

History of Mechanical Engineering Degree Programme

The Department of Mechanical Engineering of Lagos State University of Science and Technology (LASUSTECH) was established in 2022 under the College of Engineering and Technology after approval by the National Universities Commission for the take-off of the program. The Department of Mechanical Engineering is powerful to educate, inspire, and mentor students to become outstanding engineers who possess all of the skills necessary to excel in a developing and advanced society.

Mechanical Engineering is the branch of engineering concerned primarily with the industrial application of mechanics in the production and operation of tools, machineries, and products. Areas of interest to Mechanical Engineers include energy conversion from natural sources to other useful forms of energies, designing and producing machines to make human work easier and processing of raw materials to obtain useful products.

Mechanical Engineering is a very broad engineering discipline. It overlaps with other engineering disciplines such as Civil, Electrical and Chemical Engineering. The areas of specialization in Mechanical Engineering are:

- ✓ Thermofluid
- ✓ Dynamics
- ✓ Production
- ✓ Mechanical Design, and
- ✓ Solid Mechanics.

The discipline has been in existence and applied since ancient times, and is now important across society, including in the economy, politics and technology.

The Department of Mechanical Engineering's main focus is to address the most demanding needs of human society, with a particular emphasis on the fields of energy generation and distribution, transportation, raw materials production and manufacturing. This degree programme offers students the broad and in-depth skills needed to pursue goals – in any area of Mechanical Engineering. Students are allowed to offer some elective courses to enable them focus on specific area of Mechanical Engineering. This specialization will ensure that graduates of the department meet the fast-evolving and dynamic trend in technological use. Such options include automotive, industrial and production as well as material and metallurgical engineering.

This Bachelor of Engineering (B.Eng.) in Mechanical Engineering programme is floated to train graduates who are fully qualified and equipped with the necessary skills to practice Mechanical Engineering in the field and beyond who will suitably fit into the Global Industrial and Manufacturing Sectors. Lectures, lab exercises, projects, and hands-on industrial training made up the curriculum. The department also implemented mentoring programmes to guarantee that each student receives the best instruction, direction, and guidance possible. There is no doubt that students who work hard as a team will succeed because department staff members are always prepared and happy to help students with their academic issues.

The Department has the following teaching and research facilities, equipped with modern teaching aids and equipment:

Laboratories:

1. Strength of Materials Laboratory
2. Fluid Mechanics and Fluid Power Laboratory
3. Refrigeration and Air Conditioning Laboratory
4. Mechanics of Machines Laboratory
5. Thermodynamics and Heat Transfer Laboratory
6. Metrology Laboratory
7. Automotive Laboratory
8. Computer Aided Design (CAD), Computer Aided Manufacturing (CAM) and Computer Numerically Control Machines (CNC) Laboratories.

Workshops:

1. General Mechanical Workshop
2. Machine Tools Workshop
3. Automotive Workshop
4. Refrigeration and Air Conditioning Workshop.
5. Welding and Fabrication Workshop
6. Foundry and Heat Treatment Workshop

The Department is currently headed by Engr. Dr. Adekunle Yekinni, an Associate Professor.