

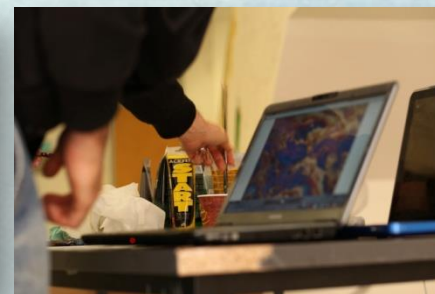
Erasmus + International Credit Mobility Program (KA 107 Cooperation)

University of Innsbruck & Holon Institute of Technology





HIT - Holon Institute of Technology



מכון טכנולוגי חולון
Holon Institute of Technology
Quality & Excellence

HIT – Overview

- Founded in 1969
- Fully accredited by the Israeli Council for Higher Education as an independent public institute
- Granting undergraduate (bachelor's degree) and graduate (master's degree) in five major disciplines (faculties)
 - **Engineering**
 - **Exact Sciences**
 - **Design**
 - **Technology Management**
 - **Instructional Technologies**



HIT – Objectives

HIT is committed to:

- Pursuit of knowledge
- Innovation
- Promoting multidisciplinary excellence
- Social responsibility and commitment to the environment, community and the industry



HIT – Objectives

HIT vigorously pursues these objectives by:

- Aspiring towards excellence, both in teaching and research
- Maintaining highly-regarded academic faculty staff deeply involved in applied research in the industry
- Fostering relations with academia, research institutes and the industry
- Promoting and advancing equal opportunities in higher education



HIT – Industry Oriented Education

- Training students to become:
 - Open-minded
 - Highly professional
 - Top level personnel
 - With a strong research-oriented technological education
- Optimal environment and conditions for innovation and creativity
- Inspired by new technological ideas and providing the industry with the most updated answers to the real-life challenges



HIT – Selected Research Centers and Labs

We Initiate Innovation:

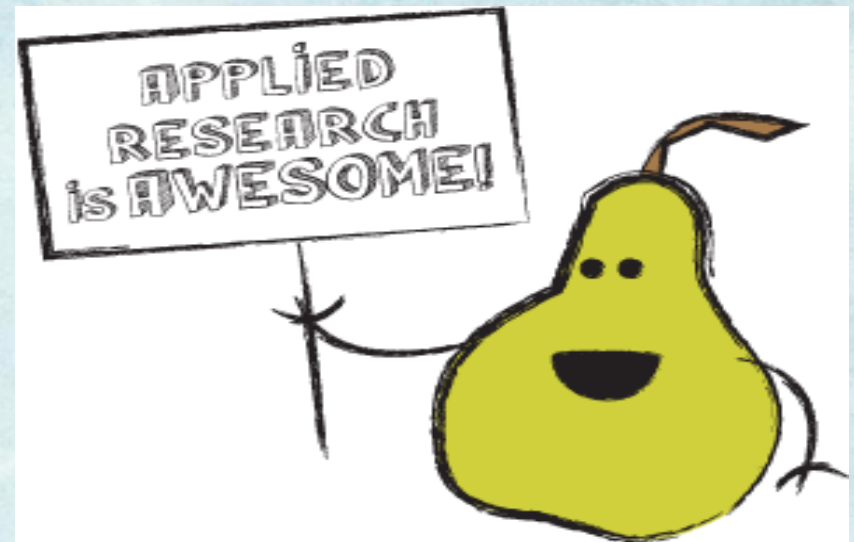
- Nano-materials and Nano-technology
- **M³IC** – Multimodal huMan Machine Interfaces
- Digital Health
- Assisting Technologies
- Gamification and Location Based Learning
- Cyber Security
- Antenna and Radiation
- Renewable Energies and Smart Grid
- Photonics and Electro-optic Communication



HIT – Selected Research Centers and Labs

Innovative applied multidisciplinary and intra-disciplinary research centers & labs:

- **CARE** - Center for Applied technological Research for the Elderly
- **MADE** - Multidisciplinary Assistive Design and Engineering lab
- **DIGITAL HEALTH LAB** – health informatics, eHealth & mHealth
- **CYBER CENTER**
- **NON-INVASIVE BCI LAB**
- **SAR LAB**



