

Engineering Practices Laboratory

Course supported

GE 8261- Engineering Practices Laboratory – II semester
All Departments (Civil, Mechanical, EEE, ECE, Geo Informatics.)

Faculty Incharge Dr.R.A.MALAIRAJAN, Head i/c,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr.R.RANJITHKUMAR & Mr.M.Vinothkumarkannan.

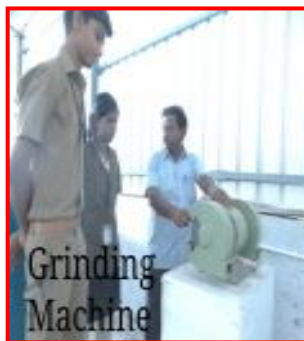
Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose.

Lab Dimension 15m x 10m

Total cost estimation of the Lab Rs. 28,41,361 /-

Photo Gallery



List Of Major Equipments

1. Power Shearing Machine
2. Centre Lathe
3. Arc Welding Machine
4. Injection Moulding Machine

Fluid Mechanics And Machinery Laboratory

Course supported

CE6461 Fluid Mechanics and Machinery Laboratory – III Semester Mechanical

Faculty Incharge Mr. A. KARTHIKEYAN,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr.M.VINOTHKUMARKANNAN.

Laboratory Safety Information:

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose.

Lab Dimension 15m x 10m
Total cost estimation of the Lab Rs.7,85,272/-

Photo Gallery



List Of Major Equipments

1. Francis turbine test rig
2. Gear oil pump test rig
3. Orifice meter test rig
4. Reciprocating pump test rig

COMPUTER AIDED DESIGN LABORATORY

Course supported

ME6611 & ME6711 COMPUTER AIDED DESIGN LABORATORY -6TH & 7TH SEMESTER (DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Dr.R.A.MALAIRAJAN, Head i/c,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. S.KARTHIKEYAN

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose.

Lab Dimension 10m x 5.2m
Total cost estimation of the Lab Rs. 30,48,935/-

Photo Gallery



Software & Hardware Available

Sl.No.	Name of the software/Hardware	Purpose of SW/HW
1.	ANSYS 18.0	Engineering simulation and 3d design modeling solution which uses FEA
2.	CREO 3.0	3D CAD Modeling

List Of Major Equipments

1. INTEL i7 Processor with 8GB RAM & 1 TB hard disk
2. DELL POWER EDGE R820 SERVER with LAN
3. 10KVA – UPS

COMPUTER AIDED MANUFACTURING LABORATORY

Course supported

ME6611- COMPUTER AIDED MANUFACTURING LABORATORY - 6TH SEMESTER (DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Dr.R.A.MALAIRAJAN, Head i/c,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. S.KARTHIKEYAN

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose.

Lab Dimension 9m x 10m
Total cost estimation of the Lab Rs. 20,47,500/-

Photo Gallery



Software & Hardware Available

Sl.No.	Name of the Software/Hardware	Purpose of SW/HW
1	CNC TRAINER SOFTWARE	TO GET KNOWLEDGE OF BASICS IN CNC MACHINE OPERATION USING G-CODES & M-CODES.

List Of Major Equipments

1. CNC LATHE TRAINER
2. CNC MILL TRAINER

DYNAMICS LABORATORY

Course supported

ME6511- DYNAMICS LABORATORY - 5TH SEMESTER (DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Dr.S.AMAL BOSCO JUDE,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. P.VENGALA KUMAR

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose.

Lab Dimension 20m x 10.5m

Total cost estimation of the Lab Rs. 6,20,925/-

Photo Gallery



List Of Major Equipments

1. VIBRATION TEST FACILITIES APPARATUS
2. CAM ANALYSIS – CAM PROFILE AND JUMP-SPEED CHARACTERISTICS
3. GYROSCOPIC
4. GOVERNOR

STRENGTH OF MATERIALS LABORATORY

Course supported

CE6315- STRENGTH OF MATERIALS LABORATORY - 4TH SEMESTER (DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Mrs.T.USHA RANI,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. P.VENGALA KUMAR

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose.

