



A.V.C. COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai
Re-Accredited by NAAC with 'B ++' Grade(2nd Cycle) | An ISO 9001:2015 Certified Institution

Mannampandal, Mayiladuthurai,

Nagapattinam District, Tamilnadu-609305



Estd: 1996

DEPARTMENT OF MECHANICAL AND ENGINEERING

DEVELOPMENTAL ACTIVITIES

By Students:

S.No	Description
1	Solar Water heater with PCM Storage
2	Accident Preventer for Punching Machine
3	BioInspired Cooling chamber
4	Hand Operated Multi Centrifugal Pump
5	Forced circulation Biomass Stove
6	Heat Energy Storage with PCM
7	Hybrid solar Dryer with Solar PV
8	Multi Flow Sprayer for Agricultural Applications
9	Multi Axle Wind Mill
10	Roller Bending Machine
11	Bio Mimicry Chiller
12	Sheet Bending Machine

List of Research Facilities created in various laboratories.

S.NO	Name of the Laboratory	Items	Utilization of Facilities
1	Engineering Workshop	1.Portable MIG welding machine, 2.Tool grinding machine, 3.General tools.	UG students
2	Thermal engineering Laboratory	1. Computerized Engine data acquisition system four stroke Diesel engine with eddy current dynamometer. 2.Gas Kit for dual fuel operation. 3. AVL Five Gas Analyser 4. AVL Smoke Meter	UG, PG and PhD Students
3	Machine shop	1.Lathe machines (precision grade), 2.Lathe Tool Dynamometer, 3. Milling Tool Dynamometer.	UG project
4	Metrology & Measurement Laboratory	1.Profile projector, 2.Surface roughness tester.	UG project and PG projects
5	CAD/CAM Laboratory	1.Solidworks- 10 Nos. 2.Ansys R10-25 Nos, 3.AutoCAD Mechanical Civil, Electrical, Revit 2008 -60 Nos 4. Autodesk Inventor-60 Nos 5.Unigraphics -15 Nos 6.Fluent -25 Nos 7.Nastran-1No 8.Workstation computers 18Nos.	UG, PG project and PhD Students
6	Research Laboratory	1.Atmospheric fluidized bed Gasifier with air blower, screw feeder, pressure and Temperature indicators. 2. OLGA Tar removal system with raschig rings and homogeniser 3. Pelletizer 4.Pulveriser 5.Pertersen Column. 6. Gas chromatography with columns for tar measurement.	UG, PG project and PhD Students