

One Week Online Short Term Course/Faculty Development Program

on

“RECENT PROGRESSES IN BIOMATERIALS AND THEIR APPLICATIONS”

(10th- 14th October, 2022)

Coordinator:
Dr. Indu Chauhan



Organized By:
Department of Biotechnology
Dr. B. R. Ambedkar National
Institute of Technology
Jalandhar
www.nitj.ac.in

About NIT, Jalandhar

Dr B R Ambedkar National Institute of Technology Jalandhar is amongst the 31 NITs established by Ministry of HRD, Government of India. The institute came into existence in the year 1988 (earlier Regional Engineering College Jalandhar) and obtained the status “Institute of National Importance” by Act of Parliament 2007. The institute is offering B Tech programme in various disciplines like Computer Science and Engineering, Electronics and Communication Engineering, Instrumentation and Control Engineering, Mechanical Engineering, Civil Engineering, Textile Technology, Biotechnology, Chemical Engineering, and Industrial & Production Engineering. In addition to B. Tech. programmes, the institute offers M.Sc. programmes in Physics, Chemistry and Mathematics, M Tech programmes in all Engineering departments, and Ph D programmes



Vision

To build a rich intellectual potential embedded with interdisciplinary knowledge, human values and professional ethics among the youth, aspirant of becoming scientists, engineers and technologists so that they contribute to society and create a niche for a successful career.

Mission

To become a leading and a unique institution of higher learning, offering state-of-the art education, research and training in science, engineering and technology to students who are able and eager to become change agents for the industrial and economic progress of the nation. To nurture and sustain an academic ambience conducive to the development and growth of committed professionals for sustainable development of the nation and to accomplish its integration into the global economy.

Organizing Committee

Patron

Professor (Dr.) Binod Kumar Kanaujia

Director, Dr B R Ambedkar National Institute of Technology Jalandhar

Co-Patron

Dr. Nitai Basak

Head, Department of Biotechnology
Dr B R Ambedkar National Institute of Technology Jalandhar

Coordinator

Dr. Indu Chauhan

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Department of Biotechnology,
Dr B R Ambedkar National Institute of Technology, Jalandhar
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Registration Fee per participant

The registration fee for participants is Rs 500+18% GST/- (per participant). Interested participants may kindly register and pay fee from the Registration link provided on or before **08-10-2022**

Objectives

Biomaterials are materials that have been designed to interface with biological systems, for the treatment, augmentation, or replacement of biological functions. Thus, the main objective of this course is to introduce participants to the various strategies used for the synthesis of biomaterials, their characterization, and then their applications in medical field. This STC/FDP would be beneficial for faculties, as well as research scholars to update themselves with the recent progresses in biomaterials and their applications.

Course Contents

In this short term course, invited speakers (Faculties and Scientists) from well recognized institutes such as IITs, IISc, NIPER and SCTIMST will deliver expert lectures on the following topics (not limited to):

- Rethinking Solutions for Healthcare
- Piezoelectric biomaterials and their applications
- Bioactive Materials for Spinal Cord Regeneration
- Biomaterials and their applications in Healthcare and Food sector
- Biomaterials for Drug delivery and wound healing applications
- 3D Bioprinting of Human Tissue and Organs

Who Should Attend?

Faculty members, PG and PhD Research Scholars, Doctors and Industry professional engaged in research and applications can also attend this STC/FDP

General Information:

- All the lecture sessions will be conducted in online mode
- Google meet link will be shared with the registered participants
- 75% attendance is mandatory
- e-Certificates will be issued to the participants on successful participation of the course.
- **Last date of registration is 08-10-2022.**

Confirmation of Participation

After the last date of registration, participants will be sent confirmation of their participation in STC/FDP through email. Prior registration is mandatory to attend STC/FDP.

About the Department of Biotechnology

The Department of Biotechnology NIT-Jalandhar is one of the fifteen Departments of the Institute. Within a span of fifteen years of commencement of B.Tech and PhD programmes, the Department has achieved results which reflects upon the growth pattern of the intellectual potential embedded with inter-disciplinary knowledge, human values and professional ethics among the youth, aspirant of becoming Engineers and Technologists, so that they contribute to the field of Biotechnology in particular and to the society in general and create a niche for a successful career.

For Registration and
Payment

Click the below link

https://www.nitj.ac.in/events_registration/rpba/login

For any queries, please
contact

Dr. Indu Chauhan
(Course Coordinator)

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TENTATIVE SCHEDULE FOR SHORT TERM COURSE/FACULTY DEVELOPMENT PROGRAM ON " RECENT PROGRESSES IN BIOMATERIALS AND THEIR APPLICATIONS" (10th- 14th October, 2022)

Inauguration ceremony on 10-10-2022 from 10:00 am to 10:30 am

Valedictory ceremony on 14-10-2022 from 4:30 pm onwards

Date and Day	Session I (10:30 am – 12:30 pm)		Session II (2:30 pm – 4:30 pm)
10-10-2022 (Monday)	Dr. Kaushik Chatterjee Associate Professor Department of Materials Engineering IISc Bangalore	L U N C H	Dr. Ashutosh Kumar Dubey Associate Professor Department of Ceramic Engineering IIT (BHU), Varanasi
11-10-2022 (Tuesday)	Dr. Naresh Kasoju Scientist-C Div. of Tissue Culture, Biomedical Technology Wing SCTIMST, Cochi		Dr Yashveer Singh Associate Professor Associate Faculty, Department of Biomedical Engineering (BME) IIT Ropar
12-10-2022 (Wednesday)	Prof.P.Gopinath Head, Centre for Nanotechnology, Department of Biosciences and Bioengineering, IIT Roorkee		Dr. Arnab Chanda Assistant Professor Center for Biomedical Engineering IIT Delhi
13-10-2022 (Thursday)	Dr. Akshay Srivastava Associate Professor NIPER Ahmedabad	B R E A K	Dr. Neetu Singh Associate Professor Center for Biomedical Engineering IIT Delhi
14-10-2022 (Friday)	Dr. Sangita Roy Scientist-E (Associate Professor) Head, Chemical Biology Unit INST, Mohal		Dr. Biman B. Mandal Professor Department of Biosciences and Bioengineering IIT Guwahati