

INFORMATION BROCHURE

2025-26



भारतीय प्रौद्योगिकी संस्थान पटना
Indian Institute of Technology Patna



भारतीय सूचना प्रौद्योगिकी संस्थान राँची
Indian Institute of Information Technology Ranchi



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ABOUT IIIT RANCHI

Indian Institute of Information Technology Ranchi is an autonomous institute set up by the MOE, Government of India, and Government of Jharkhand along with the industry partners Tata Motors, TCS, and CCL on a Public Private Partnership (PPP) in the year 2016. MOE, Government of India has taken up the initiative to set up 20 new Indian Institutes of Information Technology (IIITs) on a Public Private Partnership Model. A major objective in establishing IIITs is to set up a model of education which can produce best-in-class human resources in IT and harnessing the multi-dimensional facets of information technology in various domains. While the number of students produced by these IIITs would be small, the impact they create would be great. IIIT, Ranchi is determined to offer state-of-the-art facilities for advanced studies and research.



FROM THE DIRECTOR'S DESK



Welcome to Indian Institute of Information Technology Ranchi. I would like to extend a warm welcome to all students, faculty, staff, and stakeholders. At IIIT Ranchi, we are committed to foster a culture of academic excellence, innovation, and inclusivity. Our institute aims to provide a conducive environment for learning, research, and holistic development. Through cutting-edge education and research programs, we endeavour to equip our students with the skills, knowledge, and mindset necessary to thrive in a rapidly evolving world.

We believe in nurturing creativity, critical thinking, and problem-solving abilities among our students. Our faculty members are dedicated to providing mentorship and guidance, enabling students to explore their passions and realize their full potential. IIIT Ranchi is not just an institution, it's a vibrant community of learners, researchers, and innovators. Together, let's embark on this journey of discovery, innovation, and transformation.

I would like to take this opportunity to invite students, faculties, eminent people from the industry and academia for their active engagement in academic pursuits, research endeavours, and extra curricular activities at IIIT Ranchi. Please join us in our mission to advance knowledge and contribute to society. Together, we can build on the institute's legacy and create a future where education and research make a lasting impact on stakeholders to achieve new heights of excellence.

Let's work together to make IIIT Ranchi a Center of Excellence in education, research, and innovation.

Prof. Rajeev Srivastava
Director, IIIT Ranchi



FACULTY MEMBERS



Prof. Rajeev Srivastava

Director, IIIT Ranchi Area of Interest: Image Processing, Computer Vision, AI, Machine Learning, Deep Learning, Video Surveillance, Medical Image Analysis.

Prof. Rajeev Srivastava, born in Jaunpur, Uttar Pradesh, is a Professor in the Dept. of Computer Sc. & Engineering, Indian Institute of Technology (BHU), Varanasi and currently on deputation as Director, IIIT Ranchi. He possesses 26 years of teaching and research experience in various institutions of repute. He received his BE degree in Computer Engineering from Madan Mohan Malviya Engineering College, Gorakhpur (now MMMUT), University of Gorakhpur in 1996. Subsequently, he obtained his M.E. degree in Computer Technology and Applications from Delhi College of Engineering, University of Delhi and PhD in Computer Engineering from Faculty of Technology, University of Delhi, Delhi. He is a Fellow of Institution of Engineers (India) (FIE), Institution of Electronic and Telecommunication Engineers (FIETE), and Senior Member IEEE USA. He has published 200 research papers in reputed international journals/ conferences, 05 research reference books, 20 book chapters, edited one (01) conference proceedings and four patents (one granted and three published). He successfully executed research projects funded by MoE, Govt. of India and DRDO, Govt. of India. 17 PhD Scholars have been awarded their degrees under his supervision, and 06 PhD scholars are currently working under his Supervision. He serves as an Expert Member on different panels of various statutory bodies of Govt. of India like NBA, UGC, DRDO, UPPSC, UKPSC, BPSC, IITs, NITs, IIITs, Central/State universities and other reputed organizations. He is also the member of Senate, Academic Council, Board of Studies and Research committees of various Institutes/Universities.



Dr. Santosh Kumar Mahto

Assistant Professor, Dept. of Electronics & Communication Engg., Indian Institute of Information Technology Ranchi

Dr. Santosh completed a Ph.D. from the National Institute of Technology Jamshedpur, a Master of Engineering from Birla Institute of Technology Mesra, Ranchi, and a B.Tech. from National Institute of Science and Technology Berhampur, Odisha. In addition to teaching responsibilities, Dr. Santosh also serve as the Associate Dean of Research & Development, Innovation & Incubation and the Associate Dean of Training & Placement at IIIT Ranchi. Dr. Santosh served as the Branch Coordinator/Head of the ECE department from June 2020 to February 2023. Dr. santosh Published 40 SCI journal papers, 15 International conference and 12 book chapters till date. Dr. Santosh supervising 3 PhD students till date. Dr. Santosh is currently doing Research Projects of Ministry of Coal in collaboration with Telecommunications Consultants India Limited (TCIL), New Delhi, and CMPDI, Ranchi, Total Cost of Rs. 454.15 Lakhs title "Setting up a 5G Use Case Test Lab in CMPDI for Coal Industry".





