



DEPARTMENT OF ENGINEERING SCIENCES MECHATRONICS

(EB011EEE05)

Mechatronics is an interdisciplinary branch of engineering, which combines a fundamental background in mechanical engineering with light-current electrical engineering. Apart from receiving a thorough grounding in both electrical and mechanical engineering, the Mechatronics student will gain a foundation of understanding in physical science, advanced engineering mathematics, electro-mechanical control theory, microcomputer technology, systemic engineering design and some principles of engineering management. The Mechatronics engineer in industry may require expertise across a broad range of engineering disciplines, and will be especially well-suited to a career in light manufacturing or process control. Mechatronics engineers may become involved in fields such as instrumentation, automation, robotics, bio-medical engineering or machine vision. The Mechatronics Programme at UCT aims to equip its graduates with a solid and broad-based engineering education, including the skills in design and the knowledge of computers and other digital systems hardware, which will be necessary for a successful future career in any of these environments.

Curriculum

In L2

Fundamental subjects:
English First Additional Language
Mathematics
Life Orientation

Vocational subjects:
Electro Technology
Introduction to Computers
Manual Manufacturing
Mechatronics systems

IN L3

Fundamental subjects:
English First Additional Language
Mathematics
Life Orientation

Vocational subjects:
Introduction to Computers changes to Stored Programme
Manual Manufacturing changes to Machine Manufacturing
Electro Technology
Mechatronics systems



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IN L4

Fundamental subjects:

English First Additional Language

Mathematics

Life Orientation

Vocational subjects:

Stored Programme

Machine Manufacturing changes to Computer integrated manufacturing

Electro Technology

Mechatronics systems

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