



Bachelor of Engineering (Hons) in Mechatronics

Study Mode	Intake	Duration	Modules	Course Fee
Full Time	February, May and September	16 Months	10 Modules	\$26,540.00

Our Mechatronics Honours degree programme equips students with smart technology knowledge, understanding robotics integration for the fourth industrial revolution.

Programme Overview

Mechatronics is the widely recognized term for the integration of mechanical, electronic and intelligent control sub-systems to realize a complete system, which may be a product, machine or process.

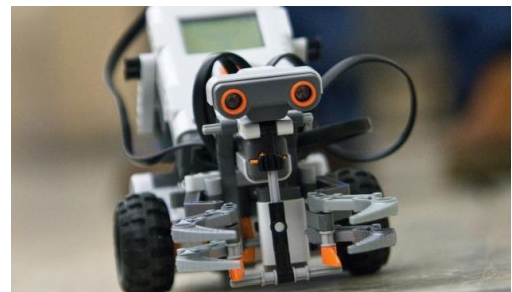
The Bachelor of Engineering (Hons) in Mechatronic is the study of the synergistic use of mechanical, electrical and computer engineering.

The course has a unique balance of key analytical subjects and professional skills, ensuring that you graduate with the confidence to face challenging engineering situations in industry. Students will be equipped with latest technology, knowledge and experience to deal with challenging engineering problems and enable them to design “intelligent” engineering components and systems.

The program instills a broad-based understanding of the fundamental technical subject areas associated with mechatronic engineering so students are ready for immediate employment in industry or graduate study.

Course Outline

1	Applied Electronics
2	Embedded Systems and Drives
3	Electromagnetics
4	Project Management
5	Advanced Engineering Mathematics
6	Theory of Machines & Thermodynamics
7	Power Electronics and Generation
8	System Integration
9	Dynamics and Control
10	Individual Project





Graduates of a Bachelor degree in Mechatronics will be able to create Mechatronic products, which increase performance and efficiency in various industries. The degree itself is a combination of both electrical and mechanical engineering and seeks to fulfill industrial needs that require both fields.



A mechatronics engineer unites the principles of mechanics, electronics, and computing to generate a simpler, more economical and reliable system. An expert in systems engineering, capable of integrating different technologies for optimization and breakthrough solutions.

Mechatronics engineers work in all aspects of the development of the smart machine - from modelling, simulation, system analysis, design and testing right through to manufacture.

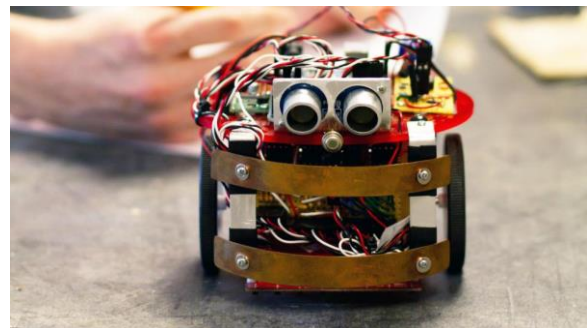
Your duties are to develop new solutions to industrial problems using mechanical and electronic processes and computer technology.



Course Outcome

Students who successfully complete and pass the modules stipulated in the course structure will be awarded the Bachelor of Engineering (Honours) in Mechatronics from De Montfort University.

The award of the degree is guaranteed by the university to be identical to that awarded in the UK, in certificate, transcript, rights and recognition.



Why Study in Singapore

- Singapore is well-known for its educational excellence
- Today's New Asia – A metropolitan city with rich multicultural heritage and ranked 2nd in The Economist's Safe Cities Index
- Integrated transport system and a world-class airport, student can look forward to enhanced access to countries within Asia Pacific
- A great place for food lovers to enjoy a wide range of cuisines from different ethnic groups
- Excellent job opportunities – almost every MNC has its Asia-Pacific head office in Singapore, giving graduates higher opportunities to secure jobs
- One of the richest countries in the world per capita

