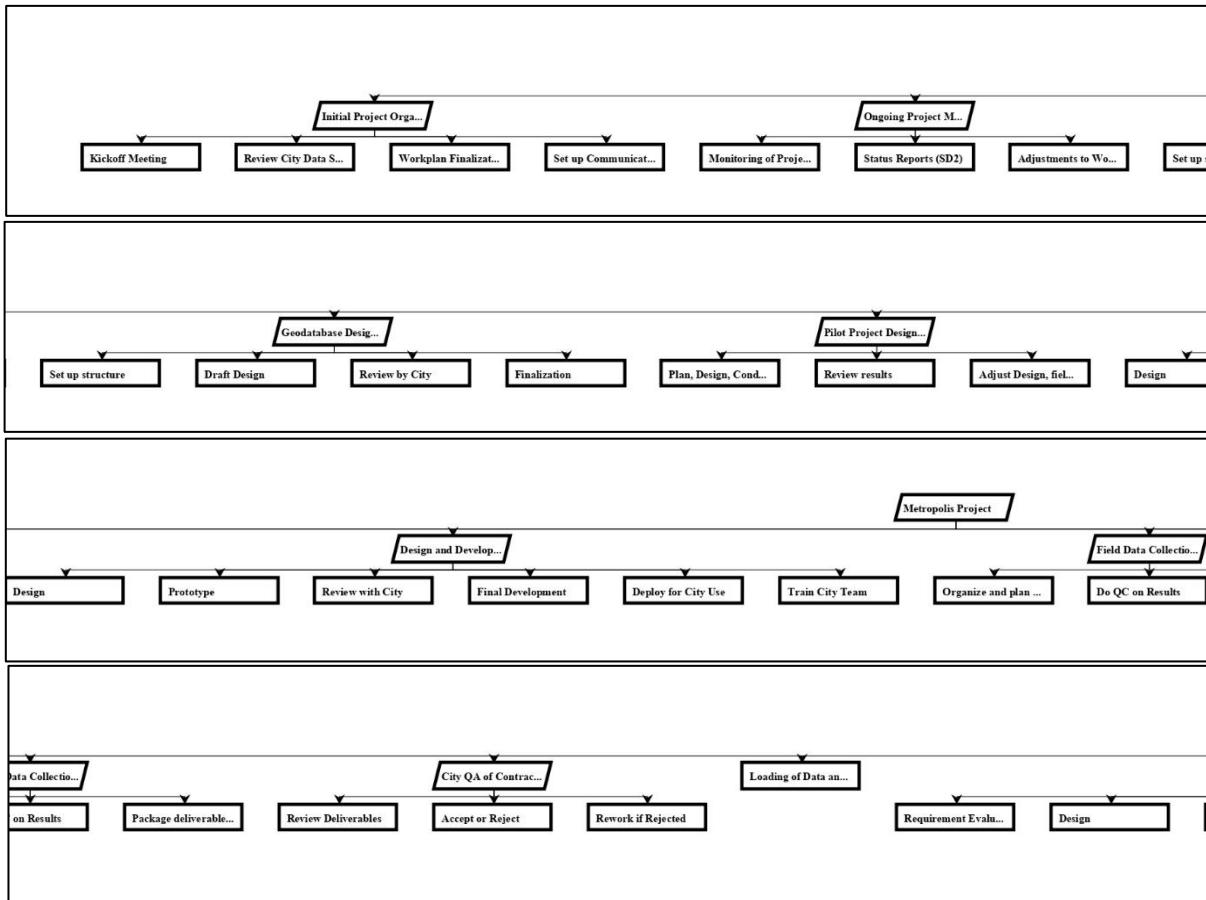
The work breakdown structure (WBS) includes a hierarchical organization of tasks (top-level tasks and subtasks), with planned start and end dates, that take into account estimated durations of time to complete the work with whatever timing constraints may influence the starting and completion of tasks. The RFP describes the overall scope and deliverables but does not provide a specific set of tasks or approach to accomplish the work. That is the job of the contracted project manager—to prepare a plan that, based on their experience in similar projects, will provide an organized and efficient way to get the work done and which includes necessary project monitoring, status reporting, communications, quality control, and other necessary project activities.