Dr. Rashmi Panda

Ph.D., IIT Designation: Assistant Professor Dept. of Electronics & Communication Engg., Indian Institute of Information Technology Ranchi
Specialization: Machine Learning and Pattern Recognition, Deep Learning and Edge Computing, Smart Health Care Systems, IOT for Smart Cities.

Dr. Rashmi Panda, currently working as an assistant professor in the department of ECE, IIIT Ranchi, is a leading expert in artificial intelligence (AI) and machine learning (ML) with over 10 years of experience in applying these technologies to promote sustainable development. She holds a Ph.D. from Indian Institute of Technology, Bhubaneswar, where her research focused on the intersection of AI and medical science. She has received her M.Tech degree from NIT Rourkela. Dr. Rashmi has published numerous papers on leveraging AI in medical image and signal processing, natural language processing etc. Outside her professional work, Dr. Rashmi is passionate about community outreach and education in technology. She volunteers with local organizations to promote STEM education among underprivileged youth. Dr. Rashmi's expertise and passion for integrating AI and ML with sustainable practices make her an invaluable speaker on the topic of "Application of AI and ML in Various Domains for Sustainable Development." Her insights and innovative approaches will inspire audiences to harness technology for a more sustainable future.



Dr. Priyank Khare

Ph.D., M.Tech., B.Tech. Designation: Assistant Professor Dept. of Electronics & Communication Engg., Indian Institute of Information Technology Ranchi
Specialization: Digital Image Watermarking, Cryptography, Medical Image Processing, Signal Processing.

Priyank Khare received his B.Tech. Degree in Electronics & Communication Engineering from Uttar Pradesh Technical University in 2009. M.Tech. In Digital Systems in 2014, and a Ph.D. degree in Electronics & Communication Engineering from the Motilal Nehru National Institute of Technology, Allahabad, India. He is currently employed as an assistant professor in the electronics and communication engineering department at the Indian Institute of Information Technology in Ranchi, India. His research interests include digital image processing, digital image watermarking, multimedia security, and data hiding techniques.



Dr. Bharat Singh

**Assistant Professor,
CSE IIIT Ranchi**

I am currently serving as an Assistant Professor at the Indian Institute of Information Technology, Ranchi (IIIT Ranchi). Prior to this, I held the position of Assistant Professor at KNIT Sultanpur, Uttar Pradesh. I earned my Ph.D. in Information Technology from the Indian Institute of Information Technology, Allahabad. My primary research interests include Feature Selection, Feature Extraction, Machine Learning, Deep Learning, and High-Dimensional Data. I completed my M.Tech in Computer Science and Engineering from the National Institute of Technology, Durgapur, and my B.Tech in Computer Science and Engineering from AKTU, Lucknow. Additionally, I have qualified for the University Grants Commission's National Eligibility Test (NET) for Lectureship, conducted by the Government of India. My academic contributions include publishing research in peer-reviewed journals and presenting at esteemed international and national conferences.





Dr. Jayadeep Pati

**Assistant Professor,
CSE IIIT Ranchi**

Dr. Jayadeep Pati is an Assistant Professor in the Department of Computer Science and Engineering at IIIT Ranchi, where he also serves as Associate Dean of Academic Affairs and Faculty Affairs. He is the Administrator of SAMARTH IIIT Ranchi, and the Nodal Officer of both the EBSB Cell and the Study in India Cell. Dr. Pati holds a Ph.D. in Computer Science and Engineering from IIT (BHU), Varanasi, and specializes in Applied Machine Learning and Data Science. In addition to his teaching and research roles, he is actively involved in numerous academic committees, such as the Infrastructure Committee and Research Advisory Committee, and has significantly contributed to environmental monitoring projects using AI. Dr. Pati's research includes software quality prediction and the use of machine learning to assess groundwater contamination. He has filed patents and led transformative projects, including initiatives for mental health enhancement in Jharkhand through AI. His work is widely recognized, with publications in reputed journals and conferences. He has also contributed significantly to research, securing patents like a device for modeling software clone evolution and publishing extensively in the areas of machine learning and software quality. Dr. Pati is actively involved in various academic committees and has initiated projects addressing mental health and environmental monitoring using AI.

