



Short Term/Faculty Development Program

Foundations and Modern Trends in Robotics and Automation

Sponsored by UGC (Ministry of Education),
Government of India



22nd June – 27th June 2026



Indian Institute of Information Technology (IIIT) Bhagalpur
Sabour Road, Bhagalpur, Bihar (813210)



06 Days, 36 Hours,
funded by UGC,
Government of India

(Physical Mode)

Free Registration

For registration, please visit
<https://mmc.ugc.ac.in>

“Please check next page for the
steps to be followed”

Patron:-

Prof. T. N. Singh
(Director IIT Patna)

Program

Prof. Madhusudan Singh
Director, IIIT Bhagalpur

Patron:-

Convener:- Dr. S. K. Parida (IIT Patna)
Coordinator:- Dr. Avneet Kumar (IIT Patna)
Dr. Abhinav Kr. Gautam
(IIT Bhagalpur)

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Background

The Short-Term Programme (STP/FDP) has a duration of 6 working days (36 hours)

The one-week Short-Term Programme/Faculty Development Programme will cover various themes such as Academic Leadership, Research Methodology, Climate Change, Sustainable Development Goals, Net Zero, Entrepreneurship, Indian Knowledge Systems, Gender Studies, Teacher Connect, Learner Disabilities, Design Thinking, etc.

Technology will play an important role in the teaching-learning process, monitoring, evaluation, analytics, etc.

Therefore, every MMTTC may be required to conduct at least one short-term programme on ICT applications such as Development of MOOCs, Learning Management Systems, ICT application in assessment and evaluation, Blended learning, e-content development, Open Education Resources, etc.

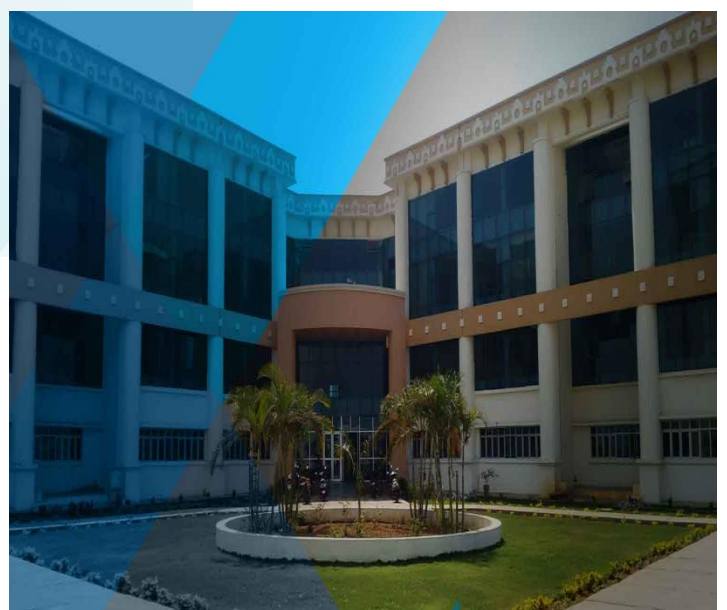
IIT Patna

Indian Institute of Technology Patna is one of the new IITs established by an Act of the Indian Parliament on August 06, 2008. Patna which was known as Pataliputra has been a center of knowledge since long has been attracting visitors and scholars from many parts of the world such as China, Indonesia, Japan, Korea, Sri Lanka, among others. This has been a land of visionaries. Some of the legends from this region include Lord Gautam Buddha, Lord Mahavir, Guru Gobind Singh, the famous astronomer Aryabhata and the first President of India, Dr. Rajendra Prasad. IIT Patna has ten departments: These are Computer Science & Engineering, Electrical Engineering, Mechanical Engineering, Chemical and Biochemical Engineering, Civil & Environmental Engineering, Materials Science & Engineering, Chemistry, Physics, Mathematics and Humanities & Social Science departments.