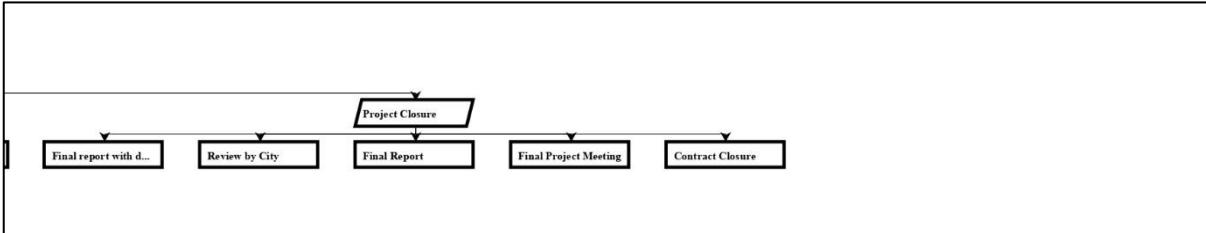
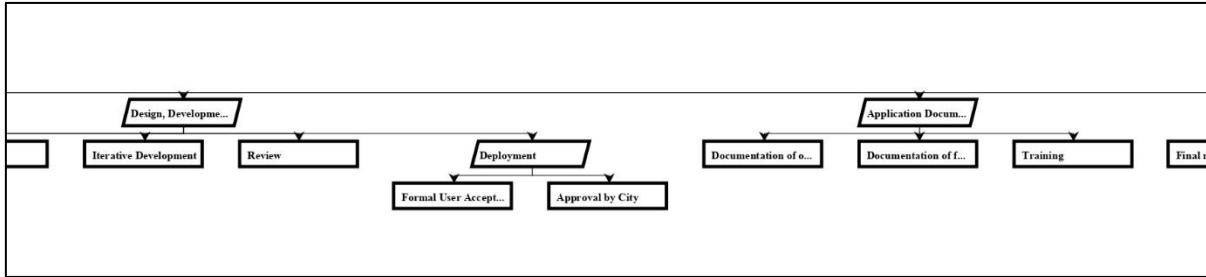
Implementation:

		Name	Duration	Start	Finish	Predecessors
1		Metropolis Project	36 days	3/10/22 8:00 AM	21/11/22 5:00 PM	
2		Initial Project Organization, Planning,	4 days	3/10/22 8:00 AM	6/10/22 5:00 PM	
3		Kickoff Meeting	1 day	3/10/22 8:00 AM	3/10/22 5:00 PM	
4		Review City Data Sources	1 day	4/10/22 8:00 AM	4/10/22 5:00 PM	3
5		Workplan Finalization (SD1)	1 day	5/10/22 8:00 AM	5/10/22 5:00 PM	4
6		Set up Communication Procedures and P	1 day	6/10/22 8:00 AM	6/10/22 5:00 PM	5
7		Ongoing Project Monitoring and Adm	12 days	7/10/22 8:00 AM	24/10/22 5:00 PM	
8		Monitoring of Project during Execution	12 days	7/10/22 8:00 AM	24/10/22 5:00 PM	6
9		Status Reports (SD2)	12 days	7/10/22 8:00 AM	24/10/22 5:00 PM	6
10		Adjustments to Work Plan	12 days	7/10/22 8:00 AM	24/10/22 5:00 PM	6
11		Geodatabase Design (MD4)	4 days	7/10/22 8:00 AM	12/10/22 5:00 PM	
12		Set up structure	1 day	7/10/22 8:00 AM	7/10/22 5:00 PM	6
13		Draft Design	1 day	10/10/22 8:00 AM	10/10/22 5:00 PM	12
14		Review by City	1 day	11/10/22 8:00 AM	11/10/22 5:00 PM	13
15		Finalization	1 day	12/10/22 8:00 AM	12/10/22 5:00 PM	14
16		Pilot Project Design and Execution (S	3 days	13/10/22 8:00 AM	17/10/22 5:00 PM	
17		Plan, Design, Conduct pilot project	1 day	13/10/22 8:00 AM	13/10/22 5:00 PM	15
18		Review results	1 day	14/10/22 8:00 AM	14/10/22 5:00 PM	17
19		Adjust Design, field data collection and QC	1 day	17/10/22 8:00 AM	17/10/22 5:00 PM	18
20		Design and Develop Data QA and Trai	6 days	18/10/22 8:00 AM	25/10/22 5:00 PM	
21		Design	1 day	18/10/22 8:00 AM	18/10/22 5:00 PM	19
22		Prototype	1 day	19/10/22 8:00 AM	19/10/22 5:00 PM	21
23		Review with City	1 day	20/10/22 8:00 AM	20/10/22 5:00 PM	22
24		Final Development	1 day	21/10/22 8:00 AM	21/10/22 5:00 PM	23
25		Deploy for City Use	1 day	24/10/22 8:00 AM	24/10/22 5:00 PM	24
26		Train City Team	1 day	25/10/22 8:00 AM	25/10/22 5:00 PM	25
27		Field Data Collection and QC (MD2)	3 days	26/10/22 8:00 AM	28/10/22 5:00 PM	
28		Organize and plan contractor field collecti	1 day	26/10/22 8:00 AM	26/10/22 5:00 PM	26
29		Do QC on Results	1 day	27/10/22 8:00 AM	27/10/22 5:00 PM	28
30		Package deliverables for submittal to city	1 day	28/10/22 8:00 AM	28/10/22 5:00 PM	29
31		City QA of Contractor Deliverables	3 days	31/10/22 8:00 AM	2/11/22 5:00 PM	
32		Review Deliverables	1 day	31/10/22 8:00 AM	31/10/22 5:00 PM	30
		Name	Duration	Start	Finish	Predecessors
33		Accept or Reject	1 day	1/11/22 8:00 AM	1/11/22 5:00 PM	32
34		Rework if Rejected	1 day	2/11/22 8:00 AM	2/11/22 5:00 PM	33
35		Loading of Data and Metadata in City Geod	1 day	3/11/22 8:00 AM	3/11/22 5:00 PM	34
36		Design, Development, and Deployme	6 days	4/11/22 8:00 AM	11/11/22 5:00 PM	
37		Requirement Evaluation	1 day	4/11/22 8:00 AM	4/11/22 5:00 PM	35
38		Design	1 day	7/11/22 8:00 AM	7/11/22 5:00 PM	37
39		Iterative Development	1 day	8/11/22 8:00 AM	8/11/22 5:00 PM	38
40		Review	1 day	9/11/22 8:00 AM	9/11/22 5:00 PM	39
41		Deployment	2 days	10/11/22 8:00 AM	11/11/22 5:00 PM	
42		Formal User Acceptance Testing	1 day	10/11/22 8:00 AM	10/11/22 5:00 PM	40
43		Approval by City	1 day	11/11/22 8:00 AM	11/11/22 5:00 PM	42
44		Application Documentation and Train	2 days	14/11/22 8:00 AM	15/11/22 5:00 PM	
45		Documentation of office-based application	1 day	14/11/22 8:00 AM	14/11/22 5:00 PM	43
46		Documentation of field-based applications	1 day	14/11/22 8:00 AM	14/11/22 5:00 PM	43
47		Training	1 day	15/11/22 8:00 AM	15/11/22 5:00 PM	46
48		Project Closure	4 days	16/11/22 8:00 AM	21/11/22 5:00 PM	
49		Final report with draft	1 day	16/11/22 8:00 AM	16/11/22 5:00 PM	47
50		Review by City	1 day	17/11/22 8:00 AM	17/11/22 5:00 PM	49
51		Final Report	1 day	18/11/22 8:00 AM	18/11/22 5:00 PM	50
52		Final Project Meeting	1 day	18/11/22 8:00 AM	18/11/22 5:00 PM	50
53		Contract Closure	1 day	21/11/22 8:00 AM	21/11/22 5:00 PM	52