HIT – R&D Collaboration with the Industry

- Intel Israel
- Motorola Solutions
- Samsung
- IAI – Israel Aerospace Industries
- ECI Telecom
- Elbit
- Israel Electric Corporation
- Sapiens
- Medical Centers – Sheba Rehabilitation Hospital, Assaf-Harofe, Wolfson, Sourasky (Ichilov), Mazor (mental health)
- Community Medicine - Clalit and Maccabi Health Funds
- Merck (MSD)



HIT – R&D Collaboration with the Industry

- Keter Home Industries (Keter Plastics)
- Negev Ceramics
- Shilav Industries – Tiny Love (Products and Toys for Babies)
- EI-AI
- Hogla-Kimberly
- Keren Kayemeth Lelsrael (Jewish National Fund) – recycling pruned branches in forests
- Yad-Vashem (World Center for Holocaust Research, Documentation, Education and Commemoration)
- Golan Heights Wineries
- Holon Museum for Design
- Municipalities, BCI startups and more...



HIT – Multi-Lateral R&D Projects

- **BSF - Israel-USA Research Grants**
- **GIF – Israel-Germany Research Grants**
- **Other Bi-national R&D Grants: Israel-Italy, Israel-Korea, Israel-France, Israel-Japan, Israel-Russia**
- **FP6-7**
- **Horizon 2020**
- **National R&D Grants**



University of Innsbruck Facts & Figures

- **Founded in 1669**
- **28.560 students; 4.631 staff**
- **16 faculties; 79 departments**
- **125 study programmes**
- **Approx. 4.000 degrees awarded/year**
- **Approx. 4.000 lectures/semester**
- **3.710 publications p.a.**
(1.222 Web of Science)
- **65 buildings throughout the city**
- **More than 25 spin-offs and holdings**



University of Innsbruck Facts & Figures

Faculties:

Architecture
Biology
Chemistry and Pharmacy
Economics and Statistics
Education
Engineering Science
Geo- and Atmospheric Sciences
Humanities I (Philosophy and History)
Humanities II (Language and Literature)
Law
Mathematics, Computer Science and Physics
Psychology and Sport Science
School of Management
School of Catholic Theology
School of Education
School of Political Science and Sociology

