



# M. Tech in

## Artificial Intelligence & Data Science Engineering



BUSINESS

What is AI?  
A Beginner's Guide



### Electives

Advanced Communication Systems

Big Data Analytics

Blockchain Technology

Cybersecurity

Edge (Cloud) Computing

Embedded Systems

Internet of Things

Natural Language Processing (NLP)



# 1 in India  
# 13 in Asia in  
NLP  
csrankings.org\*



# 2 in India  
Today's MDRA  
Ranking 2023\*



# 21 National  
Institutional  
Ranking Framework\*



# 106 in the  
BRICS QS  
University  
Rankings\*



# 601  
World University  
Rank 2024\*

> Hybrid (Online/In Campus) mode of instruction

> IIT Patna Alumni Status

### 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 & Data Science Engineering programme has been designed for professionals across industries, looking to gain hands-on knowledge of AI 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 AI 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, Softwarer Engineers.

### Programme Features



100% Live interactive classes (Online)  
with doubt clearing sessions on weekends



Fully Compliant to NEP 2020  
Curriculum Framework Structure



Industry Skill Oriented & at par with  
Global standard



Course learning outcome mapped  
with Industry Demand



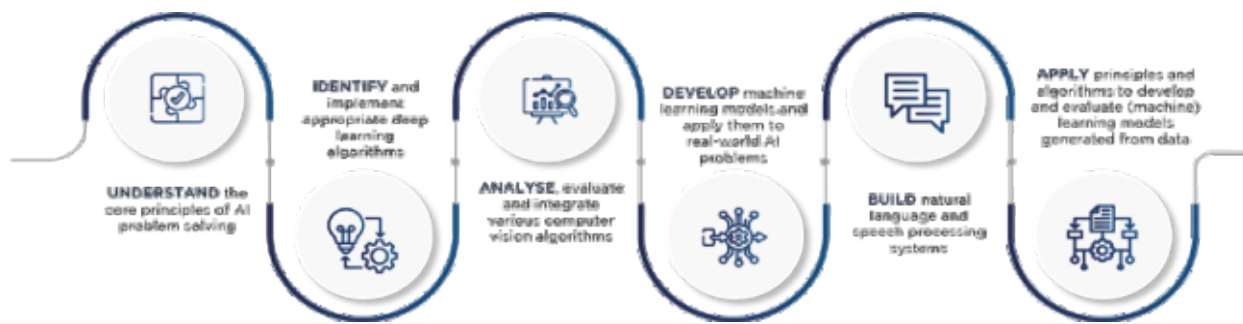
Remote access of the eLibrary of  
IIT Patna



Unique blend of learning and work experience  
through PAID APPRENTICESHIP / Internship  
opportunities based on merit



Accident & Health Insurance Cover  
for Students and Parents



# 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**

**Dean (Academics & Administration)**

**Prof. A. K. Thakur**

Prof. A. K. Thakur continuing currently as the Professor of Physics at the Department of Physics at Indian Institute of Technology, Patna & Dean Academics, IIT Patna. Prof. Thakur is Gold Medalist at M.Sc.(Physics). He is recipient of the coveted "Nehru Fellowship" for pursuing Doctoral Research at the National University of Singapore (QS Rank 8). Currently, he is Vice president of the Asian Society for Solid State Ionics

The research expertise of Prof. Thakur is experimental condensed matter physics and applied physics with interest of specific experimental research comprising; a). Renewable clean and green energy, b). Solid state Ionic devices, c). Storage cells, d). Solar photovoltaics, e). Dielectrics and Ferroelectrics, f). Processing & fabrication of nanomaterials, g). E.M.I. shielding, h). Battery Management System (BMS) design and fabrication for operational safety of battery packs for EV applications, i). Product design simulation and development for commercialization.



**Associate Dean (RnD & Resource) & Project Director (TiH), IIT Patna**

**Dr. Anup Keshari**



**Programme Coordinator**

Anup Kumar Keshari is currently an Associate Professor in Dept. of Metallurgical and Materials Engineering at Indian Institute of Technology (IIT), Patna, India since Feb. 2022. Before joining IIT Patna, Dr. Keshari worked with Centre for Nanotechnology Group, Bharat Heavy Electricals Limited (BHEL), Corporate R&D, Hyderabad, India between April 2012-September 2013. He worked as an Associate Professor in School of Mechanical and Building Sciences at Vellore Institute of Technology (VIT), Vellore, India since April 2011. Anup Kumar Keshari, received his Ph.D. degree in Materials Science and Engineering from Florida International University (FIU), Miami, USA in July, 2010 and worked as Postdoctoral fellow in FIU until March 2011. He has a B.E. degree in Metallurgical Engineering from Bihar Institute of Technology (BIT), Sindri, India in 2002 and a M.S. degree in Metallurgical and Materials Engineering from Indian Institute of Technology (IIT), Madras, India in 2004. He worked as Asst. Manager in Ispat Industries Limited, Mumbai (2004– 2006). His main research interest lies in surface Engineering, plasma spraying, CNT/graphene reinforced metal and ceramic composite coatings, mechanical, corrosion and tribological behavior of coatings.





# 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:

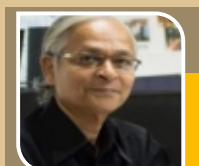
Ph.D (1994) and Postdoctoral Fellowship in Physics from Canada (1994-95), Gold Medal from BHU in MSc (1989), NET-CSIR qualified (1989) and Topper of Honors Program in Physics (1987).



**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:

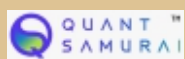
Dean and Head, Institute of Management Studies, Banaras Hindu University (FMS-BHU)

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



[www.quantsamurai.com](http://www.quantsamurai.com)



Increase your Cyber  
Quotient

#### 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.

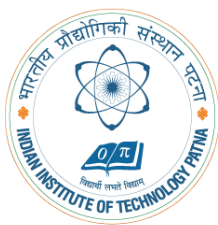


**Dr. Shourya Roy**  
Senior Research Director, Flipkart



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.





"Enrol, Educate, Excel and Transform Career Trajectory"

## Stat of 2022-23 Placement Session

		Sectors
Placement Percentage	: 91.26%	• Analytics/Consulting,
Average Pay Package	: 23.09 LPA	• Fintech
Highest Pay Package	: 82.05 LPA	• Banking & Finance
No. of visiting company	: 165	• E-Commerce
No. of international offers	: 19	• Ed Tech, IT/Software
		• Manufacturing Core
		• Research & Development
		• Automotive
		• Education
		• Healthcare
		• Logistic & Others.







# M.Tech (AI & DSE)

## Admission Eligibility Criteria 2024-26

### Domestic Indian Candidates

1. An aspiring student should have a B.Tech / BE / MSc (Computer Science/Information Technology/Bio-informatics, Biotechnology, Mathematics, Statistics, Physics, Information Science) / MCA / ME / M.Tech degree.
2. At least a 60% scored in the final marks of the eligible degree program or a minimum CGPA or CPI of 6.5 on the scale of 0-10 with corresponding proportional requirements when the scales are other than 0-10 (for example, 4.8 on a scale of 0-8).
3. In case of MCA /MSC passed with UG, the percentage score of MCA/MSC would be considered. In case of a BE/BTech Engineering degree passed without PG specialization, the percentage score of the undergraduate degree would be considered. In case of an engineering graduate degree pass out with a post-graduation in the Engineering field of study, either of the UG or PG score qualification can be considered.

### Relaxation:

In case of the candidate belonging to scheduled caste (SC)/ Scheduled Tribe (ST)/ Persons with Disability (PwD) category, this is relaxed to 55% or equivalent CGPA/ CPI.

### International Candidates

A foreign national or person of Indian origin (PIO) holding a foreign passport quality is to be considered an international applicant.

1. A four-year Bachelor's degree or a Master's Degree in any discipline with first class or a cumulative CGPA/CPI equivalent to 60% marks in aggregate (e.g., minimum CPI of 6.5 out of 10) is required.
2. CA, CS, CFA, ICWA, ACCA, CIMA or FRM qualification holders with a preceding undergraduate degree in any discipline with first class or a cumulative CGPA/CPI equivalent to 60% marks in aggregate (ex.: minimum CPI of 6.5 out of 10),
3. Those appearing for the final degree examination can also apply. The admission in such cases will be provisional subject to their fulfilling the minimum eligibility criteria stated in (1) or (2) before commencement of the program.
4. English proficiency test qualification evidenced by TOEFL/IELTS score is mandatory. However, it may be waived for applicants who completed their graduation with English as the medium of instruction (a letter from their University that English was their first language during their undergraduate degree is required).
5. Valid Score in aptitude test(s): GRE/GMAT/CAT/BMAT/GATE is desirable.

