Department of Mechanical Engineering

Department of Electrical Engineering

Mechanical Engineering (MEC)

Description:
A traditional Mechanical Engineering degree with minor electrical and electronic content. Subjects like advanced Thermodynamics and Fluid Dynamics take the place of the extended electronic and computer content in MMT.

Notable Content:
- Mechanical Engineering Design
- Solid Mechanics and Dynamics
- Control Systems
- Analogue Electronics
- Extended Thermodynamics
- Extended Fluid Dynamics
- Additional engineering elective

Content Proportions:

Science	~15%
Mechanics	~65%
Elec/Computers	~10%
Management/ Complementary	~10%

Typical Careers:
Mechanical design, Energy, Fluid Dynamics, CFD, Aerodynamics, Materials Design and Testing, Management

Best For: people with a strong interest in mechanical and thermos/fluid design, materials and mechanisms.

Mechanical and Mechatronic Engineering (MMT)

Description:
A Mechanical Engineering degree with significant electrical/electronic and computer content taking the place of the extended aspects of traditional Mechanical Engineering subjects such as advanced Thermodynamics and Fluid Dynamics.

Notable Content:
- Mechanical Engineering Design
- Solid Mechanics and Dynamics
- Control Systems
- Analogue and Digital Electronics
- Embedded Systems
- C Programming for Embedded Systems
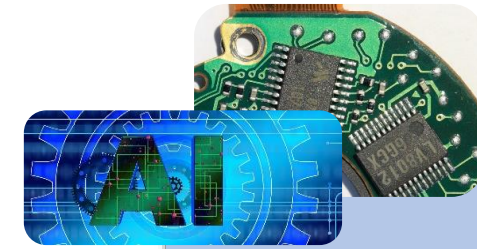- Introductory Mechatronic Design

Content Proportions:

Science	~15%
Mechanics	~50%
Elec/Computers	~25%
Management/ Complementary	~10%

Typical Careers:
Product design, Embedded systems, Aerospace, Automotive, Energy, Manufacturing, Management, Robotics and Automation.

Best For: people with an interest in mechanical design, electronics and programming/control.

Mechatronic Engineering (MT)

Description:
An Electrical Engineering degree with predominantly electrical/electronic and computer content. Mechanical content forms a small proportion of the degree with advanced electrical/electronic and computer science comprising most courses.

Notable Content:
- Extended Analogue and Digital Electronics and Electrical Content
- Extended Embedded Systems
- Signal Processing
- Advanced Control Systems
- Mechatronic Design for the automation and process control industries

Content Proportions:

Science	~15%
Mechanics	~10%
Elec/Computers	~65%
Management/Complementary	~10%

Typical Careers:
Software development, Embedded systems, Robotics, Control and Instrumentation, Electrical/Electronic engineering, Management

Best For: people with a strong interest in electronics , programming and control of systems who would like an understanding of mechanisms.