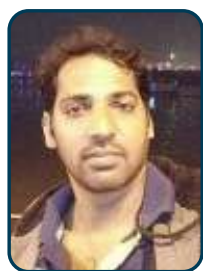


Dr. Kirti Kumari

**Assistant Professor, Department of Computer
Science and Engineering, Indian Institute of
Information Technology Ranchi (IIIT Ranchi)**

Dr. Kirti Kumari is currently working as an Assistant Professor in the Department of Computer Science and Engineering, Indian Institute of Information Technology Ranchi (IIIT Ranchi), Jharkhand, India. Prior to joining IIIT Ranchi, she worked as an Assistant Professor in the Department of Computer Science and Engineering at Siksha "O" Anusandhan Deemed to be University, Bhubaneswar, Odisha. She has obtained a Ph.D. degree in Computer Science & Engineering from the Department of Computer Science and Engineering of the National Institute of Technology Patna, M.Tech. degree in Computer Science and Engineering from M.S. Ramaiah Institute of Technology Bangalore (through All India GATE rank), and B. Tech. From Computer Science and Engineering from Bhagalpur College of Engineering (Govt. of Bihar), Bhagalpur. She qualified the GATE exam in computer science in year of 2012, 2014, 2015, 2016, 2019 and 2020. She is an active researcher in the area of Cyberbullying, Cyberaggression, Hate Speech, Depression detection, Hope Speech etc. Her research interests include Natural Language Processing, Machine Learning, Deep Learning, and Social Networks. With a passion for Natural Language Processing technologies, Artificial Intelligence, Deep Learning and Machine Learning, she works to make the current technology useful for human beings by analyzing their behavior specially addressing the multi-lingualties and Multimodalities issues. She has explored almost fifteen Indo-European languages in her research works. She has published articles in different Journals, including Soft Computing, Future Generation Computer Systems, Transaction of Emerging Telecommunication Technology, Multimedia Systems and Signal, Image and Video Processing. She has published widely in more than 26 journals and conferences. She has also published two Indian patents in the domain of Artificial Intelligence.





RANJAN KUMAR BEHERA

Assistant Professor Department of Computer Science and Engineering, Indian Institute of Information Technology, Ranchi

Dr. Ranjan Kumar Behera is currently working as an Assistant Professor in the Department of Computer Science and Engineering at IIIT Ranchi, India. Previously, he served as an Assistant Professor at several reputed institutions, including BIT Mesra, Ranchi; XIM University, Bhubaneswar; and VSSUT, Burla, Odisha. He earned his Ph.D. from NIT Rourkela, India, specializing in big data analytics within the domain of social networks. His research interests include social network analysis, serverless computing, big data, and data science, with a particular focus on natural language processing (NLP) and sentiment analysis. He has published over 50 research papers in international journals, conferences, and book chapters in these areas. Additionally, three patents have been granted in his name. Dr. Behera has over seven years of combined academic and industry experience, contributing to both teaching and research endeavors.



Dr. N. Kishore Babu

Faculty, CSE Dept. IIIT Ranchi

Dr. N. Kishore Babu, a faculty member at IIIT Ranchi, is an accomplished researcher with expertise in deep learning, medical image analysis, and computer vision. He has published impactful journal articles on medical image security and skin lesion segmentation and presented his work at prestigious conferences, including IEEE in San Diego. He has also served as a judge for events like SOCIOTHON and IIT Roorkee's National Social Summit. Dr. Babu earned his UG degree (2008–12) from Sree Vidyanikethan Engineering College, Tirupati, followed by his M.Tech. (2015–17) and Ph.D. (2019–24) in Computer Science and Engineering from IIT Roorkee under the guidance of Professor Balasubramanian Raman. His doctoral research focused on deep learning-driven approaches to medical image computing and secure processing, culminating in a successful thesis defense on June 24, 2024. His findings have been featured in several peer-reviewed journals and conference proceedings.



Dr. Noopur

**Department of Humanities and Management
IIIT Ranchi**

Dr Noopur is associated with the Department of Humanities and Management, IIIT Ranchi. She was a RUSA 2.0 PDF at the CoE Study on Unorganised Labour, Utkal University, PhD from IIT Roorkee and possesses an Integrated MBA from Central University of Jharkhand Ranchi. Dr Noopur has teaching experience with XISS Ranchi and Central University of South Bihar. Her research interest lies in Psychological wellbeing of unorganised labours, welfare mechanisms in the Indian construction industry, organisational behaviour to name a few. Dr Noopur research work has been published in reputed journals like Elsevier, Emerald and Sage.





Dr. Shahid Shadab Hassan

**Department of Humanities and Management
IIIT Ranchi**

Dr. Shahid Shadab Hassan, a social entrepreneur turned academician, brings over 15 years of experience in education, including 12 years dedicated to empowering rural underprivileged children. A National Awardee of the National Digital Trailblazer Award for his work in Digital Rural Literacy, he has significantly contributed to bridging the digital divide in underserved communities. For the past three years, Dr. Hassan has been associated with the Department of Humanities and Management at IIIT Ranchi, where he specializes in Communication and Behavioural Sciences. A TEDx speaker and recipient of the prestigious Yuva Prabodhan Award by former President of India Dr. APJ Abdul Kalam, he has conducted impactful workshops on Effective Communication at UG and PG levels across various colleges and has the honour of delivering sessions for the Indian Army as well. Dr. Hassan excels at building a strong teacher-student connect, creating an engaging and inclusive learning environment that inspires curiosity and active participation.



