

## SPONSORSHIP

Prof./Dr./Mr./Mrs./Miss \_\_\_\_\_

is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the Short Term Course on “**NANOMATERIALS: SYNTHESIS, CHARACTERIZATION AND APPLICATIONS**” at National Institute of Technology, Patna during March 4-8, 2014, if selected.

Date: \_\_\_\_\_ Signature of Head of  
Institution/Sponsoring Authority

Designation: \_\_\_\_\_

Official Seal: \_\_\_\_\_

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**Note:** 1. Interested candidates must email the advance scanned copy of their registration form along with scanned copy of demand draft (of Rs. 2000/- **non-refundable**).  
2. Selection will be made purely on First-Come-First- Serve basis (Selection is valid subject to fulfilling the eligibility criteria & realization of Registration Fee).  
3. Maximum fifty (50) participants will be accommodated in the Short Term Course (STC).  
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The duly sponsored registration form along with original DD of ₹ 2000/- (non-refundable) should be mailed to:

**Dr. Dev Kumar Mahato**  
**Coordinator**  
**Short Term Course on NSCA.**  
**Department of Physics**  
**National Institute of Technology Patna**  
**Patna - 800 005, Bihar, India.**  
**Email: [devk@nitp.ac.in](mailto:devk@nitp.ac.in); [drdevnitp@gmail.com](mailto:drdevnitp@gmail.com)**  
**Mobile: 09771024584**

## PATRON

**Prof. (Dr.) Asok De**  
Director, NIT Patna

## COORDINATOR

**Dr. Dev Kumar Mahato**  
Department of Physics, NIT Patna

## ADVISORY COMMITTEE

1. Prof. K. B. R. Varma, Professor, IISc Bangalore
2. Dr. A. K. Singh, Scientist, DMRL, Hyderabad
3. Prof. T. S. Pal, IIT Kharagpur
4. Prof. S. K. Bandhopadhyay, VECC(DAE) Kolkata
5. Prof. T. P. Sinha, Bose Institute Kolkata,

## ORGANISING COMMITTEE

1. Prof. N. R. Lall, NIT Patna
2. Prof. D. K. Singh, NIT Patna
3. Prof. Sanjeev Sinha, NIT Patna
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8. Dr. Abhishek Singh, NIT Patna
9. Dr. Mukesh Choudhary, NIT Patna
10. Sri S. Mukhtar Hussain, NIT Patna
11. Dr. Dev K. Mahato, Coordinator, NIT Patna

## IMPORTANT DATES

Email with scanned copy of registration form along with scanned copy of DD may be sent latest by **February 25, 2014**. Duly filled registration form along with sponsorship certificate & original DD in favour of “National Institute of Technology Patna” payable at Patna. should reach on or before **February 28, 2014**.

**Registration Fee (Non-refundable): Rs. 2000/-**

## GENERAL INFORMATION

1. No TA, DA, Boarding & Lodging will be provided to the participants by Institute.
2. Participants will be provided high tea, lunch etc. during the day session from March 4 – 8, 2014.
3. Participants will be provided registration kit & course material covering the entire Short Term Course on NSCA.
4. Intimation of Selection will be sent only through email.
5. List of Finally selected participants will be available on institute website.

**One Week Short Term Course**  
**(Under the aegis of TEQIP, NIT Patna)**

**on**

**“NANOMATERIALS: SYNTHESIS,  
CHARACTERIZATION  
and  
APPLICATIONS(NSCA-2014)”**

**March 4 to 8, 2014**



**Organized by**

**Department of Physics  
&  
Department of Electronics &  
Communication Engineering,  
National Institute of Technology Patna  
Patna- 800005 (India).  
Website: [www.nitp.ac.in](http://www.nitp.ac.in)**