Result:





Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Aditya Raj Singh	Enrollment No.	A2305219837

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Date: 27th September, 2022

LAB 8

Aim: Using the SPM, manage, plan, and organize the project.

Software used: Project Libre

Theory:

Begin the project by dividing the work into separate tasks. We will divide the film-making project into following pre-production tasks:

- Write the script (2 months)
- Call film commission (1 day)
- Storyboard (2 weeks)
- Develop budget (3 days)

And following production tasks:

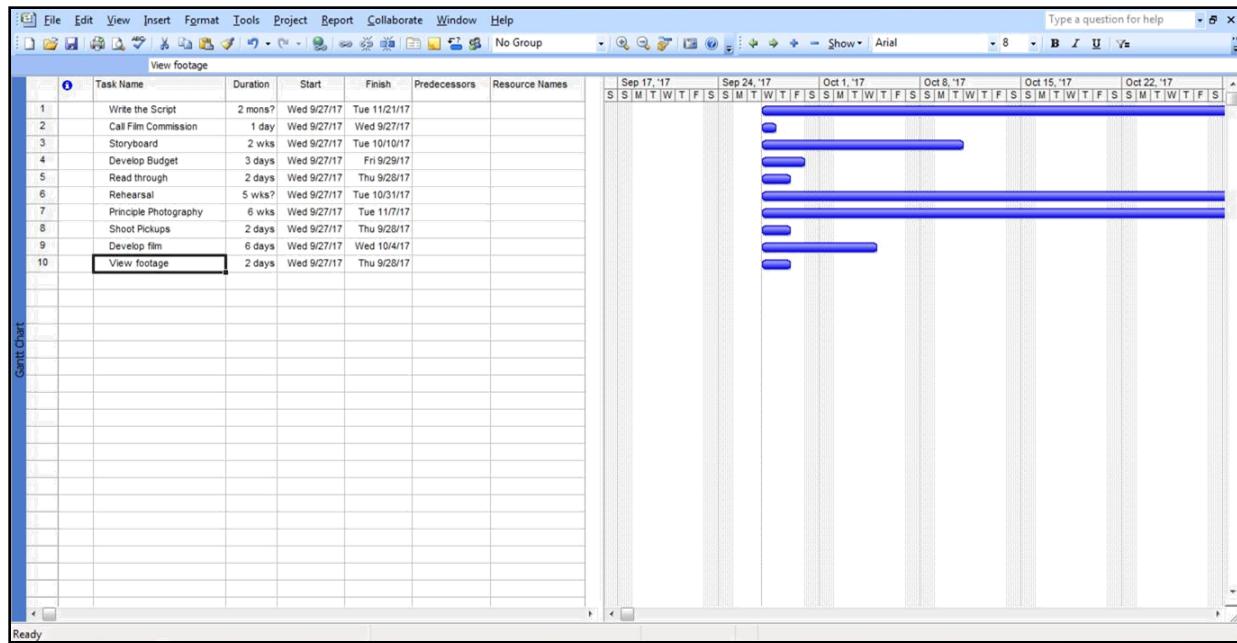
- Read through (2 days)
- Rehearsal (5 weeks)
- Principle photography (6 weeks)
- Shoot pickups (2 days)
- Develop film (6 days)
- View footage (2 days)

