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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)

18CVL47	**Course Code**	**SURVEY PRACTICE II**	**Course Title**	**IV**	**Semester**
02	**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; **CIE** – Continuous Internal Evaluation; **SEE** – Semester End Examination					

Course Learning Objectives: 1. To provide knowledge of Total Station. 2. To develop skills in using Total Station and analyse data. 3. To develop skills to conduct traverse survey & to find the area.	**Number of Lecture Hours/Week**
Experiments: 1. Study of Total station for measurement of distance and angles 2. To determine area of a field using Total Station 3. Traversing using Total Station 4. Contouring using Total Station 5. Determination of Remote height using Total station 6. Staking out using Total station 7. Distance, gradient, difference in height between two inaccessible points using Total station 8. Preparation of Topo map using Total station data.	**03 = (1 Hour Instruction + 2 Hours Laboratory)**
Course outcomes: At the end of the course, the student will be able to 1. Apply the principle of surveying for civil engineering applications. 2. Calculate areas of field, drawing plans and contour maps using Total station. 3. To prepare the topographical map which shows the hills, valleys, rivers, villages, towns, forests etc. of a country. 4. To prepare an engineering map which shows the details of engineering work such as roads, railways, reservoirs, irrigation canals etc. 5. To prepare a contour map to determine the capacity of a reservoir and to find the best possible route for roads, railways etc.	
Question paper pattern: Questions for CIE and SEE will be designed to evaluate the various educational components such as:	

Sl. No	Bloom's taxonomy	% in Weightage
1	Remembering and Understanding	20
2	Remembering and Understanding	50
3	Analysis	10
4	Synthesis (Creating new knowledge)	10
5	Evaluation	10