



**EMaTTech**  
Eastern Macedonia and Thrace  
Institute of Technology



# 4th International Summer School on Organic PhotoVoltaic Systems

- ✓ Energy and Resources
- ✓ Photovoltaic Technologies
- ✓ Organic & Perovskite Photovoltaics (OPV & PPV)
- ✓ System Applications
- ✓ Modeling and Simulation in Energy Engineering
- ✓ Business Plan and Techno-Economic Analysis on real cases studies

**Target groups** The ISSOPVS summerschool has been developed for those with interest in Solar Energy and its applications. Furthermore, the program is designed for those who intend to pursue an academic or a professional career related to photovoltaic technology. This course intends to equip students or graduates, technicians as well as researchers who wish to get a comprehensive introduction to renewable and more specifically photovoltaic energies.

The focus will be about the last generation, Organic and Perovskites photovoltaics technologies. Apart from the theoretical part, the workshop is ideal for everyone who is already working in this field and needs to deepen their knowledge about new developments, industrial status, and market perspectives. The summer school therefore unites participants from a wide range of professional and academic backgrounds.

**Course aim** All courses aim to give student awareness of the latest trends in energy, as well as solar and photovoltaic technology, and the ability to model and implement theoretical knowledge into real system applications, by means of techno-economic analysis. Courses aim to provide students with the knowledge of:

- How to reduce air pollution, how to decrease the dependence on coal, fossil fuels and nuclear, how to start, design and build a renewable energy system.
- Basic principles and various types of PV panels.
- An insight into the theory behind organic solar cells and the three main research areas within the field i.e. materials, stability and processing. Design process for several complete self-contained PV systems.
- Modeling and Simulation theory and also an overview of professional and free software dedicated to solar energy.
- Design, model, simulate and present a PVS via a Business Plan and scientific techno-economic analysis



Join us now!

**When:** 1 - 10 July 2019

**Language:** English

**ECTS Units:** 6

**ISSOPVS 2019**

<http://summerschool.teiemt.gr/>