

Short-Term Course on AI & IoT in Biomedical Engineering

02nd – 06th May, 2023



Indian Institute of Information Technology Bhagalpur
Department of Computer Science & Engineering,
Bhagalpur – 813210 (Bihar)



Patron

Prof. Arvind Choubey
(Director, IIIT Bhagalpur)

Coordinator

Dr. Dilip Kumar Choubey
Assistant Professor
Dept. of CSE, IIIT Bhagalpur

About IIIT Bhagalpur

Indian Institute of Information Technology Bhagalpur (IIIT Bhagalpur) is one of the 25 IIITs set up by MHRD, Govt. of India and it started functioning from the academic year 2017. The institute is actively exploring the technical intervention required for the development of the country under the Make in India Initiative. The institute is in notable progress under the able leadership of Prof. Arvind Choubey, Hon'ble Director of the Institute.

The institute is currently offering B. Tech. degree in Computer Science and Engineering, Electronics and Communication Engineering and Mechatronics Engineering. The institute has started Ph.D, M.Tech and Dual Degree M.Tech & Ph.D programs from August 2021.

About the Short-Term Course

The goal of this online short-term course is to give participants a thorough grasp of how Artificial Intelligence (AI) and Internet of Things (IoT) technologies are being used in biomedical engineering. Personalized treatment, new medical equipment, healthcare services, and IoT integration have all benefited from the ever-growing amount of data collected in the healthcare industry. The foundational ideas of AI and IoT, their integration with biomedical engineering, and their applications in healthcare will all be covered in this course. Additionally, the course will give participants hands-on training using well-known software technologies used in the industry. Participants will have a stronger understanding of the Artificial Intelligence (AI), Machine Learning (ML), Deep Learning (DL) innovations and how they are used in biomedical engineering by the end of this course.

At the end of the program, the participants should be able to understand the following topics:

- Applications of AI, machine learning, and deep learning & IoT in biomedical engineering
- How AI, machine learning, and deep learning & IoT work along with motivations in biomedical engineering

- How to formulate problems into an AI, machine learning, and deep learning & IoT framework
- Applying concepts and practical knowledge in analysis, design, and development of AI, machine learning, and deep learning & IoT techniques
- Biomedical issues that the AI, ML, DL & IoT healthcare communities are currently tackling and possible solutions for them.

Chief Guest

- ✓ Prof. Sarat Kumar Patra, Director, IIIT Vadodara

Guest of Honor & Keynote Speaker

- ✓ Mr. Kundana Lal, President, Vitti Research Foundation.

Speakers

- ✓ Prof. Rajiv Misra, HoD CSE, IIT Patna, Bihar.
- ✓ Prof. Kalyan Chatterjee, HoD EE, IIT (ISM), Dhanbad, Jharkhand.
- ✓ Prof. Maheshwari Prasad Singh, HoD CSE, NIT Patna, Bihar.
- ✓ Prof. Prabhat Kumar, CSE, NIT Patna, Bihar.
- ✓ Prof. Bharat Gupta, HoD ECE, NIT Patna, Bihar.
- ✓ Dr. Sriparna Saha, Assoc. Prof., CSE, IIT Patna, Bihar.
- ✓ Dr. Dilip Singh Sisodia, Assoc. Prof. & HoD, CSE, NIT Raipur, C.G.
- ✓ Dr. Sudhakar Tripathi, Assoc. Prof. & HoD, IT, REC, Ambedkar Nagar, (U.P.).
- ✓ Dr. Mohit Kumar, Asst. Prof., IT, NIT Jalandhar, Punjab.
- ✓ Dr. Vaibhav Soni, Asst. Prof., CSE, MANIT Bhopal, M.P.
- ✓ Prof. Sanchita Ghosh, IT, IEM Kolkata, W.B.
- ✓ Dr. Jitendra Kumar, Assoc. Prof., SAS, VIT Vellore, Tamil Nadu.
- ✓ Dr. Sandeep Raj, Asst Prof., ECE, IIIT Bhagalpur, Bihar.

- ✓ Dr. Dilip Kumar Choubey, Asst Prof., CSE, IIIT Bhagalpur, Bihar.

Account Number: 40204916172
IFSC Code: SBIN0011805

**Short-Term Course on
AI & IoT in Biomedical Engineering
(02nd - 06th May, 2023)**

Who can Participate?

Students, Industry personals, Research Scholars, and Faculty members of UGC/AICTE/MHRD recognized Institutes, Universities and Engineering colleges all over India and abroad.

Registration Fee

From Academic/Industry: Rs 500.00

Last date of submission of application

30th April, 2023

Number of Seats (tentative)

50 (on First cum first serve basis)

Mode of Payments

1. SBI Collect:

- i. Open SBI Collect website through the following link:
<https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>
- ii. Select Educational Institutions
- iii. Select State as Bihar and search for IIIT Bhagalpur in the presented list.
- iv. Select the Payment Category as 'MISC'
- v. Fill in the Payment Details, Note: write the purpose as 'AI & IoT in Biomedical Engineering'
- vi. Confirm your enter details
- vii. Choose your preferred payment options and complete your payment details.
- viii. Print the payment receipt and upload it to the google forms mentioned below section

2. For Internet Banking User:

Bank Name: State Bank of India
Account Name: IIIT Bhagalpur

Registration Process

1. Registration can be done through the attached brochure or following the link mentioned below.

<https://forms.gle/Kuv8N7p3S2QLRcAv6>

2. Total number of seats is 50. Selection will be made purely on First-Come-First-Serve basis (Subject to fulfilling the eligibility criteria).

The brochure and the registration form may be downloaded from the Institute website. <https://www.iiitbh.ac.in/>

Patron

**Prof. Arvind Choubey, Director, IIIT Bhagalpur
Chairperson**

Dr. Babul Prasad Tewari, HoD CSE, IIIT Bhagalpur

Coordinator

Dr. Dilip Kumar Choubey, CSE, IIIT Bhagalpur

Organizing Committee

Dr. Thejaswini M, CSE, IIIT Bhagalpur
Dr. Pradeep Kumar Biswal, CSE, IIIT Bhagalpur
Dr. Sandeep Raj, ECE, IIIT Bhagalpur
Dr. Chandan Kumar Jha, ECE, IIIT Bhagalpur
Dr. Gaurav Kumar, MeA, IIIT Bhagalpur

Address for Correspondence

Enquiry should be addressed to:

Dr. Dilip Kumar Choubey

Asst. Prof., Dept. of CSE

IIIT Bhagalpur, Sabour, Bhagalpur, Bihar-813210, India

Email: dkchoubey.cse@iiitbh.ac.in

Mobile: +91 7033789676

Participants will get e-certificate after the successful completion of the course.

REGISTRATION FORM

Name (Mr/Ms/Dr.)

Designation.....

Department.....

Institute/Organization.....

Address.....

.....

Email

Mobile Number

WhatsApp Number.....

Payment Details:

Online payment Reference number

.....

Date

Amount.....

Signature of Applicant

Click the following link for online registration:

<https://forms.gle/Kuv8N7p3S2QLRcAv6>