Indian Institute of Technology Roorkee is organizing a course on "Recent Advances in Nanobiophotonics (From Lab to Clinic)" from 13.07.2015 to 17.07.2015. The course is open to teachers from AICTE recognized engineering colleges approved by AICTE. Only limited seats are available in this course. Merit and availability of funds will be taken into consideration while selecting candidates. The application on the enclosed form duly signed by the sponsoring authority, should reach QIP Office latest by 26.05.2015. The candidate will be informed of his/her selection in advance.

Candidates admitted will be provided free lodging and boarding. The boarding and lodging arrangement for all the participants is made in Trainee Officer’s Hostel / IIT Guest House on twin sharing basis. Those participants not availing this facility will not be entitled to any rebate. 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, admission is also 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.

Applications on attached form with due sponsorship should be sent at the address given below. In case, sponsorship is likely to take time, one can send an advance photo copy so as to reach before the due date by fax or speed post. However, no candidate will be admitted without due sponsorship.

**ABOUT ROORKEE**

Roorkee is located at the foothills of Himalayas in the Uttarakhand State. The Railway Station is on the main line of Northern Railways having direct links to Delhi, Mumbai, Calcutta, Amritsar, Jodhpur and Sriganganagar. The place is also within easy reach from Delhi, by road (180 km) and is located on Delhi - Haridwar and Delhi - Dehradun bus routes. Roorkee is ideally located near several tourist places like Dehradun (70 km), Mussoorie (100 km), Hardwar (32 km) and Rishikesh (52 km).

<table>
<thead>
<tr>
<th>Name of Course Coordinator(s)</th>
<th>Department</th>
<th>Course Title</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Ila Gupta Dr. P.S. Chani</td>
<td>Architecture &amp; Planning</td>
<td>Recent Trends in Application of Art in Architecture</td>
<td>June 8-12, 2015</td>
</tr>
<tr>
<td>Dr. Rajat Rastogi Dr. Indrajit Ghosh</td>
<td>Civil Engg.</td>
<td>Modelling with Transportation (MTD)</td>
<td>June 8-12, 2015</td>
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<tr>
<td>Dr. Rajat Agrawal Dr. Ziaur Rahman Dr. Vinay Sharma</td>
<td>Management Studies</td>
<td>Case Based Learning in Business &amp; Management</td>
<td>June 15-19, 2015</td>
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<tr>
<td>Dr. V.C. Srivastava Dr. R. Jayasangatham</td>
<td>Chemical Engg. and Met. &amp; Mat. Engg.</td>
<td>Nanotechnology: Basics and Applications in Chemical Engineering</td>
<td>June 22-26, 2015</td>
</tr>
<tr>
<td>Dr. D.N. Pandey Dr. N. Sukavanam</td>
<td>Mathematics</td>
<td>Dynamical Systems and Control</td>
<td>June 29 - July 3, 2015</td>
</tr>
<tr>
<td>Dr. Rachita Gulati Dr. Subir Sen</td>
<td>Humanities &amp; Social Sciences</td>
<td>Econometric Modelling of Cross-Sectional and Time-Series Data</td>
<td>June 29 - July 3, 2015</td>
</tr>
<tr>
<td>Dr. S. Satpathi Dr. K.L. Yadav Dr. P. Gopinath</td>
<td>Physics and Biotechnology</td>
<td>Recent Advances in Nanobiophotonics (From Lab to Clinic)</td>
<td>July 13-17, 2015</td>
</tr>
</tbody>
</table>
Objectives of the Course

Nanobiophotonics are presently gaining wide attention for physical and biological applications especially in the field of medicine and photonics. Over the next few years, the developments in this field will lead to the new insights in the technology transfer from lab to clinic. The main objective of the course is to impart knowledge on optical and biomedical applications of nanotechnology. In this course, selected research articles / data and the recent development in this field will be discussed, which will enable researchers to design their research projects in the area of Nanobiophotonics and advance this field.

Course Contents

- Introduction to Nanobiophotonics
- Synthesis of Nanomaterials
- Properties at Nanoscale
- Characterization of Nanomaterials
- Advanced Microscopic Techniques
- Computational Nanophotonics
- Fundamentals of High Power Lasers
- Nanobiolasmonics
- Fiber Optics Technology
- Bio-Imaging Techniques
- Methods in Nanobiophotonics
- Single Molecule Imaging
- Translational Nanobiophotonics
- Nano-Photonic Devices
- Advances in Nanobiophotonics

Course Coordinator(s):

Dr. S. Satapathi, Assistant Professor
Department of Physics
Indian Institute of Technology Roorkee
Ph: 01332-284819 (O), 8126916483 (M)
Email: ssphf.fph@iitr.ac.in

Dr. K.L. Yadav, Professor
Department of Physics
Indian Institute of Technology Roorkee
Ph: 01332-285744 (O), 9897647100 (M)
Email: klalyfph@iitr.ac.in

Dr. P. Gopinath, Assistant Professor
Department of Biotechnology
Indian Institute of Technology Roorkee
Ph: 01332-285650 (O), 9410193513 (M)
Email: pgopinfr@iitr.ac.in

SPONSORSHIP CERTIFICATE

The applicant will be permitted to participate in the above programme, if selected. Further, I have personally talked to the applicant and he/she seemed to be sure to attend the course, in case the admission is offered to him/her.

This is to certify that this institute is recognized by AICTE.