



PROFESSIONAL BACHELOR OF MECHANICAL ENGINEERING

The Bachelor of Engineering (Mechanical Engineering) will provide you with the skills to become a professional and highly employable mechanical engineer, within a national and international context. In the two years of this internationally accredited degree, you'll learn the fundamentals of engineering sciences, mathematics, engineering design and engineering professional practice. As you progress, you'll customize your degree by focusing your studies in the general field of mechanical engineering or other areas such as manufacturing, automotive, business, mathematics or computing. You'll have the opportunity to design creative solutions through inspiring and sustainable design-and-build projects, as well as taking part in the Engineers Without Borders.

Challenge Mechanical engineers are needed in a wide range of industries. For example, in design and manufacturing companies, but also in engineering and consultancy firms. Other sectors include sustainable energy, medical product development and process automation. They design and build production machinery, transport systems and vehicles such as cars and motorcycles

Program	Professional Bachelor of Mechanical Engineering
Duration	2 Academic Years
Credit Hours	84 Credits

Subject	Credit Hours
English Language (101)	3
Calculus	3
Physics	3
Introduction to Mechanical Engineering	3
English For Mechanical Engineering	3
Engineering Mathematics	3
Mechanics of Materials	3
Dynamics	3
Thermodynamics	3
Engineering Drawing	3
Fluid Mechanics	3
Heat Transfer	3
Machine Design	3
Mechanical Vibrations	3
Manufacturing Processes	3

Control Systems	3
Robotics and Automation	3
Automotive Engineering	3
Computational Fluid Dynamics (CFD)	3
HVAC System Design	3
Nanotechnology	3
Materials Engineering	3
Mechatronics	3
Sustainable Engineering	3
Propulsion Systems	3
Thermal System Design	3
Hydraulic and Pneumatics Systems	3
Graduation Project	3