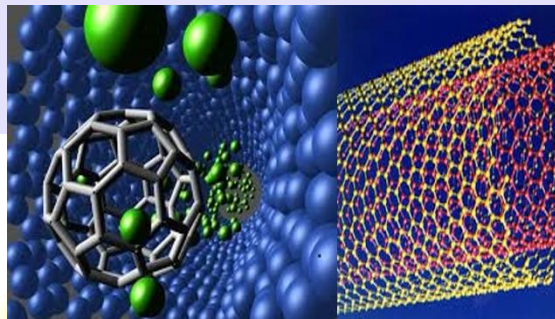
## ABOUT THE INSTITUTE

National Institute of Technology Patna is the 18<sup>th</sup> National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28.01.2004. The institute is situated on the south bank of holy river Ganges behind Gandhi Ghat, one of the most important and reverential place of Patna. National Institute of Technology Patna has been declared as an Institute of National Importance and has been granted a fully Autonomous Status by MHRD, Government of India. The Institute has also been declared as a Centre of Excellence to impart high level education, training, research and development in science, engineering, technology and humanities. It is imparting high quality education & values at UG (B. Tech), PG (M. Tech) & Ph.D programmes through its experienced faculty well versed in their respective field of engineering and technology. The campus of NIT Patna is located at the heart of the city, which is around 6 km from Patna Jn. Railway station and about 15km from the Jai Prakash Narayan International Airport Patna. The city of Patna is well connected with the other major cities of the country and states by rail, road and air.

## OBJECTIVE

The aim of this short term course is to inculcate the faculty members, research scholars, scientist of science and engineering discipline and exploring avenues for collaborative ventures through invited talks and distinguished expert lecture series. This course will provide an opportunity to the students and research scholars to interact with scientists, academicians and experts of various fields on the current advancements and the future trends in the interdisciplinary field of Nanoscience, nanoengineering and nanotechnology. Nanoscience is an attractive, new area of research that explores materials and novel phenomena occurring at the size range of 1-100nm. Nanomaterials are corner stones of nanoscience and nanotechnology. It has become one of the first developing field of research in recent decades. It has a multidisciplinary nature with tremendous potential to create new devices and materials with a wide range of properties. A numerous nanomaterials have been synthesized so far by various methods such as Sol-Gels, Chemical vapour deposition, Ball milling, electrodeposition, Microwave method etc. Since the properties of materials show dramatic change as one goes down the size in Nano-domain, new range of applications emerges from nature's closet. Its possible applications appear to be enormous i.e. extraordinarily tiny electronic devices, miniature batteries, super absorbents, packaging films, components of armour and parts of automobiles. For the characterization of nanomaterials, a large number of techniques such as TEM, SEM, AFM, STM, XRD,

Raman Spectroscopy can be employed and newer techniques are being added. Nanomaterials are essential for the teaching and research communities to focus & achieve their respective goal. In view of recent advances made in the field of nanotechnology and its applications in diversified fields, a short term course on "Nanomaterials: Synthesis, Characterization and Applications(NSCA)" is being organized by **Department of Physics** and **Department of Electronics & Communication Engineering**, NIT Patna during March 4-8, 2014.



## SPEAKERS

Internationally renowned professors / scientists from premier Universities / IITs / IISc / NITs / reputed organizations will deliver lectures on NSCA.

## ELIGIBILITY

The STC is open to faculty members from various disciplines of (Degree Level) Universities / Institutes / Engineering Colleges approved by AICTE / UGC / Govt.

## HOW TO APPLY

1. Registration form should accompany a single demand draft of Rs. 2000/- (non-refundable), which should be drawn in favour of "National Institute of Technology Patna" payable at Patna.
2. Scanned copy of duly filled-in registration form, sponsorship certificate and the demand draft must be e-mailed to the coordinator ([devk@nitp.ac.in](mailto:devk@nitp.ac.in)). Hard copy of the same must also be sent by post / courier.
3. Selection will be made purely on First-Come-First-Serve basis (Subject to fulfilling the eligibility criteria).
5. Maximum fifty (50) participants will be accommodated in the STC.
6. The brochure and the registration form may be downloaded from the Institute website [www.nitp.ac.in](http://www.nitp.ac.in)

## One Week Short Term Course (Under the aegis of TEQIP, NIT Patna) on "NANOMATERIALS: SYNTHESIS, CHARACTERIZATION and APPLICATIONS(NSCA-2014)"

March 4 to 8, 2014

## Registration Form

1. Name (Block Letters):
2. Designation:
3. Organization:
4. Address for Communication:
5. Email (Mandatory):
6. Mobile Number (Mandatory):
7. Qualification:
8. Specialization:
9. Subjects Taught (UG & PG levels):
10. Teaching Experience:
11. Research Experience:

Please register me for the course "Nanomaterials: Synthesis, Characterization and Applications" to be held at NIT Patna

Date:  
Place:

Signature of Applicant