



Indian Institute of Technology Patna Department of Electrical Engineering



Basic AICTE ATAL

Faculty Development Programme On

Artificial Intelligence (AI) –Powered Smart Healthcare Systems

(November 07-18, 2022)

Coordinators:

Dr. Rajib Jha, Associate Professor & Head

Dr. Udit Satija, Assistant Professor

Department of Electrical Engineering, IIT Patna



About AICTE ATAL:

AICTE Training and Learning (ATAL) Academy is an initiative by AICTE aiming at empowering faculty to achieve goals of Higher Education such as access, equity and quality. This academy is designed to fulfil the need to train the young generation in skill sector and having faculty and technicians to be trained in their respective disciplines. It was felt that Training with latest tools and technologies is vital to keep 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. It also transforms them to harmonize with society and most importantly to make them a good citizen of the country.

About IIT Patna:

Indian Institute of Technology Patna is an autonomous institute of education and research in science, engineering and technology located in Bihta, 35 km from Patna. Presently, IIT Patna has 10 academic departments that offer B.Tech., M.Tech., and Ph.D. programs. The faculty members of this institute come with academic and research training from various institutes of excellence within the country and abroad. The recent publication records of the faculty with several practical constraints appear to be outstanding. It includes many national and international journals of repute. Recently, IIT Patna has been ranked as the 21th best engineering college in recent NIRF released by the Education Ministry, Govt. of India

Course Objectives:

Artificial intelligence (AI) has gained significant attention due to its widespread applications in various domains including designing of different healthcare systems. This course will give an opportunity to gain exposure in recent advances in signal processing, image processing, and machine learning techniques which are used in designing various AI –driven healthcare systems. This course aims to impart knowledge and train on fundamentals of engineering aspects of different image and signal processing techniques which can help participants in developing smart healthcare systems.

Target Audience:

The faculty members of the AICTE/UGC approved institutions, research scholars, PG Scholars, participants from the Government organizations, Industry (Bureaucrats / Technicians / Participants from Industry etc.) and staff of host institutions.

Organizing Committee:

Patron:

Prof. T. N. Singh,
Director, IIT Patna.

Coordinators:

Dr. Rajib Jha & Dr. Udit Satija,
Department of EE, IIT Patna.

Resource Persons:

- Prof. Prabir Kumar Biswas, IIT Kharagpur.
- Prof. R. Balasubramanian, IIT Roorkee.
- Prof. Awalendra K. Thakur, IIT Patna.
- Dr. M. Sabarimalai Manikandan, IIT Palakkad.
- Dr. Yogesh Kumar, AIIMS Patna.
- Dr. Rajib Jha, IIT Patna.
- Dr. Kamlesh Kr. Jha, AIIMS Patna.
- Dr. Udit Satija, IIT Patna.
- Dr. Rajesh Pandey, IIT BHU.
- Dr. Ravi Babu, IIT Delhi.
- Dr. Badri Subudhi, IIT Jammu.
- Dr. Vinod Mishra, IIT Roorkee.

Registration:

Interested participants are required to register through the AICTE ATAL portal and select this FDP. All aspects such as participants' registration, attendance, feedback, assessment and certificate will be managed only through AICTE ATAL portal.

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

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Contact details:

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BASIC AICTE ATAL FDP/CPDP Week 1 and Week 2

Week 1 - online(7:00 pm – 9:30 pm)

November 7	November 8	November 9	November 10	November 11	November 12
7:00-7:50 Session 1 (I)	7:00-7:50 Session 2 (I)	7:00-7:50 Session 3 (I)	7:00-7:50 Session 4 (I)	7:00-7:50 Session 5 (I)	7:00-7:50 Session 6 (I)
8:00 – 8:50 Session 1 (II)	8:00 – 8:50 Session 2 (II)	8:00 – 8:50 Session 3 (II)	8:00 – 8:50 Session 4 (II)	8:00 – 8:50 Session 5 (II)	8:00 – 8:50 Session 6 (II)
9:00 – 9:30 Session 1 Interactions	9:00 – 9:30 Session 2 Interactions	9:00 – 9:30 Session 3 Interactions	9:00 – 9:30 Session 4 Interactions	9:00 – 9:30 Session 5 Interactions	9:00 – 9:30 Week 1 MCQs

Week 2 – Offline (9:30am – 5:00pm)

Adjust timing to suit your local needs and ensure minimum 33 hours actual coverage

November 14	November 15	November 16	November 17	November 18
10:00 – 10:30 Inauguration	9:30 – 12:00 Session 8	9:30 – 12:00 Session 10	9:30 – 12:00 Session 12	9:30 – 12:00 Session 14
10:30 – 1:00 Session 7	12:00 – 1:00 Article 1 Discussion	12:00 – 1:00 Article 2 Discussion	12:00 – 1:00 MCQs	12:00 – 1:00 Visit Report(time)
1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch
2:00 – 2:30 Travel for Visit	2:00 – 4:00 Session 9	2:00 – 4:00 Session 11	2:00 – 4:00 Session 13	2:00 – 3:00 Reflection Journal
2:30 – 4:30 Visit to Incubation Center, IIT Patna	4:00 – 5:15 Teaching Practice	4:00 – 5:15 Teaching Practice	4:00 – 5:15 Teaching Practice	3:00 – 4:00 Feedback
4:30 – 5:15 Travel back				4:00 – 5:00 Valedictory