

## B.E.MECHANICAL ENGINEERING

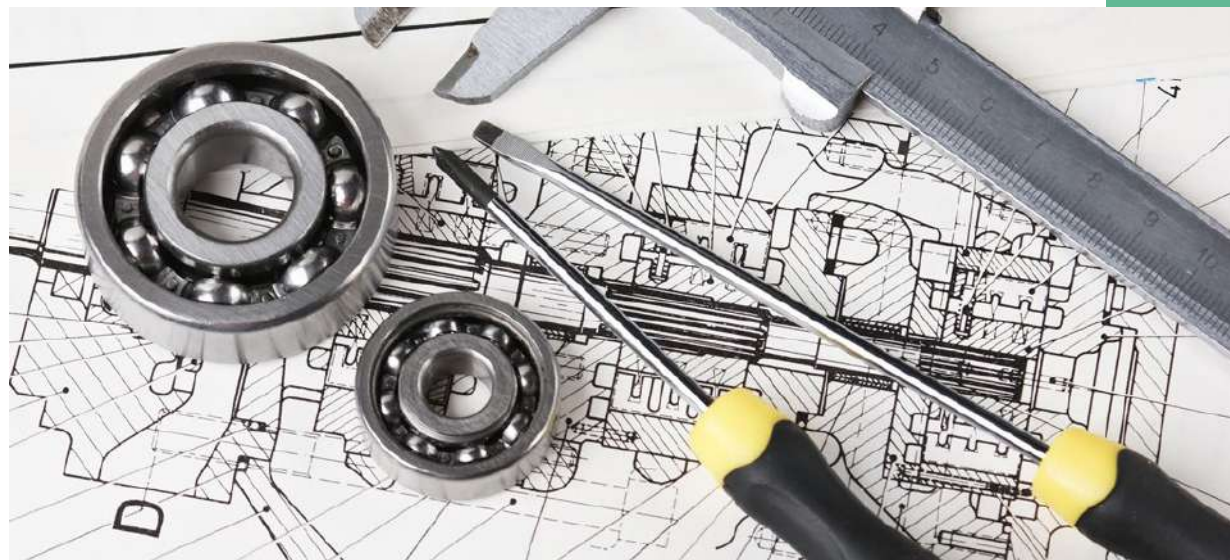
Mechanical Engineering is one of the major disciplines in the engineering profession and its principles are involved in the design, study, development and construction of nearly all of the physical devices and systems.

The mechanical department is continuously striving to achieve excellence in education, academic and industry oriented research as well as consultancy work with service to the society. The department has an excellent industrial interaction and contributes to the industry by offering its consultancy services.

### IN-PLANT TRAINING

In-plant Training provides industrial exposure to the students to help them understand the rigour of the industrial requirements. After the successful completion of the programme students have to face this competitive world with the knowledge to solve problems and find the right solutions in the minimum duration of time. The students under go training in the following companies:

- Accurate Steel Forging India Ltd.
- Ashok Leyland
- Asian Paints Pvt. Ltd.
- Bosch Electrical Drives
- Brakes India (TVS)
- CVRDE
- Engine Factory, Avadi
- Ennore Thermal Plant
- Hyundai Motors India
- Integral Coach Factory
- K C P Limited
- Kun - BMW Service Station
- Kuwait National Petroleum Company
- L & T Engineering Workshop
- Lucas TVS
- Madras Atomic Power Station
- Motherson Automotive Technologies & Division
- Neel Industries Pvt Ltd
- Neyveli Lignite Corporation Ltd
- Royal E
- S.A.I.L
- S.K.I Carbon Black Pvt. Ltd.
- Simpson & Corporation Limited
- Switching Technologies Gunther Ltd
- Syngenta India Limited
- Tamil Nadu Newsprint & Papers Ltd
- TVS - Wheels India
- TVS Brakes India Ltd.



Students attended Internship in various Institutes abroad to get global exposure

1. SABARISH ELANGO (MECH IV) Dr.HEL MUT DINGER, RWTH AACHEN UNIVERSITY, GERMANY. (19.06.17 - 30.06.17)

## M.E. ENGINEERING DESIGN

Engineering Design is one of the earliest and highly valued post graduate courses in Mechanical Engineering. The ultimate goal of the designer is to size and shape the machine elements, choosing appropriate materials and manufacturing processes so that the designed element can perform its function without failure. Objectives of the courses offered in first semester are to learn and practice advanced concepts in mathematics such as computational methods, tensor analysis, Fourier transform etc., Also, the students acquire knowledge on design fundamentals, material properties, material selection and knowledge about customer oriented design. The students also learn the role of computers in design such as importance of computer graphics and visual realism in CAD modelling and analysis. Concepts about robust design, embodiment principles, various methods in design of experiments, reliability charts and histograms and six sigma techniques are also included in the curriculum. Apart from this, students are motivated to accept professional responsibilities with confidence and to understand the design of various mechanical systems. The department has a well equipped CAD laboratory with state of the art software and hardware facilities. A Flexible Manufacturing System laboratory with CNC machines, AGVS, ix axis robots are also available to demonstrate the flexible manufacturing systems concepts.



## M.S. (By Research) and Ph.D. Programmes

The department of Mechanical Engineering of Rajalakshmi Engineering College has been recognized as one of the approved research centres of Anna University, Chennai. Research scholars can register for M. S (By Research) and Ph.D. programs. There is a provision to pursue research under both full time and part time modes and faculty members working in any one of the colleges affiliated to the University are normally eligible under the part time mode. At present there are five recognized supervisors and eighteen research scholars are pursuing their Ph.D & M. S programmes in the department. The areas in which the scholars are working now include thermal management of electronic systems, CFD, Composite, Nano Composite and Fluids, Surface Engineering, and Optimization and so on.

