BS"D

The Jerusalem College of Technology

Application Guide

Bachelor's and Master's Degrees

More than 10,000 Graduates

JCT graduates are in high demand. They hold key positions in Israel's high-tech industry as well as in business, science and health sectors.

Outstanding Research Centers

Many of our faculty members are engaged in advanced research, a fact that adds to the quality of teaching and constitutes a meaningful contribution to Israel's economy and society.

LevTech Entrepreneurship Center

A unique acceleration program for students to develop entrepreneurial skills to prepare for successful integration into industry and the advanced workplace The LevTech Lab offers lectures, a pre-acceleration lab program, a workspace hub for projects with industry mentors, investors, acceleration program managers, and special programs such as a joint course with IBM. All information may be found at levtech.jct.ac.il and on Facebook.

Hackathons

The LevTech Lab hosts an annual technology marathon for both men and women (separately) to technological challenges presented by companies and social service organizations. For 48 intensive hours, students split up into small groups to develop creative solutions. They then present their tech solutions to a panel of judges from industry. The challenges come from the largest companies and organizations on the market, such as Cisco, Intel, IBM, Rafael, ILAN Hospital, the Shalva Center, the Melabev Association, and more.

Social Action and Community Involvement

The Heart of the Community project promotes the rights of the disabled in conjunction with social organizations such as Young Academie, Hevruta, Young Projects and more.

Excellence scholarships and financial aid

Many scholarships are availableto help students finance their studies and learn in the Beit Midrash, as well as scholarships for excellence in research. The first year of study is free for those who have completed military service or a year of national service.

A high-quality educational environment with first-rate databases and libraries

The educational environment offers cutting-edge labs, innovative classrooms, and libraries, offering students access to information through books, professional journals, periodicals and current digital data. through books, periodicals, and current digital data.

Job Placement and Career Management Center - 93 Percent Success Rate

Support from day one, identifying relevant job openings during their studies and acquiring work experience. The Center's services include professional mentors, career counseling, internships with leading companies, job fairs, employment and job interview preparation workshops and more.

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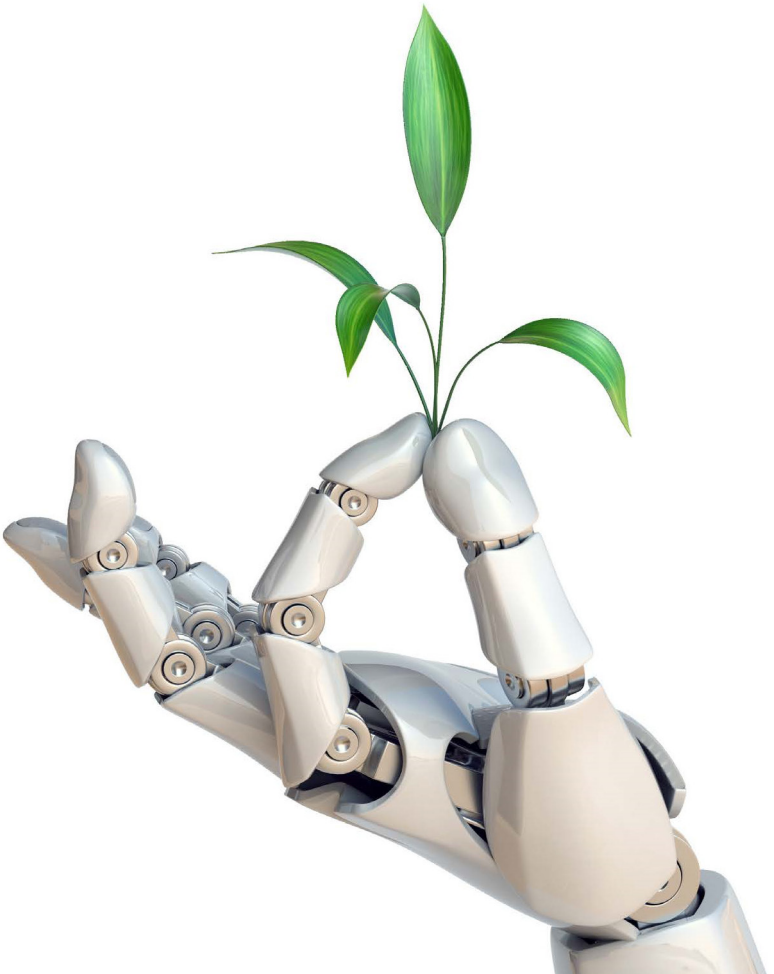
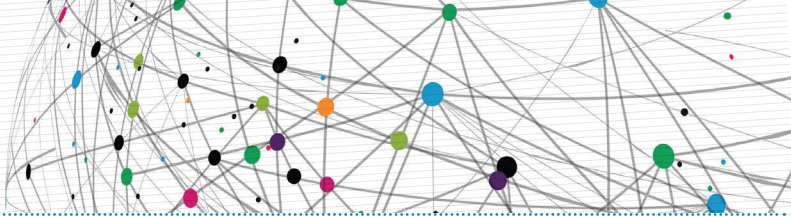


The Jerusalem College of Technology

A Torani Academic Center Specializing in Engineering, Science, and Technology: Over 10,000 Graduates and more than 50 Years of Experience Providing Academic Excellence



JCT uniquely incorporates academic and applied studies for Bachelor's and Master's degrees with Jewish studies in a Torani atmosphere. **The Beit Midrash and Jewish learning enrich students with Torah values and a sense of mission, enabling them to operate in the real world while inspired by the Torah as a living tradition.**

We educate our students to assume public responsibility and make an impact professionally, socially, and interpersonally, and significantly secure respect for Torah within Israeli society based on a new, comprehensive view of the scientific and academic worlds and all areas of life.

Throughout its 50 or so years of university-level academic and Torah teaching, the Lev Academic Center has expanded and founded campuses designed for a variety of student bodies. **Men and women study on different campuses. All campuses offer the identical degrees and academic curricula.**

Lev Campus: Located in Jerusalem, for men; incorporates Torani learning in a Yeshiva G'voha format. This campus also hosts the Naveh Program - academic studies for men with a yeshiva background.
Tal Campus: Located in Jerusalem, for graduates of ulpanot and religious high schools; incorporates Torani learning at its Midrasha.
MAHAR Tal-Tvuna: A Haredi academic center for women; incorporates Bachelor's studies with Jewish learning in a seminary; for graduates of Haredi schools.
Lustig Campus: Located in Ramat Gan for graduates of Beit Yaakov; incorporate seminary learning.
MIVHAR: In conjunction with MIVHAR College in Bnai Brak, the program offers an undergraduate degree in computer sciences for men and nursing for women. **There are 3 leading faculties of academic study:**

- **The Faculty of Engineering and Computer Sciences**
- **The Faculty of Management**
- **The Faculty of Healthcare and Life Sciences**

Unique research and entrepreneurial centers which host research, develop connections with and contribute to the world of industry and high-tech while staying fully current with scientific and technological innovations. The contribution of these centers has been significant, including:

A research center for **wireless communications**, an adaptive **nano-optic** research center, a center for **electro-optical** measurements and thin layer analysis, a center for **mathematical models** of physical processes and their applications, the Joseph Research Center for **Medical Optics**, a center for **immune system disorders**, the Ira Kuken Center for **Medical Image Processing**, an optics center for **photo-voltaic solar energy**, a **virtual reality** simulation teaching and research lab, a research center for **joint decision making**, a research lab for **flexible calculation, the education, math, and Judaism chair**, the **Mark Schuman Entrepreneurial Center**, and the **Entrepreneur at Heart** program that supports **the development of new projects** among outstanding students.

Graduates play a central role in the development of high-tech industries in the State of Israel and the world over, and work in senior key positions in the most influential and advanced companies on the market.

Lev Academic Center plays a central role in raising the scientific, technological, and industrial level of the State of Israel. During its years of academic and Torani activities, new and innovative tracks have opened and research and entrepreneurial centers have been founded.

As preparation for a global world, the academic course load includes many varied courses and projects, as well as an academic English course to allow Lev students and graduates to integrate into leading companies in Israel and abroad. This class is in addition to the university exemption level English language proficiency courses.

The Lev Academic Center

A Torani Academic Center for Engineering, Science, and Technology

The Faculty of Engineering and Computer Sciences

Engineering graduates are entitled to register in the Israel Engineers and Architects Registry.

Undergraduate Degree | Bachelor of Science B.Sc.

Physics / Electro Optical Engineering
Electrical and Electronic Engineering
Industrial Engineering and Management
Communications Systems Engineering
Software Engineering
Computer Sciences

Graduate Degree | Master of Science M.Sc.*

Physics / Electro-Optical Engineering

The Faculty of Healthcare and Life Sciences

Undergraduate Degree

Bioinformatics | **Bachelor of Science B.Sc.**
Nursing | **Bachelor of Science BSN**

Graduate Degree MSN + NP*

MSN in Nursing

The Faculty of Management

Undergraduate Degree | Bachelor of Science Bachelor of Arts BA

Accounting and Data Systems
Business Administration

Graduate Degree | Master of Business Administration MBA

Business Administration

Basic Studies Departments

Mathematics Department
English Department

* The degree is contingent on final approval by the Council for Higher Education.

The Faculty of Engineering and Computer Sciences

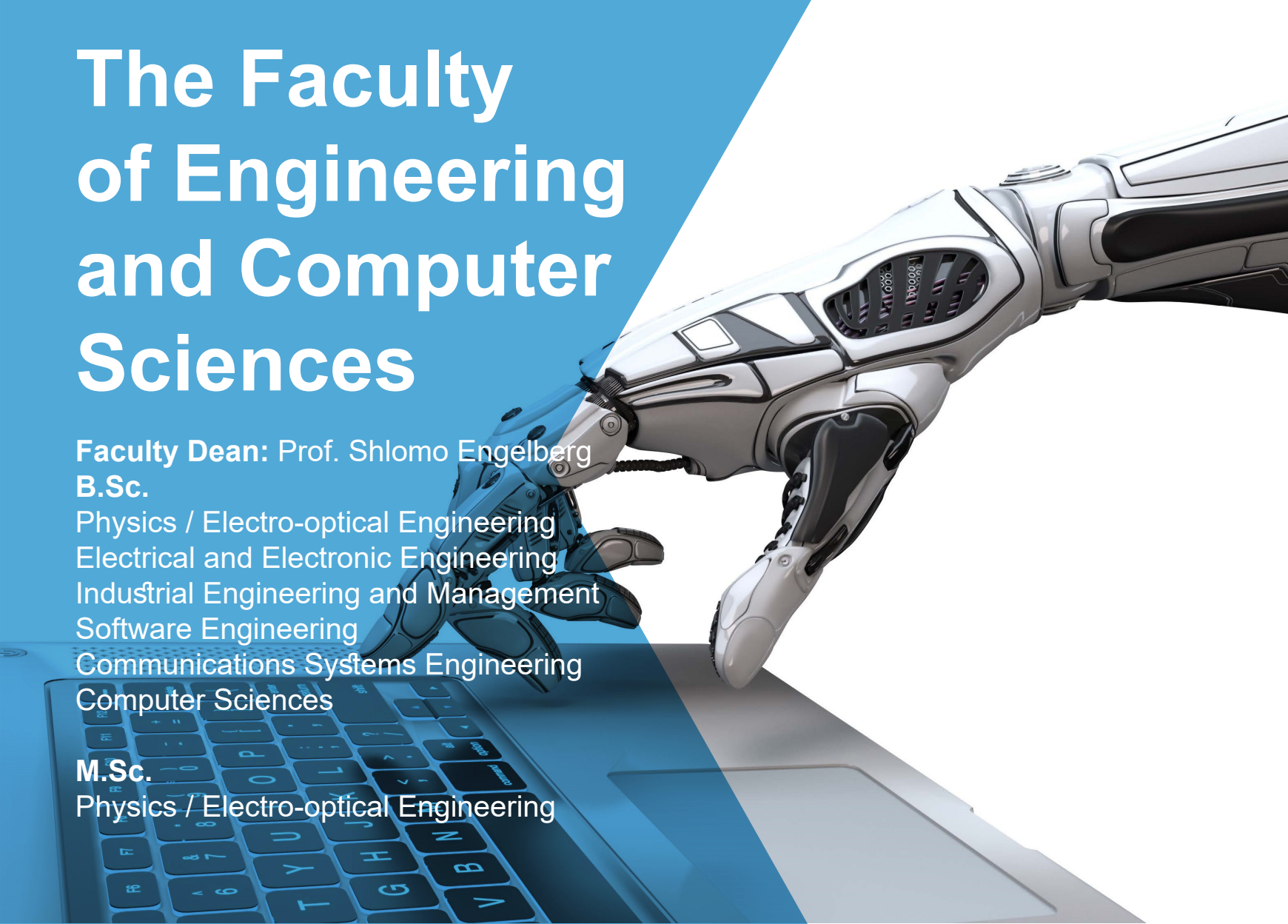
Faculty Dean: Prof. Shlomo Engelberg

B.Sc.

Physics / Electro-optical Engineering
Electrical and Electronic Engineering
Industrial Engineering and Management
Software Engineering
Communications Systems Engineering
Computer Sciences

M.Sc.

Physics / Electro-optical Engineering



The Physics / Electro-optical Engineering Department

Lev Campus

The degree: Bachelor of Science - B.Sc. | Graduates are entitled to be listed in the Israel Engineers and Architects Registry | **Department Chair:** Prof. Yoel Arieli

The Physics / Electro-optical Engineering Department **is the flagship** of the Lev Academic Center. Recent years have seen accelerated technological development the world over and a growing demand for graduates of applied physics programs in general, and electro-optical engineering in particular. Graduates must have an in-depth technological and scientific background to allow them to engage in innovative R&D and advanced projects in the rapidly changing world of high-tech. Electro optical engineering applications are everywhere, both in civilian life and in the military sphere: the communications industry, aerospace, medicine, energy, culture and entertainment, and more.

The objective of studies in the department is to train highly knowledgeable and outstanding engineers and R&D personnel who will successfully integrate into industry. Those who wish to do so, will be able to continue their studies towards advanced degrees at the Lev Academic Center or at another university.

Over the four-year course of study in the Physics / Electro-optical Engineering Department, students acquire theoretical and practical knowledge of the fundamental subject in classical and modern physics, optics, mathematics, computers, and electronics. The department is unique in character and allows students to develop two approaches important to engineers: **the integrative and the intuitive**. In addition, students acquire other education and depth in unique courses in one of two specialization tracks.

- **Optronics**
- **Computers**

During their academic studies, all students in the department are required to maintain an annual academic average of 75% and above to be able to continue to the next year of study. In the second semester of the third year and during all of the fourth year, students work on their final projects to provide them with practical R&D skills. While executing their projects, students gain hands-on knowledge of the different aspects of the courses they studied and must face the many challenges that all engineers encounter in their day-to-day work.

The department's academic faculty members engage in research in many fields of applied physics, such as micro-optics, medical instruments, the processing of optic and medical data, optic communications, photon crystals and solar cells, lasers, nanotechnology, aerospace optics, and remote sensing. Furthermore, they consult for high-tech industries in many fields and conduct joint research with partners at prestigious academic institutions abroad, such as UNIVE, MIT, and UCSD.

Department graduates earn a B.Sc. and are entitled to be listed in the Israel Engineers and Architects Registry. Academic studies in the department allow graduates to continue studying for graduate degrees and doctorates at any university. They may also continue to do their graduate studies at Lev Academic Center. Detailed information about the curriculum and the entrance requirements may be found in this booklet in the section on the M.Sc. degree in Physics / Electro-optical Engineering and in the section on the school's MBA program.

You may contact the department office:

By phone: 02-675-1131 | **fax:** 02-675-1045 | or **email** physics@jct.ac.il

Curriculum

The curriculum in the Physics / Electro-optical Engineering Department consists of core courses, which are mandatory for all students in the department. During the second semester of the first year, students may pick their electives.

The opening of a course cluster is contingent on the enrolment of a minimum number of students.

The core courses of both clusters:

Mathematics and Computers

- Calculus 1 and 2
- Linear Algebra I and II
- Partial Differential Equations
- Introduction to Computer Science
- Probability and Statistics for Engineers
- The Fourier Theory in Optics
- Computational Mathematics
- Computerized Image Processing

Physics and Chemistry

- General Physics I (Mechanics)
- General Physics II (Electricity and Magnetism)
- General Physics III (Modern Physics)
- Introduction to Chemistry for Engineers
- Analytical Mechanics
- Electromagnetic Fields
- Thermodynamics
- Statistical Mechanics
- Quantum Theory I
- Solid State Physics I
- Physics Lab

Electronics

- Electrical and Electronic Engineering
- Analog and Digital Electronics
- General Electronics Lab
- Operational Amplifiers and Electronic Measurements

General Engineering

- Integrated Systems Engineering
- Economics for Engineers
- Linear Systems
- Signal Analysis and Processing

Electro-optics

- Introduction to Optical Engineering
- Geometrical Optics I
- Optical Equipment
- Physical Optics
- Applications of Physical Optics
- Optical Light Sensors
- Light Sources and Lasers
- Optics Lab
- Electro-optics Lab
- Thermal Imaging
- Seminar in Electro-optics

Specialty courses in the optronics track:

Coordinator: Prog. Yoel Arieli

In the specialty optronics courses, students acquire the knowledge needed to plan optical and electro-optical systems, electronic and optical communications, signals processing, and photographic and imaging apparatus.

These studies may be applied in Israeli high-tech industries in the defense sector, communications, and energy, and prepare our graduate to continue their studies and research in every field of practical physics.

Physics and Chemistry

- Electronic and Optical Communication
- Advanced Optical Planning
- Solid-state Optics
- Electromagnetic Waves
- Medical Imaging Systems
- Quantum Theory II
- Solid-state Physics II
- Optics Workshop

Speciality Courses in the Computers Track:

Coordinator: Dr. Dan Buchnik

The program provides students with both the theoretical knowledge of the computer sciences and the practical programming skills needed in high-tech companies that combine optical engineering with software and algorithm development - work that demands extensive knowledge of physics and math. Our graduates will be able to work in computer companies, perform programming work in advanced languages - the basis for all computer languages in the market - and continue to study and do research in every area of applied physics.

Course List

- Discrete Mathematics
- Data Structures and Programming I
- Data Structures II
- Computer Structures
- Workshop in C++
- Algorithm Analysis

Department Structure

Course of Study: 4 Years

Students must accrue **155** credits, consisting of mandatory courses, electives, a final project, and Jewish studies (no credits).

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B.Sc. Completion for Associate Engineers - p. 50

The Pre-Academic and Preparatory Studies Unit

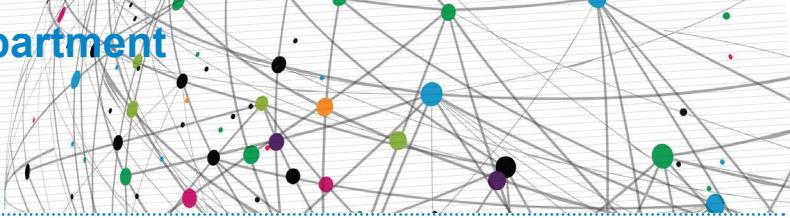
- All new students must take and pass a preliminary class called **Mathematics for Engineering and Technology** before starting their academic studies. Students with a grade of 95% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may receive an exemption from the course provided they score at least 80% on the entrance exam, which is given only once before the end of the official registration period.
- Students who did not score at least 60% on the 5-unit Physics Bagrut exam must take a preliminary Physics class before starting their academic studies.
- Students who did not score at least 60% on the 3-unit Computers Bagrut exam must take a preliminary class called **Introduction to Computers** before starting their academic studies.