FEE STRUCTURE	
Domestic Indian Candidates	International Candidates
Registration Fee	
₹5,000 (Included In Semester Fee)	\$100 (Included In Semester Fee)
Semester Fee	
₹73,000 Per Semester	\$1,810 Per Semester
Alumni Fee (One Time)	
₹ 6,000 (One Time)	\$ 150 (One Time)

### Fee Payment Detail

#### or Bank Transfer

Account Name: **CEP-IIT PATNA-MICROTEK**  
Account No : **40987488564**  
IFSC No : **SBIN0017164**  
MICR Code : **801002005**  
Swift Code : **SBININBB**  
Branch : **IIT Patna, Bihta Campus, Bihar**

#### or Scan & Pay



You can also pay your fee on **easy EMI with 0% interest and 0 down payment.**

Contact: **+91 9795093000**  
accounts@iitp-cep.in

By using UPI on

UPI ID:90958035218@SBI

# "Enrol, Educate, Excel and Transform Career Trajectory"

**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

**3300+\***  
**Alumni**

serving national and  
international institutions at  
leadership positions

## Stand out with this IITP M.Tech 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\*














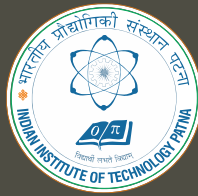
**Seats are filling up fast for this exciting Master's Degree program and early applications are encouraged!**

\* Conditions Apply





-  Live Online Preparatory Classes shall start w.e.f 30 March 2024, followed by Assignments & Assessments till 15th June 2024
-  June 2024 Assessment & Doubt Clearing QA Sessions.
-  w.e.f July 2024 onwards Regular Classes of 1st Semester.
-  1<sup>st</sup> Term Exam in Dec 2024
-  Regular Classes of 2<sup>nd</sup> Term Jan 2025
-  2<sup>nd</sup> Term Exam May 2025
-  3<sup>rd</sup> Semester Classes - Dissertation work starting July 2025 onwards.
-  Presentation on Thesis or Dissertation.
-  Final Term Research Paper Publication with Programme Coordinator.
-  Final Assessment.
-  Award of Degree Certificate during Convocation (2026).



**Indian Institute  
of Technology Patna**  
भारतीय प्रौद्योगिकी संस्थान पटना



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

# M.Tech in AI & DSE

## Elective Options & Programme Co-Coordinator Details

### 1. Computer Science:

- Cybersecurity - Edge- (Cloud) Computing -  
Blockchain - Quantum Computing - Edge (cloud)  
Computing & -IoT

**Prof. Rajeev Mishra, HOD, CSE IIT Patna & his team**

### 2. Electronics:

- Internet of Things (IoT) - Embedded Systems - VLSI  
Design - Robotics - Advanced Communication  
Systems

**Dr. Sai Kiran CEO, TIH- IIT Patna & his team**

### 3. Drone Technology:

- Unmanned Aerial Vehicles (UAVs) Design -  
Computer Vision for Drones - Autonomous Systems  
- Aerodynamics and Flight Dynamics

**Dr. Amit Verma, HOD (I/C) Department of Civil  
Engineering IIT Patna & his team**

### 4. Civil Engineering:

- Structural Health Monitoring - Building  
Information Modelling (BIM) - Smart Cities  
Technology - Sustainable Construction -  
Geotechnical Engineering

**Dr. Amit Verma, HOD (I/C), Civil Engineering & his  
team**

### 5. Material Science:

- Nanotechnology - Biomaterials - Advanced Materials  
for Energy - Smart Materials - Composite Materials

**Dr. Anup Keshari ADean RnD & PD-TIH, IIT Patna &  
his team**

### 6. Data Science:

- Big Data Analytics - Natural Language Processing  
(NLP) - Predictive Analytics - Data Engineering -  
Computer Vision

**Dr. Asif Ekbal, Dr. Sriparna Saha and the team**

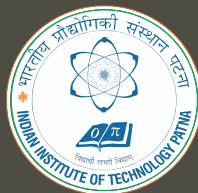
### 7. Artificial Intelligence Engineering:

- Reinforcement Learning - Explainable AI - AI Ethics  
and Governance - Generative Adversarial Networks  
(GANs) - Edge AI

**Dr. Sriparna Saha / Dr. Rishabh Singh**

Central Lecture Hall, IIT Patna





# Indian Institute of Technology Patna

भारतीय प्रौद्योगिकी संस्थान पटना



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

## M.Tech in AI & DSE

### Preparatory Class Schedule

1. March 30, 2024

Introduction to Computer Science and Engineering  
Introduction to Artificial Intelligence and Data  
Science Engineering  
Interaction for Query Schedule (Q&A)

2. April 06, 2024

Fundamentals of Data Structures  
Fundamentals of Theory of Computation  
Assignment on Data Structure using C

3. April 13, 2024

Tutorial on Python

4. April 20, 2024

Preliminary of Algorithms  
Search in AI and Data Science

5. April 27, 2024

Assignments on Algorithms  
Assignment on AI and Data Science using Python

6. May 04, 2024

Database Preliminary  
Fundamentals of Machine Learning

7. May 11, 2024

Assignment on database  
Assignment on machine learning

8. May 18, 2024

Supervised Machine Learning  
Unsupervised Machine Learning

9. May 25, 2024

Research Trends-2: AI, Data Sciences and CSE

10. June 01, 2024

Research Trends-1: AI, Data Sciences and CSE

11. June 15, 2024

Sample Assessment shall be treated as a reference  
for the semester examinations.

### Major Organizations where Participants work



Organizations where Participants are employed at the time of joining the programme

### EMAIL US

info@iitp-cep.in

### VISIT OUR WEBSITE

<https://registrations.iitp-cep.in> (Admission Portal)

<https://cet.iitp.ac.in> (Academic Portal)

<https://cetsat.iitp.ac.in> (IITP-SAT Portal)



+91 9021156156



+91 7309550000

WhatsApp Calling No for International Students



+91 73177 14600

# 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  
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

**EMAIL US**  
info@iitp-cep.in

**VISIT OUR WEBSITE**  
<https://registrations.iitp-cep.in> (Admission Portal)  
<https://cet.iitp.ac.in> (Academic Portal)  
<https://cetsat.iitp.ac.in> (IITP-SAT Portal)



**+91 9021156156**



**+91 7309550000**

WhatsApp Calling No for International Students



**+91 73177 14600**



# Indian Institute of Technology, Patna

Bihta, Patna -801106 (Bihar)  
Ministry of Education, Govt. of India

READY TO ADVANCE YOUR CAREER?

**APPLY NOW**

<https://registrations.iitp-cep.in> (Admission Portal)

<https://cet.iitp.ac.in> (Academic Portal)

<https://cetsat.iitp.ac.in> (IITP-SAT Portal)

**SPEAK TO A PROGRAM ADVISOR  
HAVE QUESTIONS ABOUT THE PROGRAM OR  
HOW IT FITS WITH YOUR CAREER?**

**CONTACT FOR ADMISSIONS**

**+91 9021156156** WhatsApp Calling No for International Students  
 **+91 7309550000**  **+91 73177 14600**

**EMAIL US**

**info@iitp-cep.in**





ADMISSION

# BROCHURE

2024-25



**INDIAN INSTITUTE OF TECHNOLOGY PATNA**

Bihta, Patna, Bihar, India – 801106

# ABOUT US

Indian Institute of Technology Patna is one of the emerging IITs established by an Act of the Indian Parliament on August 06, 2008. Nurturing innovation and excellence amongst the student community for the last 14 years, the Indian Institute of Technology (IIT) Patna has been ever-blossoming as an Institute of national importance. The Institute focuses on creating and developing students into leaders and researchers to empower the country with their contributions in various disciplines in the future.

The Institute has developed modern facilities that are fully equipped with state-of-the-art facilities (equipment, software, and machines) that are routinely used to train and educate students in the Institute.





# FROM THE DIRECTOR'S DESK



IIT Patna is trying its best to serve the nation by all possible means. In this respect, we aim to provide the industry with a technically high-quality employee pool that lends itself to the growth of various reputed organizations and contributes to our nation-building process. IIT Patna seeks to improve upon this goal every year, the latest developments being the addition of new courses and skill sets which has been designed keeping in view of the market demands and mandate of NEP, 2020. What is also encouraging is the students' participation in various technological, innovative ventures, and socio-cultural events in national and international events, considering the importance of these experiences in shaping up their personalities as individuals.

