



**ME Lab**

This lab contains experimental set-ups for the study of heat transfer, mechanical oscillations, open and closed loop control, fluid mechanics, strain in beams, measurement techniques, and other topics.



**ECE Lab**

This venue provides hands-on activities to students of major courses in electrical, and electronics and communications engineering.



**Acoustic Lab**

Housed in Knight 103.9 FM, the campus' radio station, communication equipment training provides a range of hands-on systems aimed at analog and digital communications.



**EE Lab**

This contains experimental set-ups for the study of residential and commercial electrical wiring, DC and AC systems and measurements, components, power supplies, amplifiers, transducers, data acquisition systems, and other topics.

*Colegio de San Juan de Letran-Calamba*

For more information:

**SCHOOL OF ENGINEERING**

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City of Calamba, Laguna 4027 Philippines

**Main Trunklines**

(049) 545-5453 / 4363 / 5447 / 2462 / 5420 / 4360

**SE Locals**

- local 2029 Dean
- local 2030 Administrative Assistant
- local 2031 Faculty

**Other Locals**

- local 2038 Admission's Office
- local 2051 Registrar's Department
- local 3006 Public Affairs Department (PAD)

Telefax (049) 834-1408 (PAD)

[www.lettran-calamba.edu.ph](http://www.lettran-calamba.edu.ph)



Letran Calamba

**SE**  
School of Engineering

**Vision, Mission, and Objectives**

We envision ourselves as the School of Choice for Engineering in Region IV. We commit ourselves to produce GOD-centered, loyal to the country, and globally competitive Letranite engineers. We aim to attain excellence in the students' chosen field of specialization; and to become quality engineers who will fill the manpower needs of Laguna and its neighboring provinces and cities.

**Program Offerings**

- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Industrial Engineering
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Electronics and Communications Engineering

### **BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING**

Mechanical engineers are involved in creating the future. They are the driving force behind many of our technologies and industrial processes including innovative products like mobiles, PCs and DVDs, etc. As a Letranite mechanical engineer, you will be involved in the application of principles of physics for analysis, design, manufacturing, and maintenance of mechanical systems. You will be given a solid understanding of key concepts including mechanics, kinematics, thermodynamics, and energy. You may use these principles and others in the design and analysis of automobiles, aircraft, heating and cooling systems, manufacturing plants, industrial equipment and machinery, and more. Mechanical engineering finds applications in all fields of technology such as production engineer, product engineer, operation and maintenance engineer, plant engineer, facilities engineer, designer-estimator, appraiser, project engineer to name a few.



### **BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING**

Industrial engineers are concerned about the development, improvement, implementation, and evaluation of integrated systems of people, knowledge, equipment, energy, material, and process. As a Letranite Industrial Engineer, you will be prepared for a professional career applied in virtually every industry. Industrial Engineers are also known as operations engineers, production engineers, manufacturing engineers, or manufacturing systems engineers.

As an industrial engineer you will be expected to perform services as a planning engineer, method analyst, system analyst, design engineer, quality engineer, project analyst, information analyst, productivity consultant/specialist, operations research analyst to name a few. Even though the term industrial engineering is originally applied to manufacturing, it has extended its service to similar fields like operations research, systems engineering, ergonomics, and quality engineering.

### **BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING**

Electrical engineers design, build, and maintain electrical control systems, machinery and equipment. If you become one, your work will be important in a wide range of fields such as power generation, transmission and distribution, renewable energy sources, manufacturing and construction machinery building.

As an eventual Letranite Electrical Engineer, your duties could involve carrying out feasibility studies for new technical developments

or innovations, drawing up plans and specifications for projects, using computer-assisted engineering and design software, coordinating the work of technicians and craftspeople, making sure projects meet electrical and construction safety regulations, and overseeing inspection and maintenance programs. You would normally work on a project with a team of other professionals, which could include civil engineers, architects, engineering technicians and IT staff.

### **BACHELOR OF SCIENCE IN COMPUTER ENGINEERING**

Computer engineers design, develop, manufacture, and maintain computer components. This engineering stream is a young discipline with a world-wide demand for software and system designers. It is necessary for every sector, and it pervades our lives. As a Letranite Computer Engineering major, you would focus on the design, analysis and application of computers and on their applications as components of many systems. Such interdisciplinary knowledge is very important in today's complex world. You will be employed in a broad range of companies including indigenous software houses, major industrial companies, research institutions, and multi-national corporations. You would be working as a project leader, network administrator, LAN administrator, computer architect, systems design engineer, software engineer, or program developer, among others.

### **BACHELOR OF SCIENCE IN ELECTRONICS AND COMMUNICATIONS ENGINEERING**

Electronics and communications engineering is a swiftly advancing field, with new ideas emerging every other second. From mobile phones to fiber optics to remote sensing, there are exciting avenues to explore and create even better ideas. Radio, television, telephones, computers, automobiles, office machinery and household appliances, life-saving medical equipment, and space vehicles represent a mere sample in the wide spectrum of application of electronics.

As a Letranite Electronics and Communications Engineer, you would have unlimited opportunities in the field of communication systems like telephones, cellular phones, television, optical fiber communication, consumer and entertainment devices. Highly rewarding and greatly satisfying opportunities also await you as a computer networking professional, telecommunications specialist, product or test engineer in a semiconductor industry, engineer in the aeronautical services, communications engineer, broadcast engineer for radio and television, among others.

