Scientific Departments

Engineering specialties are integrated in the use of science and mathematics to design, implement, and develop solutions to problems and to meet the needs of human society. Each engineering specialty differs from the others in terms of the types of problems it aims to solve and the demands it seeks to fulfill.

Civil engineering majors get the information and skills needed to design, construct, and maintain buildings and infrastructure, including roads, bridges, ports, airports, pipelines, and the traffic and transportation that corresponds with them.

Chemical engineering is a specialization that teaches students how to design and operate plants, as well as how to develop extraction, transformation, and processing of raw materials for the purpose of converting them into final or intermediate products needed for other industrial processes while maintaining environmental safety

Architectural engineering providing students with the necessary skills for planning urban buildings, installing buildings, residential buildings, electrical buildings, utility connections, ventilation, heating, and protective lighting from fire, and imparting the aesthetic feature that was built with the urban architectural heritage.

Mechanical engineering is a specialization that teaches students how to design, manufacture, and operate machines and equipment, as well as how to generate power to drive them and control heat transfer systems.

Industrial engineering is a specialization that teaches students how to optimize the design, operation, and improvement of integrated systems of people, equipment, materials, energy, and information in order to attain the maximum levels of production and quality.

Electrical engineering is a specialization that teaches students how to design and construct integrated power distribution systems in all of their forms, as well as communication and control systems.