IIT Patna invites the recruiters to the Campus Recruitment Programme and gives this batch of graduating students an opportunity to prove themselves and add value to the organisations they join. We hope this will be a pleasant experience for the recruiters and a step forward in improving upon the past relations and building up new ones.

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, IIT Patna





Prof. A. K. Thakur continuing currently as the Professor of Physics at the Department of Physics at Indian Institute of Technology, Patna & Dean Academics, IIT Patna.

Prof. Thakur is Gold Medalist at M.Sc.(Physics). He is recipient of the coveted "Nehru Fellowship" for pursuing Doctoral Research at the National University of Singapore (QS Rank 8). Currently, he is Vice president of the Asian Society for Solid State Ionics

The research expertise of Prof. Thakur is experimental condensed matter physics and applied physics with interest of specific experimental research comprising;

a). Renewable clean and green energy, b). Solid state ionic devices, c). Storage cells, d). Solar photovoltaics, e). Dielectrics and Ferroelectrics, f). Processing & fabrication of nanomaterials, g). E.M.I. shielding, h). Battery Management System (BMS) design and fabrication for operational safety of battery packs for EV applications, i). Product design simulation and development for commercialization.



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.





# OUR ALUMNI



**Vishal Yadav**  
Deputy Director, Indian Railways



**Raghavendra Mohan**  
Vice President at Goldman Sachs



**Ram Agarwal**  
CFO at Raspa Pharma



**Abhinav Kohar**  
Data Science Lead, Schlumberger;  
Co-Founder, Kredit Konnection;  
MS CS, University of Illinois at Urbana



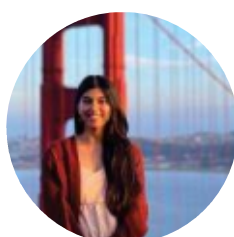
**Bhavesh Mendhekar**  
Scientist at ISRO



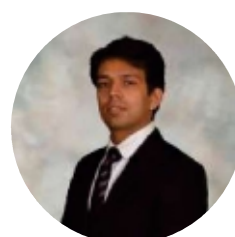
**Souradeep Das**  
GATE AIR-74 / M.TECH IIT BOMBAY



**Atharva Ekatpure**  
MS Environmental Engineering,  
Stanford University



**Pranjali K.**  
Lead Backend Engineer at Omneky  
Ex- Meta, Adobe Research, Google



**Ankit Bhardwaj**  
Senior Software Engineer at Google,  
California, United States



**Chandresh Kanani**  
Software Engineer at  
Citadel Securities



**Chirag Jain**  
Co-Founder & CTO at  
EndureAir Systems



**Arpit Bansal**  
Co-founder, Academic Head & COO  
@ToppersNotes

**EMAIL US**  
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**VISIT OUR WEBSITE**  
<https://registrations.iitp-cep.in> (Admission Portal)  
<https://cetpgex.iitp.ac.in> (Academic Portal)  
<https://cetsat.iitp.ac.in> (IITP-SAT Portal\*)



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Indian Institute  
of Technology Patna



"Enrol, Educate, Excel and  
Transform Career Trajectory"

# Executive M. Tech in

- Artificial Intelligence & Data Science Engineering
- Computer Science & Engineering

## Electives

Advanced Communication Systems | Big Data Analytics  
Blockchain Technology | Edge (Cloud) Computing | Embedded Systems  
Internet of Things | Natural Language Processing (NLP) | Robotics  
Quantum Computing



# 1 in India  
# 13 in Asia in  
NLP  
csrankings.org\*



# 2 in India  
Today's MDRA  
Ranking 2023\*



# 21 National  
Institutional  
Ranking Framework\*



# 106 in the  
BRICS QS  
University  
Rankings\*



# 601  
World University  
Rank 2024\*

**Academic Session  
2024-25**

# Executive Master of Business Administration (MBA) in Dual specialization

Choose any two from the following areas:

- Human Resource (HR)
- Marketing
- Finance
- Operation Management
- International Business
- Analytics & Data Science
- IT & Fintech
- Banking, Financial Services & Insurance
- Retail Management
- Strategy & Leadership

## Programme Features



100% Live interactive classes (Online)  
with doubt clearing sessions on weekends



Fully Compliant to NEP 2020  
Curriculum Framework Structure



Industry Skill Oriented & at par with  
Global standard



Course learning outcome mapped  
with Industry Demand



Remote access of the eLibrary of  
IIT Patna



Unique blend of learning and work experience  
through PAID APPRENTICESHIP / Internship  
opportunities based on merit



Accident & Health Insurance Cover  
for Students and Parents



100% INTERNSHIP/PLACEMENT SUPPORT

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Ministry of Education  
Government of India



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# 13 in Asia in  
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csrankings.org\*



# 2 in India  
Today's MDRA  
Ranking 2023\*



# 21 National  
Institutional  
Ranking Framework\*



# 106 in the  
BRICS QS  
University  
Rankings\*



# 601  
World University  
Rank 2024\*



## IIT PATNA ALUMNI



Name: - Kamal Choudhury  
Company Name: - Google  
Package :- 137 LPA



Name: - Shashwat Mahajan  
Company Name: - Google  
Package :- 131 LPA



Name: - Aryan Kothar  
Company Name: - Atlassian  
Package :- 57.40 LPA



Name: - Garima Jain  
Company Name: - Google  
Package :- 54.57 PLA

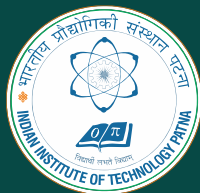


## 100% INTERNSHIP/PLACEMENT SUPPORT

\*Condition Apply







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# Executive M.Tech

## Preparatory Class Schedule

1. March 30, 2024

Introduction to Computer Science and Engineering  
Introduction to Artificial Intelligence and Data  
Science Engineering  
Interaction for Query Schedule (Q&A)

2. April 06, 2024

Fundamentals of Data Structures  
Fundamentals of Theory of Computation  
Assignment on Data Structure using C

3. April 13, 2024

Tutorial on Python

4. April 20, 2024

Preliminary of Algorithms  
Search in AI and Data Science

5. April 27, 2024

Assignments on Algorithms  
Assignment on AI and Data Science using Python

6. May 04, 2024

Database Preliminary  
Fundamentals of Machine Learning

7. May 11, 2024

Assignment on database  
Assignment on machine learning

8. May 18, 2024

Supervised Machine Learning  
Unsupervised Machine Learning

9. May 25, 2024

Research Trends-2: AI, Data Sciences and CSE

10. June 01, 2024

Research Trends-1: AI, Data Sciences and CSE

11. June 15, 2024

Sample Assessment shall be treated as a reference  
for the semester examinations.

### Major Organizations where Participants work



Organizations where Participants are employed at the time of joining the programme

**EMAIL US**  
info@iitp-cep.in

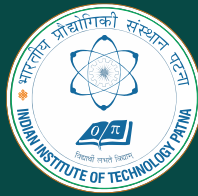
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<https://registrations.iitp-cep.in> (Admission Portal)  
<https://cetpgex.iitp.ac.in> (Academic Portal)  
<https://cetsat.iitp.ac.in> (IITP-SAT Portal\*)



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# Executive M.Tech

## Elective Options & Programme Co-Coordinator Details

### 1. Computer Science:

- Cybersecurity - Edge- (Cloud) Computing -  
Blockchain - Quantum Computing - Edge (cloud)  
Computing & -IoT

**Prof. Rajeev Mishra, HOD, CSE IIT Patna & his team**

### 2. Electronics:

- Internet of Things (IoT) - Embedded Systems - VLSI  
Design - Robotics - Advanced Communication  
Systems

**Dr. Sai Kiran CEO, TIH- IIT Patna & his team**

### 3. Drone Technology:

- Unmanned Aerial Vehicles (UAVs) Design -  
Computer Vision for Drones - Autonomous Systems  
- Aerodynamics and Flight Dynamics

**Dr. Amit Verma, HOD (I/C) Department of Civil  
Engineering IIT Patna & his team**

### 4. Civil Engineering:

- Structural Health Monitoring - Building  
Information Modelling (BIM) - Smart Cities  
Technology - Sustainable Construction -  
Geotechnical Engineering

**Dr. Amit Verma, HOD (I/C), Civil Engineering & his  
team**

### 5. Material Science:

- Nanotechnology - Biomaterials - Advanced Materials  
for Energy - Smart Materials - Composite Materials

**Dr. Anup Keshari ADean RnD & PD-TIH, IIT Patna &  
his team**

### 6. Data Science:

- Big Data Analytics - Natural Language Processing  
(NLP) - Predictive Analytics - Data Engineering -  
Computer Vision

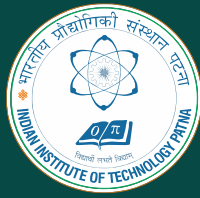
**Dr. Asif Ekbal, Dr. Sriparna Saha and the team**

### 7. Artificial Intelligence Engineering:

- Reinforcement Learning - Explainable AI - AI Ethics  
and Governance - Generative Adversarial Networks  
(GANs) - Edge AI

**Dr. Sriparna Saha / Dr. Asif Ekbal**

Central Lecture Hall, IIT Patna



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# Executive MBA

## Preparatory Class Schedule

### Prep-MBA Course Objective:

Pre-MBA classes provide a basic Introduction to the key concepts for future MBA students with limited education or experience in Management. MBA candidates go through basic Business concepts and Practices, which helps them gain essential skills for their future studies and career.