IIT Patna campus is located at Bihta which is approximately 40 kms from Patna. As of April 2016, IIT Patna has six hundred seventy students enrolled in its B Tech programs, one hundred sixty-one M.Tech students and two hundred fifty-nine Ph.D. students. Since inception in 2008 and till April 2016, more than four hundred students have been awarded B.Tech. degree, more than seventy-five students have been awarded M.Tech. degree and more than 20 research scholars have been awarded PhD degree. As of April 2016, faculty strength of IIT Patna is one hundred one (which includes one DST Ramanujan Faculty Fellow, one Adjunct Faculty, one DST INSPIRE Faculty and one Visiting Professor). Faculty members are supported by more than seventy efficient staff (non-teaching) members. These numbers are anticipated to increase as the Institute is growing at a steady pace. The faculty members of IIT Patna have a wide range of academic and research experience. They have been trained in the top ranked Institutes within the country and abroad. Research activity in IIT Patna has been published in high quality and peer-reviewed national and international journals. Please browse individual faculty member web-page for more information. Faculty members of IIT Patna have been also participating in national and international conferences of repute.

IIIT Bhagalpur

The Indian Institute of Information Technology Bhagalpur (IIIT Bhagalpur) was established under the Indian Institutes of Information Technology (Public-Private Partnership) Act, 2017, as part of the national initiative to expand high-quality technical education in emerging areas of information technology. The institute has been established through a collaborative framework involving the Government of India, the Government of Bihar, and Bihar State Electronics Development Corporation Limited (BELTRON) as the industry partner and declared as an Institute of National Importance in September, 2020. A significant milestone in the institute's development was achieved in February 2024, when the new campus of IIIT Bhagalpur was dedicated to the nation by the Hon'ble Prime Minister of India, further strengthening technological education and innovation in the region.



About Programme

This Faculty Development Program (FDP) is designed to provide participants with comprehensive knowledge of emerging technologies and advanced methodologies in the field of Robotics and Automation. With the rapid advancement of Industry 4.0 and intelligent manufacturing systems, robotics and automation have become key enablers for improving productivity, precision, efficiency, and safety across industries such as manufacturing, healthcare, agriculture, transportation, defense, and smart infrastructure. The program will introduce participants to the evolution, significance, and growing role of robotics and automation in modern industrial and societal applications.

The FDP will cover the fundamental concepts of robotics, automation systems, sensors and actuators, industrial robots, autonomous systems, control systems, machine vision, artificial intelligence and machine learning applications in robotics, Internet of Things (IoT), human-robot interaction, and robotic system integration. It will also include discussions on emerging research trends, practical challenges, and future directions in intelligent automation and robotic technologies. Through expert lectures, case studies, laboratory demonstrations, and hands-on sessions using simulation and software tools, the program aims to bridge the gap between theoretical understanding and real-world industrial applications. This course will be highly beneficial for faculty members, researchers, postgraduate students, and industry professionals working in the areas of robotics, automation, mechatronics, AI-enabled systems, and smart manufacturing technologies

Participants and Eligibility

Faculty members working in universities and colleges that are included under Section 2(f) of the UGC Act. The teachers at colleges that do not yet come within the purview of Section 2(f) but have been affiliated to a university for at least three years, will be permitted to participate in the courses. These conditions are applicable only for Residential Training Programs/Courses. PhD scholars at recognized institutions are also eligible

Eligibility for Nomination /Selection

The participants must be permanent faculty and PhD scholars at recognized institutes.



Duration



06 days 36 hours



**Programme
Date**



22 - 27 June 2026

Registration Process:-

Step 1:- Participants should register themselves on this link:- <https://mmc.ugc.ac.in/Home/CenterList>

Step 2:- After Registration, log in to portal with user id provided through Email.

Step 3:- Click on Dashboard then go to "Apply for others program" then Apply for "Short Term Programme/Faculty Development".

Step 4:- Please select "Indian institute of technology Patna(22nd - 27th June 2026)(IIT Patna) as a center.

Pedagogy

Each session is for 90 minutes, with a break of 15 minutes. Each day, there will be 4 sessions.

Beverages and snacks will be provided during the break(only for offline duration of the course).

we will use various pedagogies to facilitate learning.

Certificate of Participation

IIT Patna will provide a "Certification of Participation " to all participants after successfully completing the programme.

Contact Us:-

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