



RAJVIMAL GROUP

Step towards Digital India & Make in India

RAJVIMAL ENGINEERING WORKS

Laboratory Equipment Manufacturer



RAJVIMAL GROUP was established in 2011, since the company expanded both locally and globally over the past 12 years to emerge as one of the leading manufacturer and consultant all over India. With good quality products and excellent customer services in the field of educational and commercial project concern.



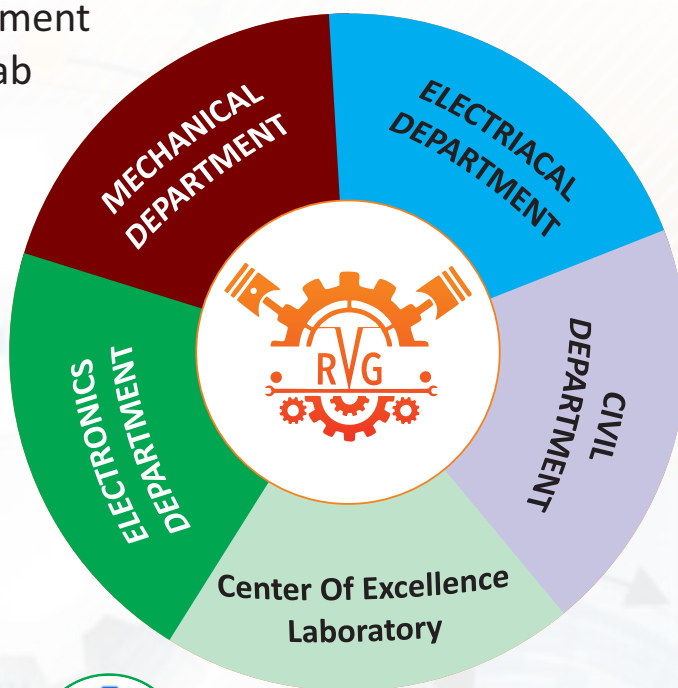
MECHANICAL DEPARTMENT

- A. Refrigeration Lab
- B. Heat Transfer Lab
- C. Fluid Mechanics & Turbo Lab
- D. Theory of Machine Lab
- E. IC Engine Lab
- F. Workshop Equipment
- G. Mechatronics Lab



ELECTRICAL DEPARTMENT

- A. Transformer Lab
- B. DC Machine Lab
- C. AC Machine Lab
- D. Switchgear & Protection Lab



ELECTRONICS DEPARTMENT

- A. Test & Measuring Equipments
- B. Communication Engg. Lab
- C. Embedded Systems Lab
- D. Microwave Test Bench
- E. Power Electronics Lab
- F. Control System Lab
- G. PLC/SCADA Lab



CIVIL DEPARTMENT

- A. Concrete Technology Lab
- B. Surveying Lab
- C. Geotechnical Lab
- D. Strength of Material Lab
- E. Transportation Lab



REFRIGERATION LAB

- Refrigeration Test Rig
- Air Conditioning Test Rig
- Ice Plant Test Rig
- Vapour Absorption Test Rig
- Mechanical Heat Pump Test Rig
- Water Cooler Test Rig
- Cooling Tower Test Rig
- Window Air Conditioning Test Rig



FLUID MECHANICS LAB

- Venturimeter Test Rig
- Orificemeter Test Rig
- Pressure Measurement
- Pipe Friction Apparatus
- Pipe Fitting Test Rig
- Reynold Test Rig
- Metacentric Height Apparatus
- Impact of Jet Apparatus
- Pelton Wheel Turbine



HEAT TRANSFER LAB

- Thermal Conductivity of Metal Bar
- Emissivity Measurement Apparatus
- Composite Wall Apparatus
- Critical Heat Flux Apparatus
- Parallel Flow and Counter Flow Heat Exchanger



THEORY OF MACHINE LAB

- Whirling of Shaft Apparatus
- Epicyclic Gear Train Apparatus
- Profile Projector
- Cam Analysis
- Gyroscope Motorized





MECHATRONICS LAB

- Hydraulic Trainer
- Electro Hydraulic Trainer
- PLC Based Pneumatic Trainer
- Robotic Arm Trainer
- Water Level Controller



