



AICTE Sponsored QIP-Short Term
Course
on

**“Nanomaterials: Synthesis,
Characterization and
Application”**

July 01 - 06, 2019

School of Materials Science & Technology Indian
Institute of Technology (BHU)
Varanasi, India



ABOUT THE COURSE

Indian Institute of Technology, (Banaras Hindu University) is organizing a course on **“Nanomaterials: Synthesis, Characterization and Application”** from 01.07.2019 to 06.07.2019. The course is open to teachers from AICTE recognized management/engineering colleges or universities. Merit and availability of funds will be taken into consideration while selecting candidates. The complete application should reach to the given address latest by 22.06.2019. If your candidacy is being sponsored by the institution, a formal letter will be required.

The main focus of the course is making the engineers get familiarize with different processing techniques for synthesizing nanomaterials and their characterization for various applications. A likely beneficiary is a person working in associated materials research and teaching.

COURSE SYLLABUS:

Processing Techniques: Bottom up and Top down approach- CVD, PVD, PLD, Sol-gel, Hydrothermal, Coprecipitation, Ball milling etc.

Characterization: Structural Analysis (XRD/SEM/TEM/AFM), Particle size and strain analysis, Surface area and porosity analysis, Spectroscopic Analysis (UV-visible absorption, Photoluminescence, FTIR and Raman).

Application: Energy (supercapacitors, fuel cell, batteries, solar cell), Optoelectronic devices (Photodetector, LEDs etc.) and Environmental application.

REGISTRATION PROCESS

Registration for the course can be done by filling up the application form, and posting it along with a demand draft of INR 2000/- in favor of “Registrar, IIT(BHU), Varanasi” to the convener address. Please also send a scanned copy of the application form and the copy of demand draft to the email contact of convener. This registration fees is a caution deposit and will be refunded at the end of the course. No refund will be given to absentees.

CONTACTS OF COURSE COORDINATORS

1- Dr. Ashish Kumar Mishra

Convener, QIP-STC
School of Materials Science and Technology
IIT(BHU), Varanasi, India. 221005
Email: akmishra.mst@iitbhu.ac.in

2- Dr. Sanjay Singh

Co-Convener, QIP-STC
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3- Dr. M. Imteyaz Ahmad

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DATES TO REMEMBER

Last date for receiving applications: **June 22, 2019**

Commencement of the course: **July 01, 2019**

QIP-SHORT TERM COURSE ON

“Nanomaterials: Synthesis, Characterization and Application”

01-06 July, 2019

Application Form

- 1. Name (block letters):**
- 2. Designation & pay scale:**
- 3. Organization:**
- 4. Address for communication:**
Pin code:
Ph. No.: **Fax No.:**
- E-mail:**
- 5. Highest Academic Qualification:**
- 6. Specialization:**
- 7. Experience (in years):**
(a) Teaching:
(b) Industrial:
- 8. Amount of TA required as per entitlement mentioned in the brochure (only for AICTE approved college teachers):**

Please register me for the course on ‘**Nanomaterials: Synthesis, Characterization and Application**’ to be held at IIT (BHU) Varanasi.

Place:

Date: Signature of the applicant

SPONSORSHIP

Prof./Dr./Mr./Ms./Mrs./_____ is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the short-term course “**Nanomaterials: Synthesis, Characterization and Application**” at IIT (BHU) Varanasi during 01-06 July 2019, if selected.

Date: Signature of Sponsoring Authority

Designation: Official Seal:

Refundable Security Deposit Details:

In favor of Registrar, IIT (BHU), Varanasi

DD. No. Date:
Bank: Amount: ₹ 2000/-
Signature of the Applicant

ACCOMMODATION

Candidates admitted will be provided free lodging and boarding. The boarding and lodging arrangement for all the participants is made in Gandhi Alumni Technology Center (IIT-Guest House) on twin sharing basis. Family accommodation is not available on campus. However, one may make his/her own arrangement in city hotels at his/her own expense. While boarding and lodging is given free, priority in admission will be given to participants who will bear TA on their own or charge the same to their respective institutes. If so, please mention the same in the application form.

ABOUT THE CITY

Varanasi, also known as Kashi or Banaras, is one of the world's oldest living cities. It is regarded as the religious capital of India. The city is located on the left bank of the holy river Ganga (Ganges), and is one of the seven sacred pilgrimage cities for Hindus. In the words of Mark Twain, the famous English author and littérateur: "Benaras is older than history, older than tradition, older even than legend and looks twice as old as all of them put together". Lord Budha gave his first set of sermons at Sarnath, located in the outskirts of Varanasi, nearly 2500 years ago. Buddhists from all over the world visit the holy city on pilgrimage. To be in Varanasi is an experience in itself. The majestic ghats on the banks of Ganga, morning sunrise, visit to famous temples and evening Ganga Aarati are some of the special attractions. Varanasi is also renowned for its rich tradition of music, arts, crafts and education. For more details, visit <http://varanasi.nic.in/>

