

### **PAVIATH INTEGRATED SOLUTION** DEMAND

# ENGGINEERING DRAWING

## ◆ CIVIL UNIVERSITY ◆ FIRST YEAR ◆ CODE A10301

# **CIVIL ENGG**

# Paviath ONLINE

UNIT – I Introduction to engineering drawing: PRINCIPLES OF ENGINEERING DRAWING/ GRAPHICS - VARIOUS DRAWING INSTRUMENTS -CONVENTIONS IN DRAWING – Lettering practice – bis conventions CURVES: CONSTRUCTIONS OF CURVES USED IN ENGINEERING PRACTICE: A) CONIC SECTIONS INCLUDING THE **RECTANGULAR HYPERBOLA – GENERAL** METHOD ONLY. B) CYCLOID, EPICYCLOID AND HYPOCYCLOID C) INVOLUTE. SCALES: CONSTRUCTION OF DIFFERENT TYPES OF SCALES, PLAIN, DIAGONAL, VERNIER SCALE.

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#### UNIT - IV

**DEVELOPMENT OF SURFACES:** DEVELOPMENT OF SURFACES OF RIGHT, REGILLAR SOLIDS - PRISMS, CYLINDER, PYRAMIDS, CONE AND THEIR PARTS. FRUSTUM OF SOLIDS **INTERSECTION OF SOLIDS:-**INTERSECTION OF CYLINDER VS CYLINDER, CYLINDER VS PRISM, CYLINDER VS CONE

#### linit - II

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ORTHOGRAPHIC PROJECTIONS IN FIRST ANGLE PROJECTION: PRINCIPLES OF ORTHOGRAPHIC PROJECTIONS – CONVENTIONS – FIRST AND THIRD ANGLE PROJECTIONS. PROJECTIONS OF POINTS : INCLUDING POINTS IN ALL FOUR QUADRANTS. ALL F<del>oor Boadkants.</del> Projections of Lines : Parallel, <u>Perpendicular, inclined to one plane and</u> INCLINED TO BOTH PLANES. TRUE LENGTH AND TRUE ANGLE OF A LINE. TRACES OF A LINE. PROJECTIONS OF PLANES: PLANE PARALLEL, PERPENDICULAR AND INCLINED TO ONE REFERENCE PLANE. PLANE INCLINED TO BOTH THE REFERENCE PLANES.

ISOMETRIC PROJECTIONS : PRINCIPLES OF ISOMETRIC PROJECTION – ISOMETRIC SCALE – ISOMETRIC VIEWS– CONVENTIONS – PLANE FIGURES, SIMPLE AND COMPOUND SOLIDS – ISOMETRIC PROJECTION OF OBJECTS HAVING NON- ISOMETRIC LINES. ISOMETRIC PROJECTION OF PARTS WITH SPHERICAL SURFACE. TRANSFORMATION OF PROJECTIONS : CONVERSION OF ISOMETRIC VIEWS TO ORTHOGRAPHIC VIEWS. CONVERSION OF ORTHOGRAPHIC VIEWS TO ISOMETRIC VIEWS – SIMPLE OBJECTS. PERSPECTIVE PROJECTIONS : PERSPECTIVE VIEW PDINTS, LINES AND PLANE FIGURES, VANISHING POINT METHODS (GENERAL METHOD ONLY).

### UNIT – III

PROJECTIONS OF SOLIDS: PROJECTIONS OF REGULAR SOLIDS. CUBE, PRISMS, PYRAMIDS, TETRAHEDRAN, CYLINDER AND CONE, AXIS INCLINED TO BOTH PLANES. SECTIONS AND SECTIONAL VIEWS: RIGHT REGULAR SOLIDS - PRISM, CYLINDER, PYRAMID, CONE – USE OF AUXILIARY VIEWS.

### TEXT BOOKS

1. ENGINEERING DRAWING – BASANT, AGRAWAL, ТМН 2. ENGINEERING DRAWING, N.D. BHATT REFERENCES I. ENGINEERING GRAPHICS. P I VARGHESE TATA MCGRAW HILL EDUCATION PVT. LTD. 2. ENGINEERING DRAWING - P.J. SHAH .S.CHAND PUBLISHERS 3. ENGINEERING DRAWING- JOHLE/TATA MACGRAW HILL BOOK PUBLISHERS. 4. ENGINEERING DRAWING – M.B. SHAH AND B.C. RANA, PEARSON 5 . ENGINEERING DRAWING BY K.VENU GOPAL & V.Prabu Raja New Age Publications. 6. Engineering drawing by John. Phi LEARNING PUBLISHER



### STC APM

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



ASCON RENGA

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



### ARCADIA BIM

FEATURES TRAINING BY IND. PROFESSIONAL INDUSTRY APPLICATION TRAINER OPPORTUINITY CERTIFICATION

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