

# **THE IBY AND ALADAR FLEISCHMAN FACULTY OF ENGINEERING**

- 0512 Electrical and Electronic Engineering (sm)
- 0512-0368 Electrical and Electronic Engineering and  
Computer Science (Computer and Software  
Engineering Program)
- 0512-0321 Dual-degree Program in Electrical and  
Electronic Engineering and Physics
- 0542 Mechanical Engineering (sm)
- 0555 Bio-Medical Engineering (sm)
- 0573 Industrial Engineering and Management (sm)
- 0581 Combined program in Materials Science and  
Engineering and Chemistry

Courses of instruction toward the B.Sc. degree in Engineering are based on the semester credit system. The average completion time of the program is four years.

All undergraduate courses in the Faculty are given in Hebrew.

Courses of the first four semesters concentrate on the acquisition of the basic tools of mathematics, general studies in the exact sciences, and the fundamentals of engineering.

In the fifth and sixth semesters, students take basic engineering courses relevant to their specific engineering discipline. The seventh and eighth semesters are devoted to expanding and advancing professional knowledge, pursuing in-depth specialization, and planning projects in the student's fields of specialization.

Graduates of foreign high schools must have successfully completed one pre-academic year of the Mechina in the exact sciences program or one academic year at a university where the program included at least one advanced mathematics course as well as courses in exact sciences.

Applicants holding the British GCE must have passed A-level exams in at least two subjects in mathematics and the exact sciences.

Applicants holding the Israeli Matriculation (Bagrut) must read the Hebrew information booklet.

Candidates with previous academic studies that include high level courses in mathematics and physics may apply for admittance to an advanced year at the Faculty of Engineering provided they have a satisfactory study record and their minimum grade point average during at least one full year of study and their cumulative grade average is 80.

Applicants whose matriculation (or equivalent) grades do not include Physics at a sufficient level (as specified next) will be required to pass a classification exam in Physics. Specifically:

1. Applicants to the program in Electrical Engineering and the program in Electrical Engineering and Computer Sciences who did not obtain **a grade of at least 70** in 5 units of physics will be accepted conditioned on successfully passing the classification exam in Physics with **a grade of at least 75**, until the beginning of the academic year.
2. Applicants to the dual program of Electrical Engineering and Physics who did not obtain a **grade of at least 75** in 5 units of physics will be accepted conditioned on successfully passing the classification exam in Physics with **a grade of at least 85**, until the beginning of the academic year. This requirement can also be replaced by obtaining a grade of at least 80 in the courses “Classical Physics 1” and “Classical Physics 2”, given at Tel Aviv University, or by participating in the International Physics Olympics (IPhO) or the Asian Physics Olympics (APhO).
3. Applicants to the combined program in Materials Science and Engineering and Chemistry who did not obtain **a grade of at least 70** in 5 units of physics will be accepted conditioned on successfully passing the classification exam in Physics with **a grade of at least 70**, until the beginning of the academic year.
4. Applicants to the programs for Mechanical Engineering, Industrial and Management

Engineering and Bio-Medical Engineering, who did not obtain **a grade of at least 70** in 5 units of physics will be accepted conditioned on successfully passing the classification exam in Physics with **a grade of at least 70, until the end of the first semester.**

will be accepted conditioned on successfully passing the classification exam in Physics with **a grade of at least 70.** , until the beginning of the academic year.

The Admissions Committee will consider only candidates who submit the results of their matriculation and a record of the final Mechina (for newcomers only) grades by the end of July 2015.

When applying for admission, candidates may list on their application forms only one additional alternative to their first choice and should stipulate if their additional choice is from another faculty.

Applicants must take the Psychometric Entrance Examination by March/April 2015 (or by July 2015, in Spanish). Students studying in the Mechina Program for newcomers may take the exam by July 2015.