

भारतीय सूचना प्रौद्योगिकी संस्थान भागलपुर
Indian Institute of Information Technology
Bhagalpur

(Institute of National Importance Under an Act of Parliament)



Two Weeks
Faculty Development Program

on

Artificial Intelligence and
Machine Learning in Healthcare
and Agriculture

12th – 23rd December, 2022



Patron

Prof. Arvind Choubey
Director, 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 FDP

This online short-term course is aimed at imparting knowledge and training on the fundamentals and advancements of artificial intelligence and machine learning in healthcare and agriculture. Expert lectures will be delivered by faculty members from academia and industry. This programme will be beneficial to faculty members, research scholars, PG students who intend to pursue research in the field of processing and analysis of data using techniques such as Artificial Intelligence (AI), Machine Learning (ML) and Deep Learning (DL) for Healthcare and Agriculture.

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

- How AI, machine learning and deep learning works along with motivations in healthcare and agriculture.
- Applications of AI, machine learning and deep learning in healthcare and agriculture sector.
- How to formulate problems into artificial intelligence, machine learning and deep learning framework.
- Apply the concepts and practical knowledge in analysis, design and development of AI, machine learning, deep learning techniques.
- Practical session on machine learning and deep learning techniques by using python majorly in healthcare and agriculture.
- Disease types in both healthcare and agriculture that the AI and machine learning communities are currently tackling.

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Sponsored by

AICTE Training and Learning
(ATAL) Academy

12th – 23rd December, 2022



Organized by

Department of Computer Science and
Engineering,
IIIT Bhagalpur

Coordinator

Dr. Dilip Kumar Choubey
CSE, IIIT Bhagalpur

Co-Coordinator

Dr. Babul Prasad Tewari
CSE, IIIT Bhagalpur

About AICTE Training and Learning

AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development e.g. SWAYAM, MOOCs, Start-up Initiatives, Prime Minister Kaushal Vikas Yojana (PMKVY), Sansad Adarsh Gram Yojana (SAGY), Swachh Bharat/Unnat Bharat Abhiyan, Yoga Activities etc. There is an urgent need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. It was felt that Training with latest tools and technologies is vital to keeping an institute competitive and more productive. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies.

Target Participants

Assistant Professors/Associate Professors/Ph.D. scholars/PG students of the AICTE recognized universities and engineering colleges.

Eligibility to Attend FDP

Faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/ Technicians Participants from Industry etc.) and staff of host institutions. Not more than 30% from Host Institution Stress reduction

Registration Fee: Nil

There is no fee for attending this FDP
Participants can register for this course on AICTE ATAL by following steps

<https://atalacademy.aicte-india.org/signup>

How to register?

Step 1. One can Register themselves with an email id (sign up). If one has already registered, then login.

Step 2. Click on Workshops FDPs.

Step 3. Search by type “ATAL” and Month “December” from above dropdown box.

Step 4. Click the RED plus sign button to register.

Step 5. A short notification “successfully course registered” appears.

Step 6. One can also check their registration by clicking on the Applied Workshops (after done successfully registration)

Number of Seats (Maximum): 50 (on first come first basis)

Details of FDP Mode

The mode of the FDP is ONLINE (week 1) and OFFLINE (week 2) There is no Registration fee from any participant. Preference will be given to new participants. Program will be delivered through online mode.

Test & e-Certificate

- A test shall be conducted by the coordinator at the end of the program.
- The e-certificates shall be issued to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

RESOURCE PERSONS

Prof. Arvind Choubey, Director, IIIT Bhagalpur

Mr. Kundana Lal, President, Vitti Foundation

Prof. Rajiv Misra, CSE, IIT Patna

Prof. Kalyan Chatterjee, HoD EE, IIT (ISM), Dhanbad

Prof. Maheshwari Prasad Singh, HoD CSE, NIT Patna

Prof. Prabhat Kumar, CSE, NIT Patna

Dr. Jyoti Prakash Singh, Assoc. Prof., NIT Patna

Dr. Akshay Deepak, Assoc. Prof., NIT Patna

Dr. Sandeep Raj, Asst. Prof., ECE, IIIT Bhagalpur

Dr. Dilip Kumar Choubey, Asst. Prof., CSE, IIIT Bhagalpur

ORGANIZING COMMITTEE

Patron

Prof. Arvind Choubey, Director, IIIT Bhagalpur

Chairperson

Dr. Babul Prasad Tewari, HoD CSE, IIIT Bhagalpur

Coordinator

Dr. Dilip Kumar Choubey, CSE, IIIT Bhagalpur

Co-Coordinator

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Dr. Thejaswini M, CSE, IIIT Bhagalpur

