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TEGRAT

PAVIATH INTEGRATED SOLUTION

POLYTECH

MECHANICAL

THEORY OF MACHINES & MECHANISMS

◆ MECHANICAL ENGINEERING GROUP ◆ FOURTH SEMESTER ◆ POLYTECHNIC CODE ME/PT/PG/AE/MH

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COURSE OBJECTIVE COURSE AIM COURSE CONTENTS ♦ KNOWING DIFFERENT MACHINE ELEMENTS AND ◆ UNDERSTANDING THE CONCEPT OF ◆ FUNDAMENTALS & TYPES OF MECHANISMS MECHANISMS MACHINES ◆ VELOCITY & ACCELERATION IN MECHANISM ◆ UNDERSTANDING KINEMATICS & DYNAMICS OF ♦ MECHANISMS AND THEIR ELEMENTS ◆ CAMS AND FOLLOWERS DIFFERENT MACHINES & MECHANISMS STUDYING KINEMATICS ASPECTS OF ◆ SELECTING SUITABLE DRIVES & MECHANISMS POWER TRANSMISSION FOR A PARTICULAR APPLICATION VARIOUS LINKS IN MECHANISMS ◆ FLYWHEEL AND GOVERNORS ♦ APPRECIATING CONCEPT OF BALANCING AND ◆ FOUNDATION FOR KINEMATICS SYNTHESIS, ◆ BRAKES, DYNAMOMETERS, CLUTCHES & VIRRATION ANALYSIS BEARINGS DEVELOPING ABILITY TO COME UP WITH ◆ DESIGN OF MECHANISMS ♦ BALANCING & VIBRATIONS INNOVATIVE IDEAS **REFERENCE BOOKS APM WINMACHINE** KHURMI GUPTA THEORY OF MACHINES APM CAM/APM PLAIN/APM SCREW/APM SAM (SYNTHESIS ANALYSIS MECHANISM) S.S.RATTAN THEORY OF MACHINE ◆ GENERAL◆ DESIGN WIZARDS ◆ MODELLING STRUCTURE3D/APM DYNAMICS/APM P.L.BALLANEY THEORY OF MACHINES **BEAM/APM GRAPH/APM STUDIO** ◆ INPUT MOTION ◆ CAD INTERFACE TIMOSHENKO THEORY OF MACHINES APM DRIVE/APM TRANS/APM SHAFT/APM ◆ ANALYSIS ◆ RESULTS ◆ JAGDISH LAL THEORY OF MACHINES BEAR/APM JOINT/APM SPRING/APM SALTIRE SOFTWARE ◆ GHOSH - MALLIK THEORY OF MACHINES BASE/APM MECHANICAL DATA/APM ◆ BEVEN T. THEORY OF MACHINES ♦ MATHS ILLUSTRATIONS MATERIAL DATA/APM SECTION DATA/APM ◆ J.E.SHIGLEY THEORY OF MACHINES MC GRAW ♦ GEOMETRY EXPRESSIONS CONSTRUCTION DATA/APM BOOK HILL ♦ MECHANICAL EXPRESSIONS ♦ ANALYTIS CAM WinMachin KOMITAC-SD V15 Saltire VariCAD VariCAD **Ö APM WINMACHINE** SALTIRE SOFTWARE KOMPAS 3D ARTAS SAM VARICAD **DNLINE** TRAINING CENTRE **WEBINAR** REMARKS DESCRIPTION THEORY OF MACHINES REGISTRATION DOCUMENTS COUNSELLING **OWN LAPTOP 8 MECHANISMS** PRESENTATION WEBINAR NETWORK PRESENTATION 2/UNIT ASSIGNED * **BROWSING FEE** PRICE (SEMESTER) **BY MAIL** NO COST CERTIFICATE

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