MUC UNIVERSITY
COLLEGE OF TECHNOLOGY

Mechatronics

Also known as Mechanical and Electronics Engineering, has been defined as the combination of mechanical engineering, electronic engineering and software engineering. As an interdisciplinary field, Mechatronics focuses on the control of advanced hybrid systems through the study of automata from an engineering perspective.

Automotive Systems

A life-cycle system that involves the multidisciplinary integration of automotive mechanical and electronic systems.

Industrial Machines

Develop and perform assembly, tuning processes, and carry out maintenance within the machine tool industry or auxiliary sectors.

Sensors

A measurement of position, velocity, acceleration, angular velocity, strain, torque, force, pressure, flow rate. The theory of major sensors to adapt the students on the applicability of measurements and instrumentations used in real life.

CAD System

The use of computer-aided design (CAD) and other engineering software for modeling, simulating, and analyzing complex mechanical, electronic, or other engineering systems and machines

Jobs with Mechatronics:

Robotics Engineer/technician	**Automation Engineer**	**Industrial Engineer**	**Control System Design/ Troubleshooting Engineer**
Electronics Design Engineer	**Mechanical Design Engineer**	**Instrumentation Engineer**	**Manufacturing**

Apply Now:

Scan the QR Code to access our Application Form.

Scan the QR Code to access our Whatsapp.

Courses Distributions Per Semester

YEAR 1
Credit per year 32

Semester 1

Code	Cr.	Course Name
CSC 201	3	Computer Skills
CSC 203	3	Intro To Information Technology
BUS 200	3	Business Skills
CCN200	3	Engineering Physics
Total	**12**	

Semester 2

Code	Cr.	Course Name
MAT350	3	Calculus III
CSC200	3	intro to programming
CCN201	3	Circuit Analysis 1
EET301L	1	Electronics 1 Lab
EET301	3	Electronics 1
CCN201L	1	Circuit Analysis 1 Lab
Total	**14**	

Semester 3

Code	Cr.	Course Name
BUS210	3	Business Law
	3	Free Elective
Total	**6**	

YEAR 2
Credit per year 34

Semester 1

Code	Cr.	Course Name
ENG 201	3	English Communication Skills
MTE210	3	Statics & Dynamics
CCN220	3	Digital Systems
	3	Specialization Course
Total	**12**	

Semester 2

Code	Cr.	Course Name
MAT225	3	Differential Equations
CCN322	3	Microprocessors
	3	Specialization Course
	3	Specialization Course
ENG202	3	Public Speaking
Total	**15**	

Semester 3

Code	Cr.	Course Name
ARB 220	3	Arabic Communication Skills
MAT360	3	Probability & Statistics
TE-CH229	1	Internship
Total	**7**	

YEAR 3
Credit per year 30

Semester 1

Code	Cr.	Course Name
CCN330	3	Signals & Systems
CCN405	3	Control Systems
CCN405L	1	Control Systems Lab
WLS202	3	Work & Life Skills
	3	Specialization Course
MAT205	3	Linear Algebra
Total	**16**	

Semester 2

Code	Cr.	Course Name
MTE499	3	Senior Project
ENG204	3	Rhetoric English
MAT370	3	Discrete Structures
MTE407	3	Mechatronics
MTE407L	1	Mechatronics Lab
	1	Specialization Course
Total	**14**	

Specialization Courses
(you can choose any of the followings)

Code	Credits	Course Name
MTE361	3	Computer Aided Design
MTE410	3	Robotics
MTE410L	1	Robotics Laboratory
MTE412	3	Kinematics and Dynamics of Machines
MTE425	3	Optoelectronics Sensors and Instrumentation
MTE425L	1	Optoelectronics Sensors and Instrumentation Lab
MTE490	1	Engineering Ethics
CCN202	3	Circuit Analysis II
CCN203	1	Engineering Workshop
CCN204	1	Engineering Tools
MTE310	3	Mechanics of Materials
CCN448	3	Virtual Instrumentation
MTE317	3	Thermodynamics and Heat Transfer
CHE201	3	General Chemistry
CCN342	3	Electromagnetism or Em Theory

Free Elective Courses
(you can choose any of the followings)

Code	Credits	Course Name
MSC200	3	Music
DRM200	3	Drama and Theater
PSY200	3	Introduction To Psychology
SOC200	3	Introduction To Sociology
ARB200	3	Arabic Culture
POL200	3	Introduction To Political Science
NUT200	3	Health and Nutrition
ART211	3	Photography
HTL240	3	Cooking
LAN201	3	Language course
ECT201	3	Physical Education
ARTS217	3	History of Arts