GLOBALLY RECOGNIZED GRADUATE PROGRAMS
Rochester Institute of Technology, New York USA, Est. 1829
WHATEVER YOUR PASSION, YOU CAN MASTER IT AT RIT DUBAI

RIT Dubai is a place where brilliant minds assemble and collaborate, where they pool together their individual talents across disciplines in service of big projects and big ideas. It is an intersection of disciplines, a launching pad for a brilliant career, and a highly unique state of mind. Upon completion of their studies, students obtain an internationally recognized degree awarded by the Rochester Institute of Technology that is accredited both in the United States and in the UAE by MOHESR.

RIT Dubai is proud to offer a flexible delivery model geared toward working professionals, providing intensive courses offered in the evenings and on weekends. You will be able to complete your master’s degree in 12-18 months while working. Additionally you have the option of spending two terms studying at the main campus in Rochester, New York, USA.

RIT Dubai was established in 2008 to provide world-class university programs in the United Arab Emirates for students and professionals. RIT Dubai offers the same high-quality, competitive, technology-based educational programs as those offered by the Rochester Institute of Technology in New York.

ABOUT RIT NY

The Rochester Institute of Technology (RIT) is one of the world’s leading career oriented, technological-focused universities, offering high quality academic programs, outstanding committed faculty, and state-of-the-art facilities.

Founded in 1829, RIT is the 11th largest private university in the US, and our cooperative education program is one of the oldest and largest in the world. A history of experiential education, applied research, partnerships with business and industry, and more than 110,000 alumni working worldwide provide the correct connections you need on the path to career success.

RIT DUBAI GRADUATE PROGRAMS OFFERED

- Master of Science in Electrical Engineering
- Master of Engineering in Mechanical Engineering
- Master of Science in Networking & Systems Administration
- Master of Science in Service Leadership & Innovation

ACCREDITATION

- Degree awarded by RIT in NY, USA
- Accredited by the Middle States Association of Colleges & Universities in the US
- Internationally recognized
- Accredited by the UAE Ministry of Higher Education and Scientific Research (MOHESR)
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 do not expect to pursue a doctoral degree but 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. A specifically tailored program to the applicant needs may be worked out in special cases. Full time students may finish the program in 18 months while part time students may take a more relaxed track and finish the program in 24 months. Part time working students have the option of attending evening or weekend classes.

**SAMPLE COURSES**

**Sustainable Energy Management**

This course, Sustainable Energy Management and the Built Environment, provides an overview of mechanical and associated control systems within buildings with an emphasis on sub-systems which possess the most visible energy signature in terms of energy usage, energy inefficiency, and societal/global impact. Fundamentals of system operation are explored as well as energy management techniques. Using domestic and international case studies which highlight energy management within the built environment, students will explore methods by which engineers have achieved solutions aligned with sustainability.

**Introduction to Composite Materials**

This course is an applied course in the fundamentals and applications of composite materials. Topics covered include constituents of composites of composite materials, fabrication techniques, micromechanical analysis, macromechanical analysis, and the use of composites in design.

**Convective Phenomena**

This course introduces the student to the flow of real incompressible fluids. The differential approach is used to develop and solve the equations governing the phenomena of mass, momentum, and heat transfer. The material in the course provides the necessary background for a study of computational fluid dynamics.

**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.

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Majd Shaath
MS in Mechanical Engineering

“RIT allows me to graduate with an American degree which is really important to me. I’m fortunate to study in an international environment which enables me to be innovative and creative in my field.”
MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

The graduate program in electrical engineering combines theoretical fundamentals as well as practical aspects in this dynamic field, and educates students in the practices, methodologies, and techniques. The focus areas are communications and control systems.

Students employed full-time in industry can register for two courses or six credits each semester. It is possible for a student to obtain the MS degree in two academic years (or four academic semesters) by taking courses in early evening only.

The master of science (MS) degree in electrical engineering is awarded upon successful completion of an approved program of study, including courses in such areas as engineering mathematics, communications, and control. Students have the option to graduate on either thesis, graduate paper, or comprehensive exam option. RIT Dubai offers the program in its entirety in Dubai, but students have the option of studying at or transferring to the main campus in Rochester, New York, subject to achieving additional respective requirements and approvals.

