20SA8751 – COMPUTER AIDED PROJECT MANAGEMENT LAB

| Course Category | | | y: Skill Oriented Course | | | | | | | | Credits: | | | 2 | |
|--|---|--|---|-----|-----|----------|--------|---------|----------|----------|---------------------------|----------|------------|------------|--|
| Course Type: | | | Laboratory | | | | | | | Le | Lecture-Tutorial- | | 1-0-2 | | |
| Course Type: | | | | | | | | | | | Practical: | | | | |
| | | | Nil | | | | | | | | Continuous Evaluation: | | - | | |
| Prerequisites: | | | | | | | | | | | Semester End | | | | |
| | | | | | | | | | | ' | Evaluation: | | | 50 | |
| | | | | | | | | | | | Total Marks: | | | 50 | |
| | e Outco | | , | | | | | | | • | | | | | |
| Upon | | | pletion of | | | | | | | | | | | | |
| CO1 | | | soft Project to develop accurate project task, time, resource, and cost relationship | | | | | | | | onships | K3 | | | |
| | following current professional and/or industry standards. | | | | | | | 170 | | | | | | | |
| CO2 | | | hinking skills to design and create accurate Gantt charts. | | | | | | | | K3 K3 | | | | |
| | | | d analyze the predicted incoming and outgoing cash for a set period of time and also | | | | | | | | | | | | |
| CO4 | control costs by Earn Value Analysis. | | | | | | | | | | | ina uisc | K4 | | |
| | Contribution of Course Outcomes towards achievement of Program Outcomes | | | | | | | | | | | | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | |
| CO1 | | | | | 3 | | | | | | 3 | | | 3 | |
| CO2 | | | | | 3 | | | | | | 3 | | | 3 | |
| CO3 | | | | | 3 | | | | | | 3 | | | 3 | |
| CO4 | | | | | | | | | | | 3 3 | | | 3 | |
| Avg. | | 1. I | OW | | 3 | | 2-Mad | lium | | | | -High | | 3 | |
| 1- Low 2-Medium 3-High Course Content | | | | | | | | | | | | | | | |
| | | | | | | | | | | 1 0 . | | | | | |
| | | NT. 1 | | | | | | | | | g Projec | | | | |
| Expe | riment | N0.1 | | | | | | | | | List, Imp | orting D | ata, | | |
| | | | Modifying and Applying Calendars, Setting Scheduling Options. Working with Estimates and Dependencies: Entering tasks, Creating WBS | | | | | | | | | /BS | | | |
| Experiment No.2 | | codes, Entering a Duration or Work Estimate, Creating Links between Tasks, | | | | | | | | | | | | | |
| | | Adding Lag or Lead Times, Displaying Links in Network Diagram View | | | | | | | | | | | | | |
| | | Working with Deadlines, Constraints, and Task Calendars: Displaying the | | | | | | | | | | | | | |
| Expe | riment | No.3 | Critical Path f Setting a Deadline, Setting a Constraint, Responding to Situations, | | | | | | | | | | | | |
| | | Triggered by Deadlines and Constraints, Creating and Applying a Task Calendar to Meet a Deadline, Finding and Removing Constraints in a Schedule | | | | | | | | | | | | | |
| Experiment No.4 | | Working With Resources: Adding Resources to the Resource Sheet View, | | | | | | | | | | ew. | | | |
| | | | Creating and Modifying Resource Assignments, Entering Project Costs and | | | | | | | | | | | | |
| | | Project 1 | | | | | | | | | | | | | |
| Experiment No.5 | | | | | | | | | | | tering Ac | | | CO1 CO2 | |
| | | | Updates for Tasks and Resources, Controlling Projects by Finding Variance and Suggesting Corrective Action, Applying Techniques to Shorten Duration, Reduce | | | | | | | | | | | | |
| | | | _ | | | ı, Appıy | ing re | cimique | s to Sno | ten Dura | поп, кес | uce | CO3 CO4 | | |
| | | Work and Reduce Cost. Data Structure of Primavera: About Organizational Breakdown Structure, | | | | | | | | | | ure. | CO4 | | |
| Experiment No.6 | | Procedure to Create an OBS, About Enterprise Project Structure, Procedure to | | | | | | | | | | | | | |
| | | create EPS, Creation of Project in web and client | | | | | | | | | | | | | |
| Experiment No.7 | | | Modification of Calendar: Introduction to Calendar, Types of Calendars, | | | | | | | | | | | | |
| | | | Creating global calendars both web & client, Editing thestandard work weeks & | | | | | | | | | | | | |
| | | its time, Create Exception, Creating Project calendars both web & client, Creating | | | | | | | | | | | | | |
| | | Resource calendars both web & client, Conversions in calendars, Working with | | | | | | | | | | | | | |
| | | | timescale in Gantt chart. | | | | | | | | | | n a | | |
| Experiment No.8 | | Work Breakdown Structure: Creation of WBS in both Web & Client, Creating | | | | | | | | | | - | | | |
| | | an Activity, Assign Calendar to the Project in web, Creating Activities in web, | | | | | | | | | | | | | |
| | | Configuring General Tab, Delete an activity, Various ways to create an Activity | | | | | | | | | | - | | | |
| | | in client, Adding Relationships to the Activities in various methods in both web | | | | | | | | | | | | | |
| | | & client, Dissolve Activity, Apply Lead or Lag, Procedure to apply Lead or Lag, | | | | | | | | | | ıg, | | | |

| | Views. | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|
| | Resource allocation, smoothening and levelling: Assigning Resources to an | | | | | | | |
| Experiment No.9 | Activity, Assign Resource to Multiple Activities, Assigning Resources by using | | | | | | | |
| | Role, Resource Analysis and Resource Levelling in both web & client | | | | | | | |
| Experiment No.10 | Tracking: Choose a Method for Updates in both Web & Client, Perform Earned | | | | | | | |
| Experiment No.10 | Value analysis in web & client server. | | | | | | | |
| Learning Resources | | | | | | | | |
| | | | | | | | | |
| Text Books | 1. Jimmie W. Hinze, Construction Planning and Scheduling, edition 4th 2011,(3rd | | | | | | | |
| Text Dooks | edition), Publisher: Prentice Hall | | | | | | | |
| | User Manual- MS Project & Primavera P6. | | | | | | | |
| Reference | 2. Rain Diana, "Training Guide to Microsoft Access", 2008 BPB Publications, New | | | | | | | |
| | Delhi | | | | | | | |
| Books | 3. Raina V.K., "Construction Management practice", edition 2nd 2009 (1988), Tata – | | | | | | | |
| | McGraw Hill publishing co.Ltd. | | | | | | | |