



Republic of the Philippines

TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES - TAGUIG

Km. 14 East Service Rd., Western Bicutan, Taguig City

Tel No. (02) 8823-2457 loc 104

ISO 9001: TUV SUD PSB-PH 100 01 0027

The Technological University of the Philippines shall be the premiere state university with recognized excellence in engineering and technology education at par with the leading universities in the ASEAN region.

REGISTRATION & ADMISSION SECTION

PROGRAM OFFERINGS / DESCRIPTION

STRAIGHT ENGINEERING PROGRAM/COURSES

BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BSCeSEP)

Civil Engineering is a profession that applies the basic principles of science in conjunction with mathematical and computational tools to solve problems associated with developing and sustaining civilized life in our planet. Civil Engineering works are generally one-of-a-kind projects; they are often grand in scale; and they usually require cooperation among professionals of many different disciplines. The completion of a civil engineering projects involves the solution of technical problems in which information from numerous sources and myriad non-technical factors play a significant role. Some of the most common examples of civil engineering works includes bridges, buildings, dams, airports and hangars, ports and harbors, highways and railways, tunnels, river and shore improvements, lighthouses, dry-docks, irrigations, flood protection, drainage, water supply, and towers. Enumeration of any work in this shall not be construed as excluding any other work requiring civil engineering knowledge and application. Civil Engineering is one of the broadest engineering disciplines both in terms of the range of problems that fall within its purview and in the range of knowledge required to solve those problems.

BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING (BSEcESEP)

The graduates of Bachelor of Science in Electronics Engineering program will have competencies for jobs that require information and communication technologies, electronics systems technologies and robotics and mechatronics expertise. The student's competencies and theoretical abilities would lead to career opportunities in the areas of (1) managing operations and manufacturing, (2) technical support and consulting, (3) research and development, (4) communications and networking and (5) as a technopreneur.

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING (BSESEP)

Electrical Engineering is a profession that involves the development, design and application of safe, healthy, ethical, economical and sustainable generation, transmission, distribution and utilization of electrical energy for the benefit of society and the environment through the knowledge of mathematics, physical sciences, information technology and other allied sciences, gained by study, research and practice. It also deals with the design, operation and protection, maintenance and economics of electrical systems.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (BSMESEP)

Mechanical Engineering is a profession that concerns itself with mechanical design like space vehicles, computers, power plants, intelligent machines and robots, automobiles, trains, airplanes, furnaces, and air-conditioners, energy conversion, fuel and combustion technologies, heat transfer, materials, noise control and acoustics, manufacturing processes, rail transportation, automatic control, product safety and reliability, solar energy, and technological impacts to society.



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OTHER BACHELOR'S DEGREE/SCIENCE PROGRAM/COURSES

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE (BSESSDP)

Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. These includes major sciences, such as biology, chemistry, physics, earth and marine sciences, and mathematics. In addition, the program includes training in the social sciences in order that its graduates will be equipped to understand the important role of ethics, society and culture to the environment.

Graduates can engage in work related to air, water, and soil quality management, energy and natural resource management, planning and design, waste management and environmental assessment. In particular, they can work as an environmental impact assessors, environmental pollution officers, conservation and resources management staff, project planning and assessment, and technical personnel in private companies, NGO's and government agencies. They can also pursue further graduate studies to enhance their technical expertise.

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSIT)

The BS Information Technology program includes the study of the utilization of both hardware and software technologies involving planning, installing, customizing, operating, managing and administering, and maintaining information technology infrastructure that provides computing solutions to address the needs of an organization.

The graduates are expected to become globally competent, innovative and socially and ethically responsible computing professional engaged in life-long learning endeavours. They are capable of contributing to the country's national development goals.

BACHELOR OF GRAPHICS TECHNOLOGY

Major in Architecture Technology (BGTAT)

The Bachelor in Graphics Technology major in Architecture Technology is a 4-year degree program that is designed to prepare the students to engage in arts as architectural technologists and visual artists. The basic and advance skills in drafting, rendering, and creative works both theoretical and practical will enable them to assist architects in production of working drawings. Their creative skills will be highlighted in promotional publication outputs and portfolio in the building of industry profession.

