

SURVEYING – I (COMMON TO CV/TR/EV/CTM)

Written by Administrator

Friday, 23 October 2009 11:19 - Last Updated Friday, 23 October 2009 11:29

Sub Code

:

06 CV 34

□

IA Marks

:

25

Hrs/ Week

:

04

□

Exam Hours

:

03

Total Hrs.

:

52

□

Exam Marks

:

100

5 Hours

UNIT 3:

Chain Surveying

Accessories required, 3.2 Selection of stations and lines, 3.3 Offsets and types 3.4 Setting out of right angles, 3.5 Working principle and use of optical square, prism square, cross staff., 3.6 Linear methods of setting out right angles, 3.7 Booking of chain survey work, 3.8 Field book, entries, conventional symbols, 3.9 Obstacles in chain survey, Numerical problems, 3.10 Errors in chain survey and precautions

to be taken.

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7 Hours

UNIT 4:

Compass Surveying

4.1 Meridians and bearings, 4.2 Principle, working and use of - Prismatic compass 4.3 Surveyor's compass, 4.4 Magnetic bearing, true bearings, 4.5 WCB and Reduced bearing. 4.6 Dip and Declination

UNIT 6:

Introduction to Levelling

6.1 Principles and basic definitions, 6.2 Fundamental axes and part of a dumpy level, 6.3 Types of adjustments and objectives, 6.4 Temporary adjustments of a dumpy level, 6.5 Sensitiveness of bubble tube, 6.6 Curvature and refraction correction, 6.7 Type of leveling, 6.8 Simple leveling, 6.9 Reciprocal leveling, 6.10 Profile leveling, 6.11 Cross sectioning, 6.12 Fly leveling,

7 Hours

UNIT 7:

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8.1 Plane table and accessories, 8.2 Advantages and limitations of plane table survey, 8.3 Orientation and methods of orientation, 8.4 Methods of plotting – Radiation, Intersection, Traversing, 8.5 Resection method, 8.6 Two point and three point problems, 8.7 Solution to two point problem by graphical method, 8.8 Solution to three point problem Bessel's graphical method, 8.9 Errors in plane table survey.

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5 Hours

TEXT BOOKS:

1. **'Surveying'** Vol-1 – B.C. Punmia , Laxmi Publications, New Delhi.
2. **'Plane Surveying'** Vol-1-A.M. Chandra , Newage International ® Ltd.

'Plane Surveying' – ALAK , S. Chand and Company Ltd., New Delhi.

REFERENCE BOOKS:

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1. **Fundamentals of Surveying** - Milton O. Schmidt – Wong, Thomson Learning.

 2. **Fundamentals of Surveying** - S.K. Roy – Prentice Hall of India.

 3. **Surveying** Vol. I, S.K. Duggal, Tata McGraw Hill - Publishing Co. Ltd., New Delhi.
- * Survey of India Publication on maps.