



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

FARM EQUIPMENT

Paviath ONLINE

◆ MECH ALLIED ◆ AGRICULTURE ENGINEERING ◆ SEMESTER V ◆ ENGINEERING CODE A16503

COURSE OBJECTIVE

TO INTRODUCE THE STUDENTS TO THE WORKING PRINCIPLES OF FARM EQUIPMENTS, TILLAGE IMPLEMENTS.
TO EXPOSE THE STUDENTS TO FARM MECHANIZATION BENEFITS AND CONSTRAINTS, IDENTIFICATION OF COMPONENTS OF PRIMARY AND SECONDARY TILLAGE IMPLEMENTS

COURSE OUTCOME

THE STUDENTS WILL BE ABLE TO UNDERSTAND THE MECHANIZATION AND VARIOUS EQUIPMENT USED IN THE FARM FOR DIFFERENT FIELD OPERATIONS.

COURSE CONTENT

UNIT I FARM MECHANIZATION.
UNIT II PRIMARY AND SECONDARY TILLAGE IMPLEMENTS.
UNIT III SOWING AND FERTILIZING EQUIPMENT.
UNIT IV WEEDING AND PLANT PROTECTION EQUIPMENT.
UNIT V HARVESTING MACHINERY

REFERENCE BOOKS

1. JAGDISHWAR SAHAY. ELEMENTS OF AGRICULTURAL ENGINEERING. STANDARD PUBLISHERS DISTRIBUTORS, DELHI 6. 2010.
2. MICHAEL AND DHJA. PRINCIPLES OF AGRICULTURAL ENGINEERING. JAIN BROTHERS. NEW DELHI. 2005
3. SRIVASTAVA, A.C. ELEMENTS OF FARM MACHINERY. OXFORD AND IBH PUB. CO., NEW DELHI, 1990.
1. KEPNER, R.A. ET AL. PRINCIPLES OF FARM MACHINERY. CBS PUBLISHERS AND DISTRIBUTORS, DELHI. 99. 1997.
2. HARRIS PEARSON SMITH ET AL. FARM MACHINERY AND EQUIPMENT. TATA MCGRAW-HILL PUB., NEW DELHI, 1996.

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
FARM EQUIPMENT	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