

Overview

The Faculty of Engineering was established as a result of the deep belief of the University administration in the significance of the engineering sector, with its different specializations, in advancing development and providing the local and regional labor markets with highly qualified engineers. Thus, AAU contributes to serving the community and developing the various engineering sectors to upraise the national economy and its various institutions of the private and public sectors. Establishing the Faculty of Engineering was the result of that belief which emerged since the beginning of the academic year 1991-1992. Since that date, the Faculty improved itself to comprise five academic departments that offer Bachelor Degree in Computer Engineering, Electronics and Communications Engineering, Medical Engineering, Civil Engineering, and Electrical Engineering in addition to Master Degree in Communications Engineering, Intelligent transportation Engineering and Structural Engineering. The Faculty is supervised by a qualified and trained cadre that includes members of the academic and administrative staff and technicians.

Specializations of the Faculty of Engineering for the Bachelor Degree:

- Communications & Computer Engineering.
- Medical Engineering.
- Civil Engineering.
- Electrical Engineering.

Conditions of Admission:

The student should have obtained the General Secondary Certificate or its equivalent for the following streams: (scientific and industrial education), provided that his/her general average shall not be less than 80%.

Students who passed the comprehensive exam of community colleges diploma in specializations that are equivalent to the Faculty specializations are accepted in the bridging program, provided that his/her average shall not be less than 70% whereby the courses equivalency will be carried out in accordance with the prevailing instructions at the time.

Specializations of the Faculty of Engineering for the Master Degree:

- Communications Engineering.
- Intelligent Transportation Engineering.
- Structural Engineering.

Faculty Members:

The academic staff at the Faculty comprises an elite group of faculty members who enjoy a high level of theoretical and practical experience and who are distinguished for their achievements in their fields of specialization. The faculty members are also keen on utilizing their experiences by using the supportive teaching aids such as teaching halls and laboratories equipped with the latest devices, systems and technologies.

Language of Instruction:

The English language is the main language used in teaching all specializations.

Fields of Recruitment:

Computer engineering:

- Network Engineer.
- Infrastructure Engineer.
- Maintenance Engineer.
- Project Engineer.
- Computer equipment sales Engineer.
- Cellular communications Engineer.
- Optical communications and Microwave Engineer.
- Communication networks design and analysis Engineer.
- Electronic communication devices applications Engineer.
- Technical support Engineer.
- Systems Engineer.
- Network security Engineer.
- Technical support Engineer.

Medical Engineering:

- Design and development of medical devices Engineer.
- Maintenance of medical devices Engineer.
- Hospital planning Engineer.
- Clinical project management Engineer.
- Medical quality and safety Engineer.
- Medical sales Engineer.

Civil Engineering:

- Structural Engineer.
- Geotechnical and foundation Engineer.
- Bridge Engineer.
- Surveying Engineer.
- Infrastructure Engineer.
- Hydraulics and sanitation Engineer.
- Steel structure Engineer.
- Earthquake Engineer.
- Pavement Engineer.
- Pavement maintenance and rehabilitation Engineer.
- Construction project management Engineer.

Electrical engineering:

- Electrical Engineer (distribution).
- Electrical Engineer (generation and transmission).
- Renewable energy Engineer.
- Electrical equipment sales Engineer.
- Electrical equipment maintenance Engineer.

Laboratories

Computer Engineering labs:

- Object oriented programming lab.
- Digital logic circuits lab.
- Computer architecture and organization lab.
- Microprocessors lab.
- Embedded systems lab.
- Computer networks lab.

Electronics and Communications Engineering labs:

- Electronics lab.
- Digital electronics lab.
- Analog communications lab.
- Digital communications lab.

Medical Engineering labs:

- Medical instrumentation lab.
- Biomechanics and rehabilitation lab .
- Medical sensors and biotelemetry lab.
- Simulation lab for Medical Engineering.

Civil Engineering labs:

- Fluid mechanics and hydraulics lab.
- Environmental and sanitary engineering lab.
- Surveying lab.
- Pavement design lab.
- Geotechnical engineering lab.
- Concrete technology lab.
- Traffic and transportation engineering lab.

Electrical Engineering labs:

- Electrical circuits lab.
- Power electronics lab.
- Electrical machines lab.
- Electrical power systems lab.
- Control systems lab.
- Design of lighting and electrical installations lab.
- Renewable energy lab.

Distribution of the Study Plan as Follows:

Computer Engineering	(160) CH
University requirements	(24) CH
Faculty requirements	(37) CH
Major requirements	(99) CH

Electronics & Communications Engineering	(160) CH
University requirements	(24) CH
Faculty requirements	(37) CH
Major requirements	(99) CH

Medical Engineering	(160) CH
University requirements	(24) CH
Faculty requirements	(37) CH
Major requirements	(99) CH

Civil Engineering	(160) CH
University requirements	(24) CH
Faculty requirements	(37) CH
Major requirements	(99) CH

Electrical Engineering	(160) CH
University requirements	(24) CH
Faculty requirements	(37) CH
Major requirements	(99) CH

