



### PROGRAM OVERVIEW

Hands-on laboratory activities. A capstone graduation project that will help you to stand out from the crowd. A 50 week work experience (co-operative training) placement as part of your program. Just some of the elements that help RIT Dubai's Mechanical Engineering graduates to be amongst the best in their field.

Arguably the most comprehensive of the engineering disciplines, as a Mechanical Engineering major you will be interested in the design of automotive and aerospace systems, bio-engineering devices, air conditioning and energy-related technologies.

Over the course of your time at RIT Dubai, you will devote two years of study to mathematics, physics, liberal arts, and engineering sciences, whilst your third and fourth years will focus on engineering sciences and your cooperative training placement. By the fifth year, you'll be ready for high-level electives, focusing on design and systems, culminating in a capstone graduation project that will put your skills to the test.

You'll also have the opportunity to get involved with professional societies throughout the course of your degree, including the American Society of Mechanical Engineers (ASME) and the American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE), along with the chance to participate in national and international competitions that could bring you global recognition.

### POSSIBLE CAREER OPTIONS

RIT Dubai mechanical engineers work in a range of different industries and businesses as product developers, researchers, prototype designers, automotive engineers, oil and gas engineers, energy auditors, management consultants and more. Many end up in high-level management positions.

Many of our students also move on to master's studies either at RIT Dubai or other international universities in the U.S., U.K. and globally.

### ACCREDITATION

The Bachelor of Science in Mechanical Engineering program is accredited by the UAE Ministry of Education - Higher Education Affairs and ABET. It is also licensed by the KHDA and recognized by the Jordanian Ministry of Higher Education and Scientific Research ensuring you'll graduate with a top internationally recognized engineering degree.



Engineering  
Accreditation  
Commission



UNITED ARAB EMIRATES  
MINISTRY OF EDUCATION  
HIGHER EDUCATION AFFAIRS

### OPTIONS

At RIT Dubai you'll have the option of graduating with a Bachelor of Science in either general **Mechanical Engineering** or **Energy and Environment**, a fascinating program which can lead to a wide range of opportunities and careers associated with energy-intensive systems and how they relate to the environment. Energy and Environment students explore an energy systems design project over the course of their studies and pursue co-op employment in a related field. You can also select from a range of minors.

With the option to study or transfer to the RIT campus in New York as a Mechanical Engineering major, you could also choose to specialize in aerospace engineering, automotive engineering, bio-engineering and energy and environment in the U.S. This is subject to achieving additional respective requirements.



"There is a lot of practical applications in the Mechanical engineering program so I feel prepared for the real world and the co-op is a great concept. I wanted a U.S. degree and the opportunity to study overseas which RIT Dubai offers. The reputation of the university and the program offers great job opportunities. I'm really happy here."

Judy Akbik

## Mechanical Engineering - Bachelor of Science Degree, Typical Course Sequence

Course		Semester Credit Hrs.	Course		Semester Credit Hrs.
FIRST YEAR			THIRD YEAR		
UWRT - 150	Writing Seminar	3	MECE - 3xx	ME Extended Core Elective	3
				Physical Science Elective II	3
MATH - 181, 182	Project-based Calculus I, II	8	MATH - 326	Boundary Value Problems	3
	LAS Perspective 1, 2, 3 (Artistic, Ethical, Global)	9	EEEE - 281	Circuits I	3
			MECE - 211	Engineering Measurements Lab	2
MECE - 102	Engineering Mechanics Lab	3		LAS Immersion 2	3
MECE - 104	Engineering Design Tools	3	PHYS - 212	University Physics II	4
ANTH 365	Islamic Culture	3	MECE - 499	Cooperative Education	Co-op
ACSC-10	Year One	0			
SECOND YEAR			FOURTH YEAR		
MECE - 103	Statics	3	MECE-317	Numerical Methods	3
	Physical Science Elective 1	3	MATH - 241	Linear Algebra	3
	LAS Perspective 4(Social)	3	MECE - 310	Heat Transfer I	3
MATH - 219	Multivariable Calculus	3	MECE - 301	Engineering Applications Lab	2
MECE - 205	Dynamics	3	MECE - xxx	Contemporary Issues in Mechanical Engineering (WI)	3
MECE - 110	Thermodynamics I	3	MECE - 499	Cooperative Education	Co-op
MECE - 210	Fluid Mechanics I	3		FIFTH YEAR	
	LAS Immersion 1	3	MECE - 320	System Dynamics	3
MATH - 231	Differential Equations	3	MECE - 497, 498	Multidisciplinary Senior Design I, II	6
MECE - 203, 204	Strength of Materials I and Lab	4		ME Applied Electives	6
MECE - 305, 306	Materials Science with Applications and Lab	4		ME Applied or Extended Core Elective	3
			STAT - 205	Applied Statistics	3
				LAS Immersion 3	3
				Free Electives	6
<b>Total Semester Credit Hours - 129</b>					

### A SAMPLE OF MECHANICAL ENGINEERING ELECTIVE COURSES OFFERED AT RIT DUBAI:

- [MECE 350 - Strength of Materials II](#)
- [MECE 352 - Thermodynamics II](#)
- [MECE 489 - Special Topics: Refrigeration and Air Conditioning for Hot and Humid Climates](#)
- [MECE 529 - Renewable Energy Systems](#)
- [MECE 544 - Introduction to Composite Materials](#)

### COOPERATIVE EDUCATION (Internship)

By studying at RIT Dubai you'll undertake a 50 week, full-time, paid cooperative internship placement as part of your program. This period will add to your experience both in terms of hardcore engineering and widening your network. Many students end up working for companies with which they conducted their co-op.

### MINORS:

- » Industrial Engineering
- » Electrical Engineering
- » Computing Security
- » Computing and Information Technologies
- » Business Administration
- » Psychology
- » Business Management

**R·I·T Dubai**

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