

Summer School On

Frontiers of Nano Materials, Structures and Devices

Organised by

Institute of Radio Physics and Electronics

University of Calcutta,

92 Acharya Prafulla Chandra Road, Kolkata-700 009, West Bengal

Tel: +9133 23509115; Fax: +91 33 23515828

A UGC Networking Resource Centre in Physical Sciences

(June 20 – July 10, 2012)



About Networking Resource Centre : The University Grants Commission accepting the recommendation of MHRD task force for basic scientific research in Universities, decided to create a few Networking Resource Centres in the country in areas of Physical, Chemical, Life, Materials and Mathematical Sciences. In the first phase Institute of Radio Physics and Electronics (IRPE), a Centre of Advanced Study since 1963, has been selected as one such Networking Resource Centre in Physical Sciences.

The main activities of the centre is to train faculties, researchers and Ph.D students in the areas of expertise of the centre and also to organize some specialized courses through Summer and Winter schools. Trainings will also be provided to the M.Sc/B.Tech/M.Tech students during the summer and other vacations.

Topics to be covered :

Nano particles, Nano composites, carbon Nanotubes, Nano-intermediates, Super lattice structures using different material systems, Quantum wells, Quantum wires and tubes, Quantum dots, UTB SOIMOSFETs, GeOI transistors, FinFETs, DG MOSFETs, Nanowire FETs, Ballistic nano transistors, Tunnel FETs, Junctionless transistors, Single electron transistors, Nano-LEDs, Nano-LASERs, Nano-photodetectors.

Speakers

Faculties and Scientists from IRPE, IISC, IITs, SINP, IACS, Other Universities and Industry

UGC-NRC Director:
Prof. G. Ghosh
Course Director :
Dr. A. Biswas

Who can Apply : Faculties, post doctoral fellows, Ph.D and PG students of Engineering Institutions and PG/UGC Colleges in Science, Age limit: 40 years or less.

Prospective participants are encouraged to apply through email id : nanomastd12@gmail.com mentioning personal information like DOB, background in the relevant area and a brief statement of motivation to participate in the school as per the registration form available at www.irpel.org. The number of candidates to be selected is limited to 20. Applicants will be selected based on merit, field of research and in order to nurture a well-balanced and diverse group of participants giving preference to candidates from developing institutions. Reservation for SC/ST candidates as per Govt. of India rules is applicable.

Application Deadline: May 3, 2012. List of selected candidates will be posted on the website by May 21, 2012. Outstation participants will be provided TA/DA and fellowship covering the cost of the school, food and basic shared accommodation in non-ac rooms.