There are a range of functions concerning tasks and a variety of ways of going about them.

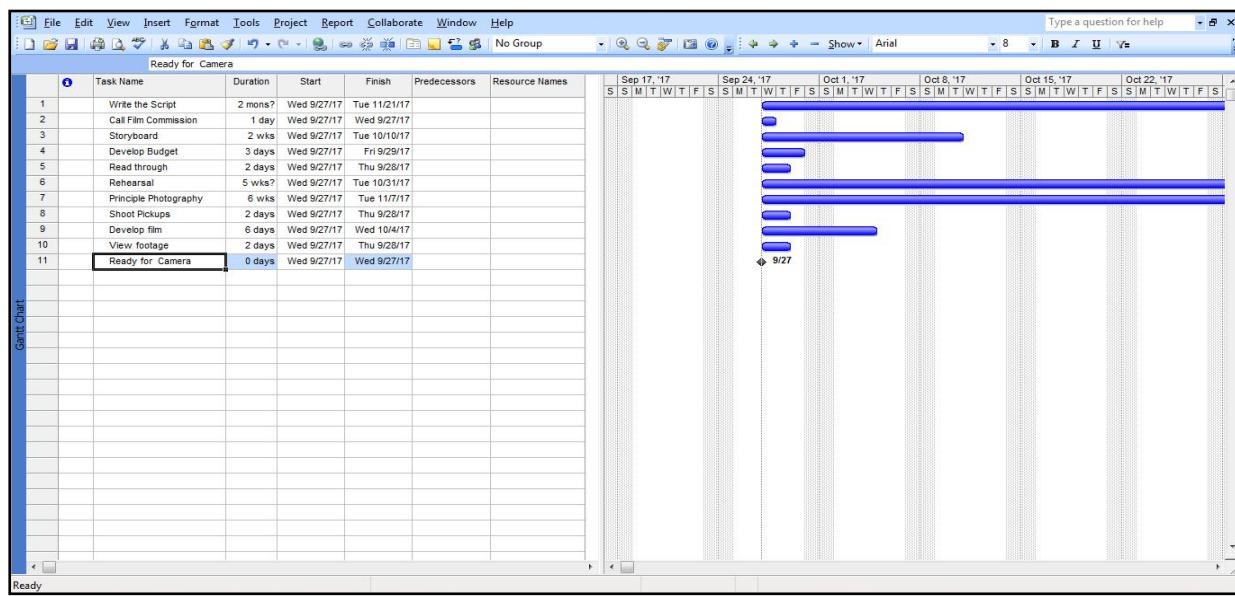
1. Inserting tasks:

In the Gantt chart view, we can insert tasks into a project by typing them into the spreadsheet. The task name, duration, start date and end date can be given by typing in their respective columns or by double clicking on it to open a pop-up window named Task Informatio

