

DEMAND PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL UNIV

SURVEYING

Paviath ONLINE

◆ CIVIL UNIVERSITY ◆ SECOND YEAR ◆ CODE A30108

UNIT – I

INTRODUCTION: OVERVIEW OF PLANE SURVEYING (CHAIN, COMPASS AND PLANE TABLE). Objectives, principles and classifications, scales, conventional symbols, signals distances and direction: distance measurement

METHODS: USE OF CHAIN, Tape and electronic distance Measurements, meridians, azimuths and bearings, declination, Computation of Angle.

UNIT – II

LEVELING AND CONTOURING: CONCEPT AND TERMINOLOGY, TEMPORARY ADJUSTMENTS- METHOD OF LEVELING. CHARACTERISTICS AND USES OF CONTOURS- METHODS OF CONDUCTING CONTOUR SURVEYS AND THEIR PLOTTING.

UNIT -I V

THEODOLITE: THEODOLITE, DESCRIPTION, USES AND ADJUSTMENTS – TEMPORARY AND PERMANENT, MEASUREMENT OF HORIZONTAL AND VERTICAL ANGLES. PRINCIPLES OF ELECTRONIC THEODOLITE. TRIGONOMETRICAL LEVELING, TRAVERSING.

APM Civil Engineering

STC APM

SYLLABUS COACHING

TRAINING - 2/UNIT TRAINING

SELF - 4/UNIT ASSIGNMENT

PRESENTATION – 2/UNIT

SHOWTIME - 2/UNIT

UNIT – V

TACHEOMETRIC SURVEYING: STADIA AND TANGENTIAL METHODS OF TACHEOMETRY. DISTANCE AND ELEVATION FORMULAE FOR STAFF VERTICAL POSITION. CURVES: TYPES OF CURVES, DESIGN AND SETTING OUT – SIMPLE AND COMPOUND CURVES. INTRODUCTION TO ADVANCED SURVEYING : TOTAL STATION AND GLOBAL POSITIONING SYSTEM, INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM (GIS).

UNIT – III

COMPUTATION OF AREAS AND VOLUMES: AREA FROM FIELD NOTES, COMPUTATION OF AREAS ALONG IRREGULAR BOUNDARIES AND AREA CONSISTING OF REGULAR BOUNDARIES. EMBANKMENTS AND CUTTING FOR A LEVEL SECTION AND TWO LEVEL SECTIONS WITH AND WITHOUT TRANSVERSE SLOPES, DETERMINATION OF THE CAPACITY OF RESERVDIR, VOLUME OF BARROW PITS.

TEXT BOOKS:

1. CHANDRA A M, "PLANE SURVEYING" AND "HIGHER SURVEYING" NEW AGE INTERNATIONAL PVT. LTD., Publishers, New Delhi, 2002 2. DUGGAL S K, "SURVEYING (VOL – 1 & 2), TATA MC.GRAW HILL PUBLISHING CO. LTD. NEW DELHI, 2004. 3. TEXT BODK OF SURVEYING BY C.VENKATARAMAIAH, **UNVERSIITIES PRESS** REFERENCES 1. SURVEYING AND LEVELING BY R. SUBRAMANIAN, SECOND EDITION DXFORD UNIVERSITY PRESS - 2012 2. Surveying theory and practice seventh edition BY JAMES M. AND ANDERSON EDWARD M. MIKHAIL TATA MCGRAW HILI 3. ARTHUR R BENTON AND PHILIP J TAETY. ELEMENTS OF Plane Surying, McGraw Hill – 2000 4 "Advanced Surveying total station gis and REMOTE SENSING BY Satheesh gopi, R. Sathi kumar and N. Madhu. ArCADia ArCADia BIM | ArCADia-RAMA | NTERsoft-INTELLICAD | uroConnections

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ASCON RENGA

SYLLABUS PERIOD

TRAINING - 2/2 HRS/UNIT

REMOTE - 2/2 HRS/UNIT

DURATION - SEMESTER

ONLINE/REMOTE ACCESS