DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL POLY

ENGINEERING GRAPHICS – II

Paviath ONLINE

◆ CIVIL POLY ◆ I YEAR II SEM ◆ CODE GEM28

OBJECTIVES:

- ABLE TO SHOW THE INTERNAL DETAILS OF AN OBJECT AND TRUE SHAPE SECTION.
- ABLE TO ACHIEVE THE CONCEPT OF SHEET METAL FABRICATION.
- ACQUIRE KNOWLEDGE ABOUT CLEAR VISION OF THE VARIOUS PROJECTIONS.
- CONVEYING THE REAL SHAPE OF THE OBJECT USING ISOMETRIC VIEW.

SECTION OF SOLIDS.(MANUAL DRAFTING AND COMPUTER AIDED DRAFTING)
INTRODUCTION – SECTION PLANES – APPARENT SECTION- TRUE SECTION -SECTIONAL VIEW - NEED FOR SECTIONAL VIEW - CUTTING PLANE- CUTTING PLANE LINE.
SECTION OF SOLIDS IN SIMPLE POSITIONS WITH AXIS PARALLEL TO ONE PLANE AND PERPENDICULAR TO OTHER PLANE, SECTION OF SOLIDS WHEN AXIS OF THE SOLID PARALLEL TO BOTH PLANES-SECTION PLANE PARALLEL TO ONE PLANE AND PERPENDICULAR TO OTHER PLANE-SECTION PLANE PERPENDICULAR TO ONE PLANE AND INCLINED TO OTHER PLANE- SHOWING TRUE SHAPE OF SECTION- EXERCISES: SECTION OF SIMPLE SOLIDS: PRISM, PYRAMID, CYLINDER AND CONE

DEVELOPMENT OF SURFACES. (MANUAL DRAFTING AND COMPUTER AIDED DRAFTING)
DEVELOPMENT OF PRISMS, PYRAMIDS, CYLINDER AND CONE—DEVELOPMENT OF FRUSTUM OF PRISMS, PYRAMIDSAND CONE-DEVELOPMENT OF TRUNCATED PRISMS, PYRAMIDS, CYLINDER AND CONE –EXERCISES.
DEVELOPMENT OF T-PIPE, ELBOW, DUCT, TRAY, LAMP SHADE AND FUNNEL-EXERCISES

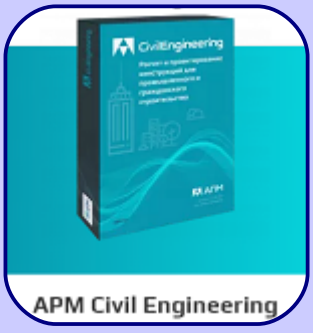
ORTHOGRAPHIC PROJECTION (MANUAL DRAFTING AND COMPUTER AIDED DRAFTING)
INTRODUCTION – PROJECTION TERMS – ORTHOGRAPHIC PROJECTION – CO-ORDINATE PLANES OF PROJECTION – SYSTEMS OF ORTHOGRAPHIC PROJECTION – FIRST ANGLE ORTHOGRAPHIC PROJECTION – THIRD ANGLE ORTHOGRAPHIC PROJECTION -COMPARISON OF FIRST AND THIRD ANGLE PROJECTIONS.
PROJECTION OF THREE VIEWS (ELEVATION, PLAN AND SIDE VIEW) OF SIMPLE OBJECTS USING FIRST ANGLE PROJECTION ONLY – FREE HAND SKETCH PRACTICE – EXERCISES.

ISOMETRIC PROJECTIONS (MANUAL DRAFTING AND COMPUTER AIDED DRAFTING)
INTRODUCTION – ISOMETRIC VIEW – ISOMETRIC PROJECTION – DIFFERENCE BETWEEN ISOMETRIC VIEW AND ISOMETRIC PROJECTION – ISOMETRIC SCALE – METHODS OF DRAWING AN ISOMETRIC VIEW – BOX METHOD. ANGLES IN ISOMETRIC VIEW – IRREGULAR CURVES IN ISOMETRIC DRAWING – CIRCLES IN ISOMETRIC METHOD – FOUR CENTRE METHOD FOR DRAWING AN ELLIPSE – ARCS OF CIRCLES IN
ISOMETRIC – DRAW THE ISOMETRIC VIEW OF THE OBJECT FROM THE GIVEN ORTHOGRAPHIC VIEW – EXERCISES.

REFERENCE BOOKS:

1. GILL P.S., "ENGINEERING DRAWINGS", S.K.KATARIA& SONS. M-SCHEME APPROVED IN 42ND ACADEMIC BOARD MEETING HELD ON 13.2.2017, MPC

2. BHAT N.D. "ENGINEERING DRAWINGS", CHAROTAR PUBLISHING HOUSE.
3. GOPALAKRISHNAN.K.R., "ENGINEERING DRAWING", (VOL.I AND VOL.II), DHANALAKSHMIPUBLISHERS, ED.2, 1970.
4. VENUGOPAL.K.SREEKANJANA G, "ENGINEERING GRAPHICS" NEW AGE INTERNATIONAL PUBLISHERS.
5. K V NATARAAJAN "A TEXT BOOK OF ENGINEERING DRAWING.



STC APM

MATHS ILLUSTRATION - GEOMETRY EXPRESSIONS

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MECHANICAL EXPRESSIONS – ANALYTIX CAMS

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ARCADIA BIM

SYLLABUS COACHING
TRAINING - 2/UNIT TRAINING
SELF - 4/UNIT ASSIGNMENT
PRESENTATION – 2/UNIT
SHOWTIME - 2/UNIT

SYLLABUS PERIOD
TRAINING – 2/2 HRS/UNIT
REMOTE - 2/2 HRS/UNIT
DURATION - SEMESTER
ONLINE/REMOTE ACCESS

FEATURES
TRAINING BY IND. PROFESSIONAL
INDUSTRY APPLICATION
TRAINER OPPORTUNITY
CERTIFICATION

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