Electrical and Electronic Engineering Department

Lev Campus

The degree: Bachelor of Science | Graduates are entitled to be listed in the Israel Engineers and Architects Registry.

Department Chair: Prof. Avi Caspi



The objective of the Electrical and Electronic Engineering Department is to train students to integrate in knowledge-intensive industries in the State of Israel, in the technological departments of the defense establishment, and to enable them to go on to advanced degrees in a Torani environment allowing for the combination of Jewish learning with highly advanced engineering studies.

Over the four-year course of study in the **Electrical and Electronic Engineering Department,** students acquire theoretical and practical knowledge of the fundamental topics of electrical and electronic engineering. Furthermore, the program offers theoretical and practical specializations in analog electronics, communications, radio waves, supply system engineering, high-tension, computer basics, and digital techniques. All of this is done with the judicious use of advanced planning methods incorporating advanced software tools. Before completing their studies, all students must execute a final project, advised by a department faculty member or in conjunction with industry.

In the third year, students select a specialization track in **electrical and electronic engineering** or a specialization track in **supply systems engineering**.

The specialization track in **electrical and electronic engineering** provides graduates with enhanced knowledge of various topics in electronics, including computer architecture, radio waves and antennae, image processing systems, and advanced logic.

The specialization track in **power systems engineering** provides graduates with enhanced knowledge in this field, also known as strong flow or high voltage. The power systems engineering track includes the courses and labs required to be listed in the Israel Engineers and Architects Registry--Electricity Section. Registration in the Israel Engineers and Architects Registry--Electricity Section is a mandatory prerequisite for eligibility in receiving an engineering license to work in electricity.

Members of the department's academic faculty engage in advanced research in several fields, including signals processing, image analysis, visual systems, biomedical systems, radio frequency propagation, advanced antennae, and more. Faculty members are in touch with universities and high-tech industries in Israel and around the world, the Israel Electric Corporation, and the technological departments of the IDF, and also conduct joint research with these entities.

Our graduates are eligible for a B.Sc. in engineering. This degree enables students to continue their studies for advanced degrees in electrical and electronic engineering and related fields at any university.

You may contact the department office:

By phone: 02-675-1257 | **fax:** 02-675-1275 | or **email:** electronics@jct.ac.il

Curriculum

Mathematics

- Calculus I and II
- Linear Algebra I and II
- Differential Equations
- Complex Functions
- Probability
- Statistics for Engineers

Computers

- Introduction to Computer Science
- Advanced Programming in C++
- Introduction to Computer Structure
- Computer Architecture
- Computer Architecture Lab
- Micro-Computers: Structure and Control Programming
- The Computer's Electronic Systems

Physics and Chemistry

- Physics I (Mechanics)
- Physics II (Electricity, Magnetism, and Waves)
- Modern Physics
- Introduction to General Chemistry

Electronics and Electrical Engineering

- Logic and Digital Systems
- Electrical Engineering I and II
- Electromagnetic Fields
- General Electronics
- Signals and Systems
- Radio Frequency Propagation and Antennae
- Advanced Analog Electronics
- Nanotechnology
- Advanced Digital Design
- Seminar in Electronics
- Broadcasting and Reception Techniques
- Semiconductors
- Economics for Engineers
- Random Signals and Noise
- Optical Electronics
- Electronic Measurements
- Digital Signal Processing
- Energy Conversion
- Linear and Control Systems
- Electronic Technology and Components
- Video Systems
- Basics of Communications
- Algorithms, Encryption, and Verilog Realization

Track in Power Systems Engineering

- Power Systems I and II
- Electrical Propulsion
- Power Electronics
- High- and Low-Voltage Systems
- Energy Conversion Lab
- Power Electronics Lab
- Electricity Law and Regulations
- Solar and Alternative Energy Systems

Mandatory Labs

- Computerized Digital Design Lab
- Electronics and Electricity Lab
- General Electronics Lab B

Elective Labs

Students must take at least two of the following elective courses (excluding associate engineers completing their undergraduate degree):

- Numbers Processing of Signals Lab
- Analog and Digital Communications Lab
- Computer Architecture Lab
- Radio Frequency Propagation and Antennae Lab
- Computerized Image Processing

Department Structure

Course of study: 4 Years

Students must accrue 155 credits, consisting of mandatory courses, electives, a final project, and Jewish studies (no credits).

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B.Sc. Completion for Associate Engineers - p. 50

The Pre-Academic and Preparatory Studies Unit

- All new students must study and pass the preliminary course **Mathematics for Engineering and Technology**, which is given before the start of academic studies. Students with a grade of 95% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may receive an exemption from the course provided they score at least 80% on the entrance exam, which is given only once before the end of the official registration period.
- Students who did not score at least 60% on the 5-unit Physics Bagrut exam must take a preliminary Physics class before starting their academic studies.
- Students who did not score at least 60% on the 3-unit Computers Bagrut exam must take a preliminary class called **Introduction to Computers** before starting their academic studies.

Power Systems Engineering: Diploma Studies for Holders of a B.Sc. in Electronics

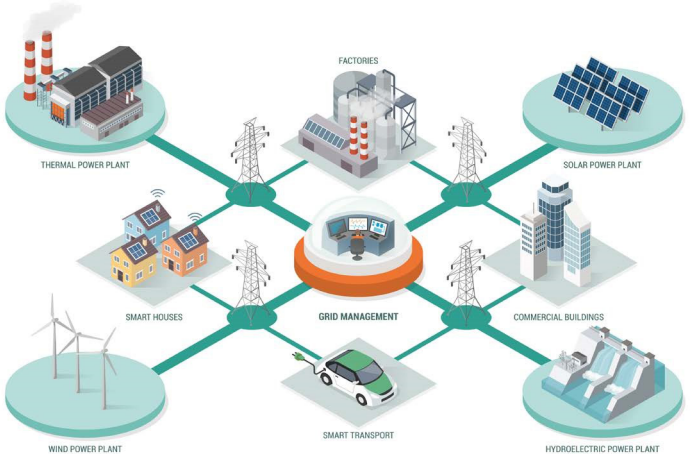
Lev Campus

Program Coordinator: Dr. Dan Weinstock

The track in **Power Systems Engineering**, at times called the heavy current or high-voltage track, deals with all aspects of classical and modern electricity, including power systems in the full range of voltages and power sources, propulsion systems and electrical transportation, renewable energy, and more.

The field of power systems engineering is currently experiencing a large dearth of engineers. Graduates of this track will be able to find work in many parts of the public sector (the Israel Electric Corporation, government ministries), and the private sector (planning bureaus, entrepreneurial companies, and industrial plants) as planners, project managers, etc.

The Lev Academic Center's Power Systems Engineering track is recognized by the Ministry of the Economy. Success completion of the studies allows graduates to be listed in the Israel Engineers and Architects Registry--Electricity Section. (Therefore, upon graduation, graduates are eligible for a Chief Electrician's License from the Ministry of the Economy. Later on in their careers, they will be eligible for higher licenses as well, including Electrician-Engineer, Supervisory Electrician 3, etc.)



Program Structure

Four semesters spread over two years

Curriculum

Preparatory Courses

- Energy Conversion
- General Electronics
- Semiconductors

First Year

- Power Systems I and II
- Power Electronics
- Electrical Propulsion
- High- and Low-Voltage Apparatus

Second Year

- Energy Conversion Lab
- High- and Low-Voltage Systems
- Power Electronics Lab
- Final Project in Power Systems Engineering

Electives

- Electricity Law and Regulations
- Photovoltaic System Design

Admissions Requirements

- Graduates with a B.Sc. in Electrical and Electronic Engineering with an average grade of at least 70%. (The data of Candidates with an average grade of less than 70% will be considered at a special acceptance committee meeting.)
- Candidates who have not yet completed their degree but have at least 80% of the credits with an average grade of at least 70%: their acceptance is contingent on the approval of the department chair or program coordinator.
- Completing **preliminary courses:** on the basis of the decision of the department chair or program coordinator.
- Completing Jewish studies at the Beit Midrash: to be determined by the Beit Midrash's decision based on an interview with the candidate.

The Industrial Engineering and Management Department

Lev Campus | Tal | Campus Degree: Bachelor of Science (B.Sc.)

and a Data Systems Analyst Diploma | Graduates are entitled to be listed in the Israel Engineers and Architects Registry.

Department Chair: Dr. Irit Novik

Industrial Engineering and Management deals with a broad spectrum of topics geared at enhancing organizational performance, a task that covers all of an organization's components, including inventory and acquisitions management, human resources, information systems, and logistical systems. An industrial engineer and manager works in planning, improving, operating, and maintaining all aspects of varied organizational systems.

The modern, rapidly-developing economy requires constant performance improvements to keep pace with technological developments, changing market demands, and competition over contracts with other companies. The heart of the challenge lies in enhanced processes, cost savings, and optimal integration among workers, technologies, and computerized processes. Engineers are also responsible for defining, analyzing, and developing the organization's data systems. The industrial engineer and manager has a decisive impact on the organization's situation. Therefore, he is often a member of the organization's senior management.

Industrial Engineering and Management is in high demand. It is considered diverse, challenging, dynamic, and remunerative. The field covers many areas of interest. Industrial engineers and managers have an interdisciplinary knowledge base. In addition to engineering sciences, they must also have close familiarity with economics, social sciences, general science, and behavioral science and management, and is reflected in the program's comprehensive curriculum.

The department has at its disposal advanced computer labs and technological labs, including robotics and computer integrated manufacturing (CIM), system, applications, and product planning (SAP), ergonomic design, and more.

Industrial Engineering and Management and Employment

Every organization, mid- to large-sized, needs industrial engineers and managers. Many senior managers in large companies started out an industrial engineers and manager. Our department's graduates find work in leading high-tech companies, such as Intel, Motorola, Amdocs, Teva, and Cisco. In the service sector, both public and private, our graduates work for the Israel Police, intelligence institutions, banks, insurance companies, government ministries, and more, in a wide range of positions: project managers, manufacturing and logistics managers, data systems analysts, HR managers, organizational and work methods managers, cost accountants, industrial economists, and more.

The department curriculum covers four years of study. Before the third year, students will select one of the department's specializations: **project management and performance enhancement** or **information systems**.

At the Tal Campus, studies are conducted into three days a week.

Graduates are eligible for a B.Sc. and to be listed in the Israel Engineers and Architects Registry, as well as a certificate of accreditation from the Data Systems Analysts Bureau.

Graduates can also apply to study for a Master's Degree at the Lev Academic Center. Detailed information about the curriculum and the entrance requirements may be found in this booklet in the section on the Master's degrees. Students may also continue their studies for advanced degrees in various fields at any university.

You may contact the department office:

By phone: 02-675-1208 | **Fax:** 02-675-1117 | **Email:** tasia@jct.ac.il

Curriculum

Joint Courses for the 2 Specialities:

Mathematics

- Calculus I and II for Engineering 1 and 2
- Statistics for Industrial Engineering and Management
- Differential Equations
- Linear Algebra I
- Probability for Industrial Engineering and Management
- Introduction to Numerical Methods

Industrial Engineering and Management:

- Introduction to Industrial Engineering and Management
- Performance Research I and II
- Manufacturing Management I and II
- Quality Control
- Applications in Quality Assurance
- Industrial Plant Setups and Locations
- Project Management in Economic Systems
- Methods Engineering and Work Research
- Computerized Manufacturing Systems
- Events in Industrial Engineering and Management 1 and 2
- English for Industrial Engineering and Management
- Final project

Computers and Data Systems

- Introduction to Computer Sciences for Industry and Management
- Introduction to Data Systems
- Programming Software and Hardware Interfacess
- Calculation Methods for Optimization Models
- Data Structures and Algorithms
- Data Systems Analysis I
- ERP Systems
- Databases
- Simulation

Science

- Mechanics and Electricity for Industry and Management
- Industrial Physics
- Introduction to Electrical Engineering
- Materials Engineering and Manufacturing Methods

Economics, Management, and Human Resources

- Organizational Psychology
- Introduction to Management
- Business Ethics
- Ergonomic Systems and Human Factor Engineering
- Economics for Industrial Engineering and Management I and II

Specialty for project management and performance enhancement

- Supply Chains
- Project Management and Performance Enhancement in Practice
- Service Systems Engineering
- Game Theory in Industry and Management
- Business Entrepreneurship for Industrial Engineering and Management
- Project Profitability Analysis

Specialty courses for data systems specialization

- Introduction to Artificial Intelligence
- E-Commerce and Databases
- File Organization and Operating Systems
- Data Systems Analysis II
- Data Mining
- Databases and Big Data Analysis

Department Structure

Course of Study: 4 Years

At the Tal Campus, studies are conducted into three days a week.

Students must accrue **155** credits, consisting of mandatory courses, electives, and a final project.

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B.Sc. Completion for Practical Engineers - p. 50

The Pre-Academic and Preparatory Studies Unit

- All new students must study and pass the preliminary course **Mathematics for Engineering and Technology**, which is given before the start of academic studies. Students with a grade of 95% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may receive an exemption from the course provided they score at least 80% on the entrance exam, which is given only once before the end of the official registration period.

The Software Engineering, Communications Systems Engineering, and Computer Sciences Departments

Lev Campus | Tal Campus | Lustig Campus | MIVHAR | MAHAR Tal

Computer Sciences studies take place in three departments:

- **Software Engineering Department**
- **Computer Sciences Department**
- **Communications Systems Engineering Department**

The objective of the studies is to train engineers and computer specialists who will successfully integrate in industry and and academics.
The studies in all computer departments provide students with extensive theoretical knowledge as well as hands-on experience in computer sciences to allow graduates to use their expertise in industry and in studying for advanced degrees, whether at the Lev Academic Center or at any university. Detailed information may be found in this booklet in the section on the Master's degrees.

Credits for Previous Professional Study

Graduates of the telecommunications and cyber course in the IDF's Intelligence Corps may receive academic credits for the studies and training they did in the army. This is contingent on their having obtained a score of at least 80% in all courses and submitting an official transcript to the department chair. Further information is available at the Information and Registration Division.

New at the Lev Campus!

Elective courses in bioinformatics for a B.Sc.are available in the Computers Department. (Software Engineering or Computer Sciences). Students interested in bioinformatics can study the following as electives:

- Classical Genetics
- Introduction to Chemistry for Engineers
- Introduction to Bioinformatics
- Students of software engineering can do their final project with a bioinformatics orientation.

The opening of courses is contingent on the enrolment of a minimum number of students.
For further information on bioinformatics studies, see pp. 22-23.

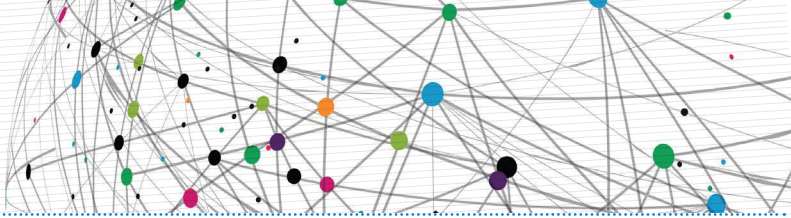
Software Engineering Department

Lev Campus | Tal Campus | Lustig Campus | MAHAR Tal

Degree: Bachelor of Science (B.Sc.)

and Data Systems Analyst Diploma (Specialization) | Graduates are entitled to be listed in the Israel Engineers and Architects Registry.

Department Chair: Dr. Reuven Gallant



In the department, students receive training in software engineering, programming, and software development, in computer communications and networks, and in microprocessors and electronics. Students acquire knowledge planning of systems construction: requirements definition, analysis, construction, testing and follow-up after delivery, maintenance, broadening systems while meeting deadlines, working responsibly, application of professional standards and economic efficiency. The engineering methods studied are the result of the wealth of their industrial experience and can provide a way to provide a way to develop future complex systems with service quality demands. In the course of studying software engineering, students may focus on one of the three following topics.

Cyber | **Artificial Intelligence & Data Science** | **Communications**

Each topic entails 26 credits. In addition to their degree, graduates will receive certification of accreditation in the field. In the second year, each of the three fields will offer an introductory course. Students may take all three introductory courses so that by the end of the second year they have a better grasp of the focus of each and can better select what interests them the most.

A. Cyber

Cyber: Cyberattacks - wars fought on the internet - is a technological field that has developed greatly in recent years. Cyberattacks are also called virtual warfare. To confront the phenomenon, experts in the field are needed to program and build sophisticated defensive measures to repel attacks using computers and programming. Many feel that cyberspace is the battlefield of the future. In recent years, nations around the world, especially the superpowers and nations in conflict, have invested billions into securing their computerized systems. Concurrently, they have also invested in their cyber-kinetic (telecommunications) capabilities to be able to compete and win in this new and threatening arena.

The topic encompasses courses in software security, communications security, encryption, and cyberattacks.

B. AI and Data Science

The computerization field is rapidly developing a new and exciting field focused on the use of computers to manage and make decisions - processes that have, until now, been entirely within the human purview, e.g. automatic cars that will drive down the roads without human input or computers that will perform a medical diagnosis in a fully automated way without the input of medical professionals. This field is growing at an unprecedented pace and growing numbers of companies are entering the fray. The field requires a great deal of expertise in using very large databases and data mining, and the knowledge to develop tools by which computers will be able to “decide” the meaning of the data and how to use it. The field is called AI - artificial intelligence - and is supported by what is called machine learning. The objective of studying the topic is to present students with the field and the tools with which they can integrate into the growing AI and machine learning field.

The courses focus on data mining, programming background, and the necessary tools, machine learning, AI and its applications, and in-depth study of the mathematics behind it all.

C. Communications

Over the last decade, the world of communications has experienced a transformation that has made the world into one global village. The rapid development of the internet and the parallel rapid development of mobile phones have generated a revolution both in interpersonal communication and in application used in computers and smartphones. These applications mostly take the form of software; there are fewer in hardware, but that too requires the appropriate knowledge of programming.

The purpose of communications studies is to acquire the tools students can use to develop software for smartphones and the internet.

The topic consists of courses in internet networks, smartphone management, the development of software for the internet environment, and the development of software for smartphones.

Department Structure

Course of study: 4 Years

Students must accrue 155 credits. Courses consist of mandatory courses, electives, a final projects, and Jewish studies (no credits).

You may contact the department office:

By phone: 02-675-1294 | **Fax:** 02-675-1046 | **Email:** compsci@jct.ac.il

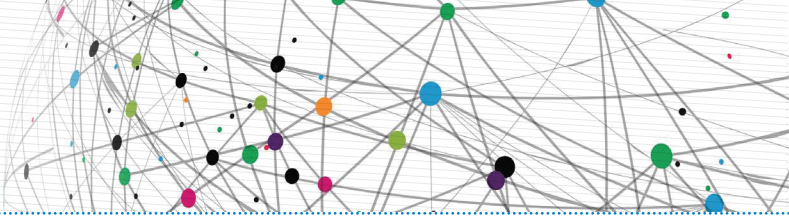
Computer Sciences Department

Lev Campus | Tal Campus | Lustig Campus | MAHAR Tal

Degree: Bachelor of Science (B.Sc.)

and a Data Systems Analyst Diploma

Department Chair: Dr. Dan Buchnik



The objective of the studies in the Computer Sciences Department is to provide students with a foundation in software, computer basics, computer structure, computer structure, operating systems, and background in hardware and computer communications. The curriculum in this department is is comparable to that of B.Sc. studies in the field in other academic institutions.