Prof. Nalin Bharti

**Professor
(Economics & Management)
IIT Patna**

Nalin Bharti is Professor of Economics (Department of Humanities and Social Sciences) and IPR Chair Professor appointed by the Ministry of Commerce, Government of India on additional charge basis at IIT Patna. He was awarded doctorate from JNU, New Delhi. His PhD is on Issues in Privatization and Its Practice: Divestiture of State Owned, Enterprises in Bangladesh and Lessons for India. His pre and post-doctoral employment includes Visiting Lecturer in colleges at University of Delhi during 2000 to 2005, Research Associate in 12th Finance Commission, Government of India in 2004, Lecturer Law and Economics at Hidayatullah National Law University, Raipur. Lecturer - Law and Economics at NALSAR University of Law, Hyderabad. His publications include the area of Labour Economics, India's Economic Reforms, Intellectual Property, WTO and India. He has successfully completed many research projects sponsored by UNICEF office of Bihar, ICSSR and JSPS (a joint research project) on 'Indo-Japan Trade and Investment: What Next after CEPA with Professor Takahiro Sato, Kobe University Japan. He has been awarded Diploma of Appreciation at University of Bialystok, Poland in Oct, 2014. He has also received many best paper awards in conferences outside the country. He has contributed around 37 research papers in International Journal, One Full reference book, 13 book chapters and more than 80 conference papers in India and abroad. His online course on Infrastructure Economics and another on Economics of IPR offered on NPTEL (Ministry of Education) got a wide range of acceptance among the students of India and abroad



Prof. H.P. Mathur

**Guest Faculty, IIT Patna Dean and
Head Faculty of Management Studies
(Institute Of Management Studies)
Banaras Hindu University, Varanasi**

UG and PG from BHU, Varanasi, Ph.D. and Post Doctoral experience in University of Western Ontario at London, Canada. Prof. Mathur has experience in research, teaching and administration for the past more than 18 Years in Professor Scale or above.



Prof. Amit Gautam

**Guest Faculty, IIT Patna Faculty of Management Studies
(Institute Of Management Studies) Banaras Hindu
University, Varanasi**

Awarded as '**Most Admired Professor in Marketing**' in '8th World Marketing Congress, Mumbai' in 2021 Attended many International Academic Events in various Countries viz. **USA, France, Germany, Netherlands,**

Belgium, Poland, Uzbekistan, Nepal etc. Assessor (NAAC)/Member in Academic Council/Board of Studies/Departmental Research Committee/Selection committees etc. of several Universities and Colleges.

Reviewer of McGraw-Hill, Inderscience, Emerald, Springer, Sage. BHU Management Review etc.



Dr. Sweta Sinha

**Assistant Professor Department of
Humanities and Social Sciences, IIT Patna**

Dr. Sweta Sinha has completed Ph.D. from Jawaharlal Nehru University, on Designing Disaster Preparedness Training Modules using Indigenous Knowledge and Increasing Community Awareness through Contextualized Technique in Bihar.



Dr. Deepak Sangroya

Guest Faculty, IIT Patna

Dr. Deepak Sangroya is an Associate Professor of Marketing at Jindal Global Business School, O.P. Jindal Global (Institution of Eminence Deemed To Be University). He has a rich blend of work experience from both Academics as well as Industry. Prior to joining JGBS, he taught at reputed institutions like Bennett University and Symbiosis Centre for Management and HRD, Pune.

Deepak earned his Ph.D. from Department of Management Studies, Indian Institute of Technology Roorkee (IIT Roorkee) and has completed Master of Business Administration from National Institute of Technology, Kurukshetra. Prior to academic assignment, he has served in the industry for five years in India and South Korea. His research interest include B2B Marketing, Green Marketing, Corporate Environmental Initiative and B2B Branding. He has contributed many research articles in referred Journals by leading publishers that include Elsevier, Springer and Sage.





Dr. Vijay Laxmi Singh

Guest Faculty, IIT Patna
Fellow IIM Ahmedabad,
M.Phil-IIPS Mumbar
Associate Professor,

Dr Vijay Lakshmi is a Fellow (Ph.D.) of Indian Institute of Management Ahmedabad (a Triple Crown accredited institute - EQUIS, AMBA, AACSB-and the top management college of India). Her research paper from her thesis on Job Crafting won the best paper award at the Academy of Management's HR Division Conference. The OB Division of AoM also acknowledged her services for outstanding scholarly peer reviewing. Dr Singh has also qualified the Government of India-University Grants Commission's National Eligibility Test for Lectureship and Research Fellowship. Her academic work has been published in ranked peer-reviewed journal publications and she has presented her research at prestigious international and national conferences. She has also delivered various soft skills, leadership (including women leadership) and managerial development training programs for professionals, including PSUs and corporates.

TEACHING AREAS

Human Resource Management, Talent Management, Organizational Design & Dynamics, Organizational Behaviour, Strategic Staffing, Performance Management, HR Analytic, Leading & Managing Change.



