



Nanotechnology for Electronics



WHEN

24-25/03/2015

WHERE

CEITEC Brno University of Technology
Core facility Nanofabrication and Nanocharacterization
Building A8, Room T8-215, Technická 10, Brno, 616 00

COURSE CHAIR

Prof. Jaromír Hubálek Smart Nanodevices

This two-day course is part of the EuroTraining project's Train-the-Trainers task, which aim is to enrich the knowledge about nanosystems and to give support to those trainers and experts, who are interested in getting acquainted with educational tools that could be used for teaching their students.

Program at a glance

DAY 1

- 14:00 – 14:10 Introduction
- 14:10 – 15:00 Electronics, microelectronics, nanoelectronics: applications and trends
- 15:00 – 15:50 MEMS technology and applications
- 15:50 – 16:10 Coffee break
- 16:10 – 17:10 Electron beam lithography – instrumentation and processing
- 17:10 – 17:50 Enhancing biosensors with nanotechnology

DAY 2

- 09:00 – 09:40 Controlling spin vortex states in magnetic nanodisks by magnetic field pulses
- 09:40 – 10:20 Organic Electronics and Photonics: Applications and Materials
- 10:20 – 10:40 Coffee break
- 10:40 – 11:20 Computer simulation of nanostructures
- 11:20 – 12:00 Controlling properties of the semiconductor quantum dots
- 12:00 – 12:10 Problem solving discussion
- 12:10 – 13:00 Lunch break
- 13:00 – 13:30 Introduction to the laboratory visit
- 13:30 – 16:00 Visit to CEITEC BUT core facilities
- 16:00 – 16:30 Farewell coffee with discussion and course evaluation

Fee and registration

The participation in the two-day course is **free** of charge. Please register by downloading and filling the registration form from the following link: www.ett.bme.hu/eurotraining and sending it back to Zsolt Illyefalvi-Vitéz (illye@ett.bme.hu) or to Oliver Krammer (krammer@ett.bme.hu). Contacts at CEITEC BUT: Kateřina Švidrnochová (katerina.svidrnochova@ceitec.vutbr.cz, tel: +420 54114 9114) and Ass. Prof. Jaromír Hubálek (jaromir.hubalek@ceitec.vutbr.cz, tel: +420 54114 6195)