Graduates of the Computer Sciences Department can work in the field at any leading high-tech company or continue studying towards advanced degree at any institution of higher education in Israel or abroad.

In addition to the degree, graduates received a certification in data systems analysis, providing them with an advantage when seeking employment and in career advancement.

Department Structure

Course of study: 3 Years

Students must accrue 120 credits. Courses consist of mandatory courses, electives, and Jewish studies (no credits).

Communications Systems Engineering Department

Lev Campus

Degree: Bachelor of Science (B.Sc.) | **Department Chair:** Dr. Azriel Heuman

Communications is a field that has experienced a transformation not seen since the inception of computerization more than 50 years ago. The world has become a single global network in which everyone is connected to everyone else. If, two decades ago, “the global village” was a futuristic concept good for academic lectures, today it is our reality. The amazing development of the internet would not have been possible without the development of network communications technologies. And this is only the beginning of the revolution. In the future, not only will our home and office computers, mobile devices, and smartphones be online, but also many other devices, (e.g. home appliances, security cameras, cars, food and beverage vending machines, medical diagnostic equipment, and much more).

Experts in the field expect that within 5-10 years, 75% of the global workforce in high-tech industries will be working in technologies that will require knowledge of communications systems engineering.

The Lev Academic Center is one of the only institutions of higher education in Israel granting a B.Sc. in this field. The program is contingent on the enrolment of a minimum number of students. If a class does not open, registrants will integrate into the Software Engineering Department.

The purpose of the studies in the Communications Systems Engineering Department is to provide students with in-depth theoretical and practical knowledge of telephone networks, local networks, switching networks technologies, IP and VOIP technologies, internet technologies, and technologies for mobile and cellular networks.

In addition to professionalizing the field of computerized communications, the program also provides students with extensive computer sciences knowledge, so that so that graduates may find employment both in computer sciences positions and in communications positions.

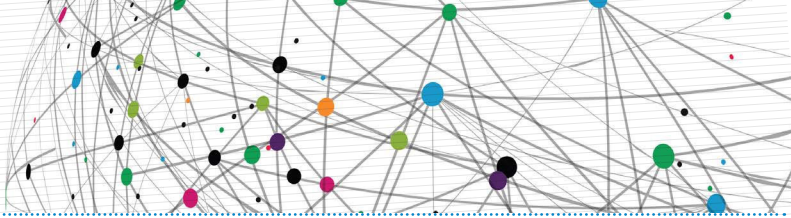
Graduates of the Communications Systems Engineering Department may continue their studies towards advanced degrees. They will also be able to find work in leading communications companies, such as Cisco, Akvarion Nortel, Rad Shunra, Motorloa, Intel, Amdocs, Comverse, etc.

Department Structure

Course of study: 4 Years

Students must accrue 155 credits. Studies consist of mandatory courses, electives, a final projects, and Jewish studies (no credits).

The Curriculum in Software Engineering, Communications Systems Engineering, and Computer Sciences



Mandatory Core Curriculum in Every Department

The course list is general. The courses studies are based on the curriculum relevant to each department.

Cross-Departmental Courses

Basic Courses

- Probability for Engineers
- Statistics for Engineers
- Calculus I and II
- Linear Algebra I and II
- Differential Equations
- Discrete Mathematics
- Mathematical Logic

Computer Sciences Principles

- Computerized Systems Analysis
- Advanced OOP
- Software Design and Developing an Individual Project
- Computability and Computing Complexity
- Introduction to Computer Science
- Data Structure
- Algorithm Analysis
- Object Oriented Programming
- Automata and Formal Languages
- C++ Workshop
- Introduction to Software Engineering
- Introduction to Communications

Hardware and Systems

- Numbers Systems
- Computer Structure
- Operating Systems

Software Engineering

- Computerized Systems Analysis
- Software Engineering

Physics and Electronics Courses in the Software Engineering Department and Communications Systems Engineering

- Physics I for Computer Engineering
- Physics II for Computer Engineering
- Analog and Digital Electronics

Additional Mandatory Courses in the Software Engineering Department

- Design of Engineering Software
- Real Time Systems Engineering
- Reactive Systems Engineering
- Windows Systems Engineering
- Internet Software Engineering
- Parallel Algorithms
- Human-Machine Interfaces
- Quality Testing and Software Testing Methods
- Project Management
- Final Project

Additional Mandatory Courses in the Software Engineering Department

- Network Management
- Digital Signal Processing
- Random Signals and Noise
- Network Queues and Simulation
- Signals and Systems
- Network Security
- Optical Communications
- Communications Engineering
- LAN and WAN Networks
- TCP-IP Networks
- Cellular Networks
- Switching Networks and Telephony Technologies
- Network Encryption and Security Methods
- Final project

Additional Mandatory Courses in the Computer Sciences Department

- Compilers and Interpreters
- Functional and Logical Programming
- Principles of Software Languages
- UNIX Systems

Electives

The department offers additional electives. Students must choose courses in this category to complete their degree requirements.

Students may choose to focus on one of these fields: Communications, AI, and Cyber. See previous pages - Software Engineering Department

Admission Requirements and Application Process - pp. 45-51

B.Sc. Completion for Associate Engineers - p. 50

The Pre-Academic and Preparatory Studies Unit

- All new students must take and pass a preliminary class called **Mathematics for Engineering and Technology** before starting their academic studies. Students with a grade of 95% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may receive an exemption from the course provided they score at least 80% on the entrance exam, which is given only once before the end of the official registration period.
- All students in the Software Engineering Department and Communications Systems Engineering must take a preliminary Physics course held before starting their academic studies. Students with a grade of 75% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may receive an exemption from the preliminary course.
- Students who did not score at least 65% on the 3-unit Computers Bagrut exam must take a preliminary class called **Introduction to Computers** before starting their academic studies.

The Faculty of Healthcare and Life Sciences

Faculty Dean: Prof. Haya Greenberger

Bachelor's Degrees

Bioinformatics B.Sc.

Nursing Department BSN

M.Sc.

Master's Degrees in Nursing and Specialist Certification in Geriatricsn

Graduate Degree

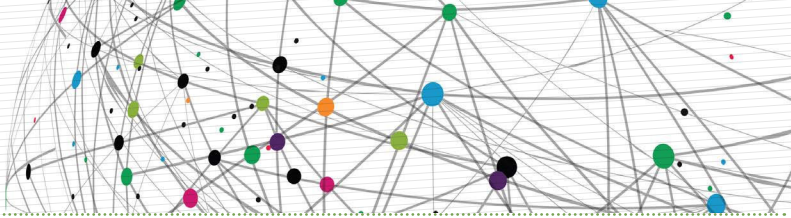
MSN + NP

Bioinformatics Department

Lev Campus | Tal Campus

Department Chair: Prof. Uziel Sandler | Department Coordinator on the Lev Campus: Dr. Uri Breitbard

Department Coordinator on the Tal Campus: Dr. Sarah Ganot



In its essence, bioinformatics combines life sciences with computer sciences, and is at the forefront of life science research because of the vast amount of information being gathered, especially about the genome, the development of current research methods, and new options for using computerized algorithms.

Since the breakthrough discovery of the structure of DNA, which dictates structures and processes of living organisms, science has gathered growing amounts of information about human and other DNA sequences. This information is the key to future medical developments, such as early detection of genetic diseases and destructive cellular changes, finding the factors that make certain people more resistant than others to various illnesses, understanding biological processes, and developing innovative and more effective medications than ever before. Still, we are talking about the accumulation of massive amounts of data. To use it optimally, we must find new ways to preserve it, organize it by patterns, study it, and sift the wheat from the chaff. This is the bioinformatics mission: to decode biological systems, process cumulative data from biology research being updated at dizzying speeds, and applied to science, medicine and industry.

A research group active at the Lev Academic Center has already reached impressive results in drug development using bioinformatics methods. This research team is responsible for the bioinformatics curriculum. The curriculum focuses on advanced genome sequencing methods, big data analysis, data mining, and computerized drug development. The diverse program consists of basic science courses in mathematics, physics, chemistry, and biology. The bioinformatics specialization demands knowledge and proficiency in modern computer programming, and hence the inclusion of advanced computer sciences courses. In addition, the curriculum includes specifically designed courses, such as familiarity with bioinformatics databases, molecular biology with emphasis on advanced sequencing methods, analysis of learning systems, statistical models in bioinformatics and systems biology, molecular modeling, logical drug planning, and specialization and command of calculation software used in the pharmaceutical industry and industry in general.

This unique B.Sc. program allows students to specialize in a cutting edge field in science and to continue their studies toward advanced academic degrees in the various sciences. Graduates of the Bioinformatics Department, a program unique to the Lev Academic Center, are very much in demand in leading academic centers in both in Israel and abroad: Weizmann Institute, Hebrew University, Bar-Ilan University, and Tel Aviv University.The early graduates of the program at the Tal Campus were hired by institutions in the United States and England. Our graduates are also hired by genome centers whose numbers in hospitals and research groups are growing.

In addition, students in the program assimilate into positions in academic and industrial research groups even before completing their degree.

The program is suitable for anyone looking to combine computer sciences with life sciences. The program is suitable to anyone interested in studying chemistry and/or biology but also finding a job in high-tech industries after receiving the B.Sc. degree and to students who want to study computer sciences while also enriching their understanding of the life sciences.

The program is similarly suitable to anyone wanting to study medicine by completing 4 years of study after attaining a B.Sc. in bioinformatics (contingent on the requirements of the particular medical school in question). For more information, see p. 24.

At the Lev Campus, the bioinformatics program is taught in the B.Sc. programs of the Software Engineering and Computer Sciences Departments Information on p. 16.

You may contact the department office:

By phone: 02-654-7244 | **fax:** 02-654-7246 | or **email:** biochem@jct.ac.il

Curriculum

Basic Courses

- Calculus I and II
- Linear Algebra I and II
- Differential Equations
- Introduction to Numerical Methods in Bioinformatics

Chemistry

- General Chemistry
- Physical Chemistry
- Organic Chemistry I and II
- Introduction to Chemical Bonds
- Biochemistry
- Biochemistry Lab

Biology

- Cell Biology
- Classical Genetics
- Molecular Biology I
- Systems Biology
- Introduction to Biology

Physics

- Physics for Bioinformatics I and II

Computer Sciences Principles

- Introduction to Computer Science
- Data Structure I and IIB
- Algorithm Analysis
- Object Oriented Programming
- Java Workshop
- C++ Workshop
- Windows Systems Engineering

Systems

- Databases in Bioinformatics
- Data Mining
- Computerized Systems Analysis
- Deep Learning

Bioinformatics

- Biostatistics I
- Biostatistics II: Statistical Model in Bioinformatics
- Introduction to Bioinformatics
- Structural Bioinformatics
- Introduction to Learning Systems
- Molecular Biology II: Advanced Sequencing Methods
- Molecular Modeling
- Learning Systems in Bioinformatics
- Mini-Project in Bioinformatics

The program offers students the option to do a final bioinformatics project as an elective. The project is generally done collaboratively with researchers at academic or industrial centers.

Department Structure

Course of study: 3 Years

The program consists of **130** credits as follows: 120 mandatory credits - 48 of them from basic courses in mathematics and computer sciences, 72 from life sciences / bioinformatics, and 10 from electives in the Computer Sciences and Life Sciences Departments.

Admission Requirements and Application Process - pp. 45-51

The Pre-Academic and Preparatory Studies Unit

- All new students must study and pass the preliminary course Mathematics for Engineering and Technology before starting their academic studies. Students with a grade of 95% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may receive an exemption from the course provided they score at least 80% on the entrance exam, which is given only once before the end of the official registration period.
- Students who did not score at least 80% on the 3-unit Computer Bagrut exam must take and get a passing grade in a preliminary course called Intro to Chemistry before starting their academic studies.
- Students who did not score at least 60% on the 3-unit Chemistry Bagrut exam must take and get a passing grade in a preliminary course called Intro to Chemistry before starting their academic studies.
- Students who do not have a grade in the 5-unit Physics Bagrut program must take a preliminary course called Physics Stage A during the Elul semester between their first and second years of study.

Pre-Med Studies

In Israel and elsewhere, academic institutions offer four-year medical programs to those with undergraduate degrees. The Lev Academic Center has been accredited by the Israel Council for Higher Education for its pre-med program as part of the bioinformatics program it offers. One of the benefits of this program is that one's medical studies are done in two stages. The first stage is the undergraduate degree; the second stage is the 4-year program to complete one's medical training. Graduates of the B.Sc. in Bioinformatics at the Lev Academic Center who take the school's pre-med courses will thus complete the first stage of an undergraduate degree in a research field where these graduates are highly sought after by academic institutions, industry, and medical centers, before going on to the second stage - another four years of study towards their MD. This makes it possible for the Lev Academic Center's target audience to study for at least the first four-year stage of medical school in a social and religious environment more suitable to them.

Program Structure

The program consists of **149** credits as follows: 120 mandatory credits from the bioinformatics program as well as preliminary courses for those who need them, 5 from electives in bioinformatics, and 24 from mandatory pre-med courses.

Curriculum

Course of study: 3 Years

Pre-Med Courses

Social Sciences

- General Psychology I and II
- Introduction to Anthropology
- Sociology

Life Sciences

- General Microbiology
- Microbiology II - Elective
- Immunology - Elective
- Physiology of Human Body Systems
- Histology - Elective
- Introduction to Human Anatomy - Elective

Research

- Final project in Bioinformatics

Nursing Department

Lev Campus | Tal Campus | Shaare Zedek | MIVHAR
The degree: Bachelor of Science in Nursing BSN
Department Chair: Dr. Haya Raz **| Department**
Coordinator Lev Campus: Binyamin Tzair

Nursing is a about giving, but it is also a fascinating profession with much variety and many career advancement options. Nursing is changing and undergoing a process whereby the authority of nurses is continuously growing, both in Israel and around the world. Nurses carry out a range of functions: improving patients' physical and mental states, preventing disease, diagnosing and treating health concerns, offering support and counseling, coordinating treatment plans, and managing the treatment team.

Nurses are the primary axis in treating and managing the medical treatment in many places: department and units in general hospitals (such as the ICU, birthing rooms, and ERs), mental health institutions, rehab centers, community clinics, family health clinics, schools, employment companies, and patients' homes.

Nurses are also instrumental in improving the quality of life of patients at every stage, from newborns to the very elderly. Similarly, nurses help address the problems of special population segments, such as new immigrants, the poor, and the disabled.

The complexity of the profession demands that its practitioners acquire expertise in technological, communication, interpersonal, and academic areas. To train nurses to effective decision-making and professional excellence in the spirit of the Torah and the Jewish tradition, the Lev Academic Center has constructed a four-year BSN program with seven main goals:

- Providing clinical knowledge to diagnose various states of health and illness.
- Training its students to provide nursing treatment in critical and life-threatening situations.
- Training its students to provide nursing treatment in chronic situations.
- Providing training in fields that interface with healthcare such as leadership, management, marketing, the economy, and information/database management.
- Providing tools for constructing and using medical and computerized technologies and engaging in research.
- Providing applied knowledge in the law and professional ethics.
- Providing an in-depth understanding of the principles of the Jewish way and tradition that have a connection to the many aspect of providing medical treatment.

The array of resources available to the Lev Academic Center, both technological and Torani, allows for a combination of the high-touch with the high-tech, i.e. the informed use of all the technological possibilities to benefit patient welfare and provide empathy and support.

Nursing Degree for Men (Lev Campus)

The theoretical courses are taught by professional nursing and medical lecturers in a Torah-observant atmosphere along with courses in Halakha, ethics, and medicine in the various clinical disciplines.

The academic studies usually begin in January (the month of Tevet) and take place 4 days a week from midday until the evening (there may be semesters of 5 days of study). Studies are completed at the end of the first semester after 4 years.

From the second year, students gain clinical experience during all hours of the day (including mornings). At the end of the academic studies, students sit for the government certification exam given in April.

The school offers the option of meeting the admissions requirements by attending the academic preparatory program before and during the student's course of study. For more information, contact the Information and Registration Offices at the Lev Campus.

Curriculum

Basic Sciences

- Nutrition
- Pharmacology
- Psychology and Developmental Psychology
- Sociology and Sociology of Healthcare
- Probability and Statistics
- Research Methods
- The Healthcare Economy
- Scientific Writing
- Anatomy and Physiology I and II
- Physiology
- General and Organic Chemistry
- Clinical Biochemistry
- Cell Biology
- Microbiology, Virology, and Pathology
- Genetics
- Immunology
- Advanced Physiology and Pathology
- Introduction to Epidemiology

Nursing Sciences

- Patient Healthcare Management: A Systemic and Economic View
- Advanced Nursing of Complex Patients
- Seminar: Research in Nursing
- Nursing in the Community
- Fundamentals in Healthcare Promotion
- Basic Nursing Concepts
- Physical Evaluation Skills
- Fundamentals of Intervention and Nursing Skills
- Interpersonal Relationships
- Legal Aspects of the Nursing Profession
- Quality Assurance and Risk-Management in Healthcare Services

Clinical Studies: Theoretical and Practical

- Urgent Care Nursing
- Geriatric Nursing
- Halakhic Issues and Medical Ethics in Situations of Illness
- Health and Illness in the Life Spectrum of the Individual and Society
- Introduction to Illness Situations
- Nursing in the Community
- Physical Evaluation
- Adult Nursing (Internal and Surgical)
- Pediatric and Adolescent Nursing
- Women's Nursing
- Mental Health Nursing

Clinical Experience (from the second year in the women's program)

- The Child and the Adolescent
- Adolescent Nursing
- Women's Health
- Mental Health
- Nursing in the Community
- Advanced Clinical Experience

Department Structure

Course of study: 4 Years (excluding mekhina studies) Students must accrue **160** credits.

English

Candidates meeting all the above admissions requirements but have placed in Pre-Basic English A or B must improve their English scores and bring them up to Basic or above before starting their academic studies. **All nursing students must achieve an exemption in English by the end of the first semester of the second years (excluding programs starting in the middle of the year).**

English courses are given all days of the week, not only on the days in which the department offers courses.

Government Registration Exam - Nursing Certification

The curriculum meets all the requirements for receiving a Registered Nurse license of the Health Ministry's Nursing Administration, including all the theoretical and practical foundation in the nursing sciences, healthcare sciences, and behavioral sciences. The mandatory courses are studied at a scope commensurate with the Health Administration's core curriculum. At the end of their studies, students may sit for the government licensing exam. **A passing grade on the exam is a prerequisite for receiving one's RN license.**

You may contact the department office:

Tal Campus: 02-654-7224 | **Lev Campus:** 02-675-1156 |

Shaare Zedek: 02-666-6693 | **MIVHAR:** 03-578-5030 |

Fax: 02-654-7239| **Email:**nursing@jct.ac.il

* **The Lev Academic Center retains the right to determine the applicants placement in the nursing program at one of the women's campuses where the program is given. Similarly, students may not switch campuses during their studies.**
* The practical studies take place at leading medical centers in Jerusalem and elsewhere.
* The program includes courses in Halakha, ethics, and medicine in the various clinical disciplines.
* At MIVHAR, studies are compressed into 4 days, from morning till afternoon, and may include a summer semester if needed.