BACHELOR OF TECHNICAL-VOCATIONAL TEACHER EDUCATION

Major in Electrical Technology (BTVTEdELXT)

This course is designed to equip individuals with operational skills in Electrical Installation & maintenance particularly in installing and maintaining electrical wiring, lighting and related equipment / systems in residential houses and buildings. This course also covers the proper operation and maintenance of direct-current systems, alternating current and controls, electrical measuring instruments, electrical safety, short circuits analysis and troubleshooting. The course covers lighting and alarm system with emphasis on renewable energy and conservation such as Photovoltaic and Solar Panel Technology.



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BACHELOR OF TECHNICAL-VOCATIONAL TEACHER EDUCATION

Major in Electronics Technology (BTVTEdET)

This course is designed to develop & enhance the knowledge, skills & attitudes of an Electronics Products Technician, in accordance with industry standards. It covers the basic and common competencies in addition to the core competencies such as Computer system servicing, assembling electronic products, fabricating PCB modules and installing and servicing consumer and industrial electronics products and systems. It includes Instrumentation & Control Servicing, Mechatronics Servicing and Broad Band Servicing.

BACHELOR OF TECHNICAL-VOCATIONAL TEACHER EDUCATION

Major in Information and Communication Technology (Computer Hardware Servicing/ Computer Programming) (BTVTEd-ICTCH/BTVTEd-ICTCP)

This course is an umbrella term that includes installation and servicing of communication device or application, encompassing: radio, television, cellular phones, computer and network hardware and software, satellite system and so on, as well as the various maintenance and applications. This includes study or business of developing and using technology to process information and aid communications.

BACHELOR OF ENGINEERING TECHNOLOGY (BET) PROGRAM/COURSES

BACHELOR OF ENGINEERING TECHNOLOGY

Major in Automotive Technology (BETAT)

The Bachelor of Engineering Technology-Automotive Technology is a four-year course designed to prepare the graduate to work practically in every phase of basic engineering and technology areas such as research and development, practical design experiment production planning and quality control testing in areas involving in automotive technology. Specifically, the course deals with the study of principles of design and construct of the different system and components of automobiles. Laboratory and/or practicum as well as actual servicing job under chassis, engine, and body and electrical is undertaken to equip the students' knowledge and skill of technician or supervisor in industry.

BACHELOR OF ENGINEERING TECHNOLOGY

Major in Chemical Technology (BETCHT)

The Bachelor of Engineering Technology major in Chemical Technology is a four-year degree program designed to prepare students to become laboratory technicians or analysts, research associates in high-tech research and development or quality control laboratories, academic institutions, and government facilities. They can also work in chemical process operations as engineering technologists. Chemical technicians use sophisticated chemical/biochemical methods and instrumentation to analyze chemical and pharmaceutical substances and evaluate their properties.



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BACHELOR OF ENGINEERING TECHNOLOGY

Major in Civil Technology (BETCT)

The course is an interphase of the disciplines of Civil Engineering and Construction Technology to produce a Civil Technician who can perform a supporting role to the Civil Engineer. The course prepares the graduates to carry out jobs like site surveys and site investigation, quality control, cost estimation, construction planning, control and design, and supervision of construction work. The program prepares graduates to such job opportunities as construction foreman, project assistant, project inspector, soils and materials laboratory technician, environmental sanitation aide, building supervisor, quantity surveyor, construction surveyor and even prepares the graduates for technopreneurship.

BACHELOR OF ENGINEERING TECHNOLOGY

Major in Dies and Moulds Technology (BETDMT)

The Bachelor of Engineering Technology major in Dies and Moulds Technology is a four-year course of institutional training inclusive of Supervised Industrial Training of 800 hours or equivalent to one semester on the third year for regular student. The students should have aptitude in mechanical and willing to pursue career as an engineering technologist. This program provides practical and theoretical knowledge primarily in the general education mandated by the Commission on Higher Education. In Practicum, students are equipped with related theory subjects, e.g. calculations, design and fabrication competencies for their training job and project work from to third year. In the fourth year, they are required to conduct a research project study as pre-requisite for graduation.

The program offers career opportunities in the areas of metals and non-metals, specialized dies and moulds making, jigs and fixtures quality control and maintenance, CAD-CAM-CAE, CNC and other manufacturing operations. Finally, the graduates in this program have the option to pursue related advanced or graduate studies.