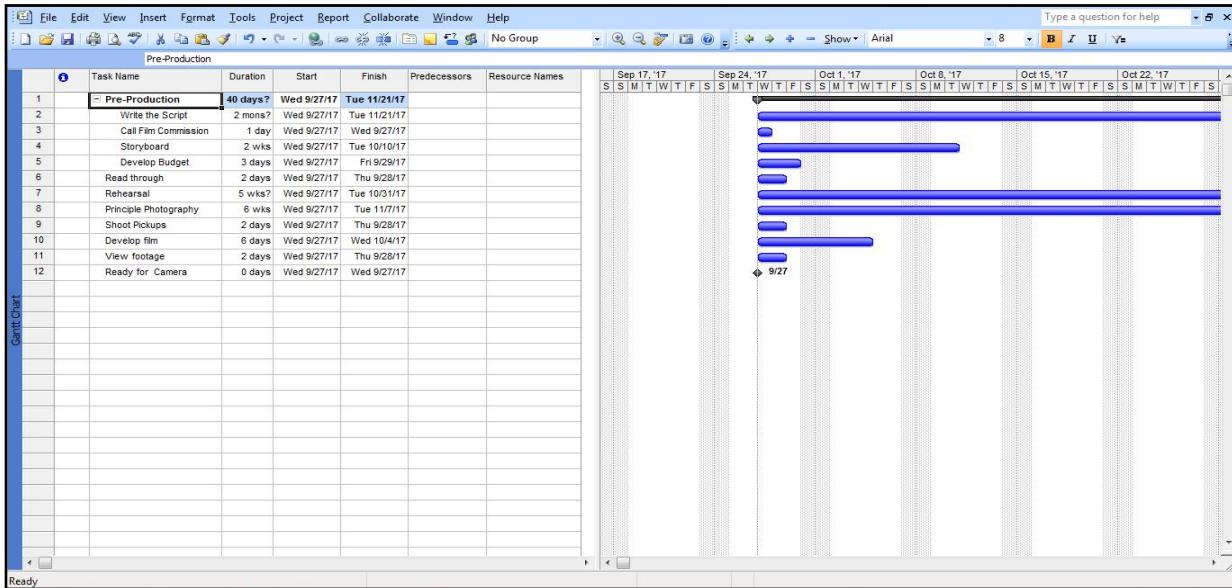
	Pre-Production Tasks	78 days	Fri 22-09-17	Tue 09-01-18	
	Write the script	60 days	Fri 22-09-17	Thu 14-12-17	
	Call Film Commission	1 day	Fri 15-12-17	Fri 15-12-17	36
	Storyboard	14 days	Mon 18-12-17	Thu 04-01-18	37
	Develop Budget	3 days	Fri 05-01-18	Tue 09-01-18	38
	Production Tasks	89 days	Wed 10-01-18	Mon 14-05-18	
	Ready for Camera	0 days			
	Read through	2 days	Wed 10-01-18	Thu 11-01-18	
	Rehearsal	35 days	Fri 12-01-18	Thu 01-03-18	42
	Principle Photography	42 days	Fri 02-03-18	Mon 30-04-18	43
	Shoot Pickups	2 days	Tue 01-05-18	Wed 02-05-18	44
	Develop Film	6 days	Thu 03-05-18	Thu 10-05-18	45
	View footage	2 days	Fri 11-05-18	Mon 14-05-18	46



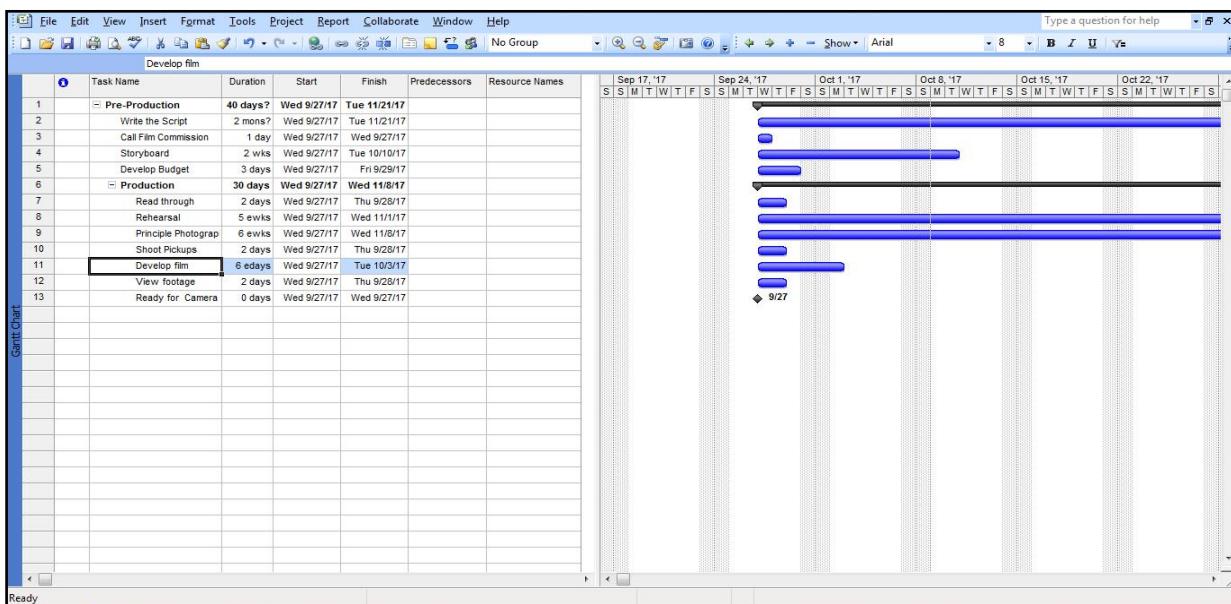
2. Milestones: Milestones are events that occur throughout the project that don't require a time value. In the Movie Making project, we can insert a milestone to show the date we should be ready for the camera. Milestones are represented by a black diamond on the Gantt chart.



