



Transdisciplinary
Innovation
Program

הפקולטה למתמטיקה ולמדעי הטבע

The Hebrew University of Jerusalem האוניברסיטה העברית בירושלים



<http://www.transdisciplinary-innovation.com>

Introduction

The Hebrew University is a prime research institute, with superb human capital, standing at the forefront of Israel's highest achievements in a wide range of disciplines. The University's variety of expertise has the potential to pioneer an integrated approach to research and development and to drive innovation and develop ground breaking technologies.

Jerusalem, home of the Hebrew University, is also the home of a rapidly evolving community of entrepreneurs, engineers, developers and investors staking its claim as the Capital of the Start Up Nation.

The Transdisciplinary Innovation Program aims to integrate the knowledge and human capital of academia and industry in Jerusalem, in order to inspire and empower leaders to apply transdisciplinary knowledge for the next generation of innovative ideas.

Transdisciplinary Innovation Program- Summer 2015

The Trans-disciplinary Innovation Program (TIP) is an intense educational experience that integrates Hebrew University's world class curriculum in computer vision, big-data/cyber and bioengineering, with an entrepreneurship track bringing the best of the startup nation spirit. Participants will have the opportunity to work in heterogeneous teams on real ventures, under the mentorship of leading scientists and entrepreneurs, and to pitch final project ideas to investors. The program further offers an unprecedented opportunity to personally interact with Nobel Laureates.

Program Structure

The 10 weeks program will include 4 stages:

1. Education (5 weeks): transdisciplinary curriculum, combining 4 main topics- **computer vision, cyber/ big data, bioengineering and entrepreneurship**. Includes lectures and meetings with leading people from academia and industry, hands- on workshops and site- visits.
2. Inspiration (1 week): World Science Conference Israel 2015, held in E.J. Safra campus, offers a unique opportunity to interact with **20 Nobel Laureates** and many more promising scientists.
3. Team Projects (3 weeks): participants will work in small teams in order **to innovate and solve real-world problems**, under the mentorship of scientists and industry leaders.
4. Presentation (1 week): In the final week, the teams will prepare to the final event, in which they will **pitch their idea** to a panel of investors.



weeks



week



weeks



week

World Science Conference Israel

[The World Science Conference – Israel \(WSCi\)](#) will be held on August 15th -20th, 2015 in Jerusalem. This new scientific undertaking will bring together the scientific leaders of the day, together with 300 leading scientists of the future, including TIP's participants. In this five-day international gathering, twenty Nobel Laureates and other leading scientists will present current developments and future directions in their fields and address the major issues of our time. This inspiring event is unprecedented in both the bridging of disciplines and outreach to young students. Programs' components will include: lectures (plenary and parallel sessions), interviews, where Nobel Laureates will participate in 3-on-1 interviews with selected participants and an evening of creative thinking.



Final Event

The final event, taking place on September 10th, will host around 150 members of the tech and entrepreneurship community of Jerusalem and Israel.

Guests will be the first to see TIP teams' innovative projects, as they present them to a panel of investors and judges and later, will be able to interact with team as they present their projects in booths. The keynote speech will be delivered by Prof. Amnon Shashua, faculty member of the School for Computer Science and Engineering and Co- founder, Chairman and CTO of Mobileye and OrCam.



partnerships

We aim to establish a wide range of partnerships, mainly for students outreach, marketing and content contribution. The main collaborations include:



We cooperate with the Hebrew University Community and Youth Authority on two levels: using their international networks of students' recruitment and the participation in the World Science Conference.



Innovation Warehouse provides co- working spaces and community for entrepreneurs in London. Partnership includes cooperation in building the curriculum of the entrepreneurship track, as well as workshops to be given by I.W. team during the first stage of the program.



JVP (Jerusalem Venture Partners) representatives are members of TIP Steering Committee, consulting and assisting in all levels- marketing, outreach, curriculum, final event etc.



SifTech is a hands-on startup accelerator, located in the JVP Media Quarter in Jerusalem. SifTech team is in charge of the 3rd stage of the program - team projects - including building an acceleration curriculum of practical training and connection with mentors.



Startup Nation Central creates a data- base of Israel's Startup scene and helps corporates, entrepreneurs and governments with finding new partnerships and connections. Collaboration includes cooperating in the planning and execution of site visits during the 1st stage of the program.



The Israel-Asia Center is an independent, non-profit organization dedicated to building a shared future between Israel and Asia. Collaboration includes the outreach program.



Collaboration with the Bloomfield Science Museum will include access to their mechanical workshops during team projects stage.



Medinol is a leading company in the field of BioTech, dedicated to the science of cardiovascular intervention. Collaboration includes a visit in the lab and headquarters and a day of lectures organized by the company.



Evogene is a plant genomic company, collaborating in the bioengineering track. Collaboration includes a visit in the lab and headquarters and a day of lectures organized by the company