

भारतीय सूचना प्रौद्योगिकी संस्थान भागलपुर, बिहार

Indian Institute of Information Technology
Bhagalpur, Bihar

(Institute of National Importance under Act of Parliament)



Virtual Short-Term Course on Artificial Intelligence & IoT Applications in Biomedical Engineering

15th – 19th November, 2021

Organized by

Dept. of Electronics & Communication
Engineering

IIIT Bhagalpur, Bhagalpur – 813210 (Bihar)



Patron

Prof. Arvind Choubey
(Director, IIIT Bhagalpur)

Coordinators

Dr. Sandeep Raj and Dr. Chandan Kr. Jha
Assistant Professor,
Dept. of ECE, IIIT Bhagalpur

About IIIT Bhagalpur

Indian Institute of Information Technology Bhagalpur (IIIT Bhagalpur) is an Institute of National Importance, MoE (earlier MHRD), Govt. of India in Public-Private Partnership (PPP) mode. Bhagalpur is a city of historical importance on the southern banks of the river Ganges in the Indian state of Bihar and popularly known as Silk City. 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.

Presently, the institute offers B. Tech in engineering in three disciplines 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.

Theme

It gives an opportunity for participants to get acquainted with biomedical signal & image processing applications using artificial intelligence & machine learning techniques to provide computer-aided diagnostic (CAD) tools and biomedical devices in the medical domain. These tools can be used in detection and prediction of diseases related different human organ such as heart, brain, lungs etc.

Objective and Outcomes

The major objective of this Virtual Short-Term Course is to address a detail exposure to faculty members and research scholars, post graduates and undergraduates of different institutions about the most recent innovations, trends, concerns, practical challenges encountered, and the solutions adopted in the field of emerging trends in Artificial Intelligence applications into the Biomedical engineering domain.

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

- Signal and Image Analysis: ECG & EEG signal analysis, X-ray, MRI, CT scan.
- Role of artificial intelligence in the COVID-19 pandemic era.
- Session on the detection of seizure using machine learning tools.
- Use spectroscopy for clinical diagnosis.
- Detection of cold using speech signal processing.
- IoT for healthcare.

Chief Guest

- ✓ Prof. P. K. Singh, Director, AIIMS Patna.

Guest of Honor

- ✓ Prof. Anurag Agrawal, Director, IGIB, New Delhi.

Other Speakers

- ✓ Prof. Sarat Kumar Patra, Director, IIIT Vadodara.
- ✓ Dr. Sumit Aggrawal, ICMR, New Delhi
- ✓ Prof. Prem Kumar, Dept. of Radiology, AIIMSP.
- ✓ Dr. Maheshkumar Kolekar, Dept of EE, IIT Patna.
- ✓ Dr. AlokNath De, Senior Vice-President and Chief Technology Officer, SAMSUNG India Software.
- ✓ Dr. Mukta Agrawal, Dept. of Gynecology, AIIMSP.
- ✓ Dr. Alok Ranjan, Dept. of CFM, AIIMS Patna
- ✓ Dr. Anwasha Sengupta, Dept of EE, NIT Rourkela
- ✓ Dr. Ajay Pratap, Dept. of CSE, IIT BHU
- ✓ Dr. Abhinoy Kumar Singh, Dept. of EE, IIT Indore
- ✓ Dr. Deepika Shukla, PTUF, Bengaluru
- ✓ Dr. Suman Deb, Dept. of ECE, SVNIT Surat

Target Participant

Industry people, faculty members, research scholars, post-graduates and undergraduate's students of recognized universities & Institutions all over India and abroad.

Registration Fee

From Academic: Rs 500.00 + 18% GST = Rs 590.00
From Industry: Rs 1000.00 + 18% GST = Rs 1180.00

Last date of submission of application:
14th November, 2021.

Number of Seats (Tentative):
50 (On first come first basis)

Mode of Payments

Account Name: IIIT Bhagalpur

Bank Name: State Bank of India, Sabour

Account Number: 40204916172

IFSC Code: SBIN0011805

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

Registration Process

1. Registration can be done through attached brochure or following the link mentioned below.
<https://forms.gle/RMUDo9RJ7o8eoMnv6>
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.

Chairperson

Dr. Dheeraj Kr. Sinha, Head ECE, IIIT Bhagalpur

Advisory Committee

Dr. Gaurav Kumar, Registrar I/C, IIIT Bhagalpur
Dr. Pradeep Kr. Biswal, Head CSE, IIIT Bhagalpur
Dr. Himadri Nayak, Head BSH, IIIT Bhagalpur

Technical Advisors

Dr. Sanjay Kumar, Dept. of ECE, IIIT Bhagalpur
Dr. Prakash Ranjan, Dept. of ECE, IIIT Bhagalpur

Organizing Committee

Dr. Suraj, Dept. of ECE, IIIT Bhagalpur
Dr. Dhurbajyoti Bhattacharya, ECE, IIIT Bhagalpur
Dr. Rupam Bhattacharya, CSE, IIIT Bhagalpur
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Dr. Tameshwer Nath, MEA, IIIT Bhagalpur
Dr. Purnendu Mandal, MEA, IIIT Bhagalpur

Address for Correspondence

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Short Term Course

on

Artificial Intelligence & IoT Applications in Biomedical Engineering

REGISTRATION FORM

Name (Mr/Ms/Dr.)

Designation.....

Department.....

Institute/Organization.....

Address.....

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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/RMUDo9RJ7o8eoMnv6>