|| Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust (R) ADICHUNCHANAGIRI UNIVERSITY

BGS Institute of Technology

B. E. CIVIL ENGINEERING

Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

18CVL67	Course Code	SOFTWARE APPLICATION LAB	Course Title	VI	Semester	
2	Credits	1-0-2-3	L-T-P-TL*	42 Hours	Teaching Period	
100 Marks	Total	60 Marks	SEE*	40 Marks	CIE*	
*NOTE:L – Lecture; T – Tutorial; P – Practical; TL – Total;						
CIF - Continuous Internal Evaluation: SFF - Semester End Evamination						

Course objectives: This course will enable students to	Number of
1. Use industry standard software in a professional set up.	Lecture
2. Understand the elements of finite element modelling, specification of loads and	Hours /
boundary condition, performing analysis and interpretation of results for final	Week
design	
3. Develop customized automation tools	
Module-1	
Use of civil engineering softwares: ETABS / STAD PRO	
Use of softwares for:	
1. Analysis of plane trusses, continuous beams, portal frames	
2. 3D analysis of multistoried frame structures	
Module-2 1. Project Management- Exercise on Project planning and scheduling of a	
building project using any project management software:	
a. Understanding basic features of Project management software	03=(1 Hour
b. Constructing Project: create WBS, Activities, and tasks and Computation Time using Excel spread sheet and transferring the same to Project management software. c. Identification of Predecessor and Successor activities with constrain	Instruction + 2 Hours Laboratory)
d. Constructing Network diagram (AON Diagram) and analyzing for Critical path, Critical activities and Other non Critical paths, Project duration, Floats. e. Study on various View options available	
f. Basic understanding about Resource Creation and allocation	
g. Understanding about Resource Creation and anocarion g. Understanding about Splitting the activity, Linking multiple activity, assigning	
Constrains, Merging Multiple projects, Creating Baseline Project.	
Constraints, 1.121gmg 1.1411pte projects, Creating Dasenie 110ject.	

Question paper pattern:

Two questions shall be asked from each Module.

- One full question should be answered from each Module.
- Each question carries 50 marks.

Reference Books: Training manuals and User manuals and Relevant course reference books.

Course outcomes: After studying this course, students will be able to: use software skills in a professional set up to automate the work and thereby reduce cycle time for completion of the work.