

## LESSON PLAN FOR THE SESSION FEB - MAY 2024-25 (Even Semester)

**FACULTY NAME:** Mr. SRIVATHSA H U

**SUBJECT:** SOFTWARE APPLICATION LAB

**SEMESTER:** 6<sup>TH</sup>

**BATCH:** B1

**SUBJECT CODE:** BCVL606

Chapter Title	Class No	Date planned	Software	Topics proposed to be covered	Portion to be covered in %
INTRODUCTION	1		Syllabus & Course Outcomes		
Use of Excel Spread Sheets					
	1		MS EXCEL	Design of horizontal curve by offset method	30
	2		MS EXCEL	Design of super elevation	
	3		MS EXCEL	Computation of earthwork	
GIS applications using open-source software:					
	4		QGIS	To create shape files for point, line and polygon features with a map as reference	40
Use of civil engineering software's:					
	5		ETABS	Analysis of continuous beams & plane trusses	80
	6		ETABS	Analysis of plane trusses & portal frames	
	7		ETABS	3D analysis of Multi-storied frame structures	
	8		ETABS	3D analysis of Multi-storied frame structures	
Project Management - Exercise on Project planning and scheduling of a building project using any project management software					
	9		MSP	Project planning and scheduling of a building project	100
	10		MSP	Project planning and scheduling of a building project	
			LAB INTERNAL		

### LIST OF TEXT BOOKS

1. I.P. C. Varghese, "Limit state design of reinforced concrete", PHI New Delhi
2. Reddy C S, "Basic structural analysis". Tata McGraw-Hill publishing Company Ltd.
3. P C Tripathi and P N Reddy, "Principles of Management", Tata McGraw-Hill Education
4. The GIS Book – George B Korte, P.E – 5 TH Edn. Thomson Learning.

### LIST OF REFERENCE BOOKS

1. Training manuals and User manuals
2. Relevant course reference books