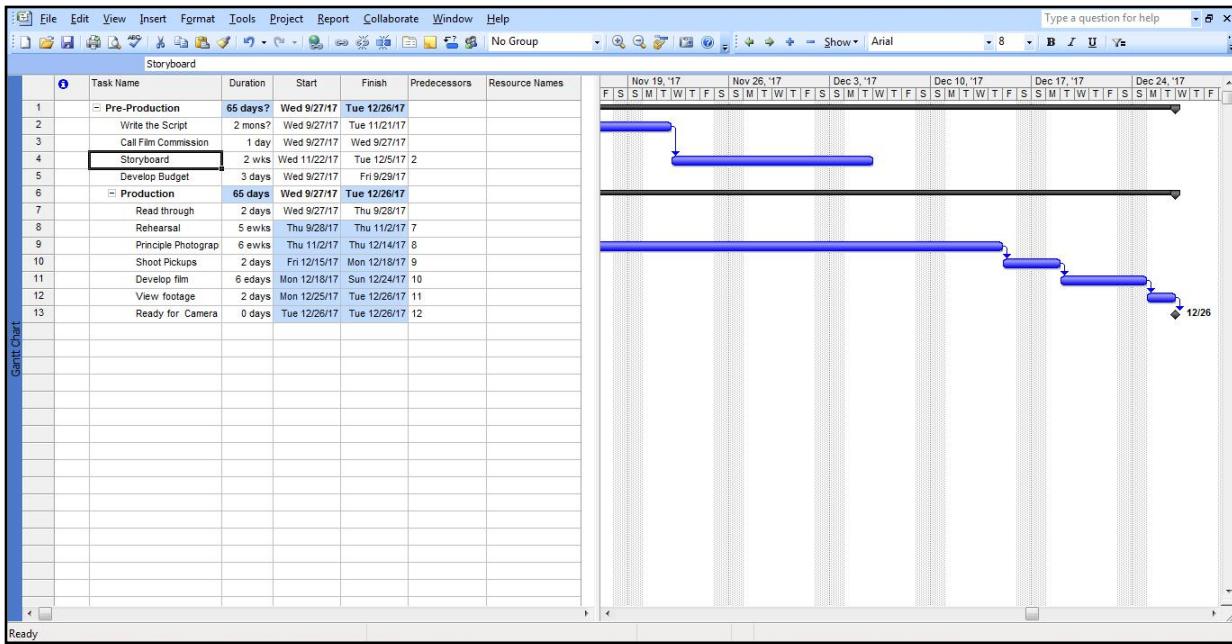
3. Organizing Tasks: Sometimes managers wish to view a summary of the project and for this; it is possible to organize tasks into summary headings. This will indent all the tasks, making them a part of new task.



4. Elapsed Time: Often in projects you outsource tasks to other companies/people. Elapsed time can be indicated by adding **e** to the duration i.e. **6 ed** for six elapsed days. Elapsed duration task includes the working weekends.



5. Linking Tasks: A fundamental principle in managing projects is planning the sequence of tasks. Often one task cannot begin until another has completed.



Result: In this experiment, we have practiced various functions concerning tasks and the result is shown in screenshots

Date: 4th October, 2022

LAB 9

Aim: Using MS Project assign the resources and set the notes for resources.

Software used: Project Libre

Theory:

Many project tasks rely on specific resources being made available. Microsoft Project allows you to organize and attribute resources to specific tasks to help organize and prevent double bookings. Resources can include physical resources such as equipment and rooms or people that may be assigned to tasks.

Resources can be labelled as Work resources or Material resources. Work resources are charged at hourly or other rates. Material resources have fixed costs.

