



MASTER OF ENGINEERING IN MECHANICAL ENGINEERING

PROGRAM OVERVIEW

The master of engineering in mechanical engineering is a 30 credit hour degree program. It is intended to be a terminal degree program designed for those who wish to become a leader within the mechanical engineering field.

This degree is particularly well-suited for students who wish to study part-time, for those interested in updating their technical skills, or for those not focused on a research-oriented Master of Science thesis. A conventional thesis is not required for the program. In its place, students complete a capstone experience, which may be a design project leadership course, a well-organized and carefully chosen industrial internship, or a project with paper option. A research methods course may also fulfill the capstone experience.

Three focus areas, specializations, are offered at RIT Dubai: Sustainability, Thermo/Fluids Engineering and Mechanics and Design. Part time working students have the option of attending evening classes.

POSSIBLE CAREER OPTIONS

Because of their comprehensive training and education, mechanical engineers are often called upon to assume management positions. They work in many different industries and businesses as product developers, researchers, prototype designers, automotive engineers, aerospace engineers, management consultants, among many others and many serve in senior leadership positions in their fields.

CURRICULUM

TYPICAL COURSE SEQUENCE

CONTACT US

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COURSE

Curriculum		Credits	Focus Area Courses		Credits
MECE - 601	Math I for Engineers	3	MECE - 620	Service Analytics	3
MECE - 602	Math II for Engineers	3	MECE - 644	Concentration Courses	3
	Focus Area Courses	9	MECE - 785	Mechanics of Solids	3
	Electives	12			
MECE - 792	Project	3			
Total Semester Credit Hours – 30					
Focus Areas Courses					
Total Semester Credit Hours – 36					
Sustainability			Thermo/Fluids Engineering		
Choose three from the following			MECE - 731	Computational Fluid Dynamics	3
MECE - 629	Renewable Energy Systems	3	MECE - 738	Ideal Flows	3
MECE - 733	Sustainable Energy Management	3	MECE - 751	Convective Phenomena	3
MECE - 739	Alternative Fuels and Energy Efficiency	3			
ISEE - 786	Life Cycle Assessment	3			
Electives					
MECE - 605	Finite Elements	3	MECE - 789	Special Topics: Design of Thermal Systems	3
MECE - 789	Special Topics: Refrigeration & Air Conditioning	3	MECE - 789	Special Topics: Water Desalination	3
MECE - 789	Special Topics: Air Conditioning in Hot and Humid Conditions	3	MECE - 799	Independent Study	3

*Additional Sustainability course options may be available.

ACCREDITATION

The Master of Engineering in mechanical engineering program is accredited by the UAE Ministry of Higher Education and Scientific Research and is licensed by the KHDA.