



**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.  
(Autonomous College Affiliated to University of Mumbai)  
**MASTER OF COMPUTER APPLICATIONS**

**Academic Year –**  
**2022-23**

**Class:**  
F.Y.MCA

**Semester:**  
I

**Subject: Software Engineering**  
**Lab**

**Subject In charge: Nikhita Mangaonkar**

**Course Code:**  
MC503

**ROLL NO : 5**

**BATCH: A**

**NAME: Tanmay Prashant Chavan**

**EXPERIMENT NO: 06**

**EXPERIMENT TITLE:** Create Work breakdown Structure and Plan Gantt Chart

**Objective:**

- 1) To Establish the Project Start or Finish Date
- 2) To analyze Tasks and sub task for given task
- 3) To add Task and sub task Durations
- 4) To Add Resources and allocate the task
- 5) To develop a Gantt chart for a given case study.
- 6) To develop Pert/CPM chart for given case study

**DATE TURN 1:**

**PRACTICAL EVALUATION:**

<b>PI1: On Time</b>	<b>PI2:Performance</b>	<b>PI3: Documentation</b>	<b>PI5 : Lab Ethics</b>	<b>Marks Per Experiment</b>
<b>0.5</b>	<b>3</b>	<b>1</b>	<b>0.5</b>	<b>5</b>



BHARATIYA VIDYA BHAVAN'S  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.  
(Autonomous College Affiliated to University of Mumbai)  
**MASTER OF COMPUTER APPLICATIONS**

**Academic Year —**  
**2022-23**

**Class:**  
**F.Y.MCA**

**Semester:**  
**I**

**Subject: Software Engineering**  
**Lab**

**Course Code:**  
**MC503**

**Subject In charge: Nikhita Mangaonkar**

**Screenshots required for each and every step**

1) Add new Task

The screenshot shows the GanttProject application window. The 'Gantt' view is selected, and a context menu is open over the task list. The menu options are: New task (highlighted), Task Properties..., Unindent, Indent, Up, Down, Copy, Cut, Paste, Delete Task, and Assignments. The task list on the left includes: 1 Plan and Analysis, 2 Design, 3 Coding, 3.1 Front UI, and 3.2 Add New Data Func... (selected). The Gantt chart on the right shows a timeline from January 2023 to February 2023.

Name	Begin d...	End date
1 Plan and Analysis	18/01...	18/01...
2 Design	18/01...	18/01...
3 Coding	18/01...	18/01...
3.1 Front UI	18/01...	18/01...
3.2 Add New Data Func...	18/01...	18/01...



**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.  
(Autonomous College Affiliated to University of Mumbai)  
**MASTER OF COMPUTER APPLICATIONS**

**Academic Year —**  
**2022-23**

**Class:**  
F.Y.MCA

**Semester**  
I

**Subject: Software Engineering**  
**Lab**

**Subject In charge: Nikhita Mangaonkar**

**Course Code:**  
MC503

2) Assign resource to task

**GanttProject**

Project Edit View Tasks Resources Help

Ctrl + F

**Properties for 1 Plan and Analysis**

General Predecessors Resources Custom Columns

Add Delete

ID	Resource Name	Unit	Coordinator	Role
7	Aditya Shivastav	100.0	<input checked="" type="checkbox"/>	web designer
0	Tanmay Chavan	100.0	<input type="checkbox"/>	project manager

**Task cost**

☒ Calculated: 0.0

☐ Set explicitly: 0.0

Ok Cancel

Cloud: disconnected RSS Warning Errors



**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.  
(Autonomous College Affiliated to University of Mumbai)  
**MASTER OF COMPUTER APPLICATIONS**

