

IV. CORE COURSE PRACTICAL [CPGEO204]:

(Credits: Practical-05)

Marks: 30 (ESE: 20 Viva + 5Attd. + 5 Record) + 70 (ESE Pr: 6Hrs)=100**Pass Marks =45*****Instruction to Question Setter:******End Semester Practical Examination (ESE Pr):***

The questions in practical examination will be of equal to 70 marks and will be so framed that the students are able to answer them within the stipulated time. 20 marks will be awarded on the performance in viva voce whereas 10 marks will be awarded on cumulative assessment which is further subdivided as 5 marks for Practical record and 5 marks for Attendance.

Note:

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd, 5 marks).

PRACTICAL-II**Practical: 60Hours****INSTRUMENTAL SURVEY (PRACTICAL)****Unit 1:**

Importance of field work, Scope and purpose, Types of survey, Principles and applications of selected survey instruments, Plane Table, Plan preparation, Resection method: two point problem, three point problem, Tracing paper method.

Unit 2:

Prismatic Compass: Open and closed traverse, elimination of error by Bowditch Rule. Other smaller instruments: Sextant, Abney Level and Indian Clinometer. Dumpy Level: Traverse Survey, Spot height determination and contour plan preparation,

Unit 3:

Theodolite: horizontal and vertical (height) measurement, Accessible and inaccessible method. Survey of selected area, Preparation of base map by the use of surveying instruments.

Unit 4:

Measures of Central Tendency, Dispersion, Skewness, Kurtosis, Moments, Correlation, Regression.

References:

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- Kaanetkar and Kulkarni: Surveying and Levelling, Part-I and Part-II.
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