

20PEB128P					SURVEYING PRACTICAL					
Teaching Scheme					Examination Scheme					
L	T	P	C	Hours/Week	Theory			Practical		Total Marks
					MS	ES	IA	LW	LE/Viva	
0	0	2	1	2	0	0	0	50	50	100

#### COURSE OBJECTIVES

- Demonstrate the need of and procedure of surveying.
- Enhances skill to use the surveying equipment.
- Enhances skills to survey an area swiftly.
- Develop skills to design site preparation plan for exploration activities

#### LIST OF EXPERIMENT

1. Measurement of offsets for a building using tape survey
2. Compass traverse survey for closed traverse and corrections on internal angles
3. Simple leveling and measurement of gradients
4. Profile leveling and cross-section leveling for a survey line
5. Preparation of a contour sheet for an area
6. Measurement of horizontal and vertical angles using theodolite
7. Measurements using total station
8. Field project using total station

#### COURSE OUTCOMES

On completion of the course, student will be able to

CO1- Know the principles and procedure of conducting linear and angular measurement survey

CO2- Classify different types of survey methods and its advantages

CO3- Understand the procedure of conducting survey by using plane table, compass, level and theodolite

CO4- calculate the area, volume and elevation of given site.

#### TEXT / REFERENCE BOOKS

1. Surveying and Levelling Vol. I and Vol. II by T. P. Kanetkar and S.V.Kulkarni , Pune Vidyarthi Griha Prakashan.
2. Surveying and Levelling by Subramanian, Oxford University Press.

#### END SEMESTER EXAMINATION QUESTION PAPER PATTERN

**Max. Marks: 100**

**PART A:** 10 Questions of 2 marks each-No choice

**PART B:** 2 Questions from each unit with internal choice, each carrying 16 marks

**Exam Duration: 3 Hrs.**

**20 Marks**

**80 Marks**