



## ALDRSGATE COLLEGE

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## COLLEGE OF ENGINEERING & TECHNOLOGY

### PROGRAM DESCRIPTION

#### **Bachelor of Science in Electrical Engineering (BSEE)**

#### **Ladderized Bachelor of Science in Electrical Engineering (Building Wiring Installation NC-II)**

This program aims to prepare students for a career on generation, transmission, distribution and utilization of electricity. It also deals with the design, operation and protection, maintenance and economics of electrical systems with emphasis on ethical values to harness economically and safely the materials, and forces of nature for the benefit of the society and the environment. It aims to provide students with an education in the fundamentals of electrical engineering that will allow him to be immediately competitive in industry or in graduate work including management and entrepreneurship. Graduates must have solid background in mathematics, natural, physical and allied sciences, with emphasis on the development of analytical and creative abilities, and a breath of knowledge of the Electrical Engineering disciplines through a set of core courses which will enable them to achieve success in a wider range of career.

#### **Bachelor of Science in Civil Engineering (BSCE)**

This program aims to prepare students for a career on planning, design, construction, management, and maintenance of various infrastructures who will be conscious of the environmental effects of their projects, and fully aware of the ethical and legal responsibilities of the profession. It aims to provide students with an education in the fundamentals of civil engineering that will ensure articulation and understanding of the nature of his/her special role in society and the impact of their work on the progress of civilization. Graduates must have solid background on the basic principles of mathematics, natural, physical, and allied science, and knowledge on Civil Engineering disciplines with emphasis on fundamental knowledge, transferable, and lifelong learning.

#### **Certificate in Electrical Technology (ELT) major in Building Wiring Installation NC-II**

#### **Certificate in Electronics Technology (ELX) major in Consumer Electronics Servicing NC-II**

The ELT and ELX Courses are designed for careers in consumer and industrial electricity and electronics respectively. Both courses employ skills-oriented curricula. Instruction is aimed at the achievement of competencies through the acquisition of knowledge, values, attitudes, and hands-on practice of clearly defined skills under standards and conditions specified by business and industry.