**Academic Year —**  
**2022-23**

**Class:**  
F.Y.MCA

**Semester**  
r: II

**Subject: Software Engineering**  
**Lab**

**Subject In charge: Nikhita Mangaonkar**

**Course Code:**  
MC503

### 3) Creating resource

The screenshot shows the GanttProject application interface. On the left, a task list is visible with tasks like '1 Plan and Analysis', '2 Design', '3 Coding', '4 Testing', and '5 Deploy and Maintain...'. The main area displays a Gantt chart for January and February 2023. A 'Resources' dialog box is open in the center, allowing the user to create a new resource. The dialog has tabs for 'General', 'Days off', 'Custom Columns', and 'Assignments'. The 'General' tab is active, showing fields for Name, Phone, Mail, and Default role. The 'Resource payment rate' section is also visible, with fields for Standard rate, Total Cost, and Total Load. The 'Name' field is filled with 'Aditya Shivastav', 'Phone' with '456789123', 'Mail' with 'aditya.shrivastav', and 'Default role' is set to 'web designer'. The 'Standard rate' is 0, 'Total Cost' is 0, and 'Total Load' is 0.0. 'Ok' and 'Cancel' buttons are at the bottom right of the dialog.

Name	Begin date	End date
1 Plan and Analysis	18/01/...	26/01/...
2 Design	27/01/...	02/02/...
3 Coding	03/02/...	16/02/...
4 Testing	17/02/...	21/02/...
4.1 Unit Testing	17/02/...	21/02/...
4.2 Integration Testing	17/02/...	21/02/...
4.3 System Testing	17/02/...	21/02/...
5 Deploy and Maintain...	22/02/...	22/02/...
5.1 Implement CI/CD	22/02/...	22/02/...

**Resources Dialog Box Fields:**

- Name: Aditya Shivastav
- Phone: 456789123
- Mail: aditya.shrivastav
- Default role: web designer
- Resource payment rate:
  - Standard rate: 0
  - Total Cost: 0
  - Total Load: 0.0



**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.  
(Autonomous College Affiliated to University of Mumbai)  
**MASTER OF COMPUTER APPLICATIONS**