Since all courses are offered during the evening from 6 - 9 pm, the master’s program can be pursued without interruption of the student’s existing employment commitments.

SAMPLE COURSES

Optimal Control

The course covers different optimization techniques as applied to feedback control systems. The main emphasis is on the design of optimal controllers for digital control systems. The major topics are: different performance indices, formulation of optimization problem with equality constraints, LaGrange multipliers, Hamiltonian and solution of discrete optimization problem. Other areas of study include Discrete Linear Quadratic Regulators (LQR), optimal and suboptimal feedback gains, Riccati equation and its solution, linear quadratic tracking problem, Dynamic Programming, Bellman’s principle of optimality, and optimal controllers for discrete and continuous systems.

Industrial Control

Fundamental modern automatic control systems and automation, feedback control design issues and limitations, Implementation issues, Sensors and Actuators, Industrial Controllers, PID Controllers in Industry, Programmable Logic Controllers (PLC), Selected Applications in Industry (Automotive industry, Power systems, Desalination plants, Aerospace industry).

Digital Data Communication

In this course on principles and practices of modern digital data communication systems, topics include pulse code transmission and error probabilities, M-ary signaling and performance, AWGN channels. Other topics include band-limited and distorting channels, filter design, equalizers, optimal detection for channels with memory, synchronization methods, non-linear modulation, and introduction to multipath fading channels, spread spectrum and OFDM. Students will perform a basic research assignment consisting of a literature survey, performance analysis, and dissemination of results in a written and oral presentation.

Possible Career options

With a shortage of electrical engineering talent in the job market, demands for RIT Dubai graduates remains at an all-time high. RIT’s highly regarded electrical engineering program uniquely combines the rigor of theory with hands-on applications and laboratory experiments in order to provide in-depth knowledge of the subject matter.

Nikhil Karande

MS in Electrical Engineering

“RIT Dubai has provided me a perfect blend of organized and structured course-work for electrical engineering with focus on communication. Along with quality professors, I’m honored to be associated with the brand name RIT which is recognized worldwide.”
Effective technical leadership in a modern enterprise relies on a combination of strong technical knowledge, an awareness of upcoming technological trends, and an understanding of basic business concepts and processes. The Master of Science in networking and systems administration enables students to study, develop, and become proficient in the practices, methodologies, and techniques used in the management of modern IT network infrastructures. The focus is on enterprise-scale problems and solutions, addressing the needs of a medium to large organization.

The Master of Science program in networking and systems administration is designed to provide both the knowledge and the technical skills needed to successfully compete in this environment. It is uniquely focused to address current issues in networking and systems administration through investigation of both the theoretical and the practical aspects of this continually evolving field. Course work examines the organizational and technological issues involved in enterprise scale networking, including emerging network technologies, network processing, high performance computing, network programming, and security.

**SAMPLE COURSES**

**Emerging Computing and Networking Technologies**
As this discipline moves forward, there are a substantial number of emerging technologies in development to address the inadequacies of current technologies. If widely adopted, these changes will revolutionize how support organizations and individuals create a whole new paradigm for computing, networking, and the security of today's computing environment. Students will be researching the current state of several of the most significant emerging technologies.

**Design and Deployment of Wireless Networks**
This course will take students through large scale wireless systems. It will also cover the significant access wireless networks. Important areas of concern will be contemporary and emerging WLAN standards, cellular communication and other forms of wireless access such as wireless internet service provision. Focal points for these areas will be protocol operation, network architecture and security concerns.

**Enterprise Computing**
This course explores enterprise systems (clouds, server farms, mainframes, and clusters/grid) from the environment, networking, storage, security, and system administration perspectives. Students in this course gain an understanding of the knowledge and concepts needed to manage, perform research in, and administrate those architectures.

**Possible Career options**
The program is intended to prepare graduates to assume leadership positions in for-profit and not-for-profit organizations dealing with evolving networking solutions. It is available for full and part-time study in both an online format as well as a traditional on-campus setting.

