

STUDENTS
ACADEMY



INDUSTRY
RESEARCH

WORKSHOP – SEMINAR – INSTITUTION

CIVIL
ENGINEERING

MECH
ENGINEERING

APPLIED
ENGINEERING

BASICS
MATHEMTICS
CREATIVE/IMAGINATION
3D PRINTING

BASICS
PROJECT CIVIL
CIVIL ENGG
PROJECT MECH
MECH ENGG

SYSTEM
INSTITUTION
KNOWLEDGE
INDUSTRY
PISN PROGRAM

PROJECT CIVIL
STEEL STRUCTURES
REINFORCED STRUCTURES
WOODEN STRUCTURES
BRIDGE ENGINEERING
RACK DESIGN
TRANSLUCENT CONSTRUCTIONS
DESIGN (KM, KMD)
EXAMINATION OF COLLAPSE

PROJECT MECH
HANDLING EQUIPMENT
ROAD AND RAIL TRANSPORT
AIRCRAFTS
ENGINEERING DESIGN
CALCULATION FOR NUCLEAR POWER PLANTS
CALCULATION OF SEISMIC EQUIPMENT
CALCULATION OF PIPELINES
OTHER PROJECTS

CONCEPT
METHOD

WORKSHOP

RESEARCH
DATA

TOPICS

STUDENTS
FACULTIES
RESEARCH

CONCEPTUAL
INDUSTRY DB
REFERENCE

CIVIL ENGG
APM Civil Engineering
Renga Architecture
PROGRAM ArCADiasoft

MECH ENGG
SYNTHESIS ANALYSIS MECHANISM
SOFTWARE PRODUCTS OF APM
NTP PRODUCTS
3D PROGRAM
CAD EXCHANGER

BASICS DATA
CAE/CAD/MBD
MATHEMATICS

ANALYSIS DATA
JOURNAL DATA
PRODUCT DEV

SYSTEM (UNIVERSAL MECHANISM)
MULTIBODY DYNAMICS
AUTOMOTIVE – TRAIN – LOCO – VEHICLE MODELS
LOCOMOTIVE LIBRARY – FREIGHT WAGON – TOOLS
CONTACT ADD-ON – WEAR OF WHEEL PROFILES
TRACKED VEHICLE – FEM – CAD INTERFACES
EXPERIMENTS – CONTROL – BASE – SUBSYSTEMS
DURABILITY – BALLAST – 3D CONTACT – RCF
WHEEL/RAIL WEAR – MONDRAIL TRAIN
DRIVELINE – MAGLEV

INSTITUTION
APPLN. ACADEMIC/INDUSTRY
APPLN. PRODUCT PROJECT
CAMPUS TRAINING
PROJECTS MODEL ACADEMIC
PROJECT & RESEARCH APPLN.
MECHANICAL DEMONSTRATION

APPLICATION

ACADEMIC
INPUT

ACADEMIC

INDUSTRY
OUTPUT

INDUSTRY
MECHANISM DEVELOPMENT
APPLICATION MACHINES
APPLICATION EQUIPMENTS
THERMAL EQUIPMENT
CHEMICAL – PROCESS ENGG
INDUSTRIES SOLUTION

KNOWLEDGE
KNOWLEDGE BASE INSTITUTION
KNOWLEDGE BASE STUDENT
KNOWLEDGE BASE PROFESSIONAL
KNOWLEDGE BASE INDUSTRIES
LMS INSTITUTION
LMS PROFESSIONAL

COMMON
SYSTEM

CAE/CAD/CAM/CAPP/MBD/MATHS
POLYTECHNIC COLLEGE
ENGINEERING COLLEGE
UNIVERSITY
RESEARCH ORGANIZATION
PROFESSIONAL
RESEARCH SCHOLAR

MINIMUM
GAP

PISN PROGRAM
SYLLABUS APPLICATION
CAREER PROJECT
PROFESSIONAL DEVELOPMENT
PRODUCT DEV/REVERSE ENGG
RESEARCH SUPPORT