



INDIAN INSTITUTE OF TECHNOLOGY INDORE

Department of Biosciences and Biomedical Engineering

Organizes

Short term course under AICTE-QIP Scheme

Emerging Techniques and Applications in Biosciences and Bioengineering Research

March 21-26, 2022

Sponsored by Quality Improvement Programme (QIP), AICTE



ABOUT IIT INDORE

Indian Institute of Technology Indore, located in Madhya Pradesh, known as IIT Indore, is an institute of national importance established by the Government of India in 2009. The department of Biosciences and Biomedical Engineering (BSBE) at IIT Indore was initiated in 2012 with a vision of establishing a centre of excellence that will focus on research in multidisciplinary areas of Biosciences and Biomedical Engineering. The department offers the MSc (Biotechnology) and PhD degrees and runs a minor in BSBE. Recently, IIT Indore debuted with a rank of 201-250 in the Times Higher Education World University Rankings, 2022. The emphasis of the department is to promote interdisciplinary research to find amicable solutions for real world problems that benefit society. For more details please visit: <https://bsbe.iiti.ac.in>

COURSE OBJECTIVES

This course is broad-based in nature encompassing several new technologies techniques that current computational and experimental researchers use to probe complex questions in life sciences. The course will cover principles and applications of several conventional to advanced characterization methods to facilitate life science research. Additionally, this course sensitizes participants with various facets of molecular medicines acting as therapeutic tools which can alter several diseases. The QIP course will cover the full spectrum of the characterization techniques used for life science research right from computational studies to experimental research to generate wide range of applications.

This course will also help the participants to get deeper understanding of the molecular tools employed in modern biological/biotechnology, biomedical, and drug discovery research. This will open new avenues for initiating novel research projects in the respective institutes, in addition to offering a platform for productive collaborations among the participants.

REGISTRATION FEE

- **AICTE Colleges:** There is no fee for faculty/PG/ PhD/scientist participants from AICTE sponsored colleges/institutes.
- A certificate of AICTE recognition of the Institute from the Head of the Department (the format is provided in page 2) must be uploaded at the time to online application through the below link on or before March 18, 2022.
- **Non-AICTE Colleges:** ₹1000 for faculty members/ scientists/ PhD/ Post-Doc and ₹2000 for participants from industries.
- Link for Registration form: <https://forms.gle/9Bn3TXHZDtvucytH8>

MODE OF PAYMENT

Via NEFT:

Registration fee can be paid through NEFT. Transfer of the amount can be done to the A/c number given below:

Name of the Beneficiary: Registrar, IIT Indore

Name of Bank: Canara Bank

Branch: IIT Indore, Simrol Campus Branch

Beneficiary Account No.: 1476101027440

Bank IFS Code: CNRB0006223

Via Paytm: Link for the payment through Paytm portal is available on IIT Indore website: <http://www.iiti.ac.in/>

- ❖ IIT Indore website → E payments → Paytm Portal for new students/Others → Click on [LINK](#)
- ❖ Select → Registration for events → Workshops/Conference → Other Details → Proceed

COURSE STRUCTURE

This is an active learning course covering following topics

- Computational Techniques
- Spectroscopic Techniques
- Microscopic Techniques
- Imaging Techniques
- Biosensors and Bioelectronic Techniques
- Chromatographic Techniques
- Bioprocessing Techniques
- Bioengineering Techniques
- Molecular Biology Techniques
- Immunological Techniques
- Microbiological and Histopathological Techniques
- Genetic Engineering Techniques

INVITED SPEAKERS

1. Prof. Ganti S Murthy, IIT Indore
2. Dr. Shashank Purwar, AIIMS Bhopal
3. Dr. Ravindra Makde, RRCAT Indore
4. Dr. Debasis Nayak, IISER Bhopal
5. Dr. Sharad Gupta, IIT Indore
6. Dr. Parimal Kar, IIT Indore
7. Dr. Sunil Kumar Boda, IIT Indore
8. Dr. Tarun Sharma, THSTI Gurgaon
9. Dr. Ravindra Makde, RRCAT Indore
10. Dr. Rajanish Giri, IIT Mandi
11. Dr. Jeetender Chugh, IISER Pune
12. Dr. Arvind Rengan, IIT Hyderabad
13. Dr. Vivek Borse, NIPER Hyderabad
14. Dr. Pallab Datta, NIPER Kolkata
15. Dr. Amit Jaiswal, VIT Vellore
16. Dr. Amit Prabhakar, IIIT Allahabad
17. Dr. Manashjit Gogoi, NEHU Shillong
18. Dr. Sushabhan Sadhukhan, IIT Palakkad
19. Prof. Prashant Kodgire, IIT Indore
20. Prof. Amit Kumar, IIT Indore
21. Dr. Abhijeet Joshi, IIT Indore

TARGET PARTICIPANTS

This course is tailor made for the faculty members, students, researchers, from many allied departments like Biosciences, Biotechnology, Biomedical Engineering, and Drug Discovery, Bioengineering or for researchers working in the above interdisciplinary fields.

Registration deadline: 18th March 2022

MODE OF THE PROGRAM:

Completely Online Mode

CERTIFICATE

Participants who successfully complete the course will be awarded with a certificate.

COURSE COORDINATORS

Prof. Amit Kumar: Email: amitk@iiti.ac.in,

Prof. Prashant Kodgire: Email: pkodgire@iiti.ac.in,

Dr. Abhijeet Joshi: Email: abhijeet.joshi@iiti.ac.in



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1.	Name:	
2.	Designation:	
3.	Email:	
4.	Mobile No.	
5.	Name of the Organization/Institute	
6.	Name of the Department/centre/school:	
5.	Is your institute AICTE approved Institute (Yes/No)	
6.	Category (Gen/OBC/SC/ST/Others)	
7.	Organization/Institutes identity card no. (Please attach a copy)	
8.	Certificate of AICTE recognition of the institute (See the format Page 3)	
9.	Payment details for participants of non AICTE colleges/institutes/industry	
	Amount	
	Payment Ref. No.	
	Transaction date	
	Bank etc Details	
Place:		Date:
Signature of Participant:		



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Certificate of AICTE Recognition

Certified that (Name of College/Institute)
.....
..... as well as the Academic Department to which
Mr./Ms./Dr./Prof..... Designation.....
Department..... belongs are recognized by
the AICTE.

Signature

Head of the Department

OFFICE SEAL