**About:** Trends in network communications—unifying wired and wireless infrastructures, Cloud computing, scalability, collaboration tools, and security can only be coalesced into reliable communication services if there are highly educated and technically proficient networking and system administration professionals who understand both traditional and emerging communication technologies as well as how to apply these technologies to organizational needs and opportunities.

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**Salman Al Abboudi**

MS in Networking and System Administration

"Receiving a US Master degree in Networking & System Administration from Rochester, NY, will allow me to achieve my long term goals. The positive environment at RIT Dubai enabled me to combat the difficult assignments and with the help of the faculty the obstacles developed into challenges which became opportunities to achieve my dream. Becoming an RIT Dubai Alumni I look forward to the next level of cooperating with RIT Dubai through the Cooperative Education office and the faculty."
The graduate program in Service Leadership and Innovation is a cutting-edge program designed to provide working professionals the leadership skills they need to transform their service organization. Service is no longer a subset of manufacturing-era thinking. Service today is a wholly new thinking system that examines and produces change across the totality of organizational environments and the economy. The global service environment imposes significant responsibility on leadership.

The graduate degree in Service Leadership and Innovation is awarded upon successful completion of 36 credit hours culminating in a comprehensive examination or capstone project. The program is completed in a combination of day and evening classes, and online learning. Extended classroom teaching may be offered using a virtual classroom located in Dubai and New York simultaneously. Class schedules cater to working professionals, providing intensive seminars offered in the evening and on weekends.

**SAMPLE COURSES**

**Breakthrough Thinking, Creativity, and Innovation**

This is an introductory survey course on the dynamics of innovation. The course focuses on individual, team, and organization level human and systems dynamics that impact organizational innovation. Students gain an awareness of understanding important skills in fostering multi-level organizational human ecologies conducive to the creation of innovation. Issues and challenges important to leaders at all levels in an organization, entrepreneurs and talent management practitioners will be explored.

**Change Leadership Development**

The goal of this course is to encourage students to carefully analyze their responsibilities and commitments in the context of leadership for change affecting the good of the organization. The course goes beyond the study of leadership; it will focus the student on developing the specific leadership skills for HRD they will need to effectively lead organizations through change to achieve their visions and goals. Most importantly, it will guide students through a self-awareness process that will highlight their change leadership characteristics and help to establish a plan of action to increase these competencies.

**Evolving Contexts in Service**

In this initial course, systems thinking is used to explore the concepts of service in a theoretical, future oriented and practical framework. Service systems are examined from a relationship building framework emphasizing the customer-centric view, human and intellectual capital, asset management, technical interactivity and connectivity, and the process and experiential effects of service.

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**Concentration**

The global service environment imposes significant responsibility on leadership. Leaders at all levels of the organization will be equipped with the following skills:

- Creating and innovating new service ideas, practices, and policies
- Building and utilizing sophisticated human capital assets wisely
- Designing, aligning and implementing new strategic focus
- Building experiences the customer values
- Application of service leadership concepts to produce superior performance outcomes

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**Hajara Ahmed**

MS in Service Leadership and Innovation

“The program is engaging and exciting and it gave opportunities to explore different service ideas in multiple industries. My mind is constantly thinking of how positive changes can be made by merging traditions, status quo and technology in today’s ever-changing world. The SLI degree from RIT Dubai broadens perspectives of service and technology globally. It is engaging and exciting and it gave me opportunities to explore different service ideas in multiple industries. Now I know that I can do a lot more than initially anticipated, and I believe this degree has allowed me to grow professionally and be who I really want to be.”
Your education is a wise investment in your future. Through high quality academic programs and the benefits of a prestigious American degree, RIT Dubai offers an excellent return on that investment. RIT Dubai secured over $350,000 for scholarships in order to support qualified students for enrollment in the 2014 / 2015 academic year. Scholarships are awarded to students who are ranked in the top of their class and meet our admission’s requirements. Last year, more than 40 percent of entering students received scholarship awards.

Applying for Graduate Admission
Admission to RIT Dubai is selective, but our admission process is a personal one. We are interested in learning about your interests, abilities, and goals in order to provide the best information and guidance we can as you select the university that is right for you.

