

Innovative Photonics Education in Nanotechnology

The iPEN Project

<https://ipenche.chania.teicrete.gr/>

Associate Professor Konstantinos Petridis

iPEN Coordinator



The iPEN Project Outline



- Motivation
- Consortium
- Project's Milestones
- Implemented Outputs
- Quality Assurance (QA) Procedures
- QA iPEN Bodies
- QA iPEN Evaluation Tools
- iPEN Next Steps & Proposals

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Motivation



- ✓ Train students in the Photonics tools & techniques applied in Nano-sciences
- ✓ Train students & academics in the most effective teaching strategies & ICT tools
- ✓ Foster students soft skills

There is no program that targets all these objectives simultaneously

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The iPEN Project Consortium



European Partners

- TEI of Crete (Greece)
- POLIMI (Italy)
- FAU (Germany)
- University of Twente (Netherlands)
- IESL (Greece)
- W2L (Greece)

The Israeli Partners

- Bar Ilan University
- WIS
- BGU
- Technion
- HIT
- SCE
- MEITAL

The iPEN Project Outline



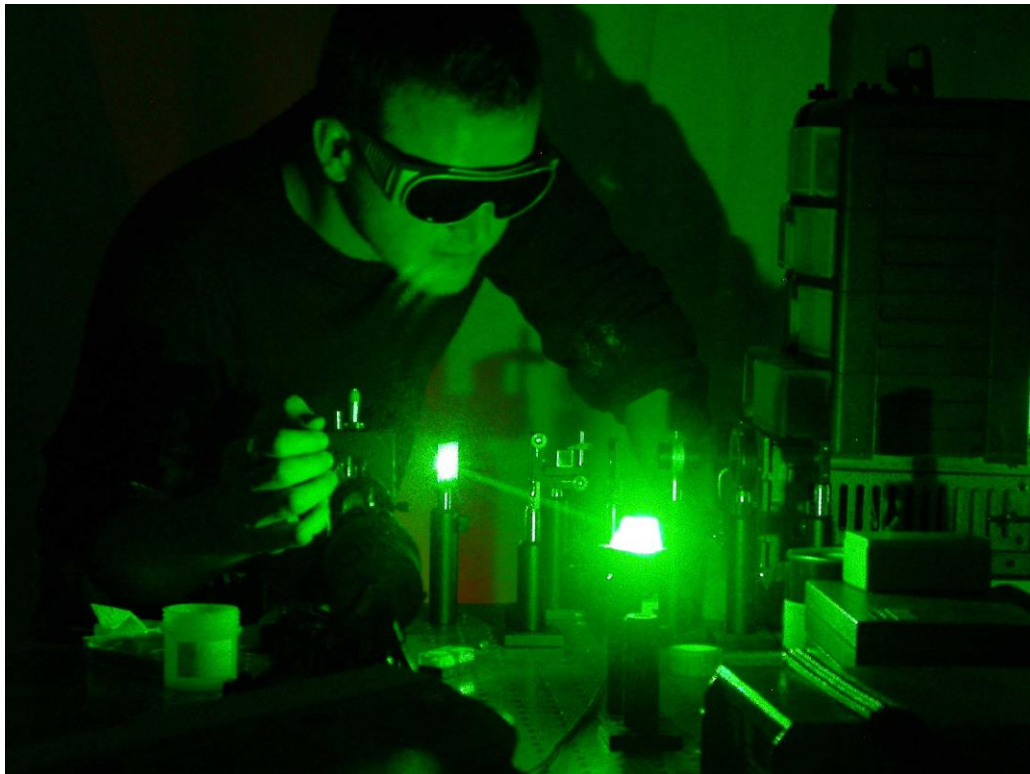
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The iPEN Project