#### 30.03.2024 (05:45-07:00PM)

Management concepts & Managerial Functions,  
Context and Concept of People Management in a  
Systems Perspective

#### 06.04.2024 (05:45-07:00PM)

Social Responsibilities of Business, Managerial  
Skills  
13.04.2024 (05:45-07:00PM)  
Levels in Management, Short Range and Long  
Range Planning

#### 20.04.2024 (05:45-07:00PM)

Authority and Responsibility Relationships,

Delegation of Authority and Decentralization

#### 27.04.2024 (05:45-07:00PM)

Management of Innovation Entrepreneurial  
Management

#### 04.05.2024 (05:45-07:00PM)

Basics & Process of Communication, Types of  
Communication, Forms of Communication at  
Workplace

#### 11.05.2024 (05:45-07:00PM)

Technology and Communication, Cross Cultural  
Communication



Live Online Preparatory Classes shall  
start w.e.f 30 March 2024, followed by  
Assignments & Assessments till 15th June 2024



June 2024 Assessment & Doubt  
Clearing QA Sessions.



w.e.f July 2024 onwards Regular  
Classes of 1st Semester.



1<sup>st</sup> Term Exam in Dec 2024



Regular Classes of 2<sup>nd</sup> Term Jan 2025



2<sup>nd</sup> Term Exam May 2025



3<sup>rd</sup> Semester Classes - Dissertation  
work starting July 2025 onwards.



Presentation on Thesis or Dissertation.



Final Term Research Paper Publication  
with Programme Coordinator.



Final Assessment.



Award of Degree Certificate during  
Convocation (2026).

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# Executive M.Tech (AI & DSE/CSE)

## Admission Eligibility Criteria 2024-26

### Domestic Indian Candidates

1. The program is designed for working professionals.
2. An aspiring student should have a B.Tech / BE / MSc (Computer Science/Information Technology/Bio-informatics, Biotechnology, Mathematics, Statistics, Physics, Information Science) / MCA / ME / M.Tech degree.
3. At least a 60% scored in the final marks of the eligible degree program or a minimum CGPA or CPI of 6.5 on the scale of 0-10 with corresponding proportional requirements when the scales are other than 0-10 (for example, 4.8 on a scale of 0-8).
4. In case of MCA /MSC passed with UG, the percentage score of MCA/MSC would be considered. In case of a BE/BTech Engineering degree passed without PG specialization, the percentage score of the undergraduate degree would be considered. In case of an engineering graduate degree pass out with a post-graduation in the Engineering field of study, either of the UG or PG score qualification can be considered.

### Relaxation:

- a. In case of the candidate belonging to scheduled caste (SC)/ Scheduled Tribe (ST)/ Persons with Disability (PwD) category, this is relaxed to 55% or equivalent CGPA/ CPI.
- b. Marks will be relaxed by 2.5% or 0.5 CGPA or CPI against each year of experience.

### International Candidates

A foreign national or person of Indian origin (PIO) holding a foreign passport quality is to be considered an international applicant.

1. A four-year Bachelor's degree or a Master's Degree in any discipline with first class or a cumulative CGPA/CPI equivalent to 60% marks in aggregate (e.g., minimum CPI of 6.5 out of 10) is required.
2. CA, CS, CFA, ICWA, ACCA, CIMA or FRM qualification holders with a preceding undergraduate degree in any discipline with first class or a cumulative CGPA/CPI equivalent to 60% marks in aggregate (ex.: minimum CPI of 6.5 out of 10),
3. Those appearing for the final degree examination can also apply. The admission in such cases will be provisional subject to their fulfilling the minimum eligibility criteria stated in (1) or (2) before commencement of the program.
4. English proficiency test qualification evidenced by TOEFL/IELTS score is mandatory. However, it may be waived for applicants who completed their graduation with English as the medium of instruction (a letter from their University that English was their first language during their undergraduate degree is required).
5. Valid Score in aptitude test(s): GRE/GMAT/CAT/BMAT/GATE is desirable.

### Relaxation:

Marks will be relaxed by 2.5% or 0.5 CGPA or CPI against each year of experience.

### FEE STRUCTURE

**FOR ADMISSION:  
REGISTER,SCAN & PAY**  
Fee Rs.5000/-(Non-refundable)

Gen/OBC Creamy Layer Candidates	SC/ST/OBC/EWS Candidates	International Candidates
<b>Registration Fee</b>		
₹ 5,000 (Non Refundable & Included In Semester Fee)	₹ 5,000 (Non Refundable & Included In Semester Fee)	\$100 (Non Refundable & Included In Semester Fee)
<b>Semester Fee</b>		
₹73,000/- per Semester	₹67,500/- per Semester	\$1,810 Per Semester
<b>Alumni Fee (One Time)</b>		
₹ 6,000 (One Time)	₹6,000 (One Time)	\$ 150 (One Time)



\*Conditions Apply

**DURATION**

- Minimum 2 years (4 semesters)

Link of IIT Patna Fee Refund Policy [https://iitp.ac.in/cep/images/pdf/refund\\_policy.pdf](https://iitp.ac.in/cep/images/pdf/refund_policy.pdf)

**Scholarships up to 50%**  
for international candidates only\*

### Fee Payment Detail

#### or Bank Transfer

Account Name: **CEP-IIT PATNA-MICROTEK**  
Account No : **40987488564**  
IFSC No : **SBIN0017164**  
MICR Code : **801002005**  
Swift Code : **SBININBB**  
Branch : **IIT Patna, Bihta Campus, Bihar**

#### or Scan & Pay



You can also pay your fee on **easy EMI with 0% interest and 0 down payment.**  
Contact: **+91 9795093000**  
accounts@iitp-cep.in

By using UPI on

UPI ID:90958035218@SBI



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



# Executive MBA

## Admission Eligibility Criteria 2024-26

### Domestic Indian Candidates

1. The program is designed for working professionals
2. An aspiring student should have an undergraduate degree in any discipline.
3. The candidate must hold a bachelor's degree, with at least 50% marks or equivalent CGPA

### Relaxation:

- a. In case of the candidate belonging to scheduled caste (SC)/ Scheduled Tribe (ST)/ Persons with Disability (PwD) category, this is relaxed to 45%.
- b. Marks will be relaxed by 2.5% or 0.5 CGPA or CPI against each year of experience.

### International Candidates

A foreign national or person of Indian origin (PIO) holding a foreign passport quality is to be considered an international applicant.

1. A four-year Bachelor's degree or a Master's Degree in any discipline with first class or a cumulative CGPA/CPI equivalent to 50% marks in aggregate (e.g., minimum CPI of 5.5 out of 10) is required.
2. CA, CS, CFA, ICWA, ACCA, CIMA or FRM qualification holders with a preceding undergraduate degree in any discipline with first class or a cumulative CGPA/CPI equivalent to 50% marks in aggregate (ex.: minimum CPI of 5.5 out of 10),
3. Those appearing for the final degree examination can also apply. The admission in such cases will be provisional subject to their fulfilling the minimum eligibility criteria stated in (1) or (2) before commencement of the program.
4. English proficiency test qualification evidenced by TOEFL/IELTS score is mandatory. However, it may be waived for applicants who completed their graduation with English as the medium of instruction (a letter from their University that English was their first language during their undergraduate degree is required).
5. Valid Score in aptitude test(s): GRE/GMAT/CAT/BMAT/GATE is desirable.

### Relaxation:

- a. In case of the candidate belonging to scheduled caste (SC)/ Scheduled Tribe (ST)/ Persons with Disability (PwD) category, this is relaxed to 45%.
- b. Marks will be relaxed by 2.5% or 0.5 CGPA or CPI against each year of experience.