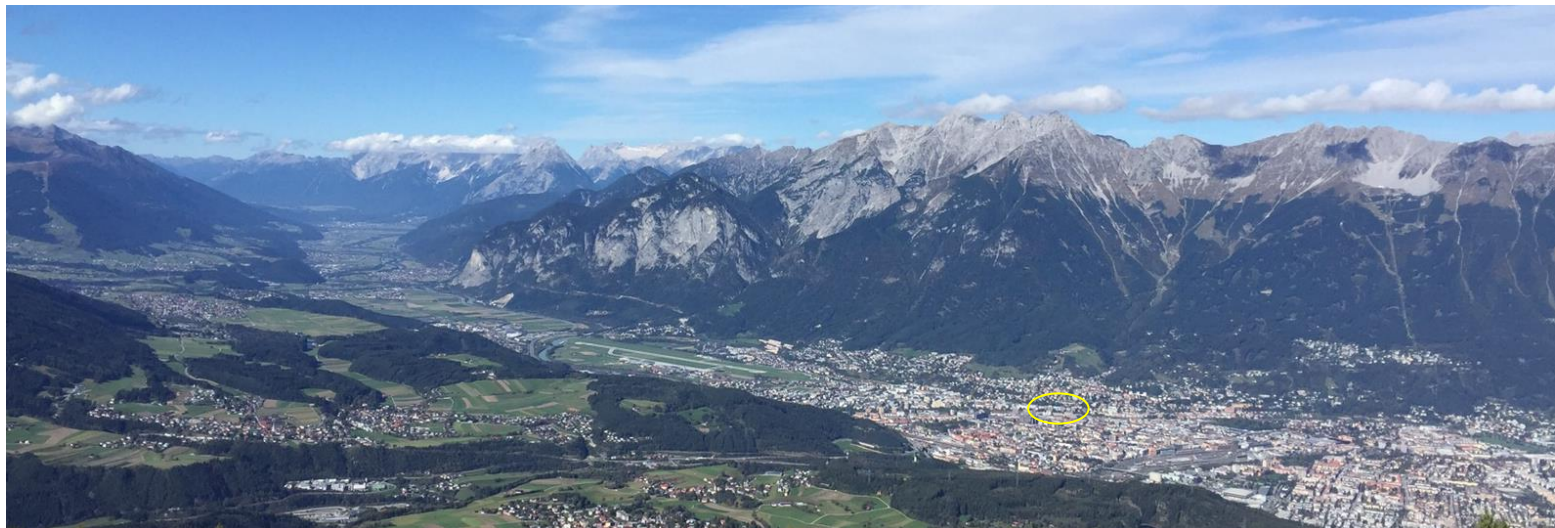


Excellence in Teaching and Research

- 5 major research areas:
Alpine Space
Cultural Encounters – Cultural Conflicts
Center for Molecular Biosciences
Physics
Scientific Computing
- Additionally, there are almost 40 Research Centers and 4 interdisciplinary Research Platforms with various faculties collaborating. They promote networks and improve the international visibility of first class research.



Full university with a comprehensive portfolio



Embedded in a unique environment



**AIANI - A Research Network to Promote
Academic Exchange and Research
Collaboration between
the University of Innsbruck and
Israeli Universities and Research Institutions**

- ❖ Established in 2013 as first of its kind in Austria
- ❖ Office within the International Services of the UoI
- ❖ Outside funding

Main Initiatives:

AIANI Guest Professorship (former AIANI Guest Scientist Program)

AIANI Fellowship Program

AIANI Grant Program

AIANI Guest Professors and AIANI Fellows

- One month research and teaching stays for Guest Professors and Fellows from Israeli universities and research institutions
- Guests from the following HEI so far:
 - ❖ The Weizmann Institute of Science
 - ❖ The Hebrew University of Jerusalem
 - ❖ University of Haifa
 - ❖ Tel Aviv University
 - ❖ Ben-Gurion University of the Negev
 - ❖ Beit Berl College
 - ❖ COMAS – College of Management Academic Studies
 - ❖ Bezalel Academy of Art and Design
 - ❖ Technion

AIANI Guest Lectures



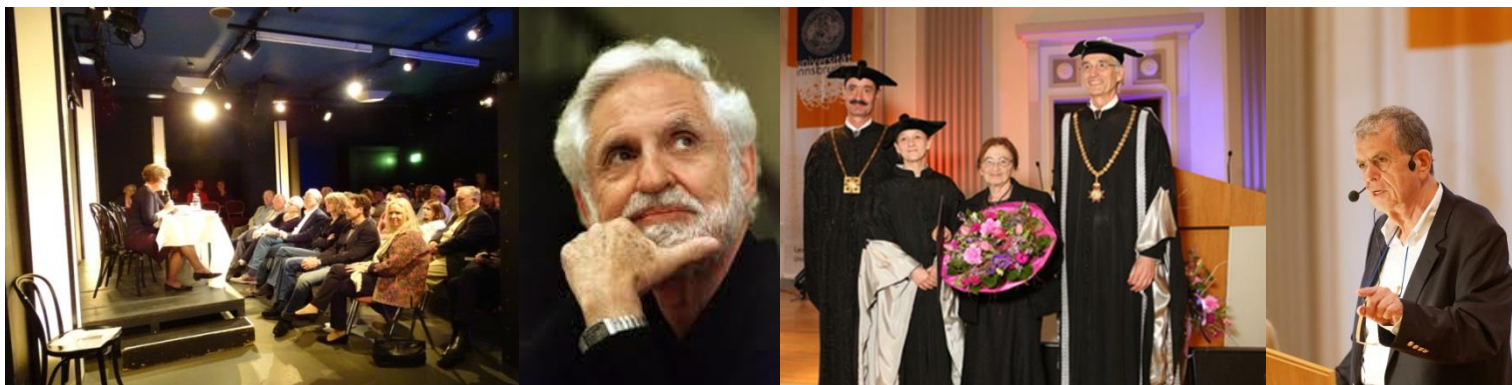
**Regular Public Guest Lectures by our AIANI Guest Professors, AIANI Fellows
and other distinguished guests –
highly appreciated by the entire university community and the general public!**

AIANI for Students



Helping students to enroll in exchange and summer programs, conferences, excursions, etc. and giving advice on scholarship opportunities and applications.