Admission Requirements and Application Process - pp. 45-51

The Pre-Academic and Preparatory Studies Unit

- All new students must take and pass a preliminary class called **Mathematics for Nursing** before starting their academic studies. Students with a grade of 85% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) or with a grade of 95% and above on the 4-unit Mathematics Bagrut exam may receive an exemption from the course provided they score at least 80% on the entrance exam, which is given only once before the end of the official registration period.
- Students who did not score at least 75% in the 4-unit Mathematics Bagrut exam, must take a 4-unit course in Mathematics for Nursing. The course is given before the beginning of the Elul semester.
- Students who do not have at least a 3-unit Bagrut score in Chemistry, must take a **Pre-Chemistry** course. The course is given before the beginning of the Elul semester.
- During the Elul semester, at the Tal Campus and at MIVHAR, courses in nursing are given in addition to the preliminary courses. These include **General Chemistry** and **Cellular Biology**.

Faculty of Management

Bachelor's Degrees
Accounting and Data Systems
Business Administration

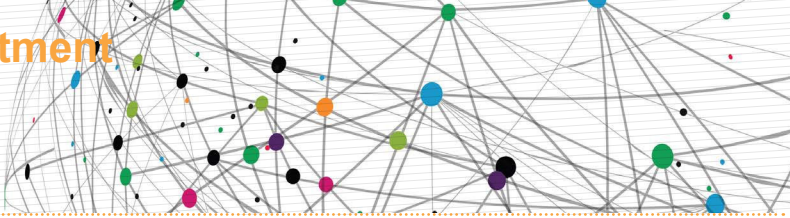
Master's Degrees
Master's of Business Administration (MBA)

The Accounting and Data Systems Department

Lev Campus | Tal Campus | Lustig Campus | MAHAR Tal

Degree: Bachelor of Arts
and a Data Systems Analyst Diploma (Specialist).

Department Chair: CPA Sharon Nitzan



The accounting profession is primarily aimed at provide information, generally of a financial nature, to decision makers to help them make better economic determinations. In a complex, rapidly changing world, when the global market has become local thanks to information technology, knowledge and data have become critical for making informed, competitive decisions. Therefore, there is a growing demand for accountants who possess these technological skills to oversee the transnational business transactions of global corporations while also providing unique professional service in accounting, auditing, tax matters, management sciences, pricing, budgeting, auditing, and more. Therefore, the objective of the Accounting and Information Systems Department is to train skilled professionals in these fields. The training is based on providing the appropriate background in the discipline, both theoretical and applied, and other professional tools. Not only are the studies in the department congruent with the requirements of the Accountants Council, they go beyond them by providing added knowledge in general management and information technology, which is meant to train our graduates to assume key positions in accounting and management in the Israeli economy.

In addition to the degree, graduates received specialist's certification in data systems analysis, providing them with an advantage when seeking employment and in career advancement.

The Accounting and Information Systems Department offers a unique program for outstanding students with exceptionally high scores. The program allows those eligible to finish their course of study towards the BA in Accounting and Information Systems as well as the completion year in three - instead of four - years. Students are eligible for the first year of studies if they have a suitability score (compiled on the basis of their Bagrut score average and psychometric test results) of at least 85%. Staying in the program is contingent on the students' average grade at the end of the year being at least 95%. For inclusion in the program, applicants must contact the department secretariat before the start of the first semester of the first year. The number of places in the program in limited.

Outstanding students or graduates eligible for a BA will be able to continue directly to our MBA program, provided they meet all the other admissions requirements. Detailed information about the curriculum and the entrance requirements may be found in this booklet in the section on the MBA degree.

Curriculum: Mandatory Courses

First Year

- Fundamentals of the Accounting System
- Computer Applications in Management
- Foundations of the Law
- Professional Seminar
- Pre-Intro to Math (for applicants with a 3-unit Bagrut in Mathematics)
- Introduction to Business Programming
- Introduction to Math (for applicants with a 4-unit Bagrut in Mathematics)
- Introduction to Financial Accounting I
- Introduction to Micro-Economics
- Getting to Know the Accounting Library's Resources
- Introduction to Financial Accounting II
- Mathematics for Business Administration
- Introduction to Macro-Economics
- Introduction to Management Accounting
- Business Law

Second Year

- Introduction to Data Systems
- Trade Law
- Fundamentals of Financing I for Accounting
- Advanced Management Accounting
- Probability for Business Administration
- Measurement Problems in Accounting I
- Tax Law I
- Israel's Economy
- Corporate Law
- Fundamentals of Financing II
- Statistics for Business Administration
- Measurement Problems in Accounting II
- Tax Law II
- Data Systems Analysis
- Bonds

First Year

- Information Systems Oversight and Security
- Financial Statements Analysis
- Organizational Information Systems
- Accounts Auditing I
- Taxes (Advanced) I

- Equity
- Advanced Management Skills
- Business Ethics
- Accounts Auditing
- Using Advanced Software Applications
- Unified Financial Reporting
- Taxes (Advanced) II
- Seminar in Data Systems
- English for Accountants

Electives

- From Theory to Work: "The Next Thing"
- Investment Strategy

Exemptions from Accountants Council Exams

Based on the decision of the Accountants Council and as is the practice in institutions of higher education, department graduates will receive 12 exemptions from the Accountants Council exams. During the course of their undergraduate studies, students will receive 9 exemptions at the following sittings: Interim A, Interim B, and Finals A, except for the exam in Financial Accounting and Taxes A. In addition, an exemption from Advanced Management Accounting exam at the end of the Finals B sitting will be given. When students complete their year of supplemental studies, they will receive another 3 exam exemptions: Financial Accounting and Taxes A during the Finals A sitting, and Tax Law B during the Finals B sitting. They will have the option of sitting for the exams during the Finals B sitting - Accounts Auditing--Special Auditing Issues and Advanced Financial Auditing.

Internship

After students have completed their degree studies, they may begin their internship in accounting while doing their supplemental coursework.

Department Structure

Course of Study: The undergraduate studies are provided in an expanded track of Accounting and Data Systems. Studies are structured within one permanent class and last **3 years**.

Students must accrue **130** credits, which entitle them to a Data Systems Analyst certificate.

You may contact the department office:

By phone: 02-675-1283 | **fax:** 02-675-1108 | or **email** accounting@jct.ac.il

Admission Requirements and Application Process - pp. 45-51

Unique Curriculum for Academic Degree Holders

The department offers a unique study track for applicants who already have an undergraduate degree, such as a B.Ed., B.Sc., or BA. Such students receive **20** credits in recognition of their degree, and after completing **110** credits in the program are eligible for an academic degree from the department.

The Pre-Academic Studies Unit

- All new students must study and pass the preliminary Pre-Academic Mathematics for Business Administration course or the **Pre-Intro to Math** course, depending on the campus to which they were accepted.
- Accounting students and students with a grade of 85% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may receive an exemption from Pre-Intro to Math.
- All new students must study and pass the preliminary course **Pre-Intro to Math**. Accountant students and students with a grade of 85% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may submit a request to be exempted from the course on the basis of an interview with the course coordinator. Any exemption will be given solely on the basis of the course coordinator's consideration, before the start of the first semester.
- All new students must study and pass the preliminary course **Fundamentals of the Accounting System** before starting their academic studies. Students holding a Type 2 Bookkeeping
- Certificate issued by the Labor Ministry, or tax consultants, or applicants hold took the 5-unit Bagrut exam in Accounting are entitled to an exemption from the course. The exemption is contingent on applicants submitting the relevant documents.

*__Please note:__ English courses and exams in all courses in all programs in the Faculty of Management are given all days of the week, not only on the days in which the department offers courses.

Year of Supplemental Study for Students with BA in Accounting for Receiving CPA Licensing

The department holds a year-long supplemental study program in a format approved by the Accountants Council, the statutory body determining the certification exams, which also supervises the training of future accountants. In addition to the exemptions from the Accountants Council exams, the supplemental year of study presents students with the most current developments in the profession while expanding and deepening the knowledge gained during their BA studies.

Furthermore, the supplemental year of study is an excellent preparation for the two final exams, so that by the end of the internship, as legally mandated, graduates receive their CPA certification.

For more information, you may contact the department office:
By phone: 02-675-1066 | **fax:** 02-675-1108 | or **email** cpa@jct.ac.il

BA Program for CPAs

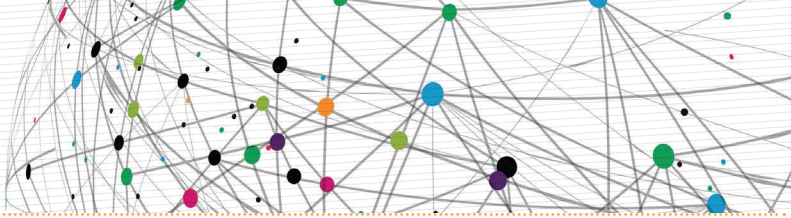
Certified accountants who want to study for an undergraduate degree must meet the following admissions requirements:

- Certificate of accreditation and transcript from the Accountants Council;
- English level placement
- Personal interview.

CPAs accepted into the program receive undergraduate course exemptions of **up to 30** credits in recognition of their previous accounting studies. The exemption is contingent on the submission of relevant documents to the department secretariat.

Master's of Business Administration

Lev Campus | Tal Campus | Lustig Campus | MAHAR Tal
Degree: Bachelor of Arts
Department Chair: Dr. Yosef Tubul



The Department of Business Administration prepares its students to play a significant role in the changing business world while also providing them with knowledge, skills, and an extensive, in-depth view of management, marketing, the economy, and financing, as well as the entire field of data systems. At the same time, students acquire familiarity with technological changes and an understanding of their impact on the business world.

Graduates find employment in a broad range of positions in business - general management, the public sector, HR management and coordination, marketing, advertising - and in the management of financial institutions and in data systems.

Students in the Business Administration Department study courses that introduce them to the most current knowledge of theory formulated by global experts while also providing them with a practical view by lecturers with vast professional experience in Israel and the world. This unique combination prepares students for the challenges of the Israeli economy in the global era, while applying analytical tools acquired during the course of their studies and maximizing the individual potential inherent in each one.

In addition to **the emphasis on the combination of in-depth theory and a practical view** of what is happening in the Israeli economy, the program stresses business ethics and the students' own development of the ethical judgement and personal responsibility businesspeople owe society.

The curriculum combines frontal lectures with tutorials, workshop for personal abilities developments, projects, study tours, and meetings with leading academics and businesspeople.

The department offers a course of BA studies in English. More information on p. 54

Outstanding students or graduates eligible for a BA will be able to continue **directly to our MBA program,** provided they meet all other admissions requirements. Detailed information about the curriculum and the entrance requirements may be found in this booklet in the section on the MBA degree.

In the first year of studies, students will take the basic courses that will provide them with a first introduction to the economic processes behind the Israeli economy, basic knowledge of diverse areas of business administration, and qualitative and quantitative analytical tools to help them understand in-depth what happens in the business world.

In the second and third year of studies, students will expand and deepen their familiarity with the business world, the economy, financing, and how human behavior - as manager, employer, and consumer - is manifested in these areas.

The program consists of several emphases:

- **Unique courses in HR** such as Organizational Development and Change, Training Programs Management, Business Analysis, Team Management, Negotiations, and Advanced Topics in Management.
- **Unique courses in marketing and advertising** such as Advertising Management, International Marketing, Service Management, Business Creativity, and Advanced Topics in Advertising (advertising in the technological era) and Marketing.
- **Unique courses in financing / investment consultancy** such as Capital Markets, Financial Tools I and II, Fundamentals of Marketing, Financial Report Analysis, and Advanced Topics in Financing, as well as **hands-on experience in a trading room.**

In the third year of studies, students will acquire undertake a final project. To do so, students will have to work in a real business organization and provide a solution to an organizational need. The final projects affords students the opportunity to apply their studies to a real-life situation, which hones their abilities, allowing graduates to begin their working lives with professional experience already under their belts. Students will also take courses to develop strategic thinking using game theory.

Department graduates interested in Certified Systems Analyst certification will have to complete the following courses in the Accounting Department:

- Information Systems Auditing and Security
- Organizational Information Systems
- Seminar in Data Systems

You may contact the department office:
By phone: 02-675-1006 | **fax:** 02-675-1108 | or **email** nihul@jct.ac.il

Curriculum

Basic Courses for Business Administration

- Introduction to Math
- Probability for Business Administration
- Statistics for Business Administration
- Mathematics for Business Administration
- Financial Accounting for Business Administration
- Management Accounting for Business Administration
- Fundamentals of Financing I and II
- and Business Law
- Professional Seminar
- Computer Applications in Management
- Trade Law
- Seminar in Forecasting Products and Innovation
- Professional English for Business Administration
- Business Ethics
- Israel's Economy
- Research Methods for Marketing
- Final project

Economics

- Introduction to Micro-Economics
- Introduction to Macro-Economics
- Imperfect Competition
- Fiscal and Monetary Policy
- The Open Market
- Israel's Economy

Data Systems

- Data Systems Analysis
- Business Intelligence
- Advanced Software Applications
- Introduction to Business Programming
- Introduction to Data Systems

Marketing

- Marketing Management
- Consumer Behavior
- Advertising Management
- Sales Management

Management

- Introduction to Management
- Performance Research I and II
- Human Resource Management
- Organizational Behavior
- Organizational Change and Development
- Game Theory in Management

Financing

- Financial Report Analysis for Business Administration
- Advanced Topics in Financing
- Rational Financing Models
- Investment Strategy
- The Trade Room
- From Theory to Work: "The Next Thing"

Strategy and Management Studies

- Business Strategy
- Game Theory in Management
- Introduction to Management
- Performance Research I and II
- Human Resource Management

Integrative Studies

- Business Entrepreneurship
- From Theory to Work: "The Next Thing"
- Course in Entering the Job Market

Department Structure

Course of Study: Concentrated days, 3 years in Elul semester*

Students must accrue **130** credits, including mandatory courses, electives, and a final project.

Admission Requirements and Application Process - pp. 45-51

* **The course of undergraduate study at the Lev Campus is three years and an Elul semester.**
* **For the program to be run in a compressed format (i.e. fewer than five days a week) on the Tal Campus and at MAHAR Tal is contingent on the enrolment of a minimum number of students.**
* **English courses and exams in all courses in all programs in the Faculty of Management are given every day of the week, not just on days in which the department offers courses.**

The Pre-Academic and Preparatory Studies Unit

- All new students must study and pass the preliminary course **Pre-Academic Mathematics for Business Administration** or the course **Pre-Intro to Math**, depending on the campus to which they were accepted. Accounting students and students with a grade of 85% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may receive an exemption from **Pre-Intro to Math**.
- All new students must study and pass the preliminary course **Pre-Intro to Math**. Students with a grade of 85% and above on the 5-unit Mathematics Bagrut (Israeli matriculation) exam may submit a request to be exempted from the course on the basis of an interview with the course coordinator before the start of the first semester.

Graduate Master's Degrees

Physics / Electro-Optical Engineering M.Sc.*

MBA

Nursing *MSN + NP

*The degree is contingent on final approval by the Council for Higher Education

M.Sc. in Physics / Electro-Optical Engineering

Lev Campus

The Degree: M.Sc. in Physics / Electro-Optical Engineering

Department Chair: Prof. Yitzhak Leuchter

The objective of the graduate program in Physics / Electro-Optical Engineering is to train highly skilled researchers and engineers to engage in R&D in applied physics in general and electro-optical engineering in particular.

The curriculum offers four unique clusters in electro-optics representing the cutting edge of Israel's high-tech industry.

To allow students in the graduate program to study while working in industry, the military, and schools, the studies are given on one campus on Thursday afternoon and Friday morning.

The program is designed for B.Sc. holders who successfully completed a course of study in a faculty of engineering or exact sciences at an institution of higher education accredited by the Council for Higher Education.

All students are eligible for scholarships. Students in the research track who submit a thesis are also eligible for a monthly living stipend for some of their time in the program.

Study Clusters

- Biomedical Optical Engineering
- Micro/Nano Electro-Optics
- Electronics and Signal Analysis
- Optics and Space Observation

Study Tracks

- Research Track with Thesis
- Theory Track without Thesis

Admissions Requirements

The physics / electro-optics graduate program accepts applicants meeting the following criteria:

- Those holding an undergraduate degree from an institution accredited by the Council for Higher Education with an average grade of at least 85%.
- Applicants with an average grade of 80-85% or an average grade of 75% with at least two years of experience in industry will be accepted pending a decision of the Admissions Committee.
- Exemption level English.

Honors Track

Outstanding undergraduate students in the Physics / Electro-Optical Engineering or Electrical and Electronic Engineering Departments at the Lev Academic Center exclusively who have accrued **80% of the credits required for** making them eligible for the B.Sc. and whose average grade is **at least 85%** may be accepted to the graduate program in Physics / Electro-Optical Engineering **with a status of accruing courses.** The department chair can allow such students to register for the graduate program and begin certain courses and accrue their remaining credits until they are eligible for their undergraduate degree. That application must take place no later than the end of the first year of graduate studies.

(Please note: Such students must, first and foremost, be committed to their undergraduate studies. They will not be allowed into graduate courses if these conflict with undergraduate courses on the schedule.)

Supplemental Studies

Applicants with a B.Sc. from a university faculty of engineering who are switching to a new field of study or whose undergraduate degree is not equivalent to an undergraduate degree in that field at the Faculty of Engineering and Computer Sciences at Lev Academic Center may be admitted conditionally and will be required to make up the materials they are missing by taking supplemental courses. Supplemental studies may be completed during the graduate program after appropriate approval.

The successful completion of supplemental studies is a prerequisite for completing one's graduate studies.

Courses determined as a supplemental program for any given student will not be counted as credit points and will not be included by the graduate program tuition.

Mandatory Courses

The mandatory courses include the following:

1. Basic courses in Mathematics
2. Basic courses in Physics and Engineering

Department Structure

Course of Study: Two years (not including supplemental courses)

Research Track with Thesis: 24 credits through coursework and 12 credits through thesis. In the research track with a thesis, the thesis must be submitted by the end of the first semester following the end of the second-year studies in the program.

Theory Track without Thesis: 36 credits through coursework

Curriculum

The total number of credits required for the M.Sc., regardless of the cluster selected, is 36. Students can accrue a maximum of 39 credits based on their electives.