### FEE STRUCTURE

Gen /OBC Creamy Layer Candidates	SC/ST/OBC/EWS Candidates	International Candidates
<b>Registration Fee</b>		
₹ 5,000 (Non Refundable & Included In Semester Fee)	₹ 5,000 (Non Refundable & Included In Semester Fee)	\$100 (Non Refundable & Included In Semester Fee)
<b>Semester Fee</b>		
₹ 66,300/- per Semester	₹ 62,300/- per Semester	\$1,810 Per Semester
<b>Alumni Fee (One Time)</b>		
₹ 6,000 (One Time)	₹ 6,000 (One Time)	\$ 150 (One Time)

### FOR ADMISSION:

### REGISTER,SCAN & PAY

Fee Rs.5000/-(Non-refundable)



\*Conditions Apply

DURATION

- Minimum 2 years (4 semesters)

Link of IIT Patna Fee Refund Policy [https://iitp.ac.in/cep/images/pdf/refund\\_policy.pdf](https://iitp.ac.in/cep/images/pdf/refund_policy.pdf)

**Scholarships up to 50%**  
for international candidates only\*

### Fee Payment Detail

#### or Bank Transfer

Account Name: **CEP-IIT PATNA-MICROTEK**  
 Account No : **40987488564**  
 IFSC No : **SBIN0017164**  
 MICR Code : **801002005**  
 Swift Code : **SBININBB**  
 Branch : **IIT Patna, Bihta Campus, Bihar**

#### or Scan & Pay



You can also pay your fee on  
easy EMI with 0% interest  
and 0 down payment.

Contact: +91 9795093000  
accounts@iitp-cep.in

By using UPI on

UPI ID:90958035218@SBI



# AWARDS AND RECOGNITION

- Mr. Praveen Kumar, research scholar of Dr. Navin K. Nishchal, has received the Best PhD Thesis Award (Thesis title: \_Investigations on Structured Light to Probe Optical Singularity and its use in Image Encryption\_) awarded by Optical Society of India during 44th Annual Symposium of Optical Society of India on \_Frontiers in Optics and Photonics \_ (FOP21) during Sept. 24-27, 2021, Optics and Photonics Centre, IIT Delhi (Online). He has also been selected for JSPS post-doctoral fellowship
- A patent is granted to Dr. Karali Patra & his team for the Invention titled "Biaxial Planar Tensile Testing Device"
- Dr. Sriparna Saha is listed in the world's top 2% scientists list with the world rank of 4023 out of total 215114
- Dr. Asif Ekbal featured in the top 1000 computer scientists by Research.com, among 79 Indians
- Kshitij Mishra, a PhD scholar in the Dept. of CSE has been awarded with the Prime Minister Research Fellowship (PMRF) scheme in the field of Artificial Intelligence and Image Processing
- Dr. Pranay Ranjan, an erstwhile Ph.D. student of the Dept. of Physics, IIT Patna has joined as an Asst. Prof. at IIT Jodhpur
- Outstanding Paper Award to Mr. Dattatreya Tripathy and Dr. Vaibhav Singh from the Department of Civil and Environmental Engineering, Indian Institute of Technology, Patna for paper titled "Sensitivity analysis of parameters on the In-Plane Behavior of Unreinforced Masonry Wall Strengthened with Steel Wire Reinforced Cementitious Matrix (SWRCM)" during the 14th North American Masonry Conference at Omaha, #USA, June 11 – 14, 2023. This is one of the prestigious conferences in the field of masonry research which is held every year and organized by The Masonry Society, USA.
- Prof. Somanath Tripathy, Department of CSE, IIT Patna, has been inducted as an expert member of the Standing Committee on Research Methodology (SCRM) for the research projects of the BPR&D (Bureau of Police Research & Development), Ministry of Home Affairs, GoI on 2022
- Dr. Utpal Roy is awarded the "Outstanding Teacher Award in Physics", STAIR International Award Forum, Science and Technology Academic, Innovations and Research Awards 2021
- Dr. Rishi Raj has been recognized with the INSA Medal for Young Scientists (2019) award "For developing innovative techniques for significantly enhancing phase-change heat transfer in zero gravity environments"
- Ms. Archita Maiti (Ph.D./Chemistry/IITP) under the mentorship of Dr. Snehasis Daschakraborty, Asst. Professor, Dept. of Chemistry, IIT Patna, has got the PCCP Best Poster Presentation Prize at the Theoretical Chemistry Symposium (TCS 2021) held in Dec 2021
- Srest Somay and Saurabh Kumar Pandey got Best Paper Award for their article at 21st International Workshop on Physics of Semiconductor Devices (IWPSD) Conference IIT Delhi 14-17 December 2021
- Dr. Rishi Raj, Associate Professor (Mechanical Engineering) and Associate Dean (Resources) has been conferred the prestigious Swarnajayanti Fellowships for Year 2020-21
- Dr. Sriparna Saha, Associate Professor of Department of CSE, IIT Patna is invited by the Editor in chief, Prof. Ajith Abraham, to join the Editorial Board of Engineering Applications of Artificial Intelligence (EAAI) (current impact factor: 6.2), an Elsevier journal

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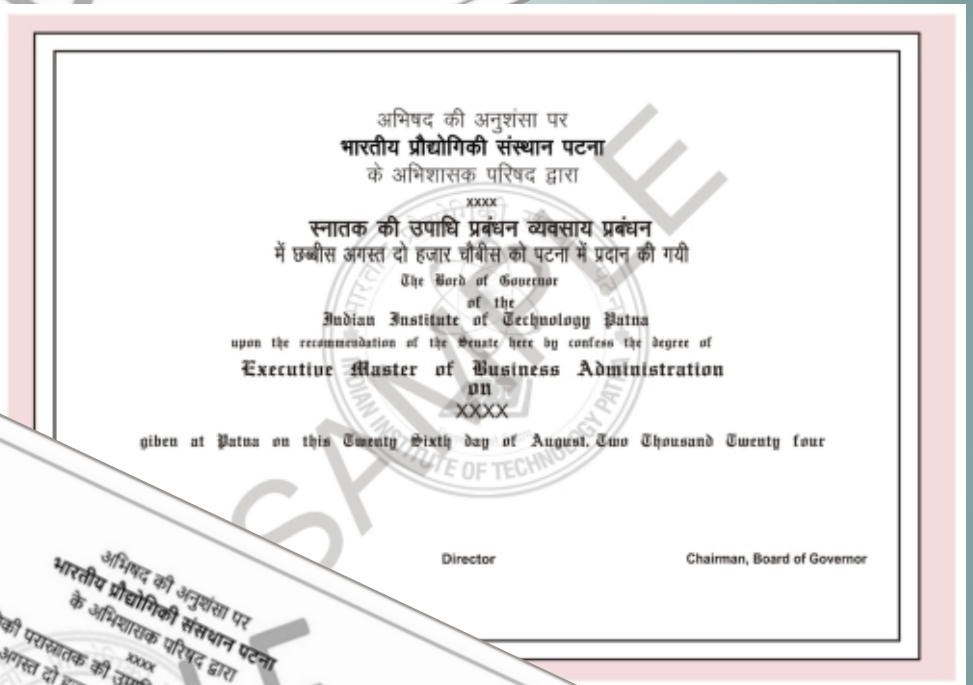
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# Degree Certificate



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<https://cetsat.iitp.ac.in> (IITP-SAT Portal\*)



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Seats are filling up fast for this exciting Master's Degree program and early applications are encouraged! \* Conditions Apply



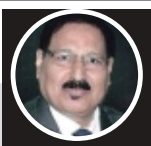
# PAST RECRUITERS

## Stat of 2022-23 Placement Session

Placement Percentage : 91.26%  
Average Pay Package : 23.09 LPA  
Highest Pay Package : 82.05 LPA  
No. of visiting company : 165  
No. of international offers: 19

### Sectors :

- Analytics/Consulting,
- Fintech
- Banking & Finance
- E-Commerce
- Ed Tech, IT/Software
- Manufacturing Core
- Research & Development
- Automotive
- Education
- Healthcare
- Logistic & Others.