BACHELOR OF ENGINEERING TECHNOLOGY

Major in Electrical Technology (BETET)

The Bachelor of Engineering Technology major in Electrical Technology is designed to prepare graduates for employment in a variety of fields, including manufacturing, assembling, servicing, power generation, transmission, distribution and utilization, telecommunication and other related industries. The curriculum focuses on the application of electrical principles and critical thinking in the solution of practical problems. Students learn about equipment testing and how to apply the technologies they have learned to address real-world problems. It also focuses on the installation, operations, repair and maintenance of the electrical systems. A minimum of 800 hours of immersion in electrical engineering technology activities through the Supervised Industrial Training in Electrical Technology are the final requirements of the program.



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Major in Electronics Technology (BETELXT)

The graduates of Bachelor of Engineering Technology major in Electronics Technology program will have competencies for jobs that require computing skills, communication basics and automation expertise. Practical knowledge in design and fabrication are being developed and applied on their research project development course. On the final year, the students are placed in Supervised Industrial Training for 800 hours that would lead to career opportunities in the areas of (1) production and manufacturing, (2) technical service and maintenance, (3) product test and evaluation, (4) communications operations and installations and (5) sales and distributions.

BACHELOR OF ENGINEERING TECHNOLOGY

Major in Electromechanical Technology (BETEMT)

The Bachelor of Engineering Technology major in Electromechanical Technology is a four-year degree program covers the principles, operations, installation and maintenance of basic electronic, electrical and mechanical devices. It also includes development of skill in the use of necessary tools and equipment for maintenance work.

The program develops a wide variety of skills necessary to enter industry as electromechanical technologist. The training provides a cross-section education in any aspects of electrical, electronic and mechanical field. Such technologist would be capable of doing electrical, electronic and mechanical maintenance and service works.

BACHELOR OF ENGINEERING TECHNOLOGY

Major in Heating, Ventilation, Air Conditioning /Refrigeration Technology (BETHVAC/RT)

The Bachelor of Engineering Technology major in Heating, Ventilation, Air Conditioning/Refrigeration Technology is a course designed to provide technical engineering approach specifically to solve problems, both in theory and actual operation of HVACR primary, secondary equipment and accessories. These include domestic, commercial and industrial HVACR system. The graduates are prepared as Technical service engineer, installation/maintenance engineer and HVAC/R contractor to troubleshoot, conduct technical problem solution to HVACR system and manipulative skills in the operation of the equipment.

BACHELOR OF ENGINEERING TECHNOLOGY

Major in Instrumentation & Control Technology (BETICT)

The Bachelor of Engineering Technology major in Instrumentation & Control Technology prepares the graduates for the position in industry in the field of process measurements and automatic control. It deals with the measurement and control of processes variables such as temperature, pressure, new rates level, humidity, specific gravity, PH and conductivity. Both analog and digital systems are covered in this course. Graduates of this course has working knowledge of electronics, fluidics, microprocessors, computers and mechanical/chemical features of process control loop installations.



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Major in Mechatronics Technology (BETMECT)

The Bachelor of Engineering Technology major in Mechatronics Technology is a four-year degree program designed to provide knowledge and information in the integrated fields of mechanical, electrical, computing and electronics. The course covers areas specifically on computer fundamental and applications, basic mechanical, electrical and electronic engineering concepts, advance knowledge in automation, control and manufacturing technologies, and maintenance and services.

BACHELOR OF ENGINEERING TECHNOLOGY

Major in Mechanical Technology (BETMT)

The Bachelor of Engineering Technology major in Mechanical Technology is a four year degree program designed to provide knowledge and information in integrated fields of mechanical, material and testing ferrous and non-ferrous without impairing the test materials. It includes the application of precision measuring instrument, knowledge and materials and processes, reading and preparing working drawing, basic programming of CNC Lathe and CNC milling, use and operation of machine tools, design fabrication of jigs and fixtures for economical production. It also includes the necessary skills in absorbing, interpreting, and transmitting information orally and in writing.

BACHELOR OF ENGINEERING TECHNOLOGY

Major in Non-Destructive Testing Technology (BETNDT)

The Bachelor of Engineering Technology major in Non-destructive Testing Technology is a four year degree program that is designed to provide knowledge and information in integrated fields of mechanical, material and testing ferrous and non-ferrous without impairing the test materials.

The course deals with the testing of materials, components, assembly or structure without impairing its usefulness or safety to ensure that products are more reliable and safe. It covers the 5 most common non-destructive methods; radiograph testing, magnetic practices testing, ultra sonic testing, and eddy current testing. In addition, the course provides an understanding of the metallurgical treat factors affecting the properties of metal and theoretical and practical aspects of welding, foundry, and other structures.

~~~~~**NOTHING FOLLOWS**~~~~~