



Indian Institute
of Technology Patna

Executive M. Tech in Mathematics & Computing

Master Cutting-edge AI skills with IIT Advantage
Seize the opportunity to unlock
your career growth

Programme Coordinator

Dr. Nutan Tomar

Associate Professor
Head Department of Mathematics,
IIT Patna



Introduction to The Programme

This programme aims at providing theoretical and practical training to the professionals who are interested in Mathematics and Computing both.

Overview

AI is set to transform business like never before, creating new opportunities for entrepreneurs, business leaders and workers in every industry. IIT Patna's Executive M. Tech in Artificial Intelligence programme has been designed for professionals across industries, looking to gain hands-on knowledge of AI implementation while building the next generation business models.



UNDERSTAND the core principles of AI problem solving

IDENTIFY and implement appropriate deep learning algorithms



ANALYSE, evaluate and integrate various computer vision algorithms

DEVELOP machine learning models and apply them to real-world AI problems



BUILD natural language and speech processing systems

APPLY principles and algorithms to develop and evaluate (machine) learning models generated from data



Director's Message



It gives me immense joy to welcome you to the Quality Improvement Program (QIP), the new academic unit in the IIT Patna system. QIP aims to combine technology and management to prepare students to explore a future of possibilities. QIP plays a crucial role in upgrading and enhancing the capabilities and skill sets of pursuing graduates/ graduates and working professionals in technology & management education. With its industry-oriented future-centric curriculum, exceptional faculty, and strong international footprint, QIP has the right ingredients to achieve a leadership position among its peers in the time to come.

IIT Patna will undertake the following activities under QIP: Faculty Development Programme (FDP), Short Term Courses, Knowledge Dissemination Programme, National Summer & Winter Term and Internship (NSWTI), International Summer & Winter Term and Internship (ISWTI), Certificate Programmes, Online Courses and Training Programme for the School Students, Certificate Programmes, Executive Programmes.

I wish QIP and all its stakeholders a purposeful and joyful journey ahead and felicitate all its endeavours. I invite you to be part of this exciting journey and participate in the success of QIP at IIT Patna.

I welcome you to become a part of our story and to form a long-lasting association with the institute.

Prof. T.N. Singh
Director, Chief Academic Mentor, QIP, Indian Institute of Technology Patna

Associate Dean (Resource) & Professor In-Charge



Quality Improvement Program (QIP)

Dr. Asif Ekbal

**(ADean Resource & Associate Professor,
Department of Computer Science Engineering)**

**Executive M Tech in Artificial intelligence and Data Science
Engineering**

Asif Ekbal is an Associate Professor in the Department of Computer Science and Engineering at IIT Patna. He has been working in the broad areas of Artificial Intelligence, Machine Learning and Natural Language Processing since the last 18 years. His research is supported by various Govt bodies (MeitY, SERB etc) and Industries (e.g. Flipkart, Samsung Research, Wipro, Accenture etc). He has been listed in the top 2% scientists published by Stanford University, and is an awardee of Visvesvaraya Young Faculty Research Fellowship (YFRF), Govt of India; JSPS Invitation Fellowship from the Govt of Japan, and Innovative Project Award from the Indian National Academy of Engineering.

Advisory Board Members



Dr. Ravi P. Singh
Secretary General,
Quality Council of India
(September 2014-till date)



UG and PG from BHU, Varanasi, Ph.D and Postdoctoral experience in University of Western Ontario at London, CANADA. Dr Singh has experience in research, teaching and administration for the past more than 18 years in Professor Scale or above.

Past Positions:

Director, Regional Services Division (RSD), IGNOU, Maidan Garhi, New Delhi-110068 (2011-12); Founder-VC, Sharda University (2009-11); Dean, Punjab Technical University (2004-09); Associate Dean, PTU, (2003-04); Deputy Director, AICTE (2001-03); Regional Officer of AICTE, Kanpur (1996-99) and Kolkata (2000-2001); Assistant Director, AICTE (1996-01).

