DIPLOMA SUPPLEMENT

Higher Education System in Israel

Degrees

Higher education in Israel is a three-tiered system offering Bachelor's, Master's, and Doctoral degree programs. Programs granting bachelor's degrees (e.g., BA, BSc, BSN, BSW) usually last three or four years. Completion of this first degree qualifies students for admission to subsequent degree programs. Master's degree programs generally last two years and offer a thesis or non-thesis track. Students who complete a master's degree with a research track are eligible for admission to Doctorate programs. Each university determines additional admissions requirements. Doctorate programs generally last four to six years and are offered in various disciplines.

Access to Higher Education

Israeli institutes of higher education generally require a matriculation diploma and a standardized psychometric examination. The exact requirements vary depending on the institution and field of study. Programs may have additional requirements such as entrance interviews, examinations, or artistic portfolios. Admission requirements for all programs are determined on a competitive basis by the institution and are approved by Israel's Council for Higher Education (CHE).

Types of Higher Education Institutions

Israel has 61 academic institutions: nine universities (including the Open University) and 31 academic colleges that award Bachelor's and Master's degrees. Currently, only research universities offer research PhD degrees.

Government Agencies

The Council for Higher Education (CHE), established according to the Council for Higher Education Act 1958, is the regulatory body responsible for the academic aspects of all institutions of higher education in Israel. According to the Council for Higher Education Act, higher education institutions are accredited by the Quality Assessment Division of the CHE at the study program level in universities and colleges.

Ruppin Academic Center

With 5000 students, Ruppin Academic Center (RAC) is one of the largest public colleges in Israel. It was established in 1949 by Israel's first Prime Minister, David Ben Gurion.

Today, RAC awards 21 undergraduate (BA, BSc, BSN, BSW) and graduate degrees (MA, MBA, MSc) in Marine Sciences, Engineering, Social and Community Sciences, Economics, and Management. RAC offers innovative study programs committed to developing knowledge and professional competencies that address Israel's most vital social and economic challenges.

Ruppin Academic Center has been consistently awarded top ratings in satisfaction surveys conducted among Israel's higher education student population.

The Ruppin Academic Center has four faculties:

The Faculty of Economics and Business Administration awards BA degrees in Economics and Accounting, Economics and Management, Business Administration, and a Global Master's in Business Administration (MBA).

The Faculty of Social and Community Sciences awards Bachelor's degrees in Behavioral Sciences (BA), Nursing Sciences (BSN), and Social Work (BSW) and Master's degrees in Immigration and Social Integration, Organizational Psychology, Clinical Psychology (with thesis)., and Clinical Psychology of Adulthood and Aging.

The Faculty of Engineering awards BSc degrees in Industrial Engineering and Management, Computer Engineering, Electrical and Electronics Engineering, Computer and Information Sciences, and MA degrees in Logistics and Global Supply Chain.

The Faculty of Marine Sciences awards BSc degrees in Marine Environmental Sciences and Marine Biotechnology, Master's degrees in Marine Resource Management and MSc degree in Marine Sciences (with thesis).

The Faculty of Marine Sciences grants a BSc in Marine and Environmental Sciences and a BSc in Marine Biotechnology; it is the only Israeli institute to grant these degrees. The Faculty also offers two graduate programs: an MSc in Marine Sciences with athesis and an MA in Marine Resource Management.

In addition to its educational and research activities, the Faculty of Marine Sciences strives to promote awareness throughout Israeli society regarding the Mediterranean Sea's importance for the well-being of those living along its shores and its role as a food source, an economic resource, the main trade route for imports and exports, an asset with research and diplomatic potential, a nature reserve, and a major recreational site for residents and tourists.

Undergraduates (BSc) in Marine Biotechnology – Profile

Undergraduates of the Department of Marine Biotechnology will be proficient in all aspects of Biotechnology, specializing in marine Biotechnology. Students acquire proficiency in the areas listed below. A combination of theoretical knowledge as well as practical and industrial training is essential to ensure graduates are prepared for their career in the fields of biotechnology.

Students will gain **theoretical knowledge** of:

- Bioinformatics and experimental genomics
- Biochemistry and molecular biology.
- Molecular and population genetics.
- Laboratory experiments and Work in the field.
- Advanced data analysis

During the three years of undergraduate studies, students will acquire **laboratory skills** giving them:

- broad experience in laboratory work, including basic chemistry, microbiology, molecular biology, and practical genomics;
- experience in conducting independent research programs that combine theory and experimentation;
- competence in analyzing large data sets and performing deep statistical analyses;
- training in creative thinking skills and a set of tools for designing research programs;
- The ability to read, analyze and write scientific publications.

Students gain the significant theoretical and practical maritime experience required for **oceanographic fieldwork.** This experience includes:

- earning skipper licenses for yachts of various sizes;
- becoming professionally certified in scientific diving;
- Learning about, helping implement, and performing research at underwater experimental stations at various depths.