

Executive

M. Tech in

Computer Science & Engineering

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

Programme Coordinator

Dr. Sriparna Saha

Associate Professor Computer Science and Engineering, IIT Patna



Overview

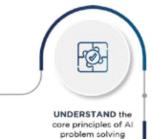
Al is set to transform business like never before, creating new opportunities for entrepreneurs, business leaders and workers in every industry. IIT Patna's Executive M. Tech in Artificial Intelligence programme has been designed for professionals across industries, looking to gain hands-on knowledge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

Who is this Programme for?

Early to Mid Level Professionals seeking career growth.

This programme is aimed to provide hands-on knowledge of Al implementation especially in the areas of Speech Technologies, Computer Vision and Natural Language Processing to early-career enthusiasts such as:

Data Analysts, Business Analysts, Data Scientists, ML Engineers, Computer Programmers, Developers, Software Engineers



IDENTIFY and implement appropriate deep learning algorithms

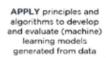


ANALYSE, evaluate and integrate various computer vision algorithms DEVELOP machine learning models and apply them to real-world AI problems





BUILD natural language and speech processing systems





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



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.

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

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





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

Current Affiliation:

Dean and Head, Institute of Management Studies, Banaras Hindu University

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, NITIAayog, Government of India Director/Chairman (Non-Executive), Utkarsh Welfare Foundation Member, Board of Governors, University of Petroleum and Energy Studies,

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



QUANT M SAMURAI www.guantsamurai.com







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

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 &
- Expertise in Innovative US Dept of Defense approved Cyber technologies, Silicon Val-
- NextGen Advanced Cyber Defence, Cyber Upskilling, National Security, and Zero-Trust
- · Security Strategy.



Dr. Shourya Roy Senior Research Director, Flipkart

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.



Ranked* 2nd

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

Ranked* 9th

for placement records

Ranked *

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.

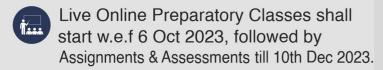
Organise events on campus such as Homecoming events, Alumni awards ceremonies, and Reunions. Invitation to Alumni Specific events during College Fests.

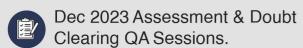


100% PLACEMENT SUPPORT*

rees	
Fees For Gen Candidate:	Fees For SC/ST/OBC/ Min/EWS Candidate
₹64,500 Per Semester	₹59,100 Per Semester
Including Fees	
Exam Fees: Executive Alumni Fees: Registration Fee:	₹4,050 Per Semester ₹6,000 (One Time) ₹5000 (Included In Semester Fees







- w.e.f Jan 2024 onwards Regular Classes of 1st Semester.
- 1st Term Exam.
- Regular Classes of 2nd Term.
- 2nd Term Exam.

- 3rd Semester Classes Dissertation work starting Jan 2025 onwards.
- Presentation on Thesis or Dissertation.
- Final Term Research Paper Publication with Programme Coordinator.
- Final Assessment.
- Award of Degree Certificate during Convocation (2026).



Kanpa Road, Bihta, Patna – 801106, India, Phone: 06115-233102

Executive M.Tech in CSE

Preparatory Class Schedule (Tentative)

October 06, 2023

Introduction to Computer Science and Engineering

October 07, 2023

Introduction to Artificial Intelligence and Data Science Engineering

October 13, 2023

Fundamentals of Data Structures

October 14, 2023

Assignments on Data Structures using C

October 20, 2023

Preliminary of Algorithms

October 21, 2023

Assignments on Algorithm

October 27, 2023

Search on AI and Data Science-I

October 28, 2023

Tutorial on Python

November 04, 2023

Search in AI and Data Science-II

November 05, 2023

Database Preliminary

November 11, 2023

Assignments on Database

November 12, 2023

Fundamentals of Machine Learning -I

November 18, 2023

Fundamentals of Machine Learning -II

November 19, 2023

Assignment on Machine Learning

November 25, 2023

Neural Network Preliminaries

November 26, 2023

Assignments on Neural Networks

December 01, 2023

Interaction

Online Assessment: December 10, 2023

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HOW IT FITS WITH YOUR CAREER?

EMAILS US:

info@iitp-cep.in Admissions.iitp@gmail.com executive.cep@iitp.ac.in

VISIT OUR WEBSITE

www.iitp-cep.in | www.iitp.ac.in/qip

Degree Certificate

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

YYYY

प्रौद्योगिकी परास्नातक की उपाधि आर्टिफीसियल इंटेलिजेंस में छब्बीस अगस्त दो हज़ार चौबीस को पटना में प्रदान की गयी

The Board of Covernors of the

Indian Institute of Technology Datna

upon the recommendation of the Benate hereby confers the degree of Executive Master of Technology in Artificial Intelligence

on

XXXX

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

Registrar

Director

Chairman, Board of Governor

Date: 26 Aug 2024

9021156156

HOW IT FITS WITH YOUR CAREER?

EMAILS US:

info@iitp-cep.in Admissions.iitp@gmail.com executive.cep@iitp.ac.in

VISIT OUR WEBSITE

www.iitp-cep.in | www.iitp.ac.in/qip

Indian Institute of Technology, Patna

Indian Institute of Technology Patna, Bihta, Patna -801106 (Bihar)

READY TO ADVANCE YOUR CAREER?

APPLY NOW

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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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