

Course Title	Description
Communication in English (ENGI01)	This course focuses on communication skills in the workplace, where students learn to write business letters and participate in discussions and effective presentations.
Calculus I (GSMA101)	Covers the concepts of differentiation necessary for science and engineering, such as limits, continuity, derivatives, and partial differentiation.
General Chemistry (GSCH101)	Aims to provide students with a foundational knowledge of chemistry, including atomic structure, chemical bonds, gases, thermodynamics, and chemical kinetics.
Engineering Drawing (ENGT101)	Introduces technical drawing using computer-aided design, including developing engineering drawings according to international standard
Physical Education (GSPE101)	Focuses on promoting physical activity and developing a healthy lifestyle.
Introduction to Chemical Engineering Technology (CMET101)	Focuses on the basic calculations and techniques used in the chemical process industry, including material and energy balances for both reactive and non-reactive systems.
Fluid Mechanics (CMET105)	Explains the phenomena and principles of fluid flow and their application in industrial systems, including static and dynamic flow analysis.
Chemical Analysis Methods (CMET102)	Focuses on chemical methods and instrumental techniques used in industrial analysis, including spectroscopy and chromatography.
Applied Organic Chemistry (CMET103)	Covers fundamental concepts in organic chemistry and its applications in industries such as petroleum, pharmaceuticals, and plastics.
Heat Transfer (CMET106)	Introduces the fundamentals of heat transfer and its applications in industrial equipment such as heat exchangers, boilers, and condensers.
Computer Programming (ELET104)	Introduces students to problem-solving techniques using the programming language "C," covering basic aspects such as input/output statements and control structures.
Industrial Safety (ENGT201)	Addresses the principles of safety in the industrial workplace, including hazard recognition and risk management according to international standards.
Applied Statistics (GSST201)	Covers the concepts and techniques of statistics used in data analysis, such as frequency distributions, hypothesis testing, and regression.
Industrial Process Control (CMET204)	Provides the fundamental principles of controlling industrial variables, including common systems such as PLC, DCS, and SCADA.