Dream it. Do it.

Spend your summer at one of the world’s leading institutes for Innovation in Science & Technology

Technion’s Summer School in Engineering & Science offers an academic experience at Israel’s oldest university and premier center for science, technology and applied research.

Students may enroll in one advanced course chosen from a variety of engineering and science fields, and one academic course on Israeli culture. These advanced courses are taught by Technion’s top level faculty in English at cutting-edge facilities. Upon successful completion of the program, students will receive 4-5 Technion academic credits. The program includes social activities and sightseeing tours around Israel.

Summer School courses:

**Computer Science/Physics/Mathematics/Electrical Engineering**

*Advanced Topics in Quantum Information*
Prerequisites for Advanced topics in quantum information and computing.

**Electrical Engineering/Computer Science**

*Image Processing and Analysis*
Explore the basic tools for processing and restoring of gray-level images, discuss the basic aspects of lossless/lossy image compression and the use of neural networks and deep learning in image pattern classification.

*Introduction to Machine Learning*
An introductory course on learning systems in the context of Signal processing, Artificial intelligence and control, Regression and clustering, Neural Networks and more.

**Architecture**

*Landscape and Environment*
This course involves an approach to planning the physical sphere, with an emphasis on ecological, cultural and social aspects.

**Chemistry**

*Advanced Inorganic Chemistry*
Fundamentals of inorganic and organometallic chemistry and the impact on catalytic processes.

**Education in Science and Technology**

*The Web as a Learning Environment*
Students will be acquainted with state-of-the-art innovations in digital learning and advanced cloud-based pedagogy from the university that was ranked 1st worldwide for Digital Education.

Academic Classes: August 4-26, 2020
Registration: December 1, 2019 – April 1, 2020

Apply before March 13th to receive the Early-Bird Scholarship; See Admissions & Costs for details: https://int.technion.ac.il/

Opening of the program is contingent on the number of registered students. The program is subject to changes, at the discretion of TI.

For more information: summer@int.technion.ac.il

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