AIANI Special Events



AIANI organizes and/or supports special events throughout the academic year.

Past Highlights:

- An Evening in Memoriam of Carl Djerassi
- Guest Lectures by Nobel Prize Laureates
- Conferred Honorary Degrees, e.g. for Agnes Heller and Marjorie Perloff
- Conferences and Symposia

AIANI Initiatives for Cooperation



Visit of Prof. Alexander Levitzki



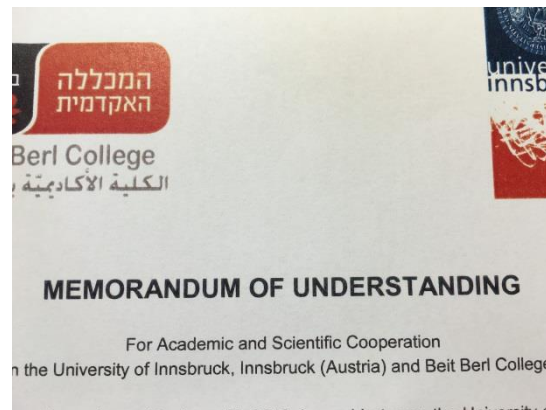
Visit of Prof. Dan Shechtman



Memorandum of Understanding with the Weizmann Institute of Science



Visit of Ambassador Zvi Heifetz



Memorandum of Understanding with Beit Berl College

Erasmus+ Project HIT and Uoi (AIANI)

- Contact was made by HIT
- AIANI discussed possible cooperation with interested department faculty at the Uoi
- Communication about possible project with partners at HIT
- Application for Erasmus+ funds for R&D and/or other relevant key figures' visits was submitted in January 2016; approved by the Erasmus agency; four ppl for seven days each (28 days total)
- The general plan is divided into two phases:
 - Introductory phase (planned for November 2016 and April/Mai 2017)
 - Professional visits and knowledge exchange (planned for Fall 2017)

HIT – UoI (via AIANI) ERASMUS+ Plan

- In order to establish vast collaboration between the institutions, HIT and UoI plan to use the ERASMUS+ funds for the R&D and/or other relevant key figures' visits
- The general plan is divided into 2 phases:
 - Introductory phase
 - Professional (specific knowledge exchange)

Phase 1: Mutual Introduction

- November 2016, first delegation HIT -> UoI
 - Main goal: to establish thinking and brain-storming teams, pointing out the main fields of collaboration;
 - 2-3 members; one week
 - Optional: a multi-institutional meeting in Vienna
- April/May 2017, first delegation UoI-> HIT
 - Main goal: learning about HIT's faculties, research centers and labs; discussing possible R&D initiatives with relevant faculty members;
 - 2-3 members; one week

Phase 2: Professional Visits

- Based on Phase 1, a call will be published in both institutions for teaching/training staff exchange (Academic/Administrative staff).
- September 2017, second delegation HIT -> UoI
 - Main goals: learning specific know how's based on UoI's uniqueness; teaching (in case of academic staff); launching joint projects and collaboration(s) ; 1-2 members; one week.
- November/December 2017, second delegation UoI > HIT
 - Main goal: learning specific know how's based on HIT's uniqueness; teaching (in case of academic staff), launching joint projects and collaboration(s) ; 1-2 members; one week.

Immediate Outcome

- HIT and UoI delegates will study the mutual strength points and expertise:
 - Research facilities
 - Resources
 - Faculty members and experts in their fields
- Promoting both institutions' reputation and impact on both local and national levels.
- The international credit mobility activities will be translated into action items such as:
 - forming bi-national research groups
 - mutual attendance in conferences
 - teaching exchange
 - R&D collaboration(s) such as participation in various European R&D frameworks (e.g., COST), other grant applications and submission of academic papers.

Long Term Outcome

- The international credit mobility activities will open the door for further extension of the mobility between the two institutions involving more academic staff members
- Student exchange program
- These international credit mobility activities have the potential to create a distinctive system/network in both countries involving different stake holders such as academic staff, students, related industries and the surrounding communities