Basic Courses in All Clusters: (select 4 courses)

- Complex Functions
- Electro-Optics and Non-Linear Optics
- Mathematical Methods in Physics
- Advanced Statistical Data Processing
- Stochastic Processes

Specialization Courses by Cluster:

Biomedical Optical Engineering Cluster:

- Biomedical Optics (Imaging)
- Selected Topics in Signals Processing
- Advanced Topics in Visual Sciences
- Optical Medical Equipment: Spectroscopic Measuring of Oxidation

Biomedical Optical Engineering Cluster:

- Space Observation, Radar, and Sensing
- Selected Topics in Signals Processing
- Compressed Sensing and Convex Optimization
- Advanced Topics in Visual Sciences

Optics and Space Observation Cluster:

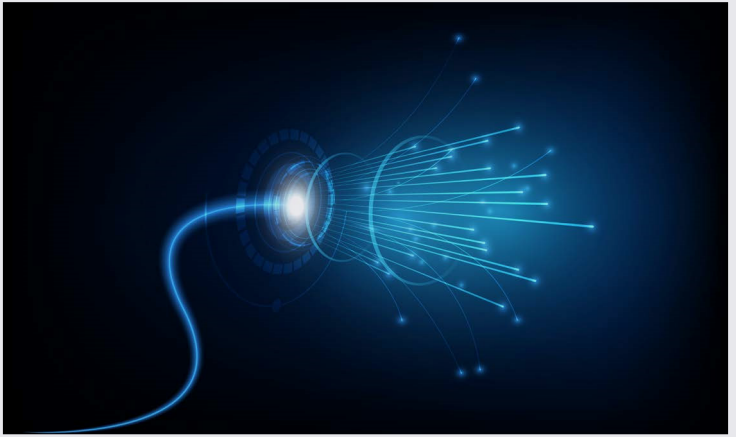
- Space Observation, Radar, and Sensing
- Mathematical Methods for Satellite Photo Analysis
- Space Systems
- Selected Topics in Signals Processing

Optics and Space Observation Cluster:

- Space Observation, Radar, and Sensing
- Mathematical Methods for Satellite Photo Analysis
- Space Systems
- Selected Topics in Signals Processing

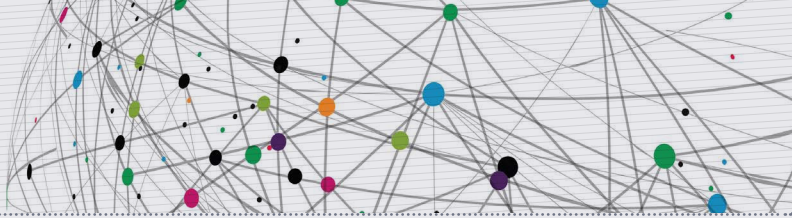
* As is common practice with new academic programs, the degree is contingent on final approval by the Council for Higher Education.

** The opening of a class and the studies of the specialization tracks are contingent on the enrolment of a minimum number of students. The program may open once every other year.



Master's of Business Administration

Lev Campus
The Degree: MBA
Department Chair: Prof. Yitzhak Aharon



The graduate program in business administration is designed for undergraduate degree holders interested in multidisciplinary training for management positions and undergraduate degree holders already working in the field who want to expand their management, applied and academic knowledge bases.

The Program Objective: To impart to students multi- and interdisciplinary academic and applied knowledge of all management fields and advanced management capabilities as well as business law and ethics in light of Jewish values and sources in the spirit of the moral legacy of Prof. Zeev Lev, Israel Prize winner and the founder of Lev Academic Center.

The curriculum emphasizes the development of multidisciplinary management skills (e.g. entrepreneurship, marketing, financing, company management, accounting and information systems).

Graduates of the MBA program find employment in all branches of the economy, the security establishment, corporations, nonprofits, and government ministries.

You may contact the department office:

By phone: 02-675-1006 | **fax:** 02-675-1108 | or **email** mba@jct.ac.il

Study Tracks:*

- **Financing and Risk Management**
- **Managing Data Systems - Data Science**
- **FinTech (Financial Technology)**
- **General and Human Resources**

* Students register for their preferred tracks after the end of the first semester of MBA studies. The opening of a track is contingent on the enrollment of a minimum number of students, as determined by Lev Academic Center.

Department Structure

Course of Study: 4 semesters in two years (contingent on the completion of supplemental studies).

Students must accrue 53 credits consisting of basic mandatory courses, advanced mandatory courses, and specialized track courses.

Curriculum

(The degree does not require a thesis, but does require a seminar and/or final project in one's specialization of choice.)

General Mandatory Studies

- Fundamentals of Financing I for Business Administration
- Introduction to Management
- Business Ethics
- Marketing Management I and II
- Business Law

Advanced Mandatory Studies

- Internet Technologies
- FinTech
- Negotiations and Tenders Management
- Decision Making
- Strategic Management
- Business Project Development and Management
- Business Simulations

Study Tracks:*

Financing and Fiscal Management

- Finance and Risk Management, Organizations and Companies
- Applied Workshop in Budgets and Risk Management
- Financial Tools
- Workshop in Assessing Company Value
- Workshop in Investment Portfolio Management
- Seminar/Final Project in Specialization Track
- Investment Philosophy and Stock Analysis

Data Systems and Data Science

- Big Data Management and Analysis in Cloud Environments
- Decision Supporting Systems
- Advanced Seminar in Text Mining
- Strategic Management and Data Systems
- Data Science and Analytical Methods for the Business Environment
- Seminar/Final Project
- Data Security and Warfare in the Internet

FinTech (Financial Technological Innovation in Financing)

- Investment Philosophy and Stock Analysis
- Financial Tools
- Decision Supporting Systems
- Applied Workshop in Investment Portfolio Management
- Seminar/Final Project
- Data Security and Warfare in the Internet
- Strategic Management and Data Systems

General and Human Resources

- Financial Tools
- Strategic Management and Data Systems
- Strategic Management of Human Resources
- Decision Supporting Systems
- Seminar/Final Project
- Data Security and Warfare in the Internet

Exemptions from Mandatory Studies

Courses taken at the undergraduate level do not grant students exemptions from graduate courses with the following exceptions:

Students with a BA in Business Administration from Lev Academic Center are exempted from the following basic studies:

- Fundamentals of Financing I
- Introduction to Management
- Business Ethics
- Marketing Management I
- Business Law

Students with a BA in Accounting are exempt from all of the above, except for Introduction to Management and Marketing Management I.

Students with a BSc in Industrial Engineering from Lev Academic Center are exempted from the following basic studies:

- Introduction to Management
- Business Ethics

Exemptions from Academic Courses Based on Previous Academic Study

Applicants with a BA or academic background at an accredited academic institution in management or accounting who, within the last 7 years, took an identical course (in content and scope) to that in the program and attained a score of at least 75% may submit a request to the department chair and receive credit for it. This is contingent on the submission of transcripts and the syllabus of the course already taken, which must be at least 80% identical with the course offered in the Lev Academic Center. **The request must be submitted in writing** to the department chair at the beginning of the first semester of studies and no later than the course switching period.

MBA Supplemental Studies

Supplemental Course Curriculum

- Mathematics for Business Administration
- Financial Accounting for Business Administration
- Introduction to Micro-Economics
- Statistics for Business Administration

Students with no prior academic knowledge of these subjects must register for, take, and score at least a 75% average in the supplemental courses taking place **during the Elul semester before the start of graduate studies and/or during the first semester of the first year**.

Interested students may complete the supplemental courses at other accredited academic institutions, such as the Open University, pending approval from the department secretariat before beginning. In special situations and pending approval from the department secretariat, students may incorporate their supplemental studies during the first semester of graduate studies.

Supplemental courses may be scheduled for any day of the week and might conflict with the graduate program's mandatory courses.

Exemptions from Supplemental Studies

Applicants with a BA from an accredited academic institution in accounting, logistics, economics, business administration, or any other social science field or other discipline who have taken the supplemental courses fully or partly at an accredited academic institution at a similar scope and identical level to the program's requirements may submit a request for exemption from these courses, contingent on the submission of transcripts and course syllabi.

To receive exemptions or credit, students must submit a current syllabus of the course taken and the relevant transcript to the Information and Registration Division.

Admission Requirements to Master's of Business Administration

- Undergraduate degree with an average grade of at least 85%
- Graduate degree and above **or** undergraduate degree and professional license (CPA, engineer, attorney, etc.) with an average grade of at least 80% or undergraduate degree with an average grade of at least 80% and management/command experience of at least two years **(**candidates with an average grade of 80-85% without practical experience will be accepted pending the decision of a special admissions committee).
- Exemption from English at the university level
- Personal interview
- Average grade of a least 75% in supplemental studies for the graduate degree (only those to whom this applies)
- Completion of Jewish studies at the Beit Midrash will be determined by the Beit Midrash's decision based on an interview with the candidate

Direct Honors Track

Outstanding undergraduate students at the Lev Academic center who have accrued 80% of credits towards their degree and whose average is at least 90% may be accepted with status of accruing credits and allowed to register for several graduate level courses, thus accruing credits for the graduate degree while completing the undergraduate degree, no later than the end of the first year in the graduate program.

(Such students must, first and foremost, be committed to their undergraduate studies. They will not be allowed into graduate courses if these conflict with undergraduate courses on the schedule).

Exemption from English at the University Level

All MBA students must achieve exemption from English at the university level. A university-level English exemption may be approved by submitting a formal certificate from the undergraduate school or a score of at least 234 on the AMIR Exam or a score of at least 134 on the English portion of the psychometric exam.

Candidates holding a B.Ed. or other undergraduate degree from an academic college who have not reached the university-level English exemption may, before starting the graduate program, register for and take the Advanced English B course at the campus to which they applied. The course is not given on the same days as the graduate courses and requires separate tuition fees in accordance with the Lev Academic Center's tuition policy.

* The personal data of candidates with an undergraduate degree from an academic institution abroad will be assessed by the Information and Registration Division. Candidates must submit a notarized translated transcript (into English or Hebrew). Their candidacy will be assessed by a special admissions committee and require approval from the Degree Assessment Unit at the Education Ministry.

* Exams may be given on days and at other times than the program's regular schedule.

* There may be changes to the curriculum in the department and supplemental studies.

* Only some of the electives will be given in the second year.

Master's Degree in Nursing MSN and Nurse Practitioner NP

The Degree: Master's of Nursing MSN with Nurse Practitioner NP certification
Department Chair: Prof. Chaya Greenberger

Nursing is changing and undergoing a process whereby the authority of nurses is continuously growing, both in Israel and around the world. More authority is being conferred on the basis of the increased amount of knowledge and higher skills required in modern nursing. The more complex the authority grows, so must the level of training be raised.

A graduate degree in nursing - an academic discipline as well as a profession - is designed to empower holders of the BSN degree in nursing and allow them to provide treatment at a higher level and greater scope. The program consists of courses that connect **the clinical/management side of the profession** with **the research side** based on the principle of evidence based practice. Today, this is a worldwide trend in all the healthcare professions.

The core program will provide knowledge and skills as follows:

- **Using research** of various kinds as a tool for better practice;
- **Using data science as a tool for optimal clinical decision making** with strategies and searches in databases;
- **Developing leadership skills as a tool for improving treatment and instituting change as needed to this end;**
- **Planning holistic, dynamic therapy for all healthcare needs with the patient and family members as participants;**
- **Relieving pain of all types on the basis of estimates and using the range of current methods to preserve the quality of life.**

Clinical Geriatric Nurse Practitioner
NP - Nurse Practitioner

The training of nurse practitioners includes the knowledge and skills required for direct intervention in all aspects of geriatric care. They have the ability **to diagnose, treat, and consult** and they are integral members of multidisciplinary teams in healthcare settings providing care for the elderly. In addition to direct treatment, they also advise patients and their families, focusing on preventing further illness and providing treatment to reduce complications. Nurse practitioners are also a resource for healthcare professionals in other disciplines.

Below are some of the specific areas of authority of geriatric nurse practitioners as determined by Health Ministry regulations:

- Independent management of routine medical care, including identifying uncommon occurrences and emergencies, providing initial care, and referring to MD, based on approved practices for geriatric nurse practitioners.
- Evaluating and diagnosing patients based on area of care, including referrals to auxiliary tests and imaging, based on the definition of nursing practices relevant to the area of care.
- Writing a treatment plan for patients based on diagnostic results including managing drug regimens and undertaking special treatments as part of the treatment plan.
- Referring patients for follow-up treatment by MD and providing referrals to other professional based on an evaluation and the treatment plan.
- Referring patients to professional consultation as part of the treatment plan.
- Consulting for teams and patients in their area of care.
- Staying current vis-a-vis the subjects within their area of care.
- Teaching in the field based on need and in coordination with supervisors.
- Undertaking surveys and research on subjects within their area of care.
- Preventing illness and promoting health within their area of care.
- Playing other professional roles based on supervisors' directions.

Students in the program acquire research and critical thinking skills that will advance their ability to make complex clinical and management decisions.

Curriculum

- Research Methods and Biostatistics
- Leadership in Clinical Nursing: Here, Now, and in the Future
- Epidemiology and Public Health
- Philosophy, Ethics, the Law, and Halakha in Clinical Nursing
- Data Science in Medicine and Nursing
- Evidence Based Research
- Treating Pain and Preserving Quality of Life in Functional Impairments
- Systematic Overview: Between Theory and Practice
- Geriatric Policy and Administration
- Geriatric Pharmacology
- Chronic Disease Management and Common Acute Geriatric States
- Illness and Unique Problems of Old Age: Introduction to Gerontology

Illness and Disease in Geriatric Patients

- Heart, Blood Vessels, Breathing, ACLS
- Digestive Tract and Nutrition
- Nephrology and Urology
- Infections
- Diabetes and Wounds
- Neurology and Psychiatry
- Palliative Care and Rehabilitation
- Elective Seminar: Education in the Art and Science of Nursing / Nursing in Culture's Mirror

In the last semester of the studies, students will be placed in a clinical setting for hands-one experience for a total of 8 credits (each credit is equivalent to about 50 hrs.).

Department Structure

Total of 60 credits (27 credits from the core of advanced nursing and 33 credits from geriatric specialization)

Course of Study: Two and a half years (excluding English)

Admissions Requirements

- RN license
- Undergraduate degree from an accredited academic institution with an average grade of at least 85%
- Personal interview
- Two years experience in the field
- For the geriatric nursing specialization track: course on the fundamentals of gerontology or eldercare or general/combined ER or first aid (community nursing).

* As is the practice in institutions of higher education, the program will be given contingent on the registration of a minimum number of students. The granting of the degree is contingent on final approval by the Council for Higher Education.

Lev Academic Center is developing curricula for other specializations. .See Information and Registration for more information

Admissions Requirements and Application Process

Registration Process

Start of Registration: 1 Tevet 5779 / December 9, 2018
End of Registration: 19 Tammuz 5779 / July 22, 2019

Registration via the website www.jct.ac.il **This includes payment, uploading of documents, and scheduling a personal interview.**

Applicants can track their registration status online at any time.

Submission notification: After the documents have been received by the school, applicants will receive a submissions notification. In case of changes in personal data, submit a notification in writing to the Student Information and Registration Division.

Personal Interview Undergraduates: Come to the interview at the time scheduled in the "Interview Scheduling" system of the registration website. (Graduate Students: Based on personal scheduling.)

Answers in writing, by email and post are sent only after the personal interview. Acceptance letters are sent to applicants who meet all the admissions requirements.

Implementing Acceptance: Via the payments website (advance tuition payment, paying and uploading a signed standing order, and payment for prep/Elul courses). Confirming your acceptance secures your spot as a student at Lev Academic Center.

Orientation Day: Orientation day is usually held at the beginning of the Elul semester. All new students are required to attend.

Preparatory Studies - Elul Semester: First-year students usually begin their studies with prep courses and/or academic courses in certain departments. The admissions letter will inform each new student of their required course(s).

* During Elul, Jewish learning takes place in the Beit Midrash of the Lev Campus.
* The Lustig Campus and and MACHAR Tal hold Mechina courses starting in Tammuz. Information will be provided as needed.

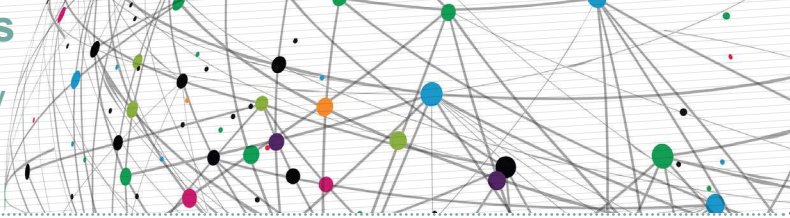
Registration Process

1. The registration fee for registration packet and actual registration is paid via the registration website. Payment is valid for one year and is not rolled over from one year to the next.
2. The registration fee is non-refundable. Applicants who cancel their registration or are not accepted do not received a refund of the registration fee.
3. Lev Academic Center retains the right to check every datum, document, and declaration applicants submit and call them into question. The submission of false information to Lev Academic Center and the concealment of information from the school are disciplinary infractions.
4. Candidates who must complete information, e.g. has not yet received their psychometric/TIL scores, etc., will receive notice of acceptance or rejection only after all missing data (before the start of Elul semester) are submitted.
5. The admissions committee discusses applications based on the departments, the preferences noted on the registration form, and admissions data.
6. To change their department of study or preferences, applicants must submit a request in writing to the Student Information and Registration Division.

Best of luck to all our new students!

Undergraduate Admissions Requirements

Those holding an Israeli Bagrut certificate or parallel certificate from abroad recognized by Israel's Education and Culture Ministry or those holding a certification of completion of a pre-academic mekhina program are eligible to register (for certain MAHAR programs, the Beit Yaakov diploma is recognized as well).



Admissions Requirements for B.Sc. Degree
(Engineering, Computer Sciences, and Bioinformatics)

- **Eligibility for Matriculation Certificate including:**
  - Mathematics - 5 units with a score of at least 75% **or** 4 units with a score of at least 80%
  - Physics - 5 units (highly recommended)
  - English - 5 units with a score of at least 65% **or** 4 units with a score of at least 70%
- **English level placement exam**
- **Psychometric or TIL exam, with a score of at least 600** (in Computer Sciences - a score of at least 550)
- **Suitability score of** at least **79**
- **Personal interview**
- **In the Electro-Optics Engineering Department, candidates may be asked to come in for a personal interview with the department chair.**

Admissions Requirements for BA in Business Administration
(Accounting and Business Administration)

- **Eligibility for Matriculation Certificate including:**
  - Mathematics - 4 units with a score of at least 70% **or** 3 units with a score of at least 85%
  - English - 4 units with a score of at least 65%
- **English level placement exam**
- **Psychometric or TIL exam with a score of at least 550**
- **Suitability score of at least 79**
- **Personal interview**

Admissions Requirements for BSN Degree

- **Eligibility for Matriculation Certificate including:**
  - Mathematics - 4 units with a score of at least 75% **or** 5 units with a score of at least 65%
  - English - 4 units with a score of at least 65%
- **English level placement exam**
- **Psychometric exam score of at least 540**
- **Suitability score of at least 79**
- **Personal interview**

Supplemental studies towards RN (integration into generic department)

- **RN certification**
- **Psychometric exam score of at least 505**
- **Full matriculation or pre-academic preparatory program certification**
  - **Mathematics:** Score of at least 75% on the 4-unit Bagrut exam or at least 65% in a statistics course during nursing school within the last three years
  - **English:** At least a basic classification
- **Personal interview**

The psychometric score is the minimum threshold based on the instructions of the Nursing Administration in the Health Ministry. It does not ensure the final acceptance of the applicant.