**Academic Year –**  
**2022-23**

**Class:**  
**F.Y.MCA**

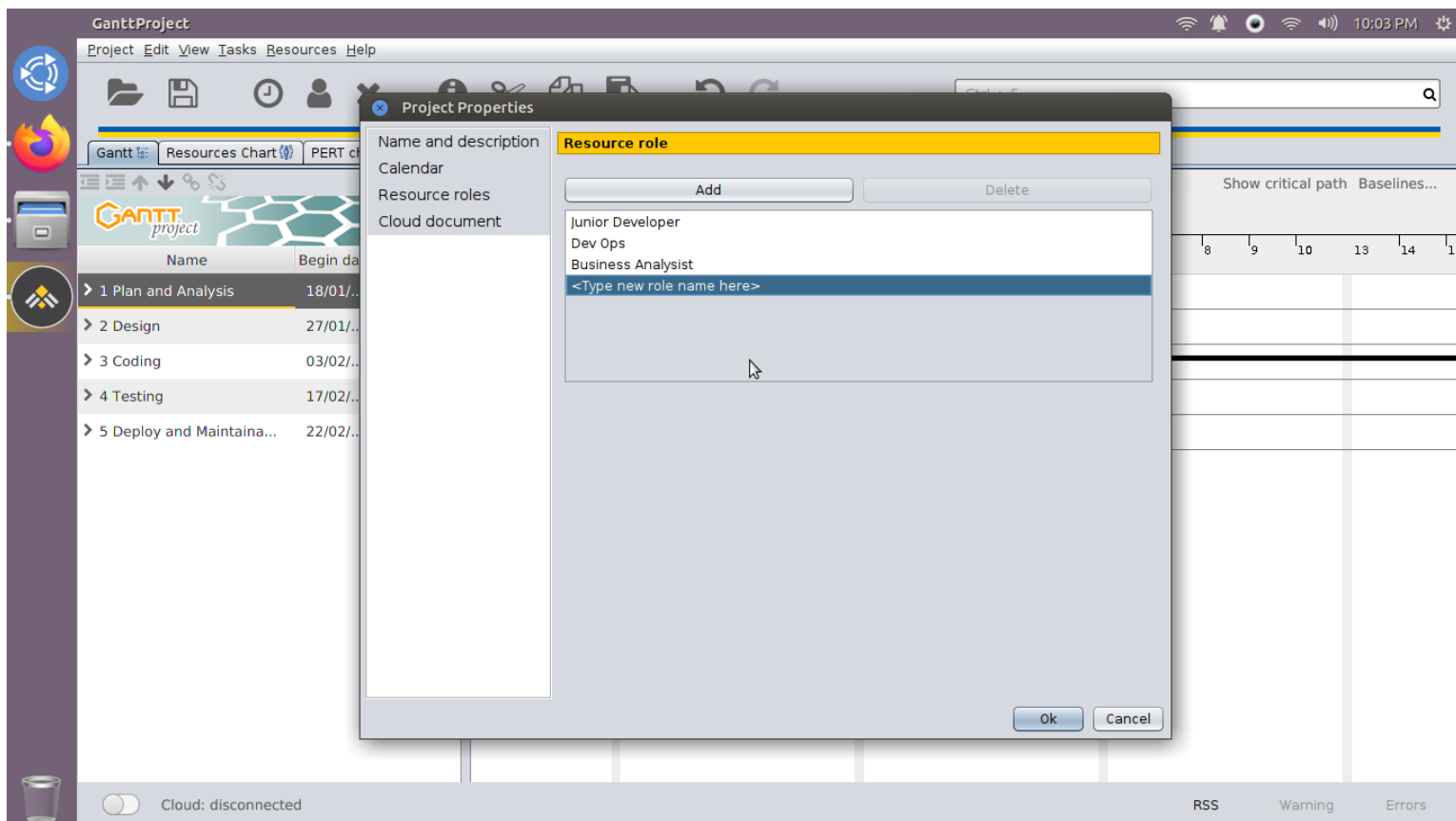
**Semester:**  
**I**

**Subject: Software Engineering**  
**Lab**

**Subject In charge: Nikhita Mangaonkar**

**Course Code:**  
**MC503**

#### 4) Creating Roles





**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.  
(Autonomous College Affiliated to University of Mumbai)  
**MASTER OF COMPUTER APPLICATIONS**