Education:

Ph.D (1994) and Postdoctoral Fellowship in Physics from Canada (1994-95), Gold Medal from BHU in MSc (1989), NET-CSIR qualified (1989) and Topper of Honors Program in Physics (1987).



Prof. Rajeev Srivastava
Professor CSE & Dean (Resource and
Alumni Affairs) IIT (BHU), Varanasi



Prof. Rajeev Srivastava is currently working as a Professor in the Dept. of Computer Sc. & Engineering, Head of the Centre for Computing and Information Services (CCIS) and the Dean (Resource and Alumni Affairs), Indian Institute of Technology (BHU), Varanasi. He also served as Head of the Department of Computer Science and Engineering during August'2017-December'2020. He holds the degrees of B.E., M.E., and PhD all in Computer Science & Engineering and possess 23+ years of teaching and research experience. He is a Fellow of Institution of Engineers (India) (FIE), Institution of Electronic and Telecommunication Engineers (FIETE), Senior Member IEEE USA, and Member ACM USA. He has published around 165+ research papers in reputed international journals and conferences, 04 research reference books, and 18 book chapters and a patent. He had been the Principal Investigator of research projects funded by MoE, Govt. of India and DRDO, Govt. of India. He has produced 13 PhDs, and 3 PhD thesis submitted and 04 PhDs are ongoing under his Supervision. He serves as Expert Member on different panels of NBA, UGC, UPSC, DRDO, UPPSC, reputed Institute and Universities of the Govt. of India. His research interests lies in the areas of Artificial Intelligence (AI), Machine Learning, Deep learning, Image and Video Processing, Computer Vision, and Computational Bioinformatics.



Prof. H.P. Mathur
Dean and Head
Faculty of Management Studies (Institute
Of Management Studies)
Banaras Hindu University, Varanasi



UG and PG from BHU, Varanasi, Ph.D and Postdoctoral experience in University of Western Ontario at London, CANADA. Dr Singh has experience in research, teaching and administration for the past more than 18 years in Professor Scale or above.

Current Affiliation:

Dean and Head, Institute of Management Studies, Banaras Hindu University (FMS-BHU)

Chairman, International Centre, Banaras Hindu University

Chairman, Investment Committee, Banaras Hindu University

Chairman, Placements and Corporate Affairs, Institute of Management Studies, Banaras Hindu University (FMS-BHU)

Promoter Director, Atal Incubation Centre- Mahamana Foundation for Innovation and Entrepreneurship- Institute of Management Studies (Supported by Atal Innovation Mission, NITI Aayog, Government of India)

Director/Chairman (Non-Executive), Utkarsh Welfare Foundation

Member, Board of Governors, University of Petroleum and Energy Studies, Dehradun

Member, Departmental Advisory Board, National Council of Educational Research and Training

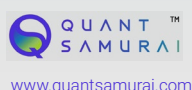
Positions (Held):

Coordinator, Placement Coordination Cell, Banaras Hindu University

Chief, University Employment and Information Guidance Bureau, Banaras Hindu University

Coordinator, International Centre, Banaras Hindu University

Industry Advisors



Rajiv Singh

Founder CEO – Quant Samurai (A Global Cybersecurity Entity)
Advisory Board of The Center For Innovation Commercialization, USA
Advisory Board of School of CyberPeace, India

Entrepreneur Experience:

Founder CEO of IndiCash (A TATA Group Venture), India

Founder CEO of ACCPAC (A Computer Associates Venture), USA

Leadership Experience:

Global Head – Cyber security - Tech Mahindra

Managing Director - Entrust Datacard, USA

President – TATA Communications Banking Infra Solutions Ltd.

Managing Director - Diebold, USA

Managing Director - Computer Associates (CA), USA

- Trusted Security Advisor to Governments, Law Enforcement, Military, and Enterprises across Global Markets. Experience with Military grade Cybersecurity Technologies & Services.
- Expertise in Innovative US Dept of Defense approved Cyber technologies, Silicon Valley & Israel Start-ups.
- NextGen Advanced Cyber Defence, Cyber Upskilling, National Security, and Zero-Trust Security Strategy.



