



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

DESIGN OF AGRICULTURAL MACHINERY

Paviath ONLINE

◆ MECH ALLIED ◆ AGRICULTURE ENGINEERING ◆ SEMESTER V ◆ ENGINEERING CODE AIG504

COURSE OBJECTIVE

TO INTRODUCE TO THE STUDENTS TO THE BASIC CONCEPTS OF DESIGN OF AGRICULTURAL MACHINERIES. TO GET THROUGH THE DETAILED DESIGN & DRAWING OF VARIOUS COMPONENTS OF AGRICULTURAL MACHINERIES.

COURSE OUTCOME

AT THE END OF THE COURSE THE STUDENT WILL HAVE THE KNOWLEDGE ON AGRICULTURAL MACHINERIES AND DETAILED DESIGN AND DRAWING OF VARIOUS COMPONENTS

COURSE CONTENT

UNIT I STRESSES IN MACHINE MEMBERS.
UNIT II DESIGN OF POWER TRANSMISSION SYSTEMS.
UNIT III DESIGN OF SHAFTS AND COUPLINGS.
UNIT IV DESIGN OF ENERGY STORING ELEMENTS.
UNIT V DESIGN OF GEARS AND BEARINGS.

REFERENCE BOOKS

1. KHURMI R.S AND GUPTA J.K. A TEXTBOOK OF MACHINE DESIGN. EUNRSIA PUBLICATIONS. 3RD EDITION. 2005.
2. BHANDARI V.B. "DESIGN OF MACHINE ELEMENTS". TATA MCGRAW-HILL BOOK CO. 2003.

1. NORTON R.L. MACHINE DESIGN – AN INTEGRATED APPROACH. PEARSON PUBLICATIONS. 3RD EDITION. 2006.
2. SRIVASTAVA A.K. GOERING.C.E. AND ROHRBACH R.P. ENGINEERING PRINCIPLES OF AGRICULTURAL MACHINES. REVISED PRINTING BY AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS. 1993.
3. GARY KRUTZ, LESTER THOMPSON AND PAUL CLEAR. "DESIGN OF AGRICULTURAL MACHINERY". JOHN WILEY AND SONS. NEW YORK. 1984.

COURSE SOFTWARE

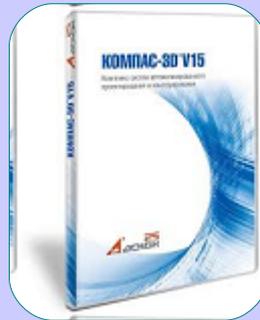
- ◆ APM WINMACHINE (MULTIPHYSICS)
- ◆ KOMPAS 2D/3D/PDM/BDM
- ◆ VARICAD 2D/3D/PDM/BDM
- ◆ UNIVERSAL MECHANISM(MBD).
- ◆ SAM (MECHANISM DESIGN)
- ◆ SALTIRE SOFTWARE
- ◆ DOCUMENTATION & PRINTING

APM WINMACHINE

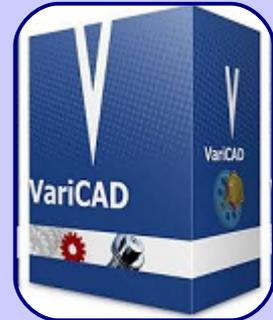
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
DESIGN OF AGRICULTURAL MACHINERY	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