



अनुप्रयुक्त विज्ञान विभाग
Department of
Applied Science

संदर्भ : एनआईटीटीआर/अ.वि./

Ref : NITTTR/App.Sc./BCC/OP-1/ 000013

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान
[मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित]
सेक्टर 26, चंडीगढ़-160 019

**NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING
AND RESEARCH**

(Established by Ministry of Human Resource Development, Govt. of India)

SECTOR 26, CHANDIGARH-160 019 (INDIA)

(ISO 9001:2008 Certified)

1 APR 2013

दिनांक :

Date : 25.03.2013

32. The Director,
Sant Longowal Institute of Engg. & Tech.,
(SLIET) Longowal,
Distt. Sangrur (Punjab).

Sub: Short Term Course on "NANOTECHNOLOGY: Opportunity & Challenges"
from 06-10 May, 2013 at this institute.

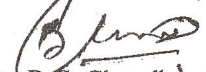
Dear Sir,

The Applied Science department of this institute is conducting the above mentioned short-term course for the teachers of Applied Sciences and Engineering (Science background) from Engineering Colleges of northern region. Nanoscience and Nanotechnology are two of the hottest fields in science, business and the news, today. Microchips and computers have already brought revolutionary changes in the quality of life and nano will be at the center of science, technology and business for the next many years. To maintain the advances in society, I strongly feel that all our technical teachers should be exposed to such kind of technological developments. The course will briefly cover the science, technology, implications and future of nanosystems and devices. I shall be grateful if you kindly circulate the enclosed brochure among the faculty of Applied Sciences and Engineering in your institute and sponsor as many teachers as possible for attending this **one-week training programme** at this institute.

Last date for receipt of sponsored applications is 22nd April, 2013.

Thanking you,

Yours faithfully,


(Dr. B.C. Choudhary)

Associate Professor & Course Coordinator

E-mail: <bakhshish@yahoo.com>

Encl: As above.

Hindi Version Overleaf

Rec/cse/478
11/04/13
Institute
welcome
8/4/13

HOD (PK)

12/ps/3612
8-4-2013



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**विषय: 06-10 मई, 2013 तक नाइटर, चण्डीगढ़ में “NANOTECHNOLOGY:
Opportunity & Challenges” पर अल्पकालीन पाठ्यक्रम संबंधी ।**

प्रिय महोदय/महोदया,

इस संस्थान का अनुप्रयुक्त विज्ञान विभाग हमारे देश के उत्तरी क्षेत्र के इंजीनियरी कॉलेजों के अनुप्रयुक्त विज्ञान तथा इंजीनियरी (जिनकी पृष्ठभूमि विज्ञान है) के शिक्षकों के लिए उपर्युक्त अल्पकालीन पाठ्यक्रम आयोजित कर रहा है। आजकल विज्ञान, व्यापार तथा समाचार में नैनोविज्ञान तथा नैनोप्रौद्योगिकी दो प्रचलित विषय हैं। माइक्रोचिप तथा कम्प्यूटर से जीवन की गुणवत्ता में पहले से ही क्रांतिकारी परिवर्तन आए हैं तथा अगले कई वर्षों के लिए नैनो विज्ञान, प्रौद्योगिकी तथा व्यवसाय के केंद्र में रहेगा। मैं महसूस करता हूं कि समाज में ऐसी हुई उन्नतियों को बनाए रखने के लिए हमारे तकनीकी शिक्षकों के प्रौद्योगिकी संबंधी विकासों के बारे में जानकारी होनी चाहिए। पाठ्यक्रम में विज्ञान, प्रौद्योगिकी, नैनोसिस्टम तथा डिवाइसेस को समस्याओं और भविष्य के बारे में संक्षेप में बताया जाएगा।

मैं अति आभारी हूंगा यदि आप अपने संस्थान के अनुप्रयुक्त विज्ञान तथा इंजीनियरी के शिक्षकों में संलग्न विवणिका परिचालित कर दें तथा इस एक सप्ताह के प्रशिक्षण कार्यक्रम में अधिक से अधिक शिक्षकों को भाग लेने के लिए भेजें।

आवेदन भेजने की अंतिम तिथि **22 अप्रैल, 2013** है।

सधन्यवाद,

(डा० बी.सी. चौधरी)

सह-आचार्य तथा कोर्स समन्वयक

E-mail: bakshshish@yahoo.com

फोन नं०: 0172-2759556

संलग्नक: उपर्युक्त।

Mail to:

Dr. BC CHOUDHARY
Course Coordinator,
Department of Applied Science,
National Institute of Technical Teachers'
Training & Research (NITTTR),
Sector 26, Chandigarh-160 019.

Phones:

PBX (O) : 0172 - 2759500 Ext 556

Direct: 0172-2759556

Fax No.: 0172-2793893

E-Mail: <bakhshish@yahoo.com>

NO PAYMENT/HONORARIUM IN CASH WOULD BE MADE TO ANY PARTICIPANT FOR ANY UNAVAILED FACILITY OF BOARDING/ LODGING.