To apply students should complete the following:
- Complete the application for admission (available online at http://www.rit.edu/dubai/admission.php)
- Receive a baccalaureate degree from an accredited university with a 3.0 GPA or its equivalent.
- Submit official transcripts (in English) of all previously completed undergraduate and graduate course work
- Submit TOEFL score minimum of: 79 for Internet based, 213 computer based or 550 paper based test, or IELTS score of 6.5
- Submit two professional recommendations
- Submit a resume detailing education and work experience
- Statement of intent (minimum 500 words) discussing
  - Why you are applying for the degree you have chosen
  - How your degree program will relate to your long-term career objectives
  - What personal or non-academic qualities you will contribute to the learning environment of RIT Dubai
  - What prior experience you have with respect to your chosen program
  - Why you want to attend the RIT Dubai program

To learn more about how you and others in your organization can enroll, contact the RIT Dubai Graduate Admissions Office: dubai@rit.edu or +971 4 371 2000. Enrollment is limited, so please contact us to register today.

Entire Program Cost (per Credit) | AED (Per Credit Hour) | USD (Per Credit Hour)
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Application fee (Non-refundable) | 210 | 58

Master’s Degree Tuition

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<thead>
<tr>
<th>Course</th>
<th>AED</th>
<th>USD</th>
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<tbody>
<tr>
<td>Service Leadership &amp; Innovation (36 credits)</td>
<td>127,800</td>
<td>35,014</td>
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<tr>
<td>Mechanical Engineering (30 credits)</td>
<td>106,500</td>
<td>29,178</td>
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<tr>
<td>Networking &amp; Systems Administration (30 credits)</td>
<td>106,500</td>
<td>29,178</td>
</tr>
<tr>
<td>Electrical Engineering (30 credits)</td>
<td>106,500</td>
<td>29,178</td>
</tr>
<tr>
<td>English Language Center (per semester)</td>
<td>15,000</td>
<td>4,110</td>
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<tr>
<td>Enrollment Deposit (Non-refundable &amp; credited towards 1st payment of tuition)</td>
<td>2,500</td>
<td>680</td>
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<tr>
<td>Text Books (Average price per book)</td>
<td>500</td>
<td>136</td>
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<tr>
<td>Per Credit Hour</td>
<td>3,549</td>
<td>972</td>
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Housing fees (including transportation & facilities per semester)

<table>
<thead>
<tr>
<th>Housing type</th>
<th>AED</th>
<th>USD</th>
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<tbody>
<tr>
<td>Double occupancy shared room</td>
<td>12,555</td>
<td>3,440</td>
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<tr>
<td>Single occupancy room</td>
<td>25,110</td>
<td>6,880</td>
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<tr>
<td>Housing deposit (Non-refundable &amp; credited towards 1st payment of tuition)</td>
<td>1,500</td>
<td>410</td>
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Student Visa

<table>
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<tr>
<th>Visa type</th>
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<tr>
<td>Visa process</td>
<td>2,500</td>
<td>685</td>
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<tr>
<td>Visa deposit (Refundable at the end of study or visa termination)</td>
<td>2,500</td>
<td>685</td>
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<tr>
<td>Emirates ID</td>
<td>170</td>
<td>47</td>
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<tr>
<td>Yearly Visa Renewal</td>
<td>1,670</td>
<td>458</td>
</tr>
<tr>
<td>Health Insurance (per year)</td>
<td>2,500</td>
<td>685</td>
</tr>
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Medical Insurance is mandatory for all students living at the dorms and/or those on our visa sponsorship.

**NOTE:** All Fees are subject to change per year. Conversion rate is 1 USD = 3.65 AED
WHY CHOOSE RIT DUBAI?

- Competitive scholarship program
- Complete a master’s degree in 12-18 months
- Unique and individual approach to every student
- Not-for-profit university sponsored by Dubai Silicon Oasis
- Benefit from sharing experiences with others in your field
- Flexible delivery model geared toward working professionals
- UAE Accredited degree by the Ministry of Higher Education
- Opportunity to spend one term studying at the main campus in Rochester, New York, USA
- An internationally accredited American degree from Rochester Institute of Technology, New York