Dr. Shourya Roy
Senior Research Director, Flipkart



Dr. Shourya Roy is a seasoned technology leader with specialization in Artificial Intelligence and Machine Learning. Over the past two decades, he has led data science, data product, and data analytics teams with IBM, Xerox, American Express, and Flipkart. His past work includes a range of foundational and applied research, strategic innovation, product management, and building local and global teams. A thought leader and author of about a hundred peer-reviewed papers in premier journals and conferences and over 30 granted patents.

The IIT Patna Advantage

**Ranked
2nd**

in Emerging Government Colleges in a Best College Ranking 2022 by India Today-MDRA

**Ranked
9th**

for placement records

**Ranked
10th**

Best Government Engineering College in the performance category overall

**2500+
alumni**

serving national and international institutions at leadership positions

Stand out with this IITP MTech Degree Certificate

A student is declared eligible for the award of an Executive M.Tech. degree if:

He/she has completed all of the credit requirements for the degree with a grade of DD or higher in each of the subjects (Theoretical, Laboratory, Workshop, Sessional, etc), Seminar, Project, and so on.

Obtained a CPI of 6.0 or higher at the end of the semester in which he/she has completed all degree requirements

Note:

- All certificate images are for illustrative purposes only and may be subject to change at the discretion of IIT Patna.

IIT Patna Alumni Benefits

Access to Lifelong IIT Patna Email ID.

Permanent access to the e-library of the institute.

Concession in IIT Patna Guest House accommodation charges.

Easy access to the campus and sports and gym facilities at IIT Patna.

Network with global alumni community and opportunity to promote startup ideas as well as their owned business.

Organise events on campus such as Homecoming events, Alumni awards ceremonies, and Reunions.

Invitation to Alumni Specific events during College Fests.

Fees	
Fees For Gen Candidate:	Fees For SC/ST/OBC/Min/EWS Candidate
₹59,100 Per Semester	₹49,100 Per Semester
Including Fees	
Exam Fees:Executive Alumni Fees: Registration Fee:	₹4,050 Per Semester ₹6,000 (One Time) ₹5000 (Included In Semester Fees)



Live Online Preparatory Classes, Assignments & Assessments shall be done till 15th June 2023.



June 2023 Assessment & Doubt Clearing QA Sessions.



W.e.f July 2023 onwards Regular Classes of 1st Semester.



1st Term Exam.



Regular Classes of 2nd Term.



2nd Term Exam.



3rd Semester Classes - Dissertation work starting July 2024 onwards.



Presentation on Thesis or Dissertation.



Final Term Research Paper Publication with Programme Coordinator.



Final Assessment.



Award of Degree Certificate during Convocation.

Degree Certificate

अभिषद की अनुशंसा पर
भारतीय प्रौद्योगिकी संस्थान पटना
के अभिशासक परिषद द्वारा

XXXX

प्रौद्योगिकी परास्नातक की उपाधि आर्टिफिसियल इंटेलिजेंस
में छब्बीस अगस्त दो हजार चौबीस को पटना में प्रदान की गयी

The Board of Governors
of the

Indian Institute of Technology Patna

upon the recommendation of the Senate hereby confers the degree of
Executive Master of Technology in Artificial Intelligence
on
XXXX

given at Patna on this Twenty Sixth day of August, Two Thousand Twenty Four

Registrar

Director

Chairman, Board of Governor

Date: 26 Aug 2024

HOW IT FITS WITH
YOUR CAREER?

EMAILS US:
info@iitp-cep.in
Admissions.iitp@gmail.com



Microtek Educational Society

www.microtek.ac.in

VISIT OUR WEBSITE
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9021156156

Indian Institute of Technology, Patna

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READY TO ADVANCE
YOUR CAREER?

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SPEAK TO A PROGRAM ADVISOR
HAVE QUESTIONS ABOUT THE PROGRAM OR

HOW IT FITS WITH YOUR CAREER?

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Admissions.iitp@gmail.com

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