Dr. Arijit Roy

Assistant Professor, Indian Institute
of Technology Patna

Currently, I am working as an Assistant Professor at the Indian Institute of Technology Patna, (IITP). Prior to join IITP, I worked as an Assistant Professor at the Indian Institute of Information Technology Sri City . I was a Post-Doctoral Research Fellow in the Parallel Computing and Optimisation Group, the University of Luxembourg during 2021-2022. I completed my Ph.D. from the Indian Institute of Technology Kharagpur, in the Smart Wireless Applications and Networking Lab, Department of Computer Science and Engineering. My research area is Internet of Things (IoT) and Sensor-Cloud with Healthcare, Agriculture, Smart traffic, and UAV Networks applications. Prior to my Ph.D., I completed my MS (by Research) from Indian Institute of Technology Kharagpur, under the same supervisor. I completed my B. Tech in Information Technology from West Bengal University of Technology (WBUT). After completion of my B. Tech, I worked as a "Network Engineer" in IntecInfonet, New Delhi. I am also co-founder and director of SensorDrops Networks Pvt. Ltd.





Sriparna Saha

**Associate Professor, Department of
Computer Science and Engineering,
Indian Institute of Technology Patna**

Dr. Sriparna Saha is currently serving as an Associate Professor in the Department of Computer Science and Engineering, Indian Institute of Technology Patna, India. She has authored or co-authored more than 400 papers. Her current research interests include machine learning, deep learning, natural language processing, multiobjective optimization and biomedical information extraction. Her h5-index is 43 and the total citation count of her papers is 9879 (according to Google-scholar). She is also a senior-member of IEEE, fellow of IETE. She is the recipient of Lt Rashi Roy Memorial Gold Medal from the Indian Statistical Institute for outstanding performance in MTech (computer-science), Google-India-Women-in-Engineering-Award-2008, NASI-YOUNG-SCIENTIST-PLATINUM-JUBILEE-AWARD-2016, BIRD Award-2016, IEI-Young-Engineers'-Award-2016, SERB-WOMEN-IN-EXCELLENCE-AWARD-2018, SERB Early-Career-Research-Award-2018, Pattern-Recognition-Letters-Editor-Award -2023, prestigious "Young-Faculty-Research-Fellowship" under Visvesvaraya-PhD-Scheme for Electronics-&-IT for 5 years (Jan2019-Jan2024), Fulbright-Nehru Academic and Professional Excellence Fellowships 2024, Humboldt Research Fellowship, Indo-U.S. Fellowship for Women in STEMM 2018, Erasmus+ mobility grant, DUO-India fellowship 2020 and CNRS fellowship. . Her name is included in the list of top 2% of scientists of their main subfield discipline (Artificial Intelligence and Image Processing), across those that have published at least five papers (a survey conducted by Stanford University) for consecutive 5 years. For more details, please visit: www.iitp.ac.in/~sriparna.



Anant Prakash Awasthi

Lead Data Scientist (Optum)

PhD (thesis submitted)



Dr. Bhavana Singh

Associate Professor, AKTU Lucknow

Ph.D; MBA; MA Jagran Excellence Award



Priyanka C. Bhatt

Industrial Research Fellow, Innovation Incubation Centre, National Tsing Hua University, Taiwan

PhD in the domain of Technology Management from Department of Information Management, Chaoyang University of Technology, Taiwan with Summa Cum Laude Award. Over eight years of professional experience spanning corporates and institutions of national importance (SIDBI-IITKanpur, HBCSE-TIFR, NML). Research publications in top tier (ABDC-A) journals.

INDUSTRY EXPERTS



Shagun Maheshwari

Guest Faculty, IIT Patna
Chartered Accountant from ICAI in May 2010 Company Secretary from ICSI in June 2010. AIR 8th

Professional experience spanning audits of listed entities in India and US, preparing pricing models for proposed business relationships, reviewing audits for quality enrichment, part of the global team engaged in internal audit quality inspections, advisory solutions to ONGC Goldman Sachs, Walmart among others, strategist for New Wins and Pursuits in US-Americas.

Manager in Grant Thornton from August 2015 to April 2017

Assistant Manager in KPMG in KPMG from Aug 2012 to Apr 2014

Associate in PwC from Aug 2011 to Aug 2012





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Indian Institute of Technology Patna
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M.Tech in

- Cloud Computing & IoT
- Artificial Intelligence & Data Science

Academic
Session
2025-26

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
- eGymkhana Membership
- 24x7 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 by ePlacement Cell*