**Prof. TN Singh**

Director & Chief Academic  
Mentor Indian Institute of  
Technology Patna



**Prof. A.K. Thakur**

Dean Academics, IIT Patna  
Mentor & Program Coordinator,  
Bachelor of Business Administration (BBA)



**Dr. N.K. Tomar**

Associate Dean, IIT Patna  
Program Coordinator  
BSc (Hons) in Computer Science &  
Data Analytics (CSDA)

- Aarti Industries
- Accenture India
- Accenture Japan
- Accolite
- Adani Power
- Addverb
- Adobe
- Akash Institute
- Amazon Berlin
- Amazon India
- AMD
- AMNS
- App Orchid
- Arista
- Atlassian
- Axxela
- Bajaj Auto
- BEL Bengaluru
- Betsol
- Bloomberg Pune
- Bosch
- BPCL
- Bridge2i
- C1X
- Capgemini
- CDAC
- Ceremorphic
- Cognam
- Cognizant
- Cogoport
- Cubastion
- Curbn
- Darwinbox
- Deloitte
- Dhani
- Droom
- E-Com Express
- Elucidata
- Expedia
- Factwise
- Fareye
- Fiducia
- FIITJEE
- Flipkart
- Future First
- Gameskraft
- Gemini Solutions
- Godigit
- Gojek
- Goldman Sachs
- Google
- Google (Munich)
- Gupshup Tech
- HCL
- HDFC
- Housing.com
- ICICI Bank
- Imanage
- Increeff
- Indeed
- Inframart
- InnomindsInnovaccer
- Intel
- Intuit
- Ixigo
- John Deere
- JSW
- Jungle Works (Clicklabs)
- Jupiter Money
- Karza Technologies (SDE)
- KEC
- Komprise India Pvt Ltd
- KPRIET
- Lava International
- Lentra AI
- LnTECC
- LTI
- Mahindra and Mahindra
- Mareana
- Mathworks
- Media.net
- Mercedes Benz
- Merilytics
- Microsoft Research
- Morgan Stanley
- MTX
- Navyug Infosolution
- Netapp
- Newzera
- Nineleaps
- Novartis
- NSL Hub (Brane Enterprises)
- Nucleus Software
- NXP
- Oneture Technologies Ltd
- Optum(UHG)
- Oracle
- OYO rooms
- Paytm
- Perceptive
- Persistent
- PI Industries
- Publicis
- Pultus Research
- Qualcomm
- Quntiphi
- RBL Bank
- Reliance Jio Limited (RJIL)
- S Numbers
- Salesforce
- Samsung Bangalore
- Samsung Noida
- Searce
- Seimens
- Servicenow
- Siksha O Anusandhan
- Sleepiz
- Smartcoin
- Sprinklr
- SRI-Bengaluru
- Star Union Dai-ichi Life Insurance Co. Ltd.
- Sterlite Technology
- Strand life sciences
- Synopsys
- Taqbit
- Tata Advance
- Tata Digital
- Tata Electronics
- TCS R&I
- Tejas Networks
- Texas Instruments
- Tiger Analytics
- Toppr
- Trilogy Innovations
- Truminds
- TVS Digital
- Uber
- Udaan
- Unacademy
- Urban Company
- Wipro
- Yugabyte
- Zomato
- ZS Associate



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# INTERNSHIPS

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INSTRUMENTS**





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**SAMSUNG**

**AMERICAN  
EXPRESS**

**media.net**

**Morgan  
Stanley**

- 4B Network Pvt. Ltd
- Accenture
- Adobe
- Airblack
- Amazon
- American Express
- Arista
- Atlassian
- Bloomberg
- Bosch
- BRPNNL
- Ciena (India Private Limited)
- Crisil
- DE Shaw
- Directi
- DRDO
- Factwise
- GE Digital
- Godigit

- NXP
- Perceptive Analytics
- Publicis
- Quarks
- RBL
- Salesforce
- Samsung
- Servicenow
- SMS-Datatech
- Snnumbers
- ST Microelectronics
- TCS R&I
- Texas Instrument
- Thought Spot
- Trell
- Trilogy Innovations
- Truminds
- Twilio
- X-epic

- Google
- GS
- Gujarat Fluorochemicals Ltd
- Husk Power
- Imanage
- Indeed
- Intel
- Joshtalks
- Media.net
- Mediatek
- Mitacs Global
- Morgan Stanley
- Mumbai Angels Network
- Newzera
- Nvidia
- University of Calgary  
(Mitacs Global, Canada)





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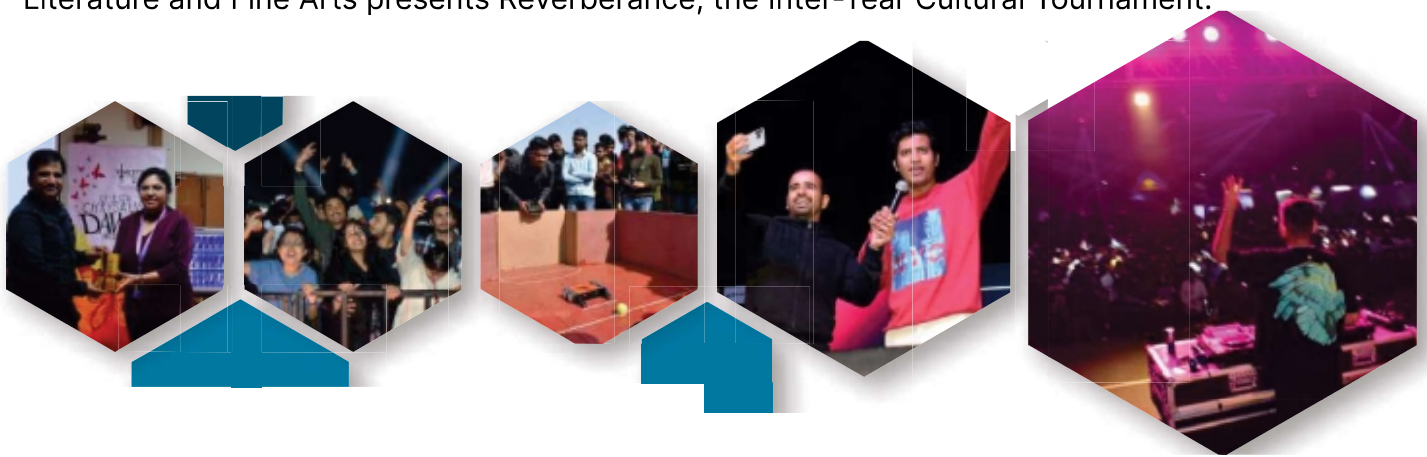
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# Indian Institute of Technology, Patna

Bihta, Patna -801106 (Bihar)

Ministry of Education, Govt. of India

READY TO ADVANCE YOUR CAREER?

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<https://cetpgex.iitp.ac.in>

(IITP-SAT Portal\*)

<https://cetsat.iitp.ac.in>

**SPEAK TO A PROGRAM ADVISOR  
HAVE QUESTIONS ABOUT THE PROGRAM OR  
HOW IT FITS WITH YOUR CAREER?**

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ADMISSION

# BROCHURE

2024-25



**INDIAN INSTITUTE OF TECHNOLOGY PATNA**

Bihta, Patna, Bihar, India – 801106

# ABOUT US

Indian Institute of Technology Patna is one of the emerging IITs established by an Act of the Indian Parliament on August 06, 2008. Nurturing innovation and excellence amongst the student community for the last 14 years, the Indian Institute of Technology (IIT) Patna has been ever-blossoming as an Institute of national importance. The Institute focuses on creating and developing students into leaders and researchers to empower the country with their contributions in various disciplines in the future.

The Institute has developed modern facilities that are fully equipped with state-of-the-art facilities (equipment, software, and machines) that are routinely used to train and educate students in the Institute.



# FROM THE DIRECTOR'S DESK



IIT Patna is trying its best to serve the nation by all possible means. In this respect, we aim to provide the industry with a technically high-quality employee pool that lends itself to the growth of various reputed organizations and contributes to our nation-building process. IIT Patna seeks to improve upon this goal every year, the latest developments being the addition of new courses and skill sets which has been designed keeping in view of the market demands and mandate of NEP,2020. What is also encouraging is the students' participation in various technological, innovative ventures, and socio-cultural events in national and international events, considering the importance of these experiences in shaping up their personalities as individuals.

IIT Patna invites the recruiters to the Campus Recruitment Programme and gives this batch of graduating students an opportunity to prove themselves and add value to the organisations they join. We hope this will be a pleasant experience for the recruiters and a step forward in improving upon the past relations and building up new ones.

