

مواصفات خريج برنامج هندسة الالكترونيات والاتصالات الكهربائية (نهائي)

The Electronics and Electrical Communications Engineering program aims for preparing distinguished and capable graduates with skills of scientific research, and development, which satisfies labor market requirements at the local and international levels while keep framework of societal and ethical values.

The graduate of Electronics and Electrical Communications Engineering program will be able to:

1. Master a wide spectrum of engineering knowledge and specialized skills and can apply acquired knowledge using theories and abstract thinking in real life situations.
2. Apply analytic critical and systemic thinking to identify, diagnose and solve engineering problems with a wide range of complexity and variation.
3. Behave professionally and adhere to engineering ethics and standards.
4. Work in and lead a heterogeneous team of professionals from different engineering specialties and assume responsibility for own and team performance.
5. Recognize his/her role in promoting the engineering field and contribute in the development of the profession and the community.
6. Value the importance of the environment, both physical and natural, and work to promote sustainability principles.
7. Use techniques, skills and modern engineering tools necessary for engineering practice.
8. Assume full responsibility for own learning and self-development, engage in lifelong learning and demonstrate the capacity to engage in post- graduate and research studies.
9. Communicate effectively using different modes, tools and languages with various audiences; to deal with academic/professional challenges in a critical and creative manner.
10. Demonstrate leadership qualities, business administration and entrepreneurial skills.
11. Understand and adopt the artificial intelligence technologies in design, management, and maintenance networks, wireless and mobile communications, antennas, microwave systems, optical communication and image processing systems.

12. Apply the principles of mathematical and engineering sciences to identify, formulate, and solve real electronics and electrical communication engineering problems in a systematic scientific thinking with a wide range of complexity and variation.
13. Manage projects related to electrical communication systems in wide range of applications subjected to industrial, economic, environmental, and social developments.
14. Implement and integrate the new technologies of electronic and electrical communication systems for emerging engineering applications.