Adding Resources to a Project

Adding Details to Resources

	Resource Name	Type	Material Label	Initials	Group	Max. Units	Std. Rate	Ovt. Rate	Cost/Use	Accrue At	Base Calendar	Code
1	Director	Work		D		100%	\$5,000.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
2	Producer	Work		P		100%	\$5,000.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
3	Director of photography	Work		D		100%	\$3,000.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
4	Camera Assistant	Work		C		100%	\$1,200.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
5	Set photographer	Work		S		100%	\$800.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
6	Cinr Alta 500HD Camera	Material		C			\$7,500.00		\$500.00	Prorated		
7	Grip Truck	Material		G			\$0.00		\$300.00	Prorated		
8	Sound Recording kit	Material		S			\$8,350.00		\$500.00	Prorated		
9	Editing Suit	Material		E			\$0.00		\$100.00	Prorated		
10	Committee Room	Material		C			\$0.00		\$100.00	Prorated		
11	DV Tape	Material		D			\$500.00		\$0.00	Prorated		

Result: In this experiment, we assign resources for various tasks as well as add detail of various resources and the result is shown in screenshots.

Date: 11th October, 2022

LAB 10

Aim: Using MS Project assign the resources and set the notes for resources.

Software used: Project Libre

Theory

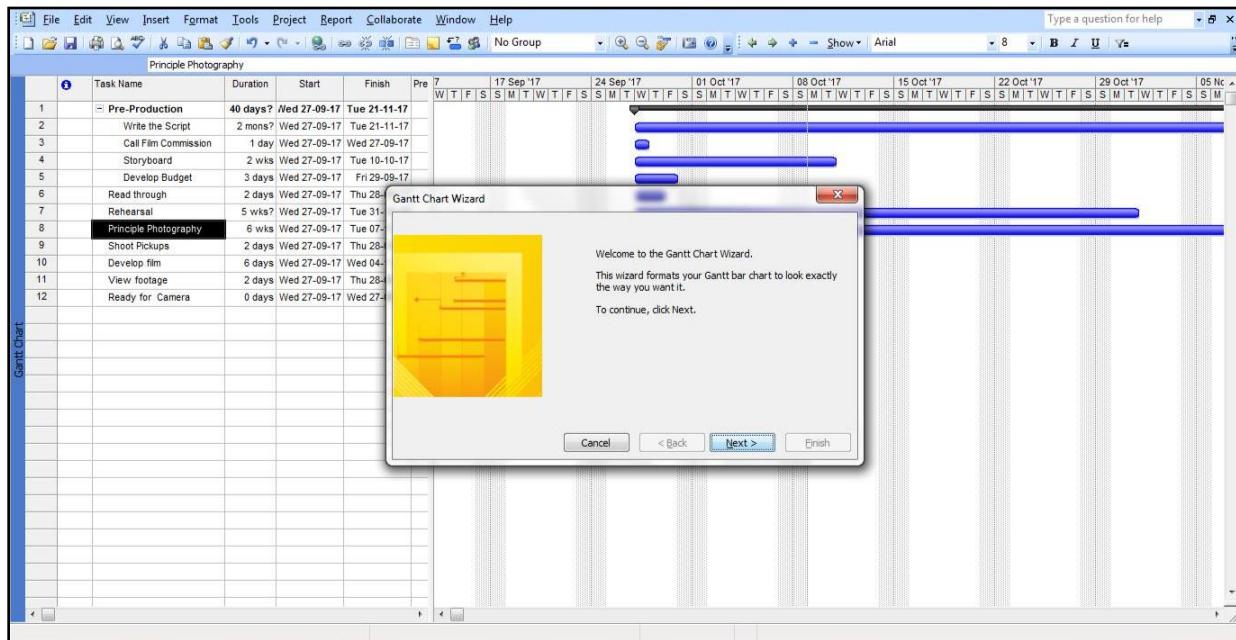
Understanding the critical path on project is an important concept as the critical path drives your end date. If there is a single delay in any of the tasks on the project schedule, it will have a direct impact on the project end date.