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, IIT Patna





# OUR ALUMNI



**Vishal Yadav**  
Deputy Director, Indian Railways



**Raghavendra Mohan**  
Vice President at Goldman Sachs



**Ram Agarwal**  
CFO at Raspa Pharma



**Abhinav Kohar**  
Data Science Lead, Schlumberger;  
Co-Founder, Kredit Konnection;  
MS CS, University of Illinois at Urbana



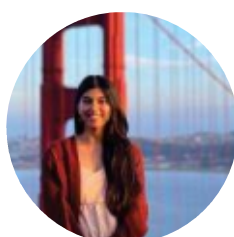
**Bhavesh Mendhekar**  
Scientist at ISRO



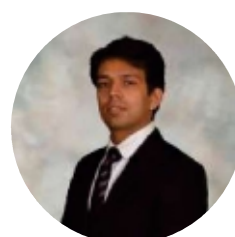
**Souradeep Das**  
GATE AIR-74 / M.TECH IIT BOMBAY



**Atharva Ekatpure**  
MS Environmental Engineering,  
Stanford University



**Pranjali K.**  
Lead Backend Engineer at Omneky  
Ex- Meta, Adobe Research, Google



**Ankit Bhardwaj**  
Senior Software Engineer at Google,  
California, United States



**Chandresh Kanani**  
Software Engineer at  
Citadel Securities



**Chirag Jain**  
Co-Founder & CTO at  
EndureAir Systems



**Arpit Bansal**  
Co-founder, Academic Head & COO  
@ToppersNotes

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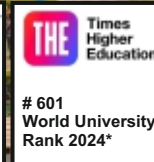
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**Indian Institute  
of Technology Patna**  
भारतीय प्रौद्योगिकी संस्थान पटना



# IIT Patna starts NEP 2020 Compliant 3 Year Under Graduate Regular Degree Programmes



## NEP Features:

- Entry, Exit, Re-entry
- Credit Bank Facility
- Concurrent Study in 2 Programme
- Earn while you Learn

REGISTRATIONS  
**OPEN**  
2024-25

## Computer Science

B.Sc (Hons) : Computer Science  
and Data Analytics (CSDA)

## Business Management

Bachelor of Business  
Administration (BBA)

**BIHAR STUDENT  
CREDIT CARD ACCEPTED**

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for International Students **+91 99906 99909**

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**"Enrol, Educate, Excel and Transform Career Trajectory"**



**Indian Institute  
of Technology Patna**  
भारतीय प्रौद्योगिकी संस्थान पटना

REGISTRATIONS  
**OPEN**  
**2024-25**



## ➤ Admission Eligibility

- The candidates appearing in the qualifying examination in the year of admission will be considered for provisional admission based on the submission of transcripts of their 11th standard and the first semester of their 12th standard (if issued) duly certified by their school authorities. All such candidates will be required to produce proof of having passed the qualifying examination (12th standard or equivalent) by 30th October 2024 failing which the admission will stand cancelled.
- The age of candidates seeking admission should be preferably below 25 years as of 1st October 2024. So, only those candidates whose date of birth falls on or after 01 October 1999 are eligible to apply. The date of birth as recorded in the 10th or 12th standard certificate, issued by the Board/ Examination Authority will be taken as authentic. Candidates must produce this certificate in original as proof of their age at the time of admission/counselling.

### Domestic Indian Candidates

For B.Sc(Hons)CSDA: 10 + 2 in Science Streams

For BBA: 10 + 2 in All Streams

with a minimum of 60% (cumulative) and any one of the following:

- Valid Score/Rank in National/State Level Entrance (i.e., JEE (Advanced/Main), NEET, CUET, BITSAT, KVPY/NTSE/INSPIRE scholarship holders, State Entrance Examinations)
- OR
- Valid score in International Entrance Test; US (SAT-I/SAT-II), UK(BMAT) OR
- IITP-SAT entrance test followed by virtual interview\*

### International Candidates

Eligibility for Application under Direct Admission of Foreign and NRI Students (DAFS) category

**For admissions into the BBA/B.Sc.(Hons) programs, the following categories of applicants will be considered as Non-Resident Indians:**

- Overseas Citizen of India (OCI) Card holders.
- Persons of Indian Origin (PIO) Card Holders.
- Certificates of Non-Resident Indian issued by the Indian Embassy/Indian Consulate of the Country where the Non-Resident Indian is residing.
- Passport of an applicant indicating his status as 'Non-Resident Indian.'
- Persons who have studied outside India and have passed either 10th or 12th standard (or must be appearing for the examination in the year of admission) or equivalent from any system of education subject to the eligibility criteria stipulated below.
- Either of the parents of the applicant residing abroad and submits documentary proof that he/she is a Non-Resident Indian (e.g., NRI bank account in India or letter from the Indian Embassy/Consulate). The NRI status should be valid until 1st August in the year of admission.
- Foreign Nationals (FN): A person having citizenship of a foreign country (citizens other than India) and not having the status of "NRI".

#### Eligibility Criteria

1. Candidates must have passed or appeared in the qualifying examination, i.e.; Higher secondary school examination or equivalent from any recognized board of their country with Physics, Mathematics and Chemistry/Computer Science/Biotechnology/Biology for BSc(Hons)-CSDA & for BBA All streams are allowed. The admission eligibility is minimum of 60% (cumulative) or its equivalence CGPA/CPI (e.g.; 6.5 CPI on a 10-point scale) with:

- Valid score in International Entrance Test; US (SAT-I/SAT-II), UK(BMAT)

OR

- IITP-SAT entrance test followed by virtual interview\*

2. The school examination certificate must be equivalent to the Class 12 school examination in India and the candidates are required to submit an equivalence certificate for the examination passed and the grade/percentage of marks obtained.

**BIHAR STUDENT  
CREDIT CARD  
ACCEPTED**

**COURSE CREDIT STRUCTURE  
AT PAR WITH  
GLOBAL STANDARDS**

**10-15 Days Offline Lecture/Practical/Workshop at  
IIT Patna Campus in each Semester**

**100% INTERNSHIP &  
PLACEMENT SUPPORT**

### Programme Features

100% Live interactive classes (Online)  
with doubt clearing sessions on weekends

Fully Compliant to NEP 2020  
Curriculum Framework Structure

Industry Skill Oriented & at par with  
Global standard

Course learning outcome mapped  
with Industry Demand

Remote access of the eLibrary of  
IIT Patna

Unique blend of learning and work experience  
through PAID APPRENTICESHIP / Internship  
opportunities based on merit

Accident & Health Insurance Cover  
for Students and Parents

100% INTERNSHIP/PLACEMENT SUPPORT







# Indian Institute of Technology Patna

## भारतीय प्रौद्योगिकी संस्थान पटना



### B.Sc (Hons) : Computer Science & Data Analytics (CSDA) (3 Year Regular Bachelor Degree Program)

FEE STRUCTURE	
Domestic Candidates	International Candidates
<b>Registration Fee</b>	
₹1500 (Non Refundable & Excluded in Sem Fees)	\$100 (Non Refundable & Included in Sem Fees)
<b>Semester Fee</b>	
₹46,000 Per Semester	\$1,810 Per Semester
<b>Alumni Fee</b>	
₹ 6,000 (One Time)	\$ 150 (One Time)

### Bachelor of Business Administration (BBA) (3 Year Regular Bachelor Degree Program)

FEE STRUCTURE	
Domestic Candidates	International Candidates
<b>Registration Fee</b>	
₹1500 (Non Refundable & Excluded in Sem Fees)	\$100 (Non Refundable & Included in Sem Fees)
<b>Semester Fee</b>	
₹56,400 Per Semester	\$1,810 Per Semester
<b>Alumni Fee</b>	
₹ 6,000 (One Time)	\$ 150 (One Time)

Minimum 3 years (6 semesters)

#### Fee Payment Detail

By using UPI on  
UPI ID:90958035218@SBI

#### or Bank Transfer

Account Name  
**CEP-IIT PATNA-MICROTEK**  
Account No.  
**40987488564**  
IFSC No  
**SBIN0017164**  
MICR Code  
**801002005**  
Swift Code  
**SBININBB**  
Branch  
**IIT Patna, Bihta Campus, Bihar**

#### or Scan & Pay



\*Conditions Apply

**Scholarships up to 50%**  
for international candidates only\*

You can also pay your fee on **easy EMI with 0% interest and 0 down payment.** Contact: **+91 9795093000**  
accounts@iitp-cep.in

Link of IIT Patna Fee Refund Policy [https://iitp.ac.in/cep/images/pdf/refund\\_policy.pdf](https://iitp.ac.in/cep/images/pdf/refund_policy.pdf)

#### Major Organizations where Participants work



Organizations where Participants are employed at the time of joining the programme

**FOR ADMISSION:  
REGISTER, SCAN & PAY**  
Fee Rs 1500/- (non-refundable)

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<https://cetsat.iitp.ac.in> (IITP-SAT Portal)



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# Indian Institute of Technology Patna भारतीय प्रौद्योगिकी संस्थान पटना



## 3 Year UG Full Time Regular Degree Programmes

**Orientation Cum Campus Immersion**

**Semester Start Date**

Last week of June / 1st week of July

16 July, 2024

## Excellent Placement Record

**INDIA RANKINGS 2023**

Ranking of Higher Educational Institutions



National Institutional Ranking Framework  
Ministry of Education  
Government of India



**IIT-Patna students get over 400 job offers for second yr in a row**

TNN / Updated: Aug 26, 2023, 09:35 IST

33 PPS SHARE AA FOLLOW US

**New For You**



"Bhazzari apni toh karanti hi karanti..." Ustad Akram tears apart 'different balls'...



