

Postgraduate Courses in Nanoscience & Nanotechnology



To register for courses please do one of the following:

- * click [here](#) to register online
- OR
- * return attached form to inspire@tyndall.ie

Eligibility:

All courses are open and **FREE** to PhD candidates studying in all Irish academic institutions that are members of the ICGEE & INSPIRE consortia, which is made up of UCC, CIT, UL, NUIG, DIT and DCU.

Consideration will also be given to applications from students of non-consortia members following consultation with their supervisors.

CONTACT US

www.inspirenano.com
 Telephone: + 353 21 4904181
 Email: inspire@tyndall.ie



Investing in your future

INSPIRE is funded under the framework of the Irish Government's Programme for Research in Third Level Institutions Cycle 5, National Development Plan 2007–2012 with the assistance of the European Regional Development Found.

www.inspirenano.com

ONLINE MODULES

Reconfigurable System on Chip Design Fearghal Morgan Jan 2012 - March 2012

Online course on a weekly basis on design, documentation, capture simulation, implementation and proto-typing of digital integrated circuits and embedded processors.

Radio Frequency IC Design Kevin McCarthy Jan 2012 – March 2012

Online course that introduces the building blocks of radio frequency ICs for wireless communications and provides a perspective on one of the key uses for IC technology.

Nanoelectronics Giorgos Fagas Jan 2012 – May 2012

Online course on the nanoelectronics core subjects combined with remote tutorials.

Photonic Devices Pascal Landais, Guillaume Huyet Feb 2012 – April 2012

Online course on the physics, properties and performances of the most common photonic devices and their integration in optical communication networks.

Statistical Mechanics Jim Greer Jan 2012—March 2012

Online module on applying statistical mechanics to the calculation of finite size effects for nanoscale systems.

MIXED MODE: ONLINE + ONSITE WORKSHOP

Photonics Materials and Devices Yuliya Semenova Jan 2012 – May 2012

Online course on the advanced physics and technology of photonic materials, devices and applications combined with 2 day hands-on workshop at DIT

Microsystems Engineering Martin Hill Feb 2012—Apr 2012

Online course on the examination of some current commercial microsystems application and future possibilities for the technology combined with 2 day hands-on workshop in Tyndall National Institute & CIT

Polymer Materials Clement Higginbotham Jan 2012—March 2012

This module introduces students to polymer materials and focuses on structure/property relationships.

Biomedical Materials Clement Higginbotham Jan 2012—March 2012

Online course on biomaterial surfaces, biomaterial-cell interaction, biocompatibility, biomaterial characterisation, biomaterials for biosensors and diagnostic devices, biomaterials for drug delivery and biomaterials for tissue engineering.

Scientific Programming Concepts Simon Wong Feb 2012—Apr 2012

Introduction to programming concepts with weekly online lectures combined with face to face practical session every second week (delivered on-site)

Principles of Optical Design & Image Formation Alexander Goncharov May 2012

Module covers fundamentals of optic, design and image formation. Material available online combined with 2 workshop/tutorial sessions.

Nanobiomaterials Dr. Yury Rochev Feb 2012—Apr 2012

This module covers the fundamentals of nanobiomaterials.



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WORKSHOPS

Internationalisation and Sales Carol Kelleher March 2012

3 day workshop at UCC on opportunities and challenges presented to technology companies operating in a global context .



Optical Networking Andrew Ellis Liam Barry January 2012

1 week workshop at Tyndall National Institute or DCU on the main building blocks required for high capacity data transmission over optical networks, how these systems operate within the transport and access layer of the overall telecommunications network.



Microelectronics Technology Tatiana Perova March 2012

3 day workshop at TCD to provide the student with an opportunity to fabricate a simple MOS integrated circuit and to learn about electrical and optical characterizations.



Compound Semiconductor Device Fabrication Brendan O'Neill March 2012

1 week workshop to provide the student with an opportunity to fabricate a simple light emitting device and understand the technology involved.



REGISTRATION FORM:

First Name

Surname

Email address

Telephone Number

Home Institution Student Number

Supervisors Title & Name

Supervisors Email address

Supervisors Telephone Number

Host Institution

Do you require any assistance arising from disability? Yes / No

Which course you wish to register for?

I have the permission of my supervisor to register Yes / No

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