- The admissions cross-section and data of accepted students to the Lev Academic Center are higher than the score appearing in this booklet. Furthermore, the scores are minimums based on the instruction of the Council for Higher Education. They should therefore not be viewed as determinant and/or any promise about candidates' chances for acceptance.
- Applicants to the academic Atuda and the Nursing Department must have sat for the psychometric exam (the TIL score is not valid to these programs).

The formula for calculating the suitability score and information about the determination of English level placements appear on the following pages.

Applicants may use the suitability score calculator at the Lev Academic Center's registration website. See www.jct.ac.il > Information and registration > Suitability score calculator

Undergraduate Admissions Tracks

Direct Acceptance Based on Psychometric Exam

Applicants whose psychometric exam score is at least **720** are immediately accepted provided they meet all the admissions requirements to the department in question, including the personal interview and minimum scores in English and Mathematics at the 4-unit Bagrut level **(irrelevant for the academic Atuda track and Nursing Department)**.

Direct Acceptance Based on Bagrut Certificate Eligibility

Candidates with a Bagrut Certificate with a weighted average score of **106** are accepted directly without a psychometric/TIL exam score, provided they meet the admissions requirements of the department in which they want to study, including a personal interview and an English placement level as required **(irrelevant for the Academic Atuda program and Nursing Department)**.

Acceptance Based on Suitability Score

The suitability score determining admissions to the Lev Academic Center is at least 79. The suitability score is calculated on the basis of the following formula:

(0.02 x psychometric score OR 0.019 x TIL score) + (0.35 x optimally weighted Bagrut average) + 35.7 = suitability score

To calculate your suitability score, go to the calculator at the Lev Academic Center's registration website.

Acceptance Based on Previous Academic Studies

Applicants with full or partial academic education who have accrued at least one full academic year with 30 or more credits with an average grade of at least 85% are invited to check out the possibility of acceptance to undergraduate studies. The request will be considered based on the psychometric/TIL score and/or scope of academic studies, average grade in academic studies, and the connection between the applicants' previous studies and the desired program of study. (The Faculty of Management requires an average grade of at least 75% in previous academic studies.)

Requests for exemptions and/or credits must be submitted using a special exemption/credit request form. It is also necessary to submit official transcripts and course syllabi. Credits/exemptions are given if the applicants have previously studies parallel academic courses with similar scope and contents to what is taught in the relevant department **provided the score in the course is at least 75%**. To receive an exemption/credit, applicants must submit their request by the beginning of the first semester of studies and **no later than the course switching period at the beginning of the semester**.

Psychometric Exam

Psychometric Exam

The psychometric exam is an important component in consideration for admissions to academic studies and is administered by the National Institute for Testing and Evaluation. The exam is administered in several languages, including Hebrew, English, French, and Russian.

More information is available at the website of the National Institute for Testing and Evaluation **http://www.nite.org.il**

When registering for the psychometric exam, please note that the score should be sent to the Lev Academic Center.

Exam Date	End of Registration The registration form must have arrived at the National Institute for Testing and Evaluation by this date.	Notes
12, 13 Nissan 5779 / April 17-18, 2019	February 25, 2019	Last day for Academic Atuda program
1 Tammuz 5779 / July 4, 2019	May 14, 2019	End of registration to the Lev Academic Center

For the purpose of discussions in the admissions committee, the psychometric score is generally valid for 7 years.

We recommend that applicants with physical and/or learning disabilities in need of special testing conditions look into the procedures used by the National Institute for Testing and Evaluation: http://www.nite.org.il

TIL Exam

TIL International Ltd. developed an exam that primarily measures potential for skills. The TIL Exam is recognized as a substitute for the psychometric exam for admissions to Lev Academic Center **but not for candidates applying to the academic Atuda program or the nursing program. They must present a minimum psychometric score as noted**.

The testing, which takes about 4.5 hours, assesses the skills and characteristics relevant to studies at the Lev Academic Center. The tests cover applicants' suitability to the departments in which they want to study. The tests are taken on a computer. **The exam is available in several languages, including Hebrew, English, Spanish, French, and Russian.**

A sample exam is available at **www.tilint.com.**

One may sit for the TIL Exam no more than twice. Those deciding to retake the exam must wait four months, though no more than 13 months, before taking it a second time.

For the purpose of discussions in the admissions committee, the TIL Exam score is generally valid for 3 years, provided the scores are kept in the system.

Registration and payment for the exam are done at the TIL Ltd. website. You will be asked to present a printed copy of the payment receipt before sitting for the exam. The receipt is valid for only one month.

Applicants planning on taking the TIL Exam who want to check their eligibility for special testing conditions must inform TIL Ltd. when scheduling the exam date and fax their learning differences evaluation to 03-578-7445 not later than a week before the scheduled exam date.

Applicants choosing to submit a TIL Exam score must also submit an English placement level exam (the AMIR Exam score or AMIRAM Exam score or the English portion of the psychometric exam). (Every candidate must read the rules on placement levels in the Admissions Requirements section). As of the 2016-2017 academic year, the TIL Exam no longer notes English placement level.

Admissions Requirements: English Placement Level

Based on the decision of the Council for Higher Education, all students are required to study English and must reach the university exemption placement level by the end of the second year of academic studies (in the Nursing Department, by the end of the first semester of the second year). Students' placement level is determined upon their admission to study at Lev Academic Center.

English Placement- Study Levels

English on Psychometric Exam or AMIRAM Exam	AMIR Exam Grade	Placement in Beginners' Level English at Lev Academic Center	Basic English Courses
Below 70	Below 170	Pre-Basic A	8 weekly hours
70 - 84	170 - 184	Pre-Basic B	6 weekly hours
85 - 99	185 - 199	Basic	6 weekly hours
100 - 119	200 - 219	Advanced A	4 weekly hours
120 - 133	220 - 233	Advanced B	4 weekly hours
134 - 150	234 - 250	**Exemption from English classes**	-----

- More information about the AMIR and AMIRAM exams appears on the following page.
- AMIRAM placement exams are given by the National Institute for Testing and Evaluation under their aegis at Lev Academic Center's different campuses on set dates. (The dates and procedures of AMIRAM exams are listed on the registration website. The number of places on any given date is limited.)

- **Important:**

1. **English courses are not covered by the standard tuition and are charged a separate fee. English classes and exams take place every day of the week also in departments or tracks in which studies are compressed into a few days. Students must therefore plan accordingly.**
2. **Students who place into the Pre-Basic A or Pre-Basic B levels are accepted conditionally. They must achieve a Basic or higher level by the end of their first year and must** take their English courses from the first semester of the first year even if they intend to change their placement in the future. More information available in the regulations at LevNet.
3. Students admitted without an English placement level are admitted conditionally. They must submit a score in the English portion of one of these exams by evaluation day of the Elul semester or the first semester of their studies.
4. New students who do not submit their English placement level to the Student Information and Registration Division by the deadline **will be required** to take the Pre-Basic A English course during the first semester.
5. It is possible to change one's English placement level **only before the end of the course-switching period.** After the course-switching period, students will not be able to cancel an English course and received a refund of the fee and they will not be able to register for other English courses instead. This conforms with the regulations on English studies appearing in the regulations on LevNet.
6. **Applicants with a score of at least 650 on the psychometric exam** who received a score of at least 130 on the English portion or a score of at least 230 on the AMIR Exam will receive an exemption from English studies **provided they have the score required for the Bagrut of at least 4 units.**
7. High school graduates from English-speaking countries (provided the high schools' language of instruction was English) are exempt from English studies on the basis of submitting a high school diploma and the relevant documents.
8. **Students with previous academic background** at an accredited academic institution with an English program similar to that at Lev Academic Center will be given credit for their previous English studies provided they submit transcripts and syllabi of previous English courses to the English department chair before starting their academic studies here. **Their English placement level will be determined solely by the English department chair.**
   - **Those holding a B.Ed. from a teachers' college** will be placed either in a Beginners' A course or in a course determined by their placement as described above, whichever is higher.
9. **English for graduate students:** All graduate students must submit a university level exemption from English to the Student Information and Registration Division in the course of registering and no later than the start of their academic studies. **The Student Information and Registration Division is the only entity handling graduate students' exemptions from English.**

☞ **Please note:** Students with a placement of Pre-Basic A or B must being their English studies from the first semester (or their first semester in the school). They cannot submit a score for a new placement once the semester has started. Changing one's level is possible only on the basis of the regulations on English studies appearing on LevNet.

AMIRAM Exam

The AMIRAM Exam is an English placement exam given by the National Institute for Testing and Evaluation and scheduled for times determined by Lev Academic Center in conjunction with the NITE.

The exam, which is taken on a computer using NITE software, consists of three type of questions, identical to the types of questions on the AMIR Exam and the English section of the psychometric exam:

1. **Sentence completion:** Selecting the most appropriate word to complete the sentence.
2. **Rephrasing:** Replacing a complex sentence with the one that means the same.
3. **Reading comprehension:** Reading a short essay and answering 5 questions about it to demonstrate understanding.

The AMIRAM Exam will be held on set days on the various Lev Academic Center campuses **before the start of studies only. The exam does not afford special testing conditions or adjustment.**

Information on registration and exam dates appears on the registration website > Admissions Requirements > English.

AMIR Exam

Registration for the AMIR Exam is separate from registration for the psychometric exam and the application to attend the school. Registration is done on the computer at the website of the National Institute for Testing and Evaluation's website at http://www.nite.org.il.

The exam checks receptive proficiency of academic English as reflected by reading and comprehending several texts. The exam consists of three sections featuring **sentence completion, rephrasing, and reading comprehension.**

Below are the AMIR Exam dates for the coming year:

Exam Date	End of Registration Period*	Notes**
12-13 Nissan 5779 / April 17-18, 2019	February 25, 2019	For the placement level to go into effect, students must submit their English score to the Student Information and Registration Division as soon as they receive it and no later than the first day of Elul semester.
July 4, 2019 1 Tammuz 5779	May 22, 2019	The scores from this date arrive after the beginning of the Elul semester. See note on preceding page.
September 2-3, 2019 2-3 Elul 5779	July 15, 2019	English placements are recorded as noted in the regulations and apply at the end of the second semester until the end of the course switching period.
29 Kislev and 1 Tevet 5780 / 27 and 29 December, 2019	October 24, 2019	

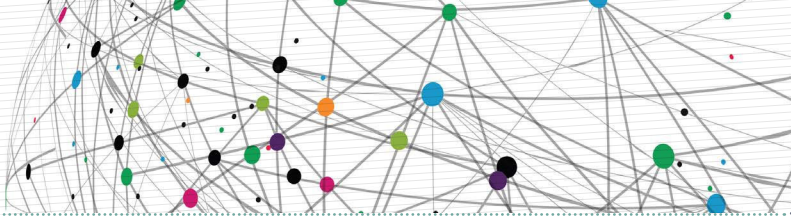
* The registration form must have arrived at the National Institute for Testing and Evaluation by this date. Applicants, if they so choose, may sit for the AMIR Exam as often as they wish and at any intervals. Late registration for an AMIR Exam may be allowed.

** For more information call 02-675-9555 or contact www.nite.org.il.

Special Exam Conditions

The National Institute for Testing and Evaluation allows applicants with various disabilities and differences to take an adapted AMIR Exam. It is given close to the April, July, and December dates of the psychometric exam. Applicants with a physical medical disability or learning difference who feel their situation calls for an adapted exam should contact NITE at 02-675-9590 for clarification of their status.

Admissions Requirements for Practical Engineers Completing a B.Sc. Degree



Supplemental Studies for B.Sc. Degree

- Average diploma grade at least 75 (for application to Computer Sciences - at least 85)
- Mathematics at the 4-unit Bagrut level with a score of at least 80%
- English level placement
- The Electrical and Electronic Engineering Department and the Physics / Electro Optical Engineering Department also require the submission of a psychometric or TIL score of at least 600 and a decision by the Student Information and Registration Division and department chair.

Electrical and Electronic Engineering Department

Associate electronic engineers with a diploma who want to complete a B.Sc. degree in electrical and electronic engineering may study in the regular track and may receive up to 30 credits/exemption points based on their previous studies. Students must present their transcripts and course syllabi to the department chair. The department chair will determine the number of credits/exemptions points for each such application an individual basis. The minimum score for receive credit/exemption points per course is 75. Associate engineers will be exempted from the final project under the following conditions:

1. The project for the associate engineering diploma received a score of at least 80;
2. The project coordinator at Lev Academic Center certifies that the quality of the project meets the school's criteria;
3. Students provide, in writing, an introduction and extensive background for the project as well as alternate solutions using the professional literature.

Computer Department

Associate software **or** computer engineers who want to complete a B.Sc. degree in computer sciences may receive **up to** 30 credits/exemption points based on their previous studies and **up to** 20 credits/exemption points if they want to complete a B.Sc. degree in communications systems engineering or software engineering.

Students must present their diplomas, transcripts, and course syllabi to the department chair. The department chair will determine the number of credits/exemptions points for each such application an individual basis, taking into consideration the Council for Higher Education directives. The minimum score for receive credit/exemption points per course is **85%**.

Supplemental Studies for BA in Faculty of Management

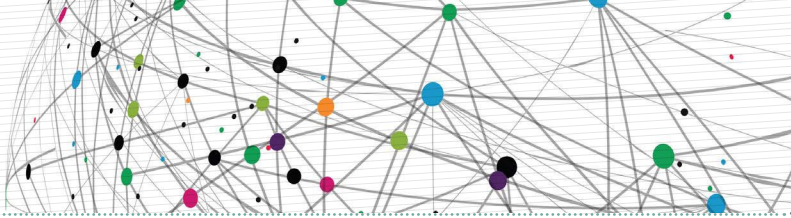
- Average diploma grade of at least 75
- Mathematics - 3 units with a score of at least 85 or 4 units with a score of at least 70
- English level placement

Graduates of associate engineering schools who declare they can present confirmation of diploma eligibility by the end of the first semester may be admitted conditionally. They must meet all admissions requirements.

Exemptions and/or Credits on the Basis of Practical Engineering Studies

Requests for exemptions and/or credits must be submitted using a special form to the department chair before the beginning of the first semester of studies and no later than the course switching period. Requests submitted after this time will not be addressed. **A minimum score is required to be eligible for credits and exemptions. This score may vary from department to department.**

The Pre-Academic and Mechina Unit, Tuition, and Confirmation of Attendance



Confirmation of Attendance

To secure one's spot, it is necessary to pay a tuition deposit and submit a **bank-signed** standing order as early as possible. **Non-payment of the tuition deposit and failure to submit the standing order form before the start of the academic year will delay one's campus intake process.**

Tuition

Undergraduate: For the 2017-2018 academic years, **reduced** annual tuition was NIS 10,066. Tuition is linked to credit points set for the degree in the department of one's study. Credits accrued beyond those required for the degree will be paid for separately.

Graduate (excluding payment for supplemental studies where applicable): Tuition is NIS 13,603. **Minimal cost per academic year:** Graduate students will be charged at least 50% of the full tuition each year, i.e. even students taking only a single course will be required to pay 50% of full tuition.

Tuition for supplemental studies for graduate students is added to the cost of graduate school tuition.

Practical engineers will be exempted from the final project under the following conditions:

Additional Payments

- Students must cover their National Insurance Institute payments as well as carry accident insurance. These payments are done independently at the National Insurance Institute. Students with a tourist visa must carry health insurance valid at least until the end of the first year.
- Students must pay for Jewish studies at the Beit Midrash, Midrasha, or seminary, in addition to the academic tuition, based on their campus of study.
- Basic English courses taken before students achieve a university level exemption are not covered by the academic tuition, as per the school's regulations and procedures.
- Students living in the singles' dorm at Lev Academic Center pay separately for board in addition to the academic tuition. Dorm fees range from NIS 7,500 to NIS 9,800 per year, depending on room type and number of roommates.
- Students are also obligated to pay a security fee, a welfare fee, and a photocopy fee.
- Preparatory and pre-academic courses are not covered by the academic tuition.

A more detailed explanation of the tuition structure and other fees may be found in the Information Packet at the registration website > Information for Application > Before You Start > Information Packet.

Canceling Registration, Withdrawing from Studies, and Refunding Fees

1. Students wishing to cancel or defer their admission until the next academic year must immediately inform that Student Information and Registration Division by the beginning of the academic year. The tuition deposit will be refunded as per the Lev Academic Center's regulations.
2. The registration fee is non-refundable. Applicants who cancel their registration or are not accepted do not receive a refund of the registration fee.
3. Students who withdraw after registering for courses or after the beginning of the academic studies at any point from the start of the first semester **must inform the Dean of Students, fill out a withdrawal form, and submit it to the Student Secretariat. The date of submission of the form to the Student Secretariat is the determinative date for the purpose of tuition refunds**.
4. Student who cancel their registration and then seek to re-register must pay a NIS 200 registration renewal fee.

Special Programs and Tracks

Pre-Army Programs

IDF Academic Atuda Program

The Lev Academic Center also accepts students serving in the IDF as part of the army's academic Atuda program.

Academic Atuda Program: Serving as Academic Officer in Military R&D Units

In this track, the IDF provide a grant to finance tuition for every year of study approved for the completion of a degree. The size of the grant is recalculate each year. During the 2016-2017 academic year it was around NIS 8,500. The grant is deposited in the Atuda student's bank account.

In addition to tuition assistance, the army provides eligible candidates with further scholarships, such as the "100 Club" excellence program, and a living stipend plus psychometric exam scholarship (for more information, see www.mitgaisim.idf.il).

B.Sc. Study Disciplines in the Academic Atuda Track, Lev Campus:

- Software Engineering
- Communications Systems Engineering
- Computer Sciences
- Electro Optics Engineering
- Electrical and Electronic Engineering
- Industrial Engineering and Management

Atuda candidates are selected by the IDF and Lev Academic Center on the basis of the army's needs and the criteria it articulates.

Students admitted to the Atuda program are drafted into the IDF and their service is deferred until they complete their studies.

We recommend that every Atuda candidate defer his military service and study in a yeshiva setting to keep open the option of serving as a Hesder yeshiva or yeshiva Gvoha student in case the IDF Atuda Committee does not admit him.

Registration and Admissions Process

Registration for the Army Atuda at www.mitgaisim.idf.il
Between November and February Register at www.mitgaisim.idf.il
For more information see www.facebook.com/Hatuda.Hakademit/

Registration at Lev Academic Center's website: www.jct.ac.il > Registration > Online Registration
After completing the registration process, applicants must upload all the required documents.

After the documents have been received, applicants will be invited to a personal interview. Acceptance by the Lev Academic Center must receive final IDF approval. **Please note: Failure to submit all the documents noted above will delay the handling of the application.**

Psychometric Exam
Applicants must take the psychometric exam administered by the National Institute for Testing and Evaluation no later than the April exam date. **The psychometric exam score required for the academic Atuda at Lev Academic Center is at least 620 in all departments.**

Receiving an Answer
The final stage and determination of admission to the Atuda program consists of the scores achieved on the personality test, Bagrut exams, and the applicant's personal data. The IDF ranks applicants from high to low and places them in academic disciplines based on its quotas. Only students admitted to an institution of higher education are approved by the army and placed in disciplines of study, pending the receipt of the Bagrut Certificate.