**Academic Year —**  
**2022-23**

**Class:**  
**F.Y.MCA**

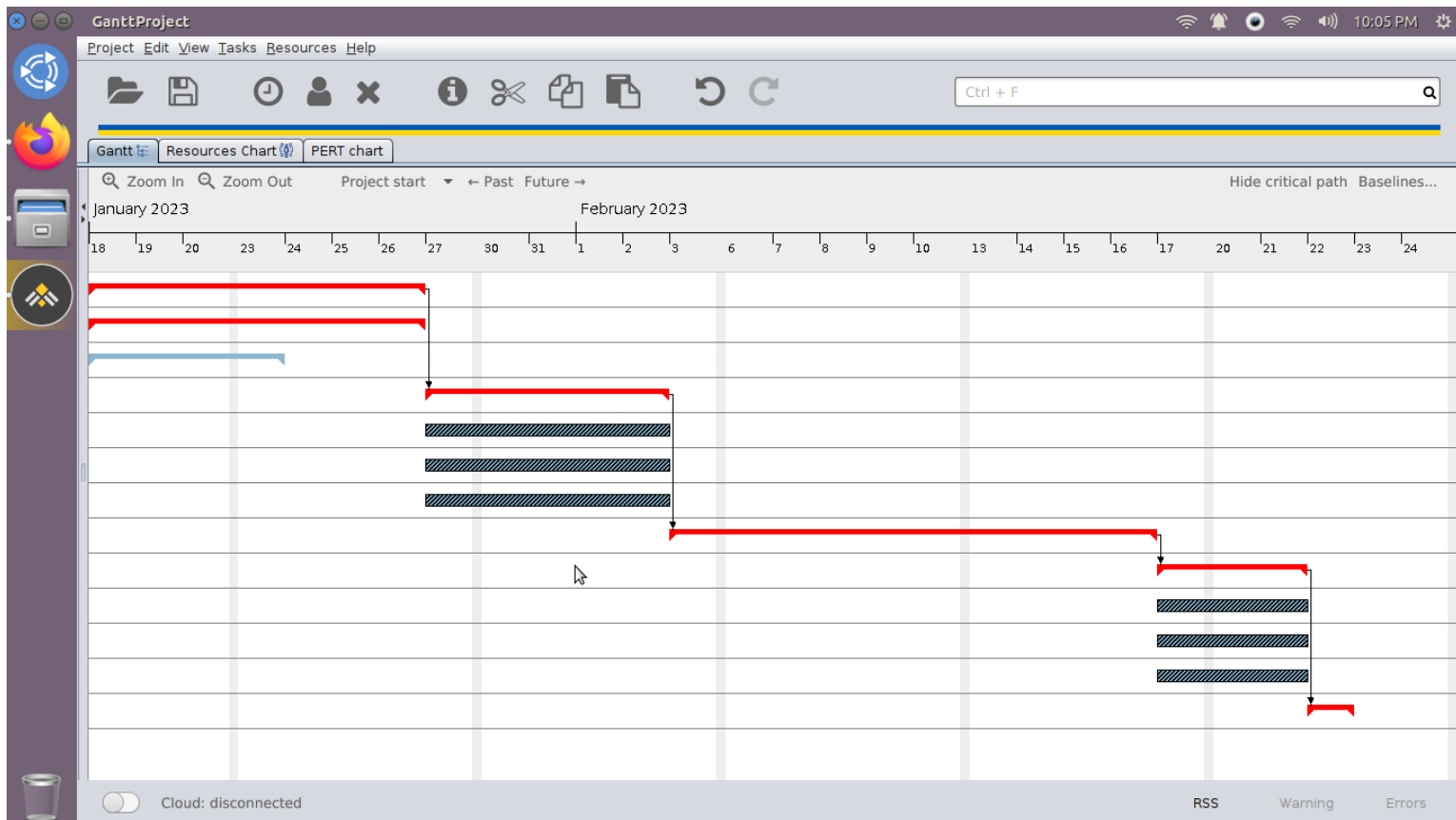
**Semester**  
**I**

**Subject: Software Engineering**  
**Lab**

**Subject In charge: Nikhita Mangaonkar**

**Course Code:**  
**MC503**

## 5) Critical Path





**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.  
(Autonomous College Affiliated to University of Mumbai)  
**MASTER OF COMPUTER APPLICATIONS**

**Academic Year —**  
**2022-23**

**Class:**  
**F.Y.MCA**

**Semester:**  
**I**

**Subject: Software Engineering**  
**Lab**

**Subject In charge: Nikhita Mangaonkar**

**Course Code:**  
**MC503**

## 6) Indent

The screenshot shows the GanttProject application window. The title bar reads 'GanttProject'. The menu bar includes 'Project', 'Edit', 'View', 'Tasks', 'Resources', and 'Help'. The toolbar contains icons for file operations, task management, and navigation. The main window is divided into two panes: a task list on the left and a Gantt chart on the right. The task list has columns for 'Name', 'Begin d...', and 'End date'. The Gantt chart shows a timeline from January 2023 to February 2023. A context menu is open over the task list, with the 'Indent' option highlighted. The menu options are: 'New task', 'Task Properties...', 'Unindent', 'Indent', 'Up', 'Down', 'Copy', 'Cut', 'Paste', and 'Delete Task'. The status bar at the bottom shows 'Cloud: disconnected', 'RSS', 'Warning', and 'Errors'.

Name	Begin d...	End date
1 Plan and Analysis	18/01...	18/01...
2 Design	18/01...	18/01...
3 Coding	18/01...	18/01...
3.1 Front UI	18/01...	18/01...
3.2 Add New Data	18/01...	18/01...
3.3 Implement No	18/01...	18/01...



**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.  
(Autonomous College Affiliated to University of Mumbai)  
**MASTER OF COMPUTER APPLICATIONS**