Lab Dimension 20m x 10.5m
Total cost estimation of the Lab Rs. 8,53,082/-

Photo Gallery



List Of Major Equipments

1. UNIVERSAL TESTING MACHINE
2. BRINELL HARDNESS
3. ROCKWELL HARDNESS
4. MUFFLE FURANCE
5. TORSION TESTING MACHINE

METROLOGY AND MEASUREMENTS LABORATORY

Course supported

ME 6513 & ME 6513 T- METROLOGY AND MEASUREMENTS LABORATORY - 5TH SEMESTER
(DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Mr. A. KARTHIKEYAN,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. N. RAJKUMAR

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose

Lab Dimension 20m x 10.5m

Total cost estimation of the Lab Rs. 5,49,204/-

Photo Gallery



List Of Major Equipments

1. Micrometer (0-25mm), (25-50mm) & (50-75mm).
2. Vernier Caliper (0-200mm) & (0-300mm)
3. Vernier Height Gauge
4. Vernier depth Gauge
5. Slip Gauge Set (M-12) & (M-83)
6. Gear Tooth Vernier
7. Sine Bar (100mm) & (200mm)
8. Floating Carriage Micrometer
9. Autocollimator
10. Temperature Measuring Setup
11. Force Measuring Setup
12. Torque Measuring Setup
13. Vibration Measurement Setup
14. Displacement Measurement Setup

MECHATRONICS LABORATORY

Course supported

ME 6712 & ME 6712 T- MECHATRONICS LABORATORY -7TH SEMESTER (DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Mr. A. KARTHIKEYAN,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. N. RAJKUMAR

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose

Lab Dimension 20m x 10.5m

Total cost estimation of the Lab Rs. 2,41,461/-

Photo Gallery



Software & Hardware Available

Sl.No.	Name of the software/Hardware	Purpose of SW/HW
1.	CECO PLC Simulation Software	To monitor and control the pneumatic systems

List Of Major Equipments

1. Basic Pneumatic Trainer Kit with manual and electrical
2. Basic Hydraulic Trainer Kit
3. 8051 - Microcontroller kit with stepper motor and drive circuit sets

MANUFACTURING TECHNOLOGY LABORATORY - I

Course supported

ME 6311 / ME 6311T- MANUFACTURING TECHNOLOGY LABORATORY - I 3rd SEMESTER (DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Dr.S. AMAL BOSCO JUDE,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. M.STENY EBENEZER.

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose

Lab Dimension 20m x 10.5m

Total cost estimation of the Lab Rs. 7,89,547/-

Photo Gallery



List Of Major Equipments

1. CENTRE LATHE MACHINE.
2. SHAPING MACHINE.

MANUFACTURING TECHNOLOGY LABORATORY - II

Course supported

ME 6411/ ME 6411T- MANUFACTURING TECHNOLOGY LABORATORY - II 4TH SEMESTER
(DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Dr.S. AMAL BOSCO JUDE,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. M. STENY EBENEZER

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose

Lab Dimension 20m x 10.5m

Total cost estimation of the Lab Rs. 33,31,598.00/-

Photo Gallery



List Of Major Equipments

1. CAPSTAN AND TURRET LATHE MACHINE.
2. GEAR HOBGING MACHINE.
3. SURFACE GRINDING AND CYLINDRICAL GRINDING MACHINE.
4. HORIZONTAL AND VERTICAL MILLING MACHINE.
5. RADIAL DRILLING MACHINE.

THERMAL ENGINEERING LABORATORY - I

Course supported

ME6412- THERMAL ENGINEERING LABORATORY - I 4TH SEMESTER (DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Mrs. T. USHA RANI,
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. P.ANBURAJ

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose

Lab Dimension 20m x 10.5m

Total cost estimation of the Lab Rs. 14,60,139- /-

Photo Gallery



List Of Major Equipments

1. STEAM BOILER WITH TURBINE SETUP
2. SINGLE CYLINDER PETROL ENGINE WITH MECHANICAL LOADING
3. SINGLE CYLINDER DIESEL ENGINE WITH MECHANICAL LOADING

THERMAL ENGINEERING LABORATORY - II

Course supported

ME 6512- THERMAL ENGINEERING LABORATORY-II - 5TH SEMESTER (DEPARTMENT OF MECHANICAL ENGINEERING)

Faculty Incharge Mrs.T.USHA RANI
Assistant Professor,
Department of Mechanical Engineering.

Lab Incharge Mr. P.ANBURAJ

Laboratory Safety Information :

1. Students are ordered to come in proper uniform code and shoes.
2. Fire Extinguisher is available for the Laboratory safety purpose

Lab Dimension 20m x 10.5m

Total cost estimation of the Lab Rs. 5,98,556/-

Photo Gallery



List Of Major Equipments

1. REFRIGERATION TEST RIG
2. AIR CONDITIONING TEST RIG
3. AIR COMPRESSOR TEST RIG