The IDF sends the final approval once the final Bagrut scores are received. This usually occurs in September. Students rejected by the army will stop their studies and receive refunds on the tuition deposit paid. **(Students aware of a problem with Bagrut Certificate eligibility must immediately contact the principal of their high school to resolve the issue urgently.)**

For more information, contact the Meitav Unit's service center:
Abbreviated dialing: *3529 | **Phone:** 03-738-8888 | **Fax:** 03-738-8880

Atidim Project and the Atuda

Outstanding high school graduates from settlement towns and the periphery admitted to the IDF's academic Atuda program and who meet various other criteria may apply to the Atidim Project. Atuda students who are members of the project will receive a living stipend, a personal tutor/mentor, personal computer, and enrichment and social activities.

Such Atuda students will be required to participate in the "Community Involvement" project from their second year of study until they complete their degree. More information is available at the Atidim website at www.atidim.org.

The Haredi Atuda

The Haredi Atuda program is designed for yeshiva students aged 18 to 22 (those aged 23 to 25 may join the program only with special IDF authorization) who, for various reasons, can no longer stay at yeshiva and have decided to attain academic education. The program was constructed because of the many requests received to help yeshiva students who want to stay connected to the world of Torah while also acquiring a profession.

Stage 1: Studying at a pre-academic preparatory program for one year (contingent on the authorization of the IDF's Atudot Division). Financing for the pre-academic mekhina program comes from the Education Ministry, in accordance with ministry criteria.

The final scores in pre-academic preparatory program makes the students eligible for a mekhina diploma, which allows them to be admitted to Lev Academic Center as regular students, provided they meet all the admissions requirements, including the minimum psychometric/TIL Exam score.

Stage 2: Academic studies for an undergraduate degree in engineering or computer sciences, for three or four years, depending on the department, including Jewish learning in the Beit Midrash. The army provides financial assistance of NIS 8,500 for tuition for every academic year as well as other scholarships to eligible applicants based on its criteria. More information is available at Mitgaisim > Atuda Scholarships

Stage 3: Three years of military service, usually working in the profession attained during the Atuda studies, plus **1-3** additional years as career soldiers in the IDF.

Registration for the Haredi Atuda program at the Pre-Academic Mechina Office.

Admissions requirements for the Haredi Atuda

- Torato Umanuto status
- Interview to determine the candidate's suitability to the Lev Academic Center
- Meeting the admissions requirements for an academic preparatory program and/or the academic degree sought

Students who do not successfully complete the preparatory program and are not admitted to the Lev Campus will have to serve in the IDF in the Haredi Nahal program or will have to receive army approval to enter an academization track for Haredi men.

Academization Tracks for Haredim

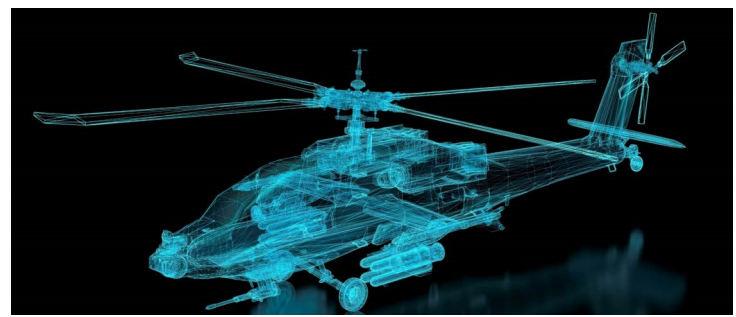
Haredi applicants aged 18 to 22, with Torato Umanoto status, may, pending IDF approval, study for about a year in the pre-academic mekhina.

At the end of their mechina studies, students will apply to undergraduate studies at Lev Academic Center. Should they meet the admissions requirements, they will be admitted to their departments of choice and go on to engage in academic studies and Jewish learning in the Beit Midrash.

The duration of this track (mechina and undergraduate studies) is between 4 and 5 years, depending on the department. At the end of their academic studies, these students enlist in the IDF for three years of military service.

Financing for the pre-academic mechina program comes from the Education Ministry, in accordance with ministry criteria. The application is submitted with help from the pre-academic mechina staff.

Financing for the undergraduate studies is the students' responsibility to financial aid from various foundations assisting the Haredi community acquire academic education. More information is available at the Pre-Academic Mekhina Office.



Undergraduate Studies for English-Speakers*

Lev Campus | Tal Campus

BA in Business Administration, B.Sc. in Computer Sciences

Academic Director: Prof. Abba Engelberg |

Lev Campus: Gabriel Novik | Tal Campus: Bracha Lamm

The program for English-speakers consists of a B.Sc. in computer sciences and a BA in business administration. The opening of any given track is contingent on the enrolment of a minimum number of students.

All students receive individual administrative help with registration, preparing a schedule, tuition payments, and more.

The target audience of the English-speakers' program consists of:

1. High school graduates from English-speaking countries and other high school graduates whose level of English enables them to take academic courses in English;

2. Students who want to study at an academic institution in Israel but who are insufficiently proficient in Hebrew.

Admissions Requirements

- High school diploma
- Mathematics at the 5-unit Bagrut level with a score of at least 70 **or** 4-unit Bagrut level with a score of at least 80.
- Personal interview
- Recommendations from rabbis or teachers
- SAT or similar with a score of at least 550
- Suitability score of at least 79

For more information at the Lev Campus:

Phone:02-675-1011 | **For applicants calling from abroad:**972-2-675-1011

Fax:02-675-1033 |**Email:** esp@jct.ac.il

To be admitted to Lev Academic Center, applicants to the English-speakers' program must meet all the admissions requirements and register for academic studies during the registration period in addition to registering for the program. Candidates must submit all required documents to the program secretariat as specified in this booklet. The Information and Registration Office at Lev Academic Center handles registration and admissions and it will inform applicants and the program secretariat of candidates' application status.

* **Opening a class and offering courses are contingent on the enrolment of a minimum number of students in each of the programs.**

* **Students in the English-speakers' program wishing to study for their degree in Hebrew must take the Hebrew language entrance exam and receive the minimum score required. The handling of their matters will be transferred to the Integrated Academic Program for Foreign Students.**

Combined Academic Program for Foreign Students, New Immigrants, and Tourists

Program Director: Rabbi Michael Sultan
Program Coordinator, Lev Campus: Benjamin Tuito
Program Coordinator, Tal Campus: Devora Ankri

The academic program for foreign students is designed for new immigrants and tourists from all over the world who have a full matriculation certificate, as well as transfer students from abroad who want to complete their degree, on condition they complete Ulpan in Israel or have achieved sufficient Hebrew language proficiency.

Only students in the program who meet all the admissions requirements will be accepted as students. In certain cases, some of the courses in the integrated program are given separately to program participants and taught in easy Hebrew, contingent on the program coordinator's considerations. At the Lev Campus, students in the program will be placed in the regular Jewish learning groups in the Beit Midrash. The program consists of:

- Jewish learning
- Hebrew tutoring
- Tutoring
- Personal attention and help
- Supervision
- Extensive social activities, including tours, organized Shabbbatot, and special events

At the end of our program, most of the graduates elect to stay in Israel and make aliyah.

Admissions Requirements

- Meeting all the requirements of the desired department
- Hebrew language entrance exam (see "Hebrew Proficiency" below)
- Personal interview with the Rosh Metivta of the Beit Midrash/Midrasha
- Psychometric or TIL Exam
- Recommendation from a rabbi or teacher

Hebrew Proficiency

A new immigrant or tourist (regardless of program) wishing to study toward an undergraduate degree must demonstrate previous knowledge of Hebrew and score a minimum grade on the Hebrew language entrance exam.

Hebrew Language Exam

- New immigrants and tourists must take a written Hebrew language entrance exam, based on the discretion of the program coordinator and the students personal data.
- Students who pass the exam are exempt from Ulpan studies.
- Certain students will be required to study Hebrew at a summer or year-round Ulpan, based on the score of the Hebrew language entrance exam and the discretion of the program coordinator.
- At the end of the Ulpan program, students must take another test, which they must pass before being allowed to continue studying at Lev Academic Center.
- The exemption exam is given on the following dates:

  Lev Campus: During Hanukkah and at the end of the academic year.

  Tal Campus: At the end of Elul semester, end of first semester, and end of second semester.
- Students in the English speakers' program wishing to study for an academic degree in Hebrew must sit for the Hebrew language entrance exam and score the minimum grade.

For more information:

Phone: 02-675-1029 | **Email:**frenche@jct.ac.il

Academic Mechina

Lev Campus | Tal Campus | MAHAR Tal
Mechina Director: Assaf Chen | **Mechina Rabbi:** Rabbi David Berliner |
Educational Counselor, Lev Campus: Noam Kedoshim
Coordinator and Educational Counselor, Tal Campus: Noa Tayeb |
Ethiopian Student Coordinator: Adi Yonas

The pre-academic mechina at Lev Academic Center provides students the opportunity to familiarize themselves with the academic studies setting and improve their chances of being admitted to the school. The atmosphere of the mechina studies is friendly and fun, with the mechina staff providing intensive daily help to students. In addition to their studies, mechina students also participate in student life activities held for all Lev Academic Center students.

The pre-academic mechina program is authorized and supervised by the Education Ministry based on a Council for Higher Education decision.

Admissions to the mechina program is contingent on an entrance exam (MEIMAD/psychometric) and a personal interview.

Studies at the pre-academic mechina program are meant to:

- Make it possible for candidates without Bagrut certification to be admitted to academic programs;
- Improve candidates' learning habits and capabilities to meet those needed in an academic setting;
- Provide extensive knowledge of subjects such as mathematics, physics, and English.
- Students who pass the mechina final exams are eligible for mechina certification.
- Suitable mechina students will be given the option of integrating academic courses in their schedules. (Up to two courses per semester.)
- The mechina offers an array of group and individual tutorials.

Registration to the mechina is online using the Lev Academic Center website at www.jct.ac.il.

Subjects available to study in the Mechina

- Mathematics - 4 or 5 units
- English - 4 or 5 units
- Physics - 3 or 5 units
- Computer Applications
- Academic Literacy

Refresher Mechina for Bagrut Holders - Lev Campus and Tal Campus

The refresher mechina is designed for applicants who are eligible for Bagrut certification but do not meet the admissions requirements in mathematics and/or English and who want to improve their chances of being admitted to an undergraduate program at Lev Academic Center. The refresher mechina lasts 12 weeks. At the end of this period, participants are given a final exam at the 4-unit level of the Bagrut exam in mathematics and English. Their final scores will replace their Bagrut scores for the sake of admissions to academic study at Lev Academic Center.

Jewish Learning

The Beit Midrash program for mechina students is designed for young Atuda students (Haredi Atuda, academization, and youth tracks) and consists of Jewish learning during the morning as well as social activities. The mechina rabbi leads and supervises the program.

For other students, Jewish learning in the mechina is optional in coordination with the mekhina directors.

On the Tal Campus, students may accrue credits in Jewish learning at the Midrasha while attending the mechina program. Tal Campus students must take one Jewish learning course a week.

Room and Board

The Lev Campus offers dorm buildings and a dining hall providing lunch most days of the year, including Shabbatot and Jewish holidays. The Tal Campus also offers a dorm option.

Scholarships

The Education Ministry supports pre-academic mechina students who meet certain economic and social criteria. Discharged soldiers who meet these criteria are also eligible for a monthly living stipend from the Defense Ministry. They may also opt to keep the rights provided discharged soldiers in the form of a deposit to finance their academic studies and enjoy the additional aid to pay for tuition as well as room and board.

Studies for Teaching Credentials in Addition to Undergraduate Studies in Conjunction with Herzog College

Students in their final year of the B.Sc. degree in engineering and the sciences **will be able to participate in academic studies for teaching certification in mathematics, computer sciences, and/or life sciences at Herzog College**, acquire advanced teaching skills in the sciences and mathematics, and gain a teacher's certification while training for high-tech employment in a changing labor market that requires employment flexibility.

Teaching provides important abilities in managing and motivating groups of people, as well as psychological insight into others and giving them optimal help.

The combination of these capabilities is an advantage to students hired by high-tech companies when they are required to work in teams and when appointed to management positions.

The program is offered to Lev Academic Center graduates and students in their final year of their B.Sc. **studies as a parallel track and during flexible days and times with broad recognition of the scientific discipline of the undergraduate degree.**

Those interested will acquire professional teaching and education skills and integrate in practical and pedagogic training, based on the understanding that engineers and high-tech personnel are a valuable asset both to the school system and to Israel's high-tech industry.

Academic Studies for Outstanding High School Students

Outstanding high school students have the option of taking several academic courses with special status while still attending high school. After receiving their Bagrut certificate, they will be able to continue as regular students, provided they meet the standard admissions requirements.

Study of these courses will count as credits and ease the first-year load.

High school students interested in registering for courses with the special status should contact the Student Information and Registration Division.

Lev Campus phone: 02-675-1203 | **Tal Campus phone:** 02-654-7208.

Outstanding students must submit a letter of recommendation from their high school principal and a photocopy of the most recent semester report card from their school, as well as verification of the number of units in all Bagrut subjects and the scores of all Bagrut exams they have already taken.

Special Projects for Haredi Students

Haredim Le'atidam: Financing Academic Education for the Haredi Public

The new project of the Joint in conjunction with the Toronto Friends Foundation and the KEMAH Fund allows students who meet certain criteria (from their first year only) to received special scholarships to finance tuition in all departments and monthly living stipends in engineering.

Eligible for this financial aid are students from the Haredi community meeting all project criteria who have completed the pre-academic mechina program and are eligible for a mechina certificate or after completing Bagrut exams independently and are eligible for a Bagrut certificate. Applicants must meet all of the Lev Academic Center's criteria for academic studies.

Lev Academic center does its best to raise funds from a range of sources on behalf of Haredi students at the Lev Campus and in the Naveh Program.

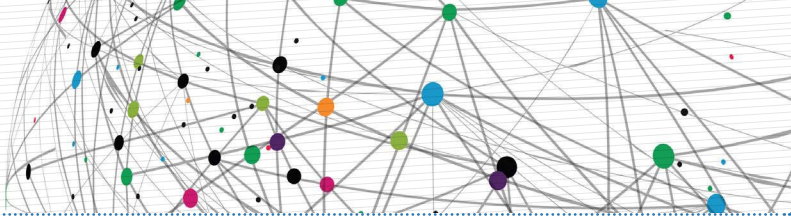
For more information, contact the program coordinator:

Israel Tkach | Phone: 02-675-1194 | **Email:** tkach@jct.ac.il

Programs for Outstanding Students, Scholarships, and Loans - BA

Outstanding Research Students Program

for Undergraduate Students in Engineering, Computer Sciences, and Nursing



Lev Academic Center is a strong believer in encouraging academic excellence in general and research excellence in particular. The two-year research program for outstanding students is led by a Lev Academic Center faculty member and is suited to students enrolled as **full-time, regular** students at Lev Academic Center with an average grade of at least 90%. Regular students may submit their applications to the program from the first semester of their second year of studies.

Program participants receive the following benefits:

- A special scholarship for every year of participation in the program.
- Graduates who participate for four semesters receive a certificate of participation in the excellence program at the end of their course of study.
- Another special excellence grant is given to participants in the program who have had at least one paper about their current research accepted by a peer-reviewed journal or for presentation at a conference after at least a year of participation in the program.

The criteria of selection for the program are (not necessarily in this order):

- an average grade (academic courses only) of at least 90;
- average grade in Torani courses (if applicable);
- Student request to research a certain topic under the guidance of a certain researcher;
- Request of researcher who is also a faculty member at Lev Academic Center to supervise the student;
- Assessment of the research proposal's chances of success;
- The student's and the researcher's campus and department.

A research program will be tailored individually for every student by a faculty member engaged in research and with the program coordinator's approval in addition to the regular curriculum. The program, consisting of 8 weekly hours for the duration of the school year (for a total of 224 hours), will include research activity and self-study of materials not part of the regular curriculum to expand the students' horizons in their field of study.

This research may not be done at an external company or one's place of employment. Similarly, this research does not replace students' final project requirement.

During every year of research, these students must submit 3 reports: a research proposal at the beginning; an interim report; and a final report at the end of the year. The report must receive the approval of the research supervisor and meet academic standards.

To remain in the program, students must maintain an average grade of at least 87 in their academic courses every year and reapply to program every year.

- Lev Academic Center retains the right to make changes to the program and its criteria as it sees fit.
- Failure to submit a progress report in time and/or the research supervisor's lack of satisfaction with the work might lead to a revocation of the scholarship promise or partial/full refund of the scholarship funds.

For more information, contact the program coordinator:

Prof. Avi Rosenfeld | **Email:** rosenfa@jct.ac.il

Scholarships and Loans from the Lev Academic Center

The Lev Academic Center facilitates scholarships, loans, and financial arrangements, both internal and external, based on students' personal situations.

Lev Academic Center provides scholarships and loans to alleviate students' financial burden and allow them to concentrate on their studies in accordance with the school's educational principles. The scholarship program is designed to:

- Encourage excellence and perseverance in Jewish learning and academic studies;
- Foster leadership and social involvement;
- Provide financial assistance.

The array of scholarships offered changes from year to year. The information in this section is therefore valid only for the scholarships we expect to be given in the 2018-2019 academic year. Lev Academic Center retains the right to make changes affecting scholarships.

To receive a scholarship, it is necessary to submit an application. Applying for a scholarship is through the website only, and the deadline is the second week of the first semester. Scholarships are only given to students whose status is designated as "in good standing" on the first day of the semester.

In addition to the school's internal scholarship system, Lev Academic Center helps students access scholarships from outside sources. Thus, students who secure an external scholarship might have their internal scholarship reduced, in accordance with the school scholarship regulations.

Before the start of the new academic year, all newly admitted students receive an informational booklet containing detailed scholarship information.

Scholarships for Beit Midrash Students - Lev Campus

Torah Scholarships, Study Scholarships, and/or Living Stipends

The scholarship is designed for older and/or married students. The scholarship is substantial and covers part of the tuition.

Excellence Scholarships

First Year Excellence

New first year students with admissions criteria of excellence (psychometric score of at least 720 or an average Bagrut score of at least 115) receive a scholarship, almost equivalent to one year's tuition, in their first year of study. Students with an average Bagrut score of at least 112 receive approximately half of one year's tuition. Students may receive this scholarship or the encouragement scholarship.

Research Excellence - see previous page

Encouraging Excellence on Tal Campus

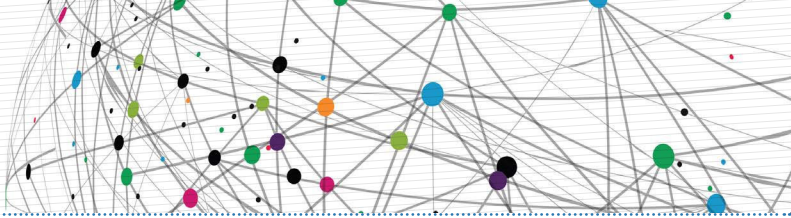
Outstanding students with an average Bagrut score of at least 108 or a psychometric score of at least 640 are eligible. Students must maintain an average grade of at least 85 throughout their course of study at the Tal Campus.

Financial Aid

Financial aid is provided on the basis of financial need, but students' academic standing is also taken into consideration if JCT think the student could benefit from extra help. Half of the aid is a loan and half is a grant.