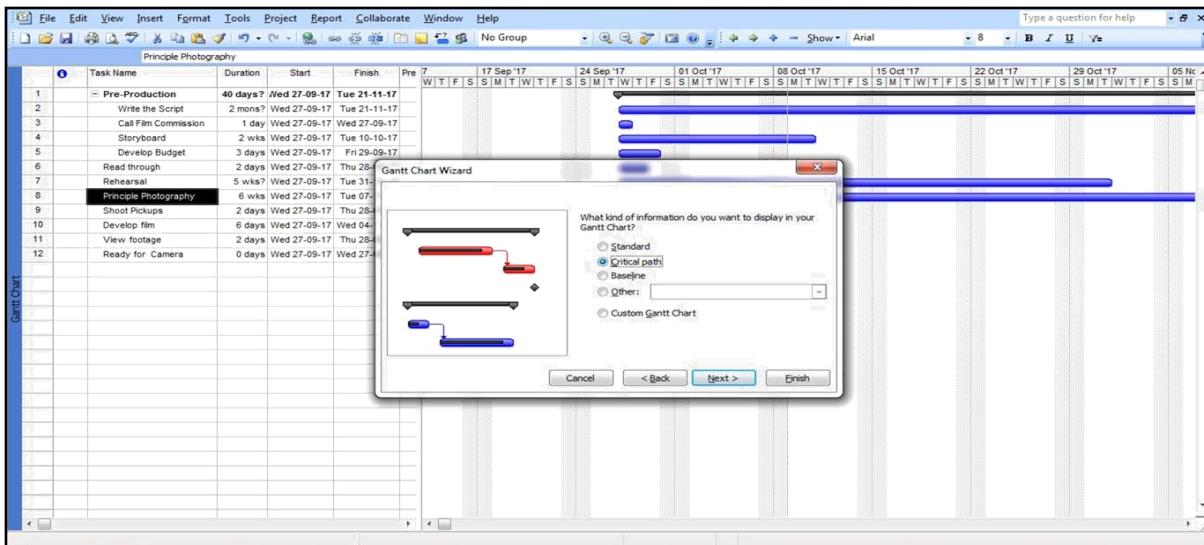
Steps:

To see the Gantt Chart View, follow these steps:

1. Open your project schedule in Microsoft Project.
2. Go to View | Gantt chart View.

Start the Gantt chart Wizard

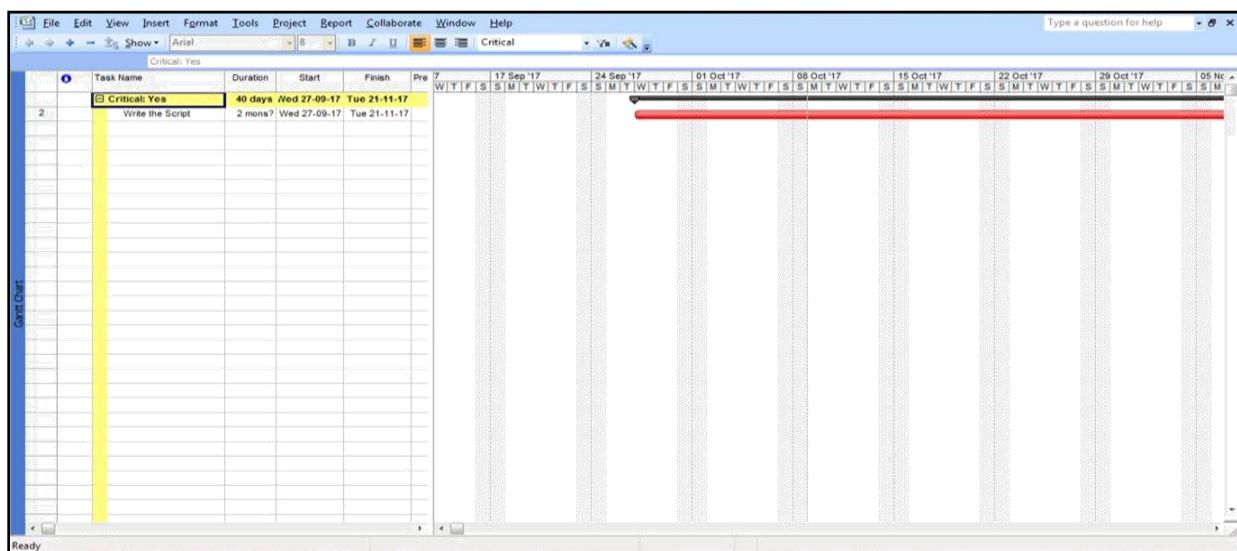




If we want to get a list of just the critical path tasks (Figure 2), you can use the Group By option in the Microsoft Project toolbar. I often use this view to determine which tasks and resources are on the critical path. This extra level of detail helps me understand what needs to be accomplished and who is responsible for the task.

Steps to view the critical path tasks

1. Confirm the standard toolbar is displayed. it should be there by default, but if it isn't, you can go to view | toolbars | standard.
2. Click the group by drop-down box (figure 3) and select critical from the list of values.



Result: In this experiment, we find the critical path and the result is shown in screenshots

Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
Amity University, Noida (UP)

Programme	B. Tech CSE	Course Name	Software Project Management
Course Code	[CSE-432]	Semester	7
Student Name	Aditya Raj Singh	Enrollment No.	A2305219837

Marking Criteria

Criteria	Total Marks	Marks Obtained	Comments
Concept (A)	2		
Implementation (B)	2		
Performance (C)	2		
Total	6		

Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
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Internal Assessment (Mandatory Experiment) Sheet for Lab Experiment
Department of Computer Science & Engineering
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