

DEMAND

# PAVIATH INTEGRATED SOLUTION

**CIVIL ENGG** 

**CIVIL UNIV** 

STEEL STRUCTURES DESIGN AND DRAWING

Paviath ONLINE

## ◆ CIVIL UNIVERSITY ◆ THIRD YEAR II SEMESTER ◆ CODE AGOI30

MATERIALS - MAKING OF IRON AND STEEL TYPES OF STRUCTURAL STEEL - MECHANICAL PROPERTIES OF STEEL - CONCEPTS OF PLASTICITY - YIELD STRENGTH. LOADS-AND COMBINATIONS LOADING WIND LOADS ON ROOF TRUSSES, BEHAVIOR OF STEEL, LOCAL BUCKLING. CONCEPT OF LIMIT STATE DESIGN DIFFERENT LIMIT STATES AS PER IS 800
-2007 - DESIGN STRENGTHS- DEFLECTION LIMITS - SERVICEABILITY - BOLTED CONNECTIONS - WELDED CONNECTIONS -DESIGN STRENGTH - EFFICIENCY OF JOINT -PRYING ACTION TYPES OF WELDED JOINTS -Design of Tension Members - Design STRENGTH OF MEMBERS.

UNIT - II

DESIGN OF COMPRESSION MEMBERS -BUCKLING CLASS - SLENDERNESS RATIO / STRENGTH DESIGN - LACED - BATTENED COLUMNS -COLUMN SPLICE - COLUMN BASE - SLAB BASE.

DESIGN OF BEAMS - PLASTIC MOMENT -BENDING AND SHEAR STRENGTH LATERALLY / SUPPORTED BEAMS DESIGN - BUILT UP SECTIONS - LARGE PLATES WEB BUCKLING CRIPPLING AND DEFLECTION OF BEAMS, DESIGN OF PURLIN

DESIGN OF ECCENTRIC CONNECTIONS WITH BRACKETS, BEAM END CONNECTIONS -WEB ANGLE - UN-STIFFENED AND STIFFENED SEATED CONNECTIONS (BOLTED AND WELDED TYPES) DESIGN OF TRUSS

DESIGN OF WELDED PLATE GIRDERS - OPTIMUM DEPTH DESIGN OF MAIN SECTION -DESIGN OF END BEARING STIFFNESS AND INTERMEDIATE STIFFNESS CONNECTION BETWEEN WEB AND FLANGE AND DESIGN OF FLANGE SPLICE AND WEB SPLICES.

1. DESIGN OF STEEL STRUCTURES - N. SUBRAMANIAN, **OXFORD UNIVERSITY PRESS** 

2. LIMIT STATE DESIGN OF STEEL STRUCTURES, S.K. DUGGAL, TATA MCGRAW-

HILL, 2010.

REFERENCE BOOKS : 1. Design of Steel Structures by K.S. Sai Ram, Person Education.

2. DESIGN OF STEEL STRUCTURES EDWIN H. GAYLORD, JR. CHARLES N. GAYLORD

AND JAMES STALLMEYER TATA MCGRAW-HILL EDUCATION PVT. LTD

3. DESIGN OF STEEL STRUCTURES VOL. 182 -RAMCHANDRA, STANDARD

**PUBLICATIONS** 

4. DESIGN OF STEEL STRUCTURES, STRUCTURES, S.S. BHAVIKATTI, IK INT

PUBLICATION HOUSE. NEW DELHI. 2010.



STC APM

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



**ASCON RENGA** 

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info@paviathintegratedsolution.com -www.paviathintegratedsolution.com www.paviathjobportal.com