**Academic Year –**  
**2022-23**

**Class:**  
**F.Y.MCA**

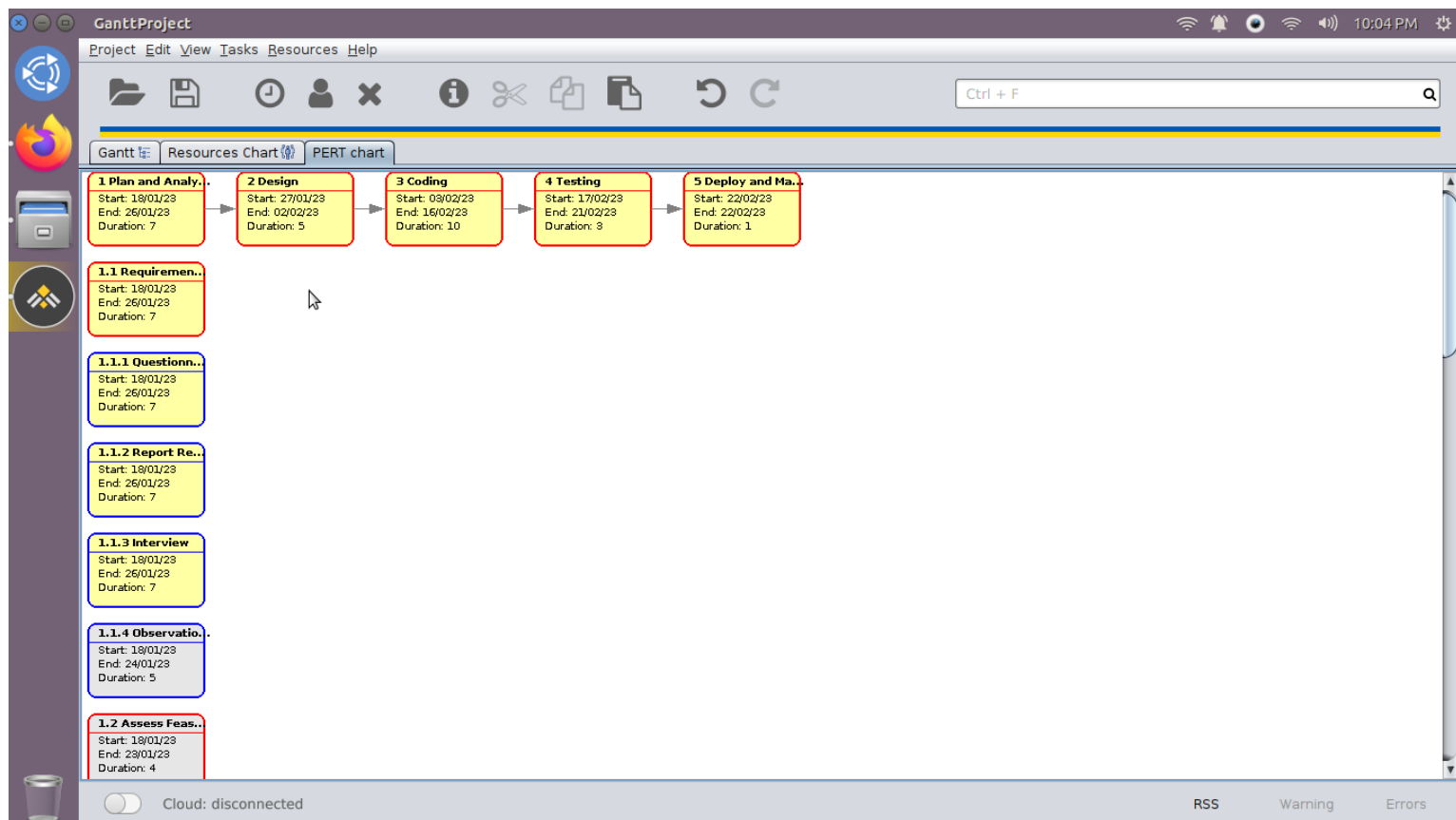
**Semester:**  
**I**

**Subject: Software Engineering**  
**Lab**

**Subject In charge: Nikhita Mangaonkar**

**Course Code:**  
**MC503**

## 7) PERT Chart







**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**  
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI - 400 058.  
(Autonomous College Affiliated to University of Mumbai)  
**MASTER OF COMPUTER APPLICATIONS**

**Academic Year —**  
**2022-23**

**Class:**  
**F.Y.MCA**

**Semester**  
**I**

**Subject: Software Engineering**  
**Lab**

**Subject In charge: Nikhita Mangaonkar**

**Course Code:**  
**MC503**

8) Resource chart

