



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG SPECIALIZED

MECHANICAL

ADVANCED STRENGTH OF MATERIALS

Paviath ONLINE

◆ SYLLABUS PROGRAM ◆ ADVANCED STRENGTH OF MATERIALS ◆ SPECIALIZED BRANCH

COURSE OUTCOME

UPON COMPLETION OF THIS COURSE, THE STUDENTS CAN ABLE TO APPLY MATHEMATICAL KNOWLEDGE TO CALCULATE THE DEFORMATION BEHAVIOR OF SIMPLE STRUCTURES. CRITICALLY ANALYSE PROBLEM AND SOLVE THE PROBLEMS RELATED TO MECHANICAL ELEMENTS AND ANALYSE THE DEFORMATION BEHAVIOR FOR DIFFERENT TYPES OF LOADS.

COURSE CONTENTS

UNIT I ANALYSIS OF PLATES
UNIT II THICK CYLINDERS AND SPHERES
UNIT III ROTATING DISCS
UNIT IV BEAMS ON ELASTIC FOUNDATION
UNIT V CURVED BEAMS AND CONTACT STRESSES

COURSE OBJECTIVE

TO ANALYSE THE STRESSES AND DEFORMATIONS THROUGH ADVANCED MATHEMATICAL MODELS. TO ESTIMATE THE DESIGN STRENGTH OF VARIOUS INDUSTRIAL EQUIPMENTS.

REFERENCE BOOKS

1. BORESI A.P., SCHMIDT R.J., "ADVANCED MECHANICS OF MATERIALS", JOHN WILEY AND SONS, SIXTH EDITION, 2003.
2. DALLY J.W. AND RILEY W.F., "EXPERIMENTAL STRESS ANALYSIS", JOHN WILEY AND SONS 2003
1. BURR A. H., CHEATHAM J.B., "MECHANICAL ANALYSIS AND DESIGN", PRENTICE HALL OF INDIA, SECONDEDITION, 2001.
2. DEN-HARTOG J.P., "STRENGTH OF MATERIALS", JOHN WILEY AND SONS.

COURSE SOFTWARE

- ◆ APM WINMACHINE (MULTIPHYSICS)
- ◆ KOMPAS 2D/3D/PDM/BOM
- ◆ VARICAD 2D/3D/PDM/BOM
- ◆ UNIVERSAL MECHANISM(MBD).
- ◆ SAM (MECHANISM DESIGN)
- ◆ SALTIRE SOFTWARE
- ◆ DOCUMENTATION & PRINTING

APM WINMACHINE

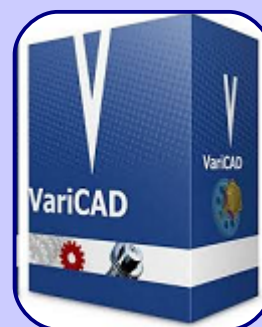
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

PRODUCTION ENGG	MECH & AUTOMATION ENGG	MECH ENGG (SANDWICH)	ROBOTICS AND AUTOMATION	MECHATRONICS ENGG
	ADVANCED STRENGTH OF MATERIALS	ADVANCED STRENGTH OF MATERIALS	ADVANCED STRENGTH OF MATERIALS	
	SEMESTER VIII ELECTIVE V	ELECTIVE VI	ELECTIVE VI	
	CE6071	CE6071	CE6071	
DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
ADVANCED STRENGTH OF MATERIALS	REGISTRATION	DOCUMENTS	COUNSELLING	OWN LAPTOP
ONLINE	2/UNIT TRAINING	4/UNIT ASSIGNMENT	2/UNIT ASSIGNED	SCHEDULE
PRESENTATION	WEBINAR	NETWORK	PRESENTATION	2/UNIT ASSIGNED
PERIOD	2 HRS/1/UNIT IN SEQUENCE	NETWORKING/HRS*	PRESENTATION	* BROWSING FEE
PRICE (SEMESTER)	BY MAIL	* BROWSING FEE	NO COST	CERTIFICATE

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