Dr. Chandan Kumar Jha, ECE, IIIT Bhagalpur

Dr. Dheeraj Kumar Sinha, ECE, IIIT Bhagalpur

Dr. Dhruvajyoti Bhattacharya, ECE, IIIT Bhagalpur

Dr. Prakash Ranjan, ECE, IIIT Bhagalpur

Dr. Sanjay Kumar, ECE, IIIT Bhagalpur

Dr. Sandeep Raj, ECE, IIIT Bhagalpur

Dr. Suraj, ECE, IIIT Bhagalpur

Dr. Abhinav Gautam, MEA, IIIT Bhagalpur

Dr. Gaurav Kumar, MEA, IIIT Bhagalpur

Dr. Purnendu Kumar Mandal, MEA, IIIT Bhagalpur

Dr. Tameshwer Nath, MEA, IIIT Bhagalpur

Dr. Himadri Nayak, BSH, IIIT Bhagalpur

Dr. Pankaj Kumar Tiwari, BSH, IIIT Bhagalpur

CONTACT DETAILS

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Registration:

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SCHEDULE PLAN
Two Weeks Faculty Development
Program
on
Artificial Intelligence and Machine
Learning in Healthcare and Agriculture
(Week 1 – Online)

12/12/2022 (Day 1)	13/12/2022 (Day 2)	14/12/2022 (Day 3)	15/12/2022 (Day 4)	16/12/2022 (Day 5)	17/12/2022 (Day 6)
07:00 PM - 07:50 PM Session 1 (I) Prof. Prabhat Kumar	07:00 PM - 07:50 PM Session 2 (I) Prof. Maheshwari Prasad Singh	07:00 PM - 07:50 PM Session 3 (I) Mr. Kundana Lal	07:00 PM - 07:50 PM Session 4 (I) Prof. Rajiv Misra	07:00 PM - 07:50 PM Session 5 (I) Prof. Kalyan Chatterjee	07:00 PM - 07:50 PM Session 6 (I) Prof. Arvind Choubey
08:00 PM – 08:50 PM Session 1 (II) Prof. Prabhat Kumar	08:00 PM – 08:50 PM Session 2 (II) Prof. Maheshwari Prasad Singh	08:00 PM – 08:50 PM Session 3 (II) Mr. Kundana Lal	08:00 PM – 08:50 PM Session 4 (II) Prof. Rajiv Misra	08:00 PM – 08:50 PM Session 5 (II) Prof. Kalyan Chatterjee	08:00 PM – 08:50 PM Session 6 (II) Prof. Arvind Choubey
09:00 PM - 09:30 PM Session 1 Prof. Prabhat Kumar Interactions	09:00 PM - 09:30 PM Session 2 Prof. Maheshwari Prasad Singh Interactions	09:00 PM - 09:30 PM Session 3 Mr. Kundana Lal Interactions	09:00 PM - 09:30 PM Session 4 Prof. Rajiv Misra Interactions	09:00 PM - 09:30 PM Session 5 Prof. Kalyan Chatterjee Interactions	09:00 PM - 09:30 PM Week 1 MCQs

SCHEDULE PLAN
Two Weeks Faculty Development
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(Week 2 – Offline)

19/12/2022 (Day 1)	20/12/2022 (Day 2)	21/12/2022 (Day 3)	22/12/2022 (Day 4)	23/12/2022 (Day 5)
09:00 AM to 09:30 AM Inauguration	09:30 AM to 12:00 PM Dr. Jyoti Prakash Singh	09:30 AM to 12:00 PM Dr. Jyoti Prakash Singh	09:30 AM to 12:00 PM Dr. Sandeep Raj	09:30 AM to 12:00 PM Prof. Kalyan Chatterjee
09:30 AM to 12:00 PM Dr. Jyoti Prakash Singh	12:00 PM to 01:00 PM Article 1 Discussion	12:00 PM to 01:00 PM Article 2 Discussion	12:00 PM to 01:00 PM MCQs	12:00 PM to 01:00 PM Visit Report (Team)
12:00 PM to 01:00 PM Lunch	01:00 PM to 02:00 PM Lunch	01:00 PM to 02:00 PM Lunch	01:00 PM to 02:00 PM Lunch	01:00 PM to 02:00 PM Lunch
01:00 PM to 02:00 PM Travel for Visit	02:00 PM to 04:00 PM Dr. Akshay Deepak	02:00 PM to 04:00 PM Dr. Akshay Deepak	02:00 PM to 04:00 PM Dr. Dilip Kumar Choubey	02:00 PM to 03:00 PM Reflection Journal
02:00 PM to 04:00 PM Visit	04:00 PM to 05:15 PM Teaching Practice	04:00 PM to 05:15 PM Teaching Practice	04:00 PM to 05:15 PM Teaching Practice	03:00 PM to 04:00 PM Feedback
04:00 PM to 05:00 PM Travel back				04:00 PM to 05:15 PM Valedictory