Scholarships and Loans for Undergraduate Students

Scholarships from External Sources



First year tuition free for discharged soldiers and graduates of national/civilian services programs: The first year of tuition is covered by a scholarship for soldiers who completed their military service and those who completed national/civilian service at any time after October 1, 2012, and are attending Lev Academic Center at a Jerusalem campus.

PERAH: Student mentors received a mentoring scholarship for NIS 5,200, given directly to the students.

Education Ministry scholarship: The Education Ministry provides scholarships to students for all 4 years of their degree studies. The scholarship ranges from NIS 4,000 to NIS 6,000 per year. Students can buy the application form for a symbolic fee at the Student Union during the first semester of school.

Jewish Agency students: The Student Administration provides new immigrant students or students whose parents are new immigrants with tuition scholarships for up to 3 years of undergraduate studies (including a year of study in the mechina program). According Aliyah and Integration Ministry regulations, the scholarship is designated only for tuition and is given regardless of the students' financial or family situation.

Scholarships for students from the Haredi community: The Naveh Program, Lev Campus, works hard to elicit substantial scholarships from various foundations and individuals for studies and living expenses.

Impact Fund scholarships for discharged combat soldiers: The fund, begun by Friends of the IDF in the United States, is meant to support needy soldiers discharged with a combat certificate during the first or second year back in civilian life. The Impact Fund provide $4,000 to each such student for every year of study (up to 4 years). Student receiving an Impact Fund scholarship are required to engage in community service for 4 weekly hours throughout the calendar year.

Mifal Hapais Scholarship Fund for discharged soldiers with preference for combat soldiers: While preference is given to combat soldiers, soldiers in combat support positions are also eligible as are students who have completed two years of national service. **Furthermore, there is special aid for students from disadvantaged economic backgrounds.**

HESEG Foundation for lone soldiers

This charitable foundation was created to provide scholarships to discharged soldiers defined by the IDF as lone soldiers. A HESEG scholarship fully covers tuition for an undergraduate degree and includes a monthly living stipend.

Gross Foundation: A NIS 4,000 scholarship granted as part of a general program to advance disadvantaged areas.

Loans

Lev Academic Center wishes to help its student focus their energies on Torah learning and academic study. To make this happen, the school set up an extensive system of loans given to all students, not only those in financial distress.

The loan system: Most of the loans extended to students on campus are interest-free and not linked to the COL index, and they fully cover tuition. In some cases, the loan exceeds the tuition costs. Lev Academic Center affords very convenient loan repayment plans.

For more information and to submit a loan request, contact the Dead of Students of your campus or speak to your coordinator of the Scholarship and Student Welfare Division.

The IDF's Atuda Division provides special scholarships to students in the academic Atuda program.

The IDF Atuda Division provides a range of scholarships to students in academic Atuda tracks, e.g. The 100 Club Scholarship for Excellence, a living stipend for those meeting certain criteria, scholarships for high psychometric scores, and more.

Academic Atuda students wishing to request a special scholarship must download the appropriate forms from the Mitgaisim website at www.aka.idf.il > Academic Atuda

Further about scholarship information appear in the informational booklet at the Lev Academic Center website www.jct.ac.il >Candidates > Before Studying > Informational Booklet

Student Services

Student Services

Lev Academic Center has a skilled, professional, experienced staff with the desire and ability to help you in every way. Their help and support cover all the academic, administrative, personal, social, and economic facets of student life. As a student who has confirmed your admission to the school, you may contact any of the student service providers via LevNet.

Academic Support and Tutoring for Students

Lev Academic Center makes a system of tutorials and help available to students so that undergraduate can develop the skills and abilities to understand and delve into the materials taught in the academic courses.

Tutorials are given both to groups and to individuals for a period of about a month before the exam period. We recommend you contact the first year coordinator or Dean of Students at each campus for more details.

Academic Support and Tutoring for Students

Lev Campus and Tal Campus offer dorms and other services to benefit students. We recommend that single students at Lev Campus live in the dorm to afford them a Torani atmosphere, participating in morning minyan, immediately followed by halakha study with the Rosh Metivta. The labs are open until late at night to allows students to progress with their academic studies.

As befits a Torani educational institution, all dorm residents must commit themselves to leading a religious way of life. There rules appear in the dorm regulations students sign when they register.

Dormitory Fees for Singles:

Dorm fees are between NIS 7,500 and NIS 9,800 per year, depending on the type of dorm or apartment.

Dorm registration is done on the dorm website of Lev Academic Center and is possible only after applicants have been admitted to the school.

Dormitories for Married Students

Lev Campus of Lev Academic Center has dorm facilities for married couples. Preference is given to couples when both partners are students at Lev Academic Center, in accordance with the dorm regulations for married couples. Information on dorm facilities for married couples appears on the dorm website.

More information at the dorm offices, phone: 02-675-1125 |

Email: meonot@jct.ac.il

Due to the large demand for dorm space, the dorm administrators work hard to help everyone.

The number of places in the dorm is limited. It is therefore necessary to register and pay a dorm deposit as soon as possible.

Student Welfare

Lev Academic Center and the Student Union at every campus work on behalf of the students' welfare and enrich their campus experience, placing emphasis on creating a warm, vibrant atmosphere, inspiring a sense of social commitment, and fostering pro-active student engagement.

Services and Activities

- Secure and filtered internet service
- Personal information service at LevNet
- Online information app
- Site for cooperative learning
- Newsletter
- Academic studies online
- Extensive international book collection
- Academic and employment guidance
- Academic mentoring, tutoring, and remedial teaching
- Educational evaluation and subsidy and academic adjustments
- Assistance to new immigrants
- Benefits and assistance to active reservists

Student Welfare

- Active Beit Midrash
- Interest-free, non-linked scholarships and loans and tuition payment arrangements
- State-of-the-art fitness room, mikva, and activities club (Lev Campus)
- Benefits at various commercial establishments
- Reduced-price cafeterias
- Diverse events and activities (weekend getaways, tours, hikes, sports competitions and tournaments, cultural activities)
- Volunteering and community involvement

The Job Placement and Career Management Center

The Job Placement and Career Management Center was established to help students and graduates integrate rapidly and optimally in the workforce as employees in leading companies.

To promote this goal, the center nurtures relationships with large industry leaders offering highly desirable positions, advertises competitive jobs, helps students prepare for job interviews, and helps students and graduates cultivate a competitive edge by providing them with the most up-to-date skills to get hired in today's highly competitive job market.

Positions are offered both to students still at school to help them gain valuable preliminary employment experience and to graduates seeking to put their academic training into practice in a suitable setting.

Placement and Guidance Services

The placement division offers many diverse positions to students and graduates via the internet, in the division's candidate base in the computerized data system, on the Lev Academic Center Facebook page, and by individual contact through departments and programs.

The Guidance Center's activities are open to all students on all campuses, as follows:

- **The Ready-Set-Go model for employment guidance** is based on a plan consisting of 3 stages - orientation, guidance, and modus operandi.

  Presenting the various options in the workplace, building a personal career plan, and getting to know the skills students need to attain the objective as well as providing them with the tools to acquire those skills.
- **Workshops and lectures** on important steps, such as writing a good resume, preparing for a job interview, preparing for an evaluation center meeting, marketing oneself, constructing a good LinkedIn profile, and others as needed.
- **Spotlight days** when companies come to the school to recruit students and graduates on campus by holding focused interviews and giving presentations of the companies.
- **Posting job openings**: Information on employment opportunities is posted on the center's many channels, including LevNet (at www.jct.ac.il), Facebook (Campus Lev Campus Tal), LinkedIn (JCT Career Services), and email, and the school also submits resumes directly to companies.
- **Early placement**: Early recruitment by companies screening potential candidates for particular job openings.
- **Company tours**: The school arranges tours of companies so that students may get to know them and be introduced to their HR departments.
- **Annual job fairs**: Leading hi-tech companies come to the campus to recruit prospective employees.
- **Industry conferences**: The College participates in professional conferences and symposia to network with industry leaders and collaborate with potential employers.

For further information about the Job Placement Center:

Phone: 02-675-1063 | **Email:** hasama@jct.ac.il

LinkedIn:JCT Career Services

The Jerusalem College of Technology (JCT) EN

Lev Academic Center is one of the largest academic institution in Jerusalem. It is fully accredited by Israel's Council of Higher Education and specializes in high-tech engineering, computer science, industrial management and health sciences combined with a Jewish studies program. JCT's mission is to produce leaders who are strongly committed to Israel, to Jerusalem and to Jewish values.

Over its nearly 50 years of operation, JCT has contributed to Israel, in general, and Jerusalem, in particular, both by producing high quality engineering and management professionals and by enhancing employment opportunities. JCT graduates have established over 100 companies, including some of Jerusalem's most successful start-ups. The Academic Center plays a leading role in developing Israel's economic infrastructure, in general, and that of Jerusalem in particular.

Religious Studies – Beit Midrash / Midrasha

The Beit Midrash embodies the principles upon which the Jerusalem College of Technology – Machon Lev, is built – the centrality of day to day Jewish learning within our everyday life. The scope of the Jewish learning which takes place here ranges from Talmud, Bible, Practical Halacha, to Mussar, Torah & Science and Jewish Business Ethics.

From the early morning hours until late at night, students can be found in the Beit Midrash for prayers or engaged in Talmudic discourse. The Beit Midrash is filled during the morning hours with chevruta learning and shiurim in order to instill within our students the values they will require when entering the professional world. It is from this daily learning that our students draw their commitment to Israel and the Jewish people.

Degree Certifications

- Electro-Optics Engineering (B.Sc.)
- Software Engineering (B.Sc.)
- Computer Sciences (BSc)
- Accounting and Information Systems (B.A.)
- Bioinformatics (B.Sc.)
- Business Administration (B.A. & M.B.A.)
- Electronics Engineering (B.Sc.)
- Industrial Engineering and Management (B.Sc.)
- Nursing (B.S.N. & M.S.N.)
- Telecommunication Systems Engineering (M.Sc.)

The International Program in English offers a B.A. in Business Administration and a B.Sc. in Computer Science. Opening of each class is contingent on the number of students registered.

JCT's pioneer International Program is the only fully accredited undergraduate program offered in English in Jerusalem.

The International Program in English

B.Sc. in Computer Science Lev Campus & Tal Campus
B.A. in Business Administration Lev Campus

Academic Director: Professor Abba Engelberg | **Program Coordinator:** Mr. Gavriel Novick

This competitive program offers young, non-fluent Hebrew speaking men and women viable opportunity to live and study Torah in Israel while pursuing a prestigious academic degree in Computer Sciences or Business Administration. On par with JCT's Hebrew speaking programs, the International Program offers a comprehensive double curriculum that combines high level academic studies, enriching Jewish studies and practical professional training. Following three critically formative and intensive years of study, students emerge prepared not only to embark on successful career paths but also thriving life paths that maintain an abiding fidelity to Torah and Israel.

In addition to JCT's highly respected nationwide reputation which helps open doors for new graduates, dedicated College staff also make personal efforts to introduce students to potential employers through a wide network of alumni and professional connections which often lead to key entry opportunities in their fields.

Students receive personalized assistance during the administrative process including registration, selection of courses, payment and more.

The targeted students for the program are:

1. Alumni of high schools in English speaking countries or alumni of other high schools who have proficiency in English enabling them to study in English.
2. Students who Hebrew want to study in Israel but are not proficient enough in the language to study in Hebrew.

Requirements for Acceptance:

- Certificate of completion of high school
- Math skills on the level of 5 points on the Bagrut with a grade of 70 or above or 4 points on the Bagrut with a grade of 80 or above
- Personal interview
- Recommendations from rabbis or teachers
- SAT scores or a Til exam with a score of 550 or above
- A matching grade of 79 or above

Phone: 02-6751011

For calling from outside of Israel: 972-2-6751011

Fax: 02-6751033 | **Email:** esp@jct.ac.il

PROGRAMME ACADEMIQUE *MESHULEVET* POUR LES ETUDIANTS ETRANGERS, TOURISTES ET NOUVEAUX IMMIGRANTS

Directeur Du Département des étudiants étrangers: Rav Michael Sultan
Directeur des programmes étudiants étrangers au Mahon Lev et Tal: Mr Benjamin Touati

FR

Le *Merkaz Academi Lev* est un centre académique unique au monde qui permet à ses étudiants d'obtenir des diplômes universitaires de haut niveau tout en approfondissant leur étude de la *Torah.*

Voici les sections d'études proposées*:

Département Scientifique:

- Diplôme d'ingénieur en complément d'une licence (B.Sc)
- Informatique
- Bio-informatique
- Electro-optique
- Génie industriel
- Electronique

Département Entreprise:

- Business et management
- Marketing technologique
- Expertise comptable

Département Paramédical:

- Obtention d'un diplôme d'infirmier en collaboration avec l'hôpital *Shaarei Tsedek* de Jérusalem.

* Les diverses sections peuvent être modifiées selon le nombre de participants.

Le programme académique pour les étudiants étrangers s'adresse aux nouveaux immigrants issus de divers pays titulaires d'un baccalauréat ainsi qu'aux étudiants étrangers n'ayant pu achever leurs études académiques dans leur pays d'origine, à condition qu'ils aient suivi un *Oulpan* en Israël ou bien acquis une connaissance suffisante de la langue hébraïque pour le niveau académique exigé.

Dans certains cas et selon la nécessité, une partie des cours du programme *Meshulevet* est dispensée en petits groupes dans un hébreu facile**.**
Au *Mahon Lev*, les étudiants suivent des cours de *Kodesh* au sein du *Beit Hamidrash.*

Le programme comprend:
Des études de *Kodesh*–

- Un renforcement dans la langue hébraïque
- Des cours de soutien
- Un accompagnement et un suivi individuel
- Des activités extra-scolaires: excursions, événements, shabbatot organisés…

A la fin de leurs études, la plupart de nos étudiants envisagent de faire la *Alya.*

CONDITIONS D'ADMISSION

- Conformité à toutes les conditions d'admission selon les études envisagées
- Examen d'entrée en hébreu *Til ou Yael*
- Entretien individuel avec le responsable du *Beit Hamidrash* ou de la *Midrasha*
- Examen des psychométriques ou psychotechniques
- Lettre de recommandation d'un *Rav* ou éducateur

EXAMEN D'ENTREE EN HEBREU

- Tout touriste ou nouvel immigrant souhaitant s'inscrire en Licence est soumis à un examen d'entrée à l'écrit qui sera validé par le directeur du programme
- En fonction de leurs résultats, les étudiants peuvent être exemptés du cours d'*Oulpan* ou bien astreints à un *Oulpan* d'été et/ou annuel d'après un barème
- A la fin de l'*Oulpan* a lieu un test de niveau d'hébreu qui déterminera si l'étudiant peut poursuivre ses études au sein du Centre Académique Lev.

Les examens de dispense d'hébreu ont lieu:

Au *Mahon Lev*: A *Hanouka* et à la fin de l'année scolaire

Au *Mahon Tal*: A la fin du semestre du mois de *Elloul* ainsi qu'à la fin des 1er et 2nd semestres.

- Les étudiants des programmes anglophones intéressés par une licence académique en hébreu doivent également se soumettre à examen d'entrée à l'écrit qui sera validé d'après Conformément à un barème.

Pour plus d'informations:

french@jct.ac.il | bintouati@gmail.com | 02-6751029

ANNEE PREPARATOIRE - MEHINAT PREPA LEV

En partenariat avec Masa

Ce programme permet d'intégrer au mieux par la suite les facultés de l'Ecole Supérieure de Technologie de Jérusalem.

Il s'agit d'un programme destiné aux bacheliers francophones qui est essentiel pour une bonne intégration en Israël.

Celui-ci est concentré et regroupe des cours universitaires d'anglais, d'hébreu (*Oulpan* intensif), de mathématiques, d'informatique ainsi qu'un stage intensif de préparation aux examens de psychométrie.

Les étudiants étudient du *Kodesh* le matin, encadrés par des *Rabbanim* francophones.

Les après-midi quant à eux sont destinés aux études académiques.

Au cours de l'année, les élèves peuvent déjà valider des matières de première année.

Le *Mahon Lev* accueille des milliers d'étudiants et leur offre les outils nécessaires pour réussir dans le strict respect de la tradition: *Beit Midrash*, synagogues, salles d'informatique, amphithéâtres, laboratoires modernes, bibliothèques, terrains de sport, salles de sport...

Cette année prépatoire offre également un programme éducatif extra-académique très riche avec des excursions dans tout le pays, cours de soutien, shabbatot organisés, formations…

Ce programme inclut :

Des cours d'hébreu intensif–

- Une préparation à l'examen des psychométriques

Des UV académiques de 1ere année: mathématiques et informatique–

- Des cours de *Kodesh*
- Des cours d'anglais
- Des sessions sur l'Histoire moderne, l'actualité, la politique, la société israélienne
- Des cours de soutien
- Un programme éducatif supplémentaire: excursions, séminaires, formations…
- L'hébergement en chambre double
- Le petit-déjeuner

Conditions d'admission:

Bac S, ES (ou STMG pour Faculté de Gestion)*
Forte motivation pour les études
Bon niveau d'anglais
Entretien

*A l'issue du programme, les étudiants peuvent choisir parmi les filières proposées selon les résultats obtenus.

Pour plus d'informations:

french@jct.ac.il | bintouati@gmail.com | 02-6751029

LA VIE QUOTIDIENNE

LE *BEIT HAMIDRASH*

L'étude de la Torah est l'âme du *Mahon Lev* pour lequel il est essentiel d'allier l'excellence d'une formation professionnelle à l'épanouissement spirituel.
Les cours sont dispensés comme dans une *Yeshiva* et l'étude se déroule avec des *Rabbanim,* tous issus des plus grandes *Yeshivot* d'Israël. Les élèves bénéficient ainsi des connaissances et de l'expérience de leurs *Rabbanim* qui leur offrent soutien et conseils.
Les étudiants étrangers quant à eux peuvent suivre une partie des cours dans leur langue maternelle.

ACTIVITES EXTRA-SCOLAIRES

Des activités organisées régulièrement durant l'année permettent de renforcer les élèves dans leurs connaissances de la société israélienne et du pays en général.
Elles favorisent la pratique de l'hébreu et l'épanouissement de chacun ainsi qu'un esprit de camaraderie indispensable à une bonne intégration et à un sentiment d'appartenance.

Ces activités obligatoires consistent en:

- Des shabbatot organisés
- Des excursions dans le pays
- Des séminaires et formations diverses
- Des activités sportives
- Des soirées à thèmes
- Des conférences sur des sujets d'actualité
- Des rencontres avec des personnalités israéliennes

HEBERGEMENT SUR LE CAMPUS LEV

L'hébergement en internat est proposé à tous les étudiants.
Situé dans le quartier de *Guivat Mordehai* à Jérusalem, il est situé à proximité de nombreuses lignes d'autobus permettant de rejoindre le centre-ville en quelques minutes.
Par ailleurs, les étudiants peuvent également s'inscrire à l'année au restaurant universitaire et disposent de cafeterias se trouvant au sein du campus.
Enfin, des responsables qui logent dans chaque internat sont chargés de résoudre tout problème technique et de répondre aux besoins des étudiants.


המרכז האקדמי לב

Lists