Project's Milestones



Photonics Based Courses



Soft Skills Based Courses

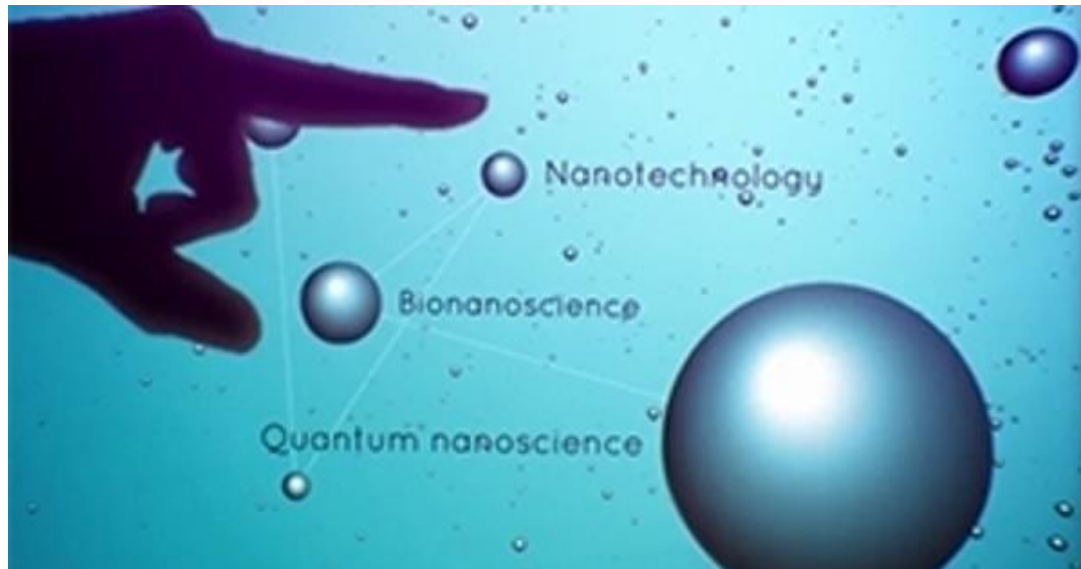


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Project's Milestones



Teaching Science Methodologies



Training Programs



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The iPEN Project

1st year outputs



Our Courses

40 Offline Modules Description

<https://ipenche.chania.teicrete.gr/online-courses/>

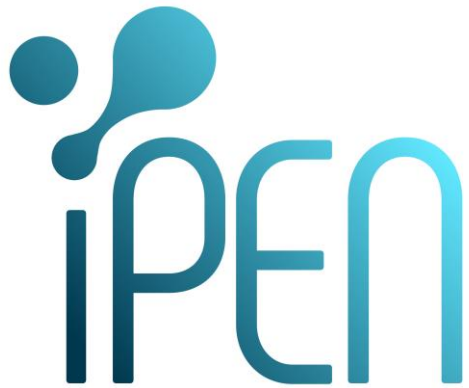


<https://ipen.iucc.ac.il/>

The poster is for a workshop titled "Modern Teaching Methods and Soft Skills Development in Science" held at the David Lopatie Conference Centre, Weizmann Institute of Science, Rehovot, Israel, on October 24-25, 2018. It lists invited speakers including Oded Katash, Miri Barak, Ron Blonder, Ioannis Lefkos, Konstantinos Petridis, Eili Shmueli, Raz Zarivach, and Katerina Zourou. It also mentions the organizing committee with Ron Blonder as chair and Barak Dayan as co-chair. Contact information for Reut Hershenhoren is provided, along with a registration link and QR code. The bottom of the poster features logos of various partner institutions such as TEI of Crete, Politecnico di Milano, University of Twente, FAU, FORTH, Web2Learn, Bar-Ilan University, SCE, Hit, Ben-Gurion University of the Negev, and Technion.

The iPEN Project

1st year outputs



[https://www.youtube.com/channel/UCX
XyZ5pGpWGBSTCQfLSBq0w/videos](https://www.youtube.com/channel/UCX
XyZ5pGpWGBSTCQfLSBq0w/videos)



<https://ipenche.chania.teicrete.gr/>

<https://www.facebook.com/iPENcapacity/>

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QA Actions



- ✓ Assessment of the iPEN progress meetings
- ✓ Assessment of the iPEN intensive courses
- ✓ Assessment of the Management Procedures
- ✓ Assessment of the Outcomes (Internally & Externally)

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QA Actions



- ✓ The iPEN Q/A Working Team (Leading Partner W2L – Dr K. Zourou)
- ✓ The iPEN External Evaluator (external evaluator – Mr R. Tavio)
- ✓ External Evaluator Experts
- ✓ Israeli National Agency Monitoring Visits
- ✓ The Coordinator Internal Reporting
- ✓ The EACEA – Project Officer

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Evaluation Tools



1. OnLine Questionnaires
2. Interviews
3. Monitoring Visits
4. Reporting
5. QA Planning

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iPEN Next Steps and Ideas



Next Steps

- Completion of the offline modules
- 2nd IC in POLIMI (12th – 15th May)
- 1st IC in AAU (1st – 5th April)
- Erasmus Week in TEIoC (21st – 25th of May)

Ideas

- Link iPEN with the teaching tools of the iTEM (Europe, Israel, Western Balkans and Uzbekistan)
- Link iPEN with the objectives of the Strategy Alliance Project, CRETE

The iPEN Project

iPEN Next Steps and Ideas



New Proposals...we are hiring!!

- Re – submission in Graphene & 2D materials (CBHE Europe, Israel and China)
- **New:** Biomimetics (Europe, Israel)
- **New:** Science Teaching (Europe, Israel)

Contact

Email: c.petridischania@gmail.com

Skype: costas.petridis

Tel: +30 69 32 25 09 64

The iPEN Project

תודה לך על תשומת הלב