ADJUNCT TEACHING POSITIONS IN ELECTRICAL ENGINEERING AT RIT DUBAI

RIT Dubai is currently seeking applications from exceptional candidates for adjunct teaching positions in the spring semester for the following electrical engineering courses:

**EEEE-483 Mechatronics:** Fundamental principles of electric machines are covered. Sensors and actuators are studied. The primary actuators discussed are high-performance electromechanical motion devices such as permanent-magnet DC, synchronous and stepper motors. Topics in power electronics and control of electromechanical systems are studied. High-performance MATLAB environment is used to simulate, analyze and control mechatronic systems. Application of digital signal processors and microcontrollers in mechatronics are introduced. Case studies are covered.

**EEEE-321 Energy Conversion:** This course covers: 1) the first principles and fundamentals of energy conversion: 2) The fundamentals of electromechanical, related electromagnetic topics, electric variables and electromagnetic forces. The basic concepts of energy conversion systems, DC electric machines, induction & synchronous electric machines (motors & generators) used in power systems, automotive, industrial, robotics and other applications are presented. The theory of energy conversion and electromechanical motion devices are covered.

**EEEE-420 Embedded Systems Design:** The purpose of this course is to expose students to both the hardware and the software components of a digital embedded system. It focuses on the boundary between hardware and software operations. Students will learn about a computer system from various abstraction levels from the digital logic gates to software applications. This course will also provide a solid foundation in computer systems architecture. The course focuses on the major hardware components such as: datapaths, the control unit, the central processing unit, the system memory, the I/O modules and on instruction set architectures. The lab sessions will cover the design, simulation and implementation of a 4-bit microprocessor core.

**REQUIRED QUALIFICATIONS:**
- PhD in Electrical Engineering or a closely related field
- Previous teaching experience
- Excellent communication skills

The Spring semester starts on January 24 and ends on May 21.

**APPLICATION PROCEDURE:**
Please email your application to careersdubai@rit.edu and state in the email subject the course you can teach and include the following items in your application:
- Resume or curriculum vitae
- Contact information
• Cover letter detailing your technical/professional, teaching, and scholarship qualifications and achievements
• Teaching philosophy statement
• Names, addresses and phone numbers of three references

Applications review will begin immediately and continue until a candidate is found. Only shortlisted candidates will be contacted. For more information please visit RIT Dubai website at www.dubai.rit.edu.

Additional Information

RIT Dubai a branch campus of the Rochester Institute of Technology in Dubai, United Arab Emirates. It was established in June 2008 to offer RIT degrees and curriculum in Dubai. Currently it offers bachelor and master’s degree programs in engineering, business, networking and leadership.

THE UNIVERSITY: RIT is a multifaceted university located in Rochester, New York. The university offers more than 200 options in its professional career programs and delivers courses on-campus, online and in numerous international locations. The university enrolls more than 18,000 students representing all 50 states and more than 100 countries.