◆ SYLLABUS PROGRAM ◆ DESIGN FOR MANUFACTURING ◆ MECHANICAL ENGINEERING ◆ SPECIALIZED BRANCH

COURSE AIM
TO GIVE EXPOSURE TO INTERRELATION BETWEEN DESIGN AND MANUFACTURE.

COURSE CONTENTS
UNIT I DESIGN FOR MANUFACTURING APPROACH AND PROCESS.
UNIT II GEOMETRIC ANALYSIS.
UNIT III FORM DESIGN OF CASTINGS AND WELDMENTS.
UNIT IV MECHANICAL ASSEMBLY.
UNIT V TRUE POSITION THEORY.

COURSE OBJECTIVE
◆ TO UNDERSTAND THE PRINCIPLES OF DESIGN SUCH THAT THE MANUFACTURING OF THE PRODUCT IS POSSIBLE.
◆ TO EDUCATE STUDENTS ON VARIOUS DESIGN ASPECTS TO BE CONSIDERED FOR MANUFACTURING THE PRODUCTS USING DIFFERENT PROCESSES.

REFERENCE BOOKS
1. HARRY PECK, "DESIGNING FOR MANUFACTURE", PITMAN PUBLICATIONS, 1983.
2. MATOUSEK, ENGINEERING DESIGN. - A SYSTEMATIC APPROACH" - BLACKIE & SON LTD., LONDON, 1974.
1. SPOTTS M.F., "DIMENSIONING AND TOLERANCE FOR QUANTITY PRODUCTION, PRENTICE HALL INC., 1983.
2. OLIVER R. WADE, "TOLERANCE CONTROL IN DESIGN AND MANUFACTURING", INDUSTRIAL PRESS INC. NEW YORK PUBLICATIONS, 1967.
3. JAMES G. BRALLA "HAND BOOK OF PRODUCT DESIGN FOR MANUFACTURING" MCGRAW HILL PUBLICATIONS, 1983.
4. TRUCKS H.E., "DESIGN FOR ECONOMIC PRODUCTION", SOCIETY OF MANUFACTURING ENGINEERS, MICHIGAN, 2ND EDITION, 1987.

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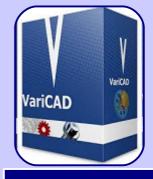◆ DOCUMENTATION & PRINTING

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
	DESIGN FOR MANUFACTURING	DESIGN FOR MANUFACTURING & ASSEMBLY		
	ELECTIVE I	ELECTIVE VIII		
	ME9025	MS6801		
DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
DESIGN FOR MANUFACTURING	REGISTRATION	DOCUMENTS	COUNSELLING	OWN LAPTOP
ONLINE	2/UNIT TRAINING	4/UNIT ASSIGNMENT	2/UNIT ASSIGNED	SHEDULE
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