Strong tremors felt in North India including Delhi-NCR, UP and Bihar district...



MP teacher skips poll duty, says 'get me married first!'

Indian Institute of Technology-Patna (IIT-P) students received as many as 413 jobs with the maximum pay package of Rs 82 lakh per annum in 2023. This is the second consecutive academic session in which IIT-P students have received over ...[Read More](#)



IIT-Patna

**IIT पटना के छात्रों की बल्ले-बल्ले**



**INDIA TODAY** **MDRA**

Students with aptitude for Entrepreneurship would have opportunity of Start-up activity.

### TOP 10 COLLEGES WITH BEST PLACEMENT RECORD

RANK	COLLEGE	CITY	AVERAGE ANNUAL SALARY*
1	INDIAN INSTITUTE OF INFORMATION TECHNOLOGY ALLAHABAD	Prayagraj	₹31,00,000
2	INDIAN INSTITUTE OF TECHNOLOGY DELHI	New Delhi	₹27,28,535
3	INDIAN INSTITUTE OF TECHNOLOGY KANPUR	Kanpur	₹27,01,000
4	INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI	Guwahati	₹26,27,000
5	INDIAN INSTITUTE OF TECHNOLOGY PATNA	Patna	₹25,95,000
6	INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR	Kharagpur	₹25,81,634
7	INDIAN INSTITUTE OF TECHNOLOGY MANDI	Mandi	₹24,59,000
8	INDIAN INSTITUTE OF TECHNOLOGY BOMBAY	Mumbai	₹22,70,000
9	INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN	New Delhi	₹20,06,000
10	INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY	New Delhi	₹19,89,000

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Fee Rs 1500/- (non-refundable)

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Seats are filling up fast for this exciting Master's Degree program and early applications are encouraged! \* Conditions Apply





**IIT PATNA  
ALUMNI**



Name: - Kamal Choudhury  
Company Name: - Google  
Package :- 137 LPA



Name: - Shashwat Mahajan  
Company Name: - Google  
Package :- 131 LPA



Name: - Aryan Kothar  
Company Name: - Atlassian  
Package :- 57.40 LPA



Name: - Garima Jain  
Company Name: - Google  
Package :- 54.57 PLA



**100% INTERNSHIP/PLACEMENT SUPPORT**

\*Condition Apply

**3 YEAR UG FULL TIME /  
REGULAR DEGREE PROGRAMMES**

**B.Sc. (Hons):  
Computer Science &  
Data Analytics (CSDA)**

**Bachelor of Business  
Administration  
(BBA)**



**Registration Link: <https://registrations.iitp-cep.in>**

**EMAIL US**  
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# AWARDS AND RECOGNITION

- Mr. Praveen Kumar, research scholar of Dr. Navin K. Nishchal, has received the Best PhD Thesis Award (Thesis title: \_Investigations on Structured Light to Probe Optical Singularity and its use in Image Encryption\_) awarded by Optical Society of India during 44th Annual Symposium of Optical Society of India on \_Frontiers in Optics and Photonics \_ (FOP21) during Sept. 24-27, 2021, Optics and Photonics Centre, IIT Delhi (Online). He has also been selected for JSPS post-doctoral fellowship
- A patent is granted to Dr. Karali Patra & his team for the Invention titled "Biaxial Planar Tensile Testing Device"
- Dr. Sriparna Saha is listed in the world's top 2% scientists list with the world rank of 4023 out of total 215114
- Dr. Asif Ekbal featured in the top 1000 computer scientists by Research.com, among 79 Indians
- Kshitij Mishra, a PhD scholar in the Dept. of CSE has been awarded with the Prime Minister Research Fellowship (PMRF) scheme in the field of Artificial Intelligence and Image Processing
- Dr. Pranay Ranjan, an erstwhile Ph.D. student of the Dept. of Physics, IIT Patna has joined as an Asst. Prof. at IIT Jodhpur
- Outstanding Paper Award to Mr. Dattatreya Tripathy and Dr. Vaibhav Singh from the Department of Civil and Environmental Engineering, Indian Institute of Technology, Patna for paper titled "Sensitivity analysis of parameters on the In-Plane Behavior of Unreinforced Masonry Wall Strengthened with Steel Wire Reinforced Cementitious Matrix (SWRCM)" during the 14th North American Masonry Conference at Omaha, #USA, June 11 – 14, 2023. This is one of the prestigious conferences in the field of masonry research which is held every year and organized by The Masonry Society, USA.
- Prof. Somanath Tripathy, Department of CSE, IIT Patna, has been inducted as an expert member of the Standing Committee on Research Methodology (SCRM) for the research projects of the BPR&D (Bureau of Police Research & Development), Ministry of Home Affairs, Govt of India
- Dr. Utpal Roy is awarded the "Outstanding Teacher Award in Physics", STAIR International Award Forum, Science and Technology Academic, Innovations and Research Awards 2021
- Dr. Rishi Raj has been recognized with the INSA Medal for Young Scientists (2019) award "For developing innovative techniques for significantly enhancing phase-change heat transfer in zero gravity environments"
- Ms. Archita Maiti (Ph.D./Chemistry/IITP) under the mentorship of Dr. Snehasis Daschakraborty, Asst. Professor, Dept. of Chemistry, IIT Patna, has got the PCCP Best Poster Presentation Prize at the Theoretical Chemistry Symposium (TCS 2021) held in Dec 2021
- Srest Somay and Saurabh Kumar Pandey got Best Paper Award for their article at 21st International Workshop on Physics of Semiconductor Devices (IWPSD) Conference IIT Delhi 14-17 December 2021
- Dr. Rishi Raj, Associate Professor (Mechanical Engineering) and Associate Dean (Resources) has been conferred the prestigious Swarnajayanti Fellowships for Year 2020-21
- Dr. Sriparna Saha, Associate Professor of Department of CSE, IIT Patna is invited by the Editor in chief, Prof. Ajith Abraham, to join the Editorial Board of Engineering Applications of Artificial Intelligence (EAAI) (current impact factor: 6.2), an Elsevier journal

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# INTERNSHIPS

 **ATLASSIAN**



 **TEXAS  
INSTRUMENTS**





 **Adobe**

**SAMSUNG**

**AMERICAN  
EXPRESS**

**media.net**

**Morgan  
Stanley**

- 4B Network Pvt. Ltd
- Accenture
- Adobe
- Airblack
- Amazon
- American Express
- Arista
- Atlassian
- Bloomberg
- Bosch
- BRPNNL
- Ciena (India Private Limited)
- Crisil
- DE Shaw
- Directi
- DRDO
- Factwise
- GE Digital
- Godigit

- NXP
- Perceptive Analytics
- Publicis
- Quarks
- RBL
- Salesforce
- Samsung
- Servicenow
- SMS-Datatech
- Snnumbers
- ST Microelectronics
- TCS R&I
- Texas Instrument
- Thought Spot
- Trell
- Trilogy Innovations
- Truminds
- Twilio
- X-epic

- Google
- GS
- Gujarat Fluorochemicals Ltd
- Husk Power
- Imanage
- Indeed
- Intel
- Joshtalks
- Media.net
- Mediatek
- Mitacs Global
- Morgan Stanley
- Mumbai Angels Network
- Newzera
- Nvidia
- University of Calgary  
(Mitacs Global, Canada)





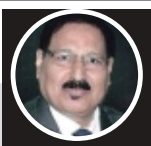
# PAST RECRUITERS

## Stat of 2022-23 Placement Session

Placement Percentage : 91.26%  
Average Pay Package : 23.09 LPA  
Highest Pay Package : 82.05 LPA  
No. of visiting company : 165  
No. of international offers: 19

### Sectors :

- Analytics/Consulting,
- Fintech
- Banking & Finance
- E-Commerce
- Ed Tech, IT/Software
- Manufacturing Core
- Research & Development
- Automotive
- Education
- Healthcare
- Logistic & Others.



**Prof. TN Singh**

Director & Chief Academic  
Mentor Indian Institute of  
Technology Patna



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