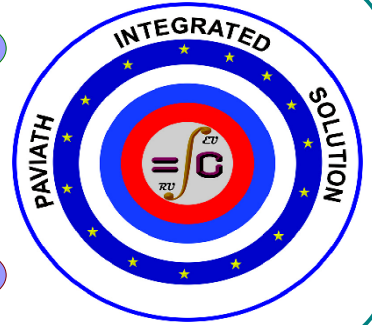


ISO/GOST/EN/DIN

SEMESTER UNITS

REFERENCE BOOKS



POLYTECH - AICTE - UNIVERSITY

INTERNSHIP SYLLABUS

MECHANISM

MACHINE ELEMENT

STRUCTURAL

IV DESIGN OF TRANSMISSION SYSTEMS

- ◆ SYLLABUS PROGRAM
- ◆ DESIGN OF TRANSMISSION SYSTEMS
- ◆ MECHANICAL ENGINEERING
- ◆ ELECTIVE SUBJECT
- ◆ ENGINEERING CODE PEC-MEL 433

ACADEMIC SYLLABUS

INDUSTRY DB/APPLN

PROFESSIONAL COACH

DEGREE/DIPLOMA*

COURSE SEMESTER

- ◆ OBJECTIVE OF COURSE
- ◆ COURSE CONTENTS
- ◆ COURSE OUTCOMES
- ◆ REFERENCE BOOKS

OBJECTIVE

TO LEARN ABOUT THE DESIGN PROCEDURES FOR MECHANICAL POWER TRANSMISSION COMPONENTS

COURSE CONTENT

FLEXIBLE TRANSMISSION ELEMENTS. GEAR TRANSMISSION. STRAIGHT BEVEL GEAR. GEAR BOX. CAM DESIGN.

OBJECTIVE OUTCOMES

UPON COMPLETING THIS COURSE THE STUDENTS WILL BE ABLE TO DESIGN TRANSMISSION SYSTEMS FOR ENGINES AND MACHINES.

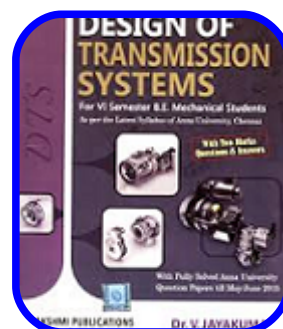
REFERENCE BOOKS

1. SHIGLEY J., MISCHKE C., BUDYNAS R. AND NISBETT K., MECHANICAL ENGINEERING DESIGN, 8TH ED., TATA MCGRAW HILL, 2010.
2. JINDAL U.C., MACHINE DESIGN: DESIGN OF TRANSMISSION SYSTEM, DORLING KINDERSLEY, 2010.
3. MAITRA G. AND PRASAD L., HANDBOOK OF MECHANICAL DESIGN, 2ND ED., TATA MCGRAW HILL, 2001.

APM CAM/APM PLAIN
APM SCREW/APM STRUCTURE3D
APM DYNAMICS/APM BEAM
APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS
APM SHAFT/APM BEAR
APM JOINT/APM SPRING

SAM

(SYNTHESIS ANALYSIS MECHANISM)
GENERAL - DESIGN WIZARDS -
MODELLING - INPUT MOTION -
CAD INTERFACE - ANALYSIS -
RESULTS - POST-PROCESSING
- OPTIMIZATION - TUTORIALS



SOFTWARE
APM WINMACHINE
SAM
SALTIRE
VARICAD
KOMPAS 3D

<http://www.paviathjobportal.com/index>

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ONLINE INTERNSHIP