4. Facilities

The institute is located in the educational complex in Sector 26 and the buildings include Main academic block, Computer centre, Educational television centre, Media centre block and New academic/administrative block, besides men hostel, women hostel, post-graduate student hostel, student centre, institute guest house. The institute library has a collection of more than 35,000 books, journals and other reading materials. The departments have well established laboratories and advanced equipment in the areas of applied physics, nuclear radiations, lasers, fiber optics and nanotechnology.

5. How to Reach Institute

NITTTR (Formerly TITI), Chandigarh is located in the educational complex in Sector 26 on Madhya Marg and is about 5 km from ISBT, Sector-17 and Railway Station. Auto rickshaw and taxi are readily available from both the places.

LAST DATE FOR RECEIPT OF SPONSORED APPLICATIONS IS 22nd APRIL 2013.

Short Term Course on

NANOTECHNOLOGY: *Opportunity & Challenges*

(06 - 10 May 2013)

For

Teachers of Engineering Colleges



Venue:

NITTTR, Sector 26, Chandigarh

Organized by:

Department of Applied Science
National Institute of Technical Teachers'
Training & Research
Sector 26, Chandigarh-160 019.

OBJECTIVES

Currently, nano-science and technology are in the forefront of research in nanomaterials and development of nanodevices. The trend towards miniaturization has led to the nanotechnology where scientists hope to fabricate devices at molecular scale. Nanoparticles, the building blocks of these devices are generally particles between 10nm to 100nm in size and the nanomaterials synthesized from such tiny particles demonstrate unique mechanical, optical, electronic and magnetic properties. Though nanotechnology means different things for different scientists, a push towards the use of nano-scale technology in various field of science and technology including physics, chemistry, materials, optics, electronics, bioelectronics and medicines, is well underway.

The objective of the course is to provide an overview, understanding and progress made in development of this novel technology for future nano-scale applications. Field visits/ video presentations will be arranged to supplement the factual knowledge disseminated during the expert lectures.

Course Contents:

- Nanoscience & Nanotechnology –Overview;
- Nanomaterials and Nanostructures;
- Synthesis & Characterization of nanomaterials;
- Nanoelectronics and Bio-Molecular devices;
- Nano-scale Modeling & Simulations;
- Nano Composites and Coatings;
- Nanomaterials and devices for Healthcare.

ELIGIBILITY

Lecturers and above in Applied Sciences and Engineering.

GENERAL INFORMATION & GUIDELINES

1. Admission to the Training Programme:

Admission is open to teachers of engineering colleges: Government, Govt-aided, private and self-financed institutions. Interested teachers may submit their applications in the prescribed performa through proper channel so as to reach the institute before 22nd April 2013. Advance copy

may be sent, but at the time of admission sponsorship from the appropriate authority must be produced.

2. Course Fee

No course fee shall be charged from faculty/staff of Engineering Colleges; Government/ Govt.-aided/ Private/Self-financed, provided they should be approved by AICTE.

3. Payment of TA/DA

A) Govt./Govt.-aided Colleges:

TA/DA of the participants from these institutions will be borne by NITTTR, Chandigarh as per institute rules. Any participant who without the approval of the competent authority, discontinues the programme at any stage, will forfeit the claim on TA/DA.

- For reimbursement of TA, the participants of the courses, which are conducted at Chandigarh or at the state headquarters, would be limited to 2nd AC for Professors/ Principals/Directors, for others 3rd AC/ AC chair car. The claimants will have to produce tickets in support of their claim for TA.
- Local mileage would be limited to Rs.150/- at all places on production of bill once separately for inward and outward journey. AC taxi will not be permissible in any case. Local participants would not be eligible for any local mileage.
- The outside participants would be provided boarding and lodging in the institute mess/hostel. **Kindly note that only single room accommodation will be provided.** The local participants for training programmes at Chandigarh would be eligible only for the working lunch and tea at the institute on the working days of the training.

B) Private/Self-financed Colleges & Universities:

The participants from private engineering colleges, institutions, UIETs and other departments under Universities even if they are sponsored by state government will have to bear TA/DA and boarding & lodging charges either by themselves or through their sponsoring organization.

APPLICATION FORM

Short Term Course on

Nanotechnology: *Opportunity & Challenges*

(06-10 May 2013)

- Name (in BLOCK Letters): _____
- Educational Qualification(s): _____

- Designation & Deptt.: _____

- Office Address: _____

_____ Phone: _____
Fax: _____ E-Mail: _____
- Whether the Institute is
 Govt. Govt. Aided
 Private/Self-financing
- Address for correspondence: (if different from official address)

_____ Phone: _____
Fax: _____ E-Mail: _____
- Years of Experience (if any): _____
- Hostel accommodation required - Yes / No
- Signature of the Applicant Countersigned

Date: _____ Place: _____

Signature of Head of the Institute
(with office seal)