

Summer Program in Electrical Engineering For Outstanding Postgraduate and Senior Undergraduate Students

Full Scholarship for outstanding candidates from China!
July 31 – August 30, 2013



The summer program allows students to create a rigorous academic experience that combines 1 or 2 advanced courses with an exciting social and cultural program at Israel's finest department of electrical engineering. The program centers around two core courses, both of which carry 3 academic credits and is taught by Technion EE esteemed faculty:

Image Processing and Analysis

a fundamental course in digital image processing theory exploring the basic tools for processing and restoring of gray-level images. The course covers basic aspects of loss-less/lossy image compression and the use of transformation in image processing as well as a range of related topics.

Taught by Prof. Israel Cohen

Introduction to Machine Learning

students investigate artificial intelligence and control, neural networks and multi-level perceptrons and radial basis functions, elements of learning theory, dimensionality, decision trees, and more. **Taught by Prof. Koby Crammer**

Students may also take an academic course focused on Israeli culture and history, including a brief introduction to the Hebrew language. Technion will also offer courses in different fields of science and engineering including: **Nonnegative Matrices – Theory and Applications** (Mathematics), **Distributed Space Systems** (Aerospace Engineering), **Principles of Guidance and Homing** (Aerospace Engineering) & **Theoretical Tribology** (Mechanical Engineering)

For further information please contact:

Tel. +972-4-8293325, Email: yaely@int.technion.ac.il, www.ise.technion.ac.il



Social and Cultural Activities

Students participate in industry visits and trips to Israel's tourist attractions as well as leading companies, start-ups and investment companies to explore Israel's unique entrepreneurial economy. On campus, students get to meet Technion faculty, visit laboratories, and engage with lunchtime speakers providing in-depth exposure to Israeli and Middle Eastern culture and history. On-campus social activities are led by Technion International's experienced student guides.

Housing & Facilities

Students are housed in campus dorms. Each room in a 3-bedroom apartment accommodates 2 students, and each apartment offers a shared kitchen and bathroom. Students have access to Technion's excellent facilities that include 3 swimming pools (one Olympic-sized), gym, tennis and squash courts, movie theatre, over 20 cafeterias, a pub, and laboratories as required.

Admissions & Cost

Excellent undergraduate and graduate students (BSc, B-TECH, MSc, PhD) are invited to apply: Application forms can be found at:
www.ise.technion.ac.il/summerschool_china_application

Submit your application form together with your university transcripts, CV, and one letter of recommendation. The minimum required grade point average is 80. Acceptance to each academic course is dependent on approval of pre-requisites by Technion faculty.

Under a unique Israeli Government Sponsorship, excellent students from China will receive a scholarship covering full tuition costs for the program, including housing in Technion's international village dormitories, daily lunch at a Technion cafeteria (5 days a week) and a monthly allowance of \$250. For additional information:
yaely@int.technion.ac.il



Technion – Israel Institute of Technology

Technion — Israel Institute of Technology is Israel's premier center of science and technology education and applied research. Founded in 1912, Technion is Israel's oldest university and is home to a superb faculty including three Nobel Laureates, 13,000 students, 18 faculties and more than 40 research institutes. Ranked among the world's top 50 technological universities by Shanghai Jiao Tong University's prestigious Academic Ranking of World Universities (ARWU), Technion is home to one of the globe's leading faculties of electrical engineering.

Faculty of Electrical Engineering

Technion's Faculty of Electrical Engineering is ranked among the "top 10" Electrical Engineering and Computer Science departments in the world. It is Israel's major training ground for engineers who lead the development of advanced technology in the fields of electronics, computers, and communications.

The Faculty acts as a center of excellence in applied and theoretical research, contributing to the advancement of knowledge in electrical and computer engineering in Israel and throughout the world. Its pursuits constitute an important facet of the technological and scientific infrastructure of the State of Israel. Some 2,000 undergraduate students study in the department for a BSc degree in electrical engineering / computer engineering / computer and software engineering, and 400 graduate students study for the higher degrees of MSc and PhD. The department has extensive relations with industry as well as academic and special industrial liaison support programs. Faculty members are also active in several interdisciplinary research centers of excellence, such as the Lorry I. Lokey Interdisciplinary Center for Life Sciences and Engineering, the Russell Berrie Nanotechnology Institute, and the Grand Technion Energy Program.



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