IC ENGINE / THERMAL LAB

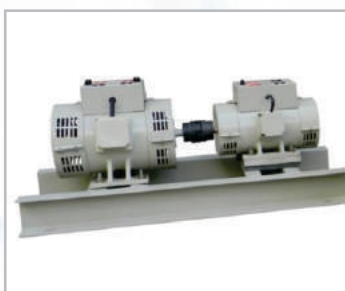
- Diesel Engine Test Rig
- Petrol Engine Test Rig
- Separating & Throttling Calorimeter
- Air Compressor Test Rig





TRANSFORMER LAB

- Training System
 - a. Single Phase
 - b. Three Phase
- Parallel Operation of Single Phase Transformer Training System
- Three Phase Scott Connection Training System
- Sequence Impedance Three Phase Transformer Training System



DC /AC MACHINE LAB

- DC Shunt Motor Coupled with Three Phase Auto-Synchronous Generator
- Speed Control of Three Phase Induction Motor using V/F Drive Training System
- Three Phase Synchronous Motor Training System

SWITCHGEAR & PROTECTION LAB

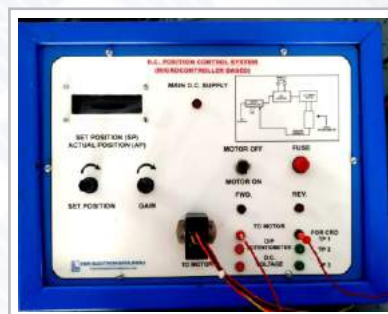
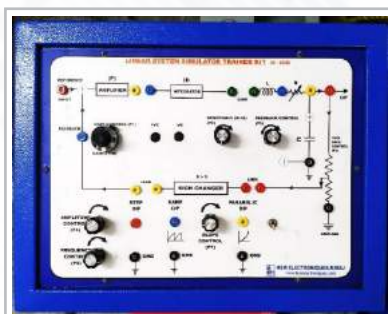
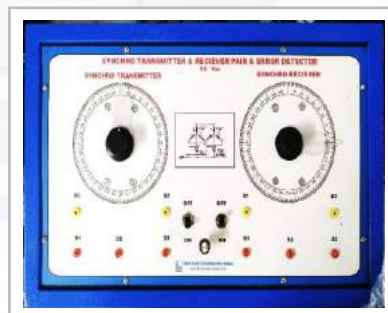
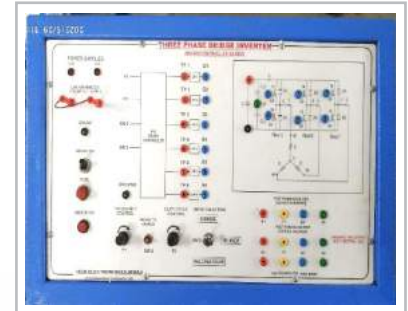
- Study & Testing Of Transmission Line Trainer Kit
- Study Of Air Circuit Breaker Trainer
- Power Factor Relay Control Trainer





POWER ELECTRONICS AND INDUSTRIAL DRIVES LAB

- 1 Phase Fully Converter
- 1 Phase Half & Fully Converter
- 1 Phase Pwm Inverter
- 3 Phase Pwm Inverter
- Ac Voltage Regulator
- Step Up & Step-down Chopper



CONTROL SYSTEM LAB

- Speed Measurement Module
- Thermocouple Characteristics
- Thermister Module
- RTD Module
- LVDT Module
- Strain Gauge Module
- Study of Inductive Pick UP
- Study Of Capacitive Pick UP
- Study of Pizoelectric Transducer
- Water Level Measurement



PLC/SCADA LAB

PLC Trainer kit with different combinations of I/P & O/P with various interfaces for applications and different PLC'S

- PLC-10 TRAINER with Allen Bradley micrologix1400 PLC
- PLC-11 TRAINER with Allen Bradley Micro820 PLC trainer. c) PLC-25 TRAINER with DELTA PLC.
- PLC-30 TRAINER with Siemens S7-200 smart PLC Trainer.
- PLC-35 TRAINER with Siemens S7-1200 PLC trainer.
- SCADA (supervisory control and Data acquisition) WINLOG PRO
- Human Machine Interface (HMI) i) HMI with IOT enabled



