



SYED AMMAL ENGINEERING COLLEGE

Approved by the AICTE, New Delhi, and Affiliated to Anna University, Chennai, Govt. of Tamilnadu
Dr. E.M.Abdullah Campus, Ramanathapuram – 623 502.



Department of Mechanical Engineering

THERMAL LABORATORY I & II

Laboratory In charge: Mr.D.Soma Sundaram.M.E. & Mr.K.Dinesh Babu.M.E

Technician: Mr.G.Vijayasankar.

Description:

- Thermal laboratory has well furnished by power supply.
- Thermal laboratory has well facilities for students as per norms given by Anna University.
- **Major Equipment's Cost in Thermal Lab: Rs. 17, 03,115.**



Area of the laboratory: 332 Sq.M

The following courses are conducted in this Laboratory for the Academic Year (2016-17)

ME 6412 Thermal Engineering Lab I (4th Semester)

ME 6512 Thermal Engineering Lab II (5th Semester)

CAD/CAM Laboratory

Laboratory In charge: Mr.S.Rajesh Babu.M.E

Technician: Mr.N.Sivasubramanian

Description:

- There are 72 systems with 16Mbps internet connections provided in this laboratory.
- The Lab is completely air –conditioned with 14 ton A/C.
- This laboratory cover Anna university syllabus belongs to the Computer, and simulation related experiments.
- The Lab has the Various Simulation Software Packages for Students Welfare.
- It also has a CNC Lathe and CNC Milling Machines for the Students Welfare.
- **Major Equipment's Cost in Lab: Rs.55, 96,823.**

Configuration Details: AMD Phenom II *4955 Process 3.2GHZ 6MB L3 Cache. Asus 760C mother board, 8GB DDR3 1066GHZ RAM 500GB SATA HDD @ 7200rpm NVIDIA GT 610 Graphics Card, 20 “ Wide TFT Monitor, Wipro Keyboard,Wipro Optical Mouse



Area of the laboratory: 235Sq.M

The following courses are conducted in this Laboratory for the Academic Year (2016-17)

GE6261 Computer Aided Drafting and Modelling Laboratory (2nd Semester)

ME6611 C.A.D. / C.A.M. Laboratory (6th Semester)

ME6711 Simulation and Analysis Laboratory (7th Semester)

Manufacturing Technology Laboratory I & II

Laboratory In charge: Mr.K.Senthil Kumar.M.E

Technician: Mr. MuthuPavun.

Description:

- There are 14 lathes And 12 special machines in this laboratory.
- The machines are fully working conditions.
- This laboratory covered Anna university syllabus belongs to the manufacturing technology laboratories I & II related experiments.
- **Major Equipment's Cost Cost in Lab: Rs.13,92,282.00**



Area of the laboratory: 351Sq.M

The following courses are conducted in this Laboratory for the Academic Year (2016-17)

ME 6311 Manufacturing Technology Lab I (3rd Semester)

ME 6411 Manufacturing Technology Lab II (4th Semester)

Mechatronics Laboratory

Laboratory In charge: Mr.C.Thirugnanam.M.E.

Technician: Mr.G.Vijayasankar.

Description:

- Mechatronics laboratory has well furnished with power supply.
- It has well facilities for students as per the norms given by Anna University.
- **Major Equipment's Cost: Rs.11, 00,989**



Area of the laboratory: 122 Sq.M

The following courses are conducted in this Laboratory for the Academic Year (2016-17)

ME 6712 Mechatronics Laboratory (7th Semester)

Metrology and Measurements Laboratory

Laboratory Incharge: Mr.V.Manoj Kumar.M.E.

Technician: Mr.N.Sivasubramanian.

Description:

- There are 22 Measuring instruments provided in this laboratory.
- This laboratory cover Anna university syllabus belongs to the Metrology and measurement related experiments.
- The Lab has the Coordinate Measuring Machine for Students Welfare.
- It also has Digital surface roughness measuring device and Autocollimator for the Students Welfare

Major Equipment's Cost in Metrology and Measurements Lab: Rs.11, 54,570



Area of the laboratory: 90 Sq.M

The following courses are conducted in this Laboratory for the Academic Year (2016-17)

ME 6513 Metrology and measurement Laboratory (5th Semester)

Dynamics Laboratory

Laboratory Incharge: Mr.P.Senthil Kumar.M.E.

Technician: Mr.N.Periyar Selvan.

Description:

- The laboratory has good adequate power supply
- The laboratory has well-furnished and equipped as per norms given by Anna University
- To study about static and dynamics analysis in Mechanical field
- The students are understand how certain measuring devices are used for dynamic testing
- **Major Equipment's Cost in Dynamics Lab: Rs. 2, 66,700**



Area of the laboratory: 89.85Sq.M

The following courses are conducted in this Laboratory for the Academic Year (2016-17)
ME 6511 Dynamics Laboratory (5th Semester)

Engineering Practice Laboratory

Laboratory Incharge:Mr.Mohamed Rafeek .M.E.

Technician: Mr.N.Periyar Selvan.

Description:

- The lab has good adequate power supply and has good facilities for welding
- The lab has well facilities for students as per norms given by Anna University.
- It has two centre lathes and power hacksaw cutter and have facilities for working carpentry and sheet metal works
- **Major Equipment's Cost in Engineering Practice Lab: Rs.101450**

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Area of the laboratory: 272.84Sq.M

The following courses are conducted in this Laboratory for the Academic Year (2016-17)

GE 6162 Engineering Practice Laboratory (All UG 1st Year)

Fluid Mechanics Laboratory

Laboratory Incharge: Mr.K.Senthil Kumar M.E.

Technician: Mr. Rajiv

Description:

- This lab is utilized for civil and Mechanical students
- This laboratory cover Anna university syllabus belongs to the Fluids that means discharge related experiments
- The Lab has the pumps and turbines.

Major Equipment's Cost in Fluid Mechanics Lab: Rs 11, 82,049



Area of the laboratory: 179 Sq.M

The following courses are conducted in this Laboratory for the Academic Year (2016-17)

CE6461 – Fluid Mechanics and Machinery Lab (3rd semester)

Strength of Materials Laboratory

Laboratory Incharge: Mr.R.Kalyana Sundaram.M.E & Mr.P.Senthil Kumar.M.E

Technician: Mr.Rajiv

Description:

- The lab has well furnished with adequate power supply
- This laboratory cover Anna university syllabus belongs to the Strength of materials
- The major equipment's of this lab are Universal Testing Machine, Torsion Testing Machine and Compression Testing machine
- **Major Equipment's Cost in Strength of Materials Lab: Rs 6, 41,459.**



Area of the laboratory: 120Sq.M

The following courses are conducted in this Laboratory for the Academic Year (2016-17)

CE 6315 Strength of Materials Laboratory (4th semester)

Research Laboratory

Laboratory Incharge: Mr.R.Kalyana Sundaram.M.E

Technician: Mr.N.Sivasubramanian

Description:

- This lab is mainly used for the various research projects on Metal Matrix Composite Materials.
- In this lab we have two major equipment's for producing Metal Matrix Composite Materials and conducting the wear test on same
- The major equipment's are Bottom Pour Stir Casting Furnace and Pin on Disc Wear testing machine
- It is widely used for Research project for both our students and outside researchers also students from other colleges
- **Major Equipment's Cost in Research Lab: Rs 7, 57,483**



Area of the laboratory: 120 Sq.M