SCHEME OF COURSE WORK

Course Details:

Course Title	**: Project Management Laboratory**		
Course Code	**: 19CE2108**	**L P C**	**: 0 3 1.5**
Program:	**: M. Tech.**		
Specialization:	**: Civil Engineering**		
Semester	**: II**		
Prerequisites	**: Construction Management**		
Courses to which it is a prerequisite	**: None**		

Course Outcomes (COs):
At the end of the course, the student will be able to:

1	Create, save and open layouts in software
2	Create Work Breakdown Structure
3	Define and edit relationships and prepare a schedule using date and float constraints
4	Demonstrate the ability to define resource calendars and resource leveling
5	Integrate planning and scheduling mini projects

Program Outcomes (POs):
Post graduates will be able to:

1. Synthesize existing and new knowledge in various sub areas of infrastructural engineering.
2. Analyse complex engineering problems critically with adequate theoretical background for practical applications.
3. Evaluate a wide range of feasible and optimal solutions after considering safety and environmental factors.
4. Demonstrate the ability to pursue research by conducting experiments and extract the relevant information through literature surveys.
5. Use state –of- the- art of modern tools for interpreting the behavior and modeling of complex engineering structures.
6. Attain the capability to work in multi-disciplinary teams to achieve common goals.
7. Demonstrate the knowledge to perform the projects efficiently in multi-disciplinary environments after consideration of economical and financial matters.
8. Communicate effectively on complex engineering activities to prepare reports and make presentations.
9. Engage in life-long learning independently to improve knowledge.
10. Understand the responsibility of carrying out professional practices ethically for sustainable development of society.
11. Examine critically and independently one’s actions and take corrective measures by

Course Outcome versus Program Outcomes:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO-1	M		M			M				M	M	M
CO-2	S	S	S	M		M				M	M	M
CO-3	M	S	M	M		M				S	M	M
CO-4	M	M		S		M				M	M	M
CO-5	S	S	S	M	S	M		M		M	M	M

S - Strongly correlated, M - Moderately correlated, *Blank - No correlation*

Assessment Methods:	Assignment / Seminar / Mid-Test / End Exam

Teaching-Learning and Evaluation

Week No.	**TOPIC / CONTENTS**	**Course Outcomes**	**Sample questions**	**TEACHING-LEARNING STRATEGY**	**Assessment Method & Schedule**
1	Introduction to MS project software	CO-1		▫ Lecture	
2-7	1. Creation, saving and opening layouts. 2. Working with activities. 3. Defining relationships – Editing and selecting relationships. 4. Preparing a schedule, usage of date and float constraints. 5. Defining resource calendars. 6. Breaking down project components.	CO-1, CO-2,CO-3,CO-4	1.Create & Save a sample project 2. Demonstrate the working with activities of a project 3. Workout various relationships in a project 4. Create & customize the calendar 5. Demonstrate the work breakdown structure of a typical project	▫ Experiment	Checking Observation note book, Record correction and Viva, Mid Test-1
9	**MID TEST – I**				
10-14	7. Defining custom data items. 8. Planning resources and costs. 9. Resource leveling. 10. Mini Project –I 11. Mini Project –II 12. Mini Project –III	CO-3,CO-4 & CO-5	1. Assign the resource to a typical project 2. Work out the costs of a project 3. Carry out the resource leveling for a project 4. Draw a network diagram & project duration of a given project	▫ Experiment ▫	Checking Observation note book, Record correction and Viva, Mid Test-2
15	**MID TEST – II**				
16	**END EXAM**				