

<b>COURSE TITLE</b>	:	<b>COMPUTER APPLICATIONS LAB -II</b>
<b>COURSE CODE</b>	:	<b>408</b>
<b>COURSE CATEGORY</b>	:	<b>A</b>
<b>PERIODS/WEEK</b>	:	<b>3</b>
<b>PERIODS/SEMESTER</b>	:	<b>54</b>
<b>CREDITS</b>	:	<b>2</b>

### TIME SCHEDULE

<u>MODULE</u>	<u>TOPIC</u>	<u>PERIODS</u>
I	<b>Using MS Project – Test I</b>	8 2
II	<b>Using Design Packages Test II</b>	14 2
III	<b>Surveying &amp; GIS Test III</b>	12 2
IV	<b>Estimating of buildings using Estimator packages Test IV</b>	12 2
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<b>Total</b>		<b>54</b>

### *Rationale*

*The usage and knowledge of advanced packages in Civil Engineering is an essential for the students in their career and profession*

### OBJECTIVES

#### MODULES

- 1.1 Using Project Management software**
  - 1.1.1 Identifying task & their duration
  - 1.1.2 Assigning resources – Linking tasks
  - 1.1.3 Estimating time required for completing the project
  - 1.1.4 Identifying the critical path
- 2.1 Using Design Packages**
  - 2.1.1 Carryout the analysis and design of structures and report the details using any available structural analysis and design application software (at least one package)
  - 2.1.2. Design the concrete mix for a given strength and workability using any available Concrete mix design package
- 3.1 Surveying & GIS**
  - 3.1.1 Solve the problems of surveying using any available surveying and GIS application packages (at least one package)
  - 3.1.2 Digitize the given map and connect the attribute data to the map using any available application software
- 4.1 Estimating of buildings using Estimator packages**
  - 4.1.1 Preparation of detailed quantity calculation, rate analysis, abstract of cost using available packages

#### **REFERENCES:**

1. GIS-AICTE continuing Education Module on “Geographical information systems” prepared by TTTI, Chennai
2. Teach yourself Microsoft Project