EMBEDDED SYSTEMS LAB



COMMUNICATION ENGG. LAB



TEST & MEASURING EQUIPMENTS





**A. Concrete Technology Lab
B. Surveying Lab
C. Geotechnical Lab
D. Strength of Material Lab
E. Transportation Lab**





ARTIFICIAL INTELLIGENCE



We Provide AI Lab to explore various skills in Machine Learning, Deep Learning Deployment / inference using Embedded Hardware and Robotics. This Lab offers configurable options for research and student training



3D PRINTING TECHNOLOGY LAB

RT Series
Make Sell Earn

JRD Series
More power to your ambitions

ViSa Series
Wings to your creativity

WHY 3D PRINTING?

Low Volume Production Lightning fast (10x) with near zero cost efficiency. Weight Reduction Reduce weight without compromising the strength. Personalization Integration of multiple parts into a single part.	Customized solutions Collaborative manufacturing solutions for medical, aerospace, and other industries. Customer oriented product development Rapid prototyping, fast turn-around, and high quality.	Optimum use of the material Save material, reduce waste, and save time. Print on demand manufacturing Less inventory, faster shipping. No design restrictions Better design, faster.
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3D Printing Services
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ROBOTIC AND AUTOMATION LAB

Robotics lab has been planned to expose the students to the general functioning of a robot. Students will be trained on few general robots and they will be allowed to implement their skills learned in other labs such as AI and control lab to design special purpose robots.



IOT LAB (INTERNET OF THINGS)

We Provide IOT Lab as a research platform exploring the potential of crowdsourcing and Internet of Things for multidisciplinary research with more end-user interactions. It gives the power to the crowd to be at the core of the research and innovation process.



LIST OF PRESTIGIOUS CUSTOMERS

- ❖ Indian Institute Of Technology, Goa
- ❖ National Institute Of Technology, Goa
- ❖ Jspm Group, Pune
- ❖ Bharati Vidyapeeth University, Pune
- ❖ Sinhgad College of Engineering, Pune
- ❖ Visvesvaraya National Institute Of Technology, Nagpur
- ❖ College Of Engineering, Pune
- ❖ Dy Patil College Of Engineering, Akurdi, Pune
- ❖ Aissms's College Of Engineering, Pune
- ❖ Aissms's Institute Of Information Technology, Pune
- ❖ Zes's Zeal College Of Engineering, Pune
- ❖ Yashwantrao Chavan College Of Engineering, Nagpur
- ❖ Shri Ramdeobaba College Of Engineering & Management, Nagpur
- ❖ Govt. College Of Engineering, Amravati
- ❖ Govt. College Of Engineering, Karad
- ❖ Govt. College Of Engineering, Nagpur
- ❖ Sipna College Of Engineering & Technology, Amravati
- ❖ Govt. College Of Engineering, Aurangabad
- ❖ Priyadarshani College Of Engineering, Nagpur
- ❖ Shri Sant Gajanan Maharaj College Of Engineering, Shegaon
- ❖ Someshwar Shikshan Prasarak Mandal, Someshwar Nagar
- ❖ KIT Kolhapur
- ❖ VTC, Patgaon Miraj
- ❖ ITM University, Delhi



OUR MISSION

We will do whatever is necessary to meet or exceed the contract specification of your fabrication projects.

OUR APPROACH

Our customers can expect great attention to detail and proactive problem solving. Our integrated production method.



QUALITY GUARANTEE

Our experienced and skilled team is committed to delivering quality products, on time, and at a competitive price.

OUR TECHNOLOGY

Our integrated production method is the product of our commitment to technology. From procurement to final delivery.



OUR ENGINEERING SERVICES

- ❖ Maintenance Of Lab Equipments
- ❖ Product Innovation And Solution
- ❖ Product Redesign And Value Engineering
- ❖ Software Services
- ❖ Workshops For Students
- ❖ Industrial Training
- ❖ Technical Support For System Design And Product Re-engineering



RAJVIMAL GROUP

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