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M.Tech

Preparatory Class Schedule















02.02.2025 (11:00AM-12:15PM)	Introduction to Computer Science and Engineering: Introduction to Computer Science, Mathematics for Computer Science, Fundamentals of Programming, Computer Organization and Architecture, Operating Systems Basics, Basic Data Structures, Introduction to Algorithms
08.02.2025 (06:00PM-07:15PM)	Introduction to Artificial Intelligence and Data Science Engineering
09.02.2025 (11:00AM-12:15PM)	Technology and Communication, the Cross Cultural Dimensions of Business Communication, Types of Verbal Communication Art of Public Speaking
09.02.2025 (11:00AM-12:15PM)	Fundamentals of Data Structures, Introduction to Data Structures, Definition and Importance, Types of Data Structures, Overview of Basic Data Structures: Primitive Data Structures, Non-primitive Data Structures, Operations on Data Structures
15.02.2025 (06:00PM-07:15PM)	Data Structure using C: Arrays, Definition and Properties, Linked Lists, Stacks, Queues, Summary and Q&A
16.02.2025 (11:00AM-12:15PM)	Introduction to Machine Learning
22.02.2025 (06:00PM-07:15PM)	Machine Learning: Different Types and Applications
23-02-2025 (11:00AM-12:15PM)	Introduction to Natural Language Processing, Different tasks of NLP
01-03-2025 (06:00PM-07:15PM)	Search in AI and Data Science
02-03-2025 (11:00AM-12:15PM)	Multimodal information processing: Introduction to Multimodal Information Processing, Types of Modalities, Approaches to Multimodal Information Processing, Applications of Multimodal Information Processing, Recent Trends & Emerging Topics in MIP
08-03-2025 (06:00PM-07:15PM)	Introduction to Formal Language and Automata: Introduction, Alphabet and Strings, Formal Language Definition, Automata, Properties of Automata, DFA Construction
09-03-2025 (11:00AM-12:15PM)	Introduction of Python: Introduction to Python, Setting up Python, Basic Python Syntax, Variables and Data Types, Basic Operations, Control Flow
15-03-2025 (06:00PM-07:15PM)	Python: Functions, Data Structures
16-03-2025 (11:00AM-12:15PM)	Python: Lists, Dictionaries, Tuples, Sets, Error Handling
22-03-2025 (06:00PM-07:15PM)	Python: Try-Except Block
23-03-2025 (11:00AM-12:15PM)	Python
11-05-2025 (11:00AM-12:15PM)	Fundamentals of IoT, Introduction to IoT, How to Works, Core Technologies behind IoT, Applications of IoT, Challenges and Future of IoT, Q&A



29-03-2025 (06:00PM-07:15PM)	Cloud Computing, Introduction to Cloud Computing, Key Characteristics:, Cloud Service Models, Cloud Deployment Models, Benefits and Challenges of Cloud Computing, Cloud Computing Providers, Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), IBM Cloud, Oracle Cloud, Alibaba Cloud, Real-World Use Cases, Conclusion and QA Session
30-03-2025 (11:00AM-12:15PM)	Sets, Fields and Events, Definition of probability
05-04-2025 (06:00PM-07:15PM)	Sentiment Analysis of NLP: Recent Trends and Applications
06-04-2025 (11:00AM-12:15PM)	Summarization Systems of NLP: Recent Trends and Applications
12-04-2025 (06:00PM-07:15PM)	Complaint Mining of NLP: Recent Trends and Applications
13-04-2025 (11:00AM-12:15PM)	Hate Speech Detection in NLP: Recent Trends and Applications
19-04-2025 (06:00PM-07:15PM)	AI/ML Applications in Digital Health
20-04-2025 (11:00AM-12:15PM)	Generative AI and its Biasness issues
26-04-2025 (06:00PM-07:15PM)	Prompt Engineering in Generative AI
27-04-2025 (11:00AM-12:15PM)	Generative AI and its Applications in NLP-1
03-05-2025 (06:00PM-07:15PM)	Generative AI and its Applications in NLP-2
04-05-2025 (11:00AM-12:15PM)	Applications of Diffusion Models in understanding poetry
10-05-2025 (06:00PM-07:15PM)	Fake-news Detection using NLP and Generative AI Techniques
11-05-2025 (11:00AM-12:15PM)	Financial NLP: Recent Trends and Applications
17-05-2025 (06:00PM-07:15PM)	Small Language Models: Definition and Properties
18-05-2025 (11:00AM-12:15PM)	Future Research Trends in CS



Master of Technology (M.Tech)

-  Live Online Preparatory Classes shall start w.e.f. 02 Feb 2025
-  June 2025 Assessment & Doubt Clearing QA Sessions.
-  w.e.f. July 2025 onwards Regular Classes of 1st Semester.
-  Re-Registration for 2nd Semester Oct/Nov 2025
-  1 Term Exam in Nov/Dec 2025
-  Regular Classes of 2nd Semester Jan 2026
-  Re-Registration for 3rd Semester April/May 2026
-  2nd Term Exam May/June 2026
-  3rd Semester Classes - Dissertation work starting July 2026 onwards.
-  Re-Registration for 3rd Semester Oct/Nov 2026
-  Presentation on Thesis or Dissertation.
-  Final Term Research Paper Publication with Programme Coordinator.
-  Final Assessment
-  Award of Degree Certificate during Convocation (2027).



M.Tech Admission Eligibility Criteria 2025-26

Domestic Indian Candidates

1. Any aspiring student should have a B.Tech. / BE / MSc (Computer Science/Information Technology/Bio-informatics, Biotechnology, Mathematics, Statistics, Physics, Information Science or related fields are preferred.)/MCA/ME/M.Tech. degree
2. While not mandatory, prior work experience in relevant fields may be advantageous for candidates.
3. At least a 60% score 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). at UG level with further relaxation of 2.5% marks per year for working professionals subject to minimum marks of 50% in UG Level and maximum relaxation of 10% marks

FEE STRUCTURE

Domestic Indian Candidates

Registration Fee	₹6,000 (Excluded In Semester Fee & Non-refundable)
Semester Fee	₹73,000 Per Semester
Alumni Fee (One Time)	₹6,000 (One Time)



*Conditions Apply

FOR ADMISSION: REGISTER, SCAN & PAY
Fee Rs.6000/- (Non refundable/Non transferable)

■ **DURATION** • Minimum 2 years (4 semesters)

■ The Programme Fee shall be submitted by the learners as a Semester-wise / No-Cost EMI fee is inclusive of end-semester examinations and campus immersion fees.

■ Link of IIT Patna Fee Refund Policy <https://www.iitp-cep.in/Refund-Policy-4-2-2025.pdf>

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

or Scan & Pay



You can also pay your fee on easy EMI with 0% interest and 0 down payment.
Contact: +919795093000
accounts@iitp-cep.in



भारतीय सूचना प्रौद्योगिकी संस्थान राँची
Indian Institute of Information Technology Ranchi



भारतीय प्रौद्योगिकी संस्थान पटना
Indian Institute of Technology Patna
www.iitp.ac.in | www.iitp-cep.in

Major Organizations where Participants work



Students Adding Value at



Roles Offered	
SDE Role	ML/DL Engineer
VLSI Engineer	Cyber Analyst
Product Manager	BDE Role
UI/UX Designer	Data science
R&D Role	Data analyst
Product Analyst	BA Role



14 Grenadiers

IIIT Ranchi was responsible for a project involving the 14th regiment of "The Grenadiers". It included digitization of the battalion's data. The project was completed by students of 2023 batch of bachelor's program.



E-Vidya Vahini

Department of School Education and Literacy (DoSE&L), Jharkhand aims to create an integrated digital platform called e-Vidyavahini to ensure robust governance of the school and effective service delivery. e-Vidyavahini shall serve as single centralized dynamic platform for monitoring of all key parameters to ensure effective delivery of quality education to all the schools in the state



Arogya Sahiya

Sahiya (ASHA Workers) in Palamu have been trained on diagnosis of signs and symptoms of the subjects and on the basis of this training they are expected to council the subject (case). For their help an Android Based Mobile Application, has to be developed which upon entering basic data of the subject suggests the next steps. IIIT Ranchi proposed to create a platform for the Sahiyas.

2021-25 Batch

Available for 6 months internship & full time offers (PPO)

Batch of 2021-25 Total Students-243



Computer Science & Engineering 112

Computer Science & Engineering(Specialization) 27

Electronics & Communication Engineering 76

Electronics & Communication Engineering Specialization) 28

2022-26 Batch

Available for 2 months internship

Batch of 2022-26 Total Students-251



Computer Science & Engineering 115

Computer Science & Engineering(Specialization) 30

Electronics & Communication Engineering 80

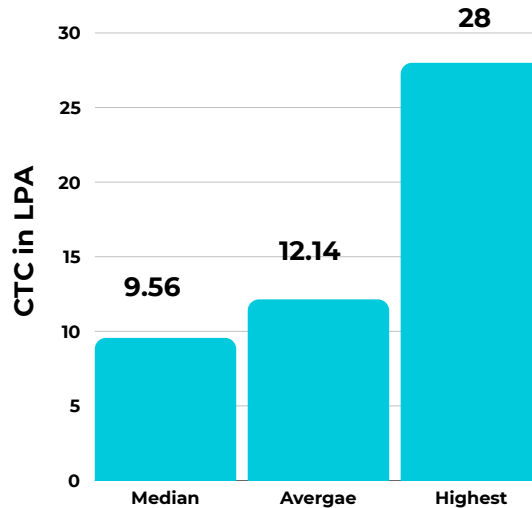
Electronics & Communication Engineering(Specialization) 26

***Internship period for 2022-2026 batch - May 2024 to July 2024**



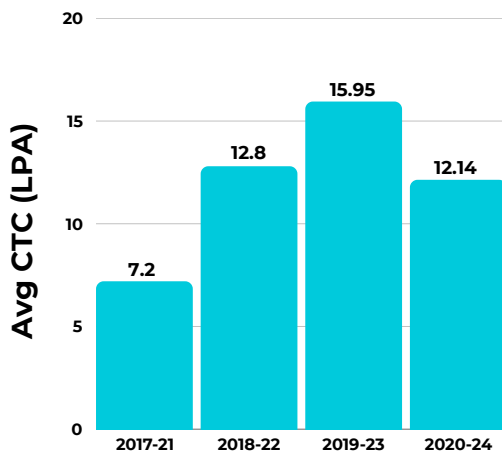
Placement Statistics

Highest, Average & Median CTC 30



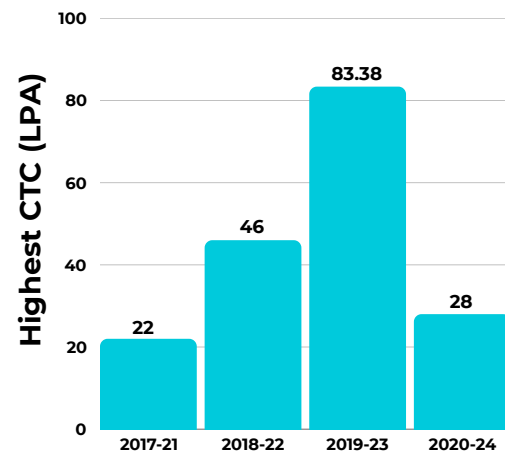
Average Package Comparison

Avg ctc vs. Year

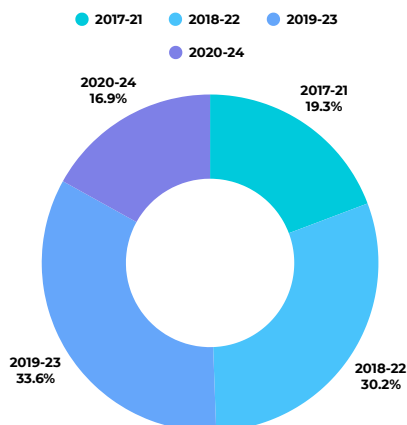


Highest Package Comparison

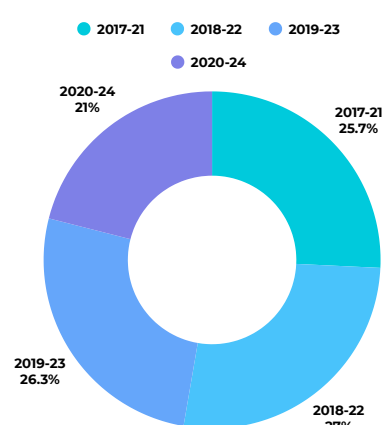
Highest CTC (LPA) vs. Year



Batchwise No. of Offers



Batchwise No. of Offers



Clubs & Activities



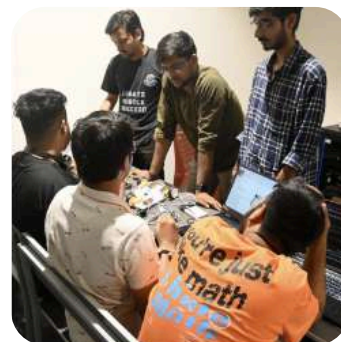
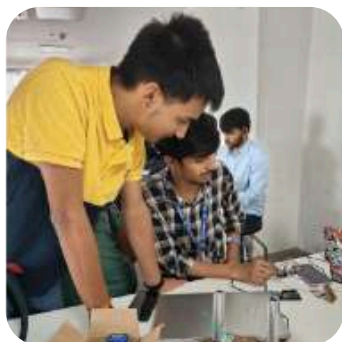
Technical Society

House of Geeks is the Technical Society of Indian Institute of Information Technology, Ranchi. Gravity is not just a force, it is the tendency of matter to move towards where the time flows slower. We believe that collaborating, mending together minds to make something phenomenal is time travel in itself!

Wings included in House of Geeks:-

CP Wing	SD Wing	PDM Wing	AI/ML Wing	Robotics Wing	CyberSec. Wing	Blockchain Wing	IOT Wing
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GALLERY



SAMPLE DEGREE



भारतीय प्रौद्योगिकी संस्थान पटना
Indian Institute of Technology Patna



भारतीय सूचना प्रौद्योगिकी संस्थान राँची
Indian Institute of Information Technology Ranchi

अभिषद की अनुशंसा पर
भारतीय सूचना प्रौद्योगिकी संस्थान राँची
के अभिशासक परिषद द्वारा
प्राप्तकर्ता का नाम
को मास्टर ऑफ़ टेक्नोलॉजी
में इक्कीस मई दो हजार चौबीस को राँची में प्रदान की गयी।

The Board of Governors
of the

Indian Institute of Information Technology Ranchi
upon the recommendation of the Senate hereby confers the degree of
Master of Technology in Cloud Computing & IoT
on
Recipient Name

given at Patna on this Twenty First day of May, Two Thousand Twenty Four

Date : 21 May 2024

Director
IIT Patna, Patna


Director
IIIT Ranchi

SAMPLE



SAMPLE OF TRANSCRIPT

S.No. :



भारतीय सूचना प्रौद्योगिकी संस्थान राँची
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY RANCHI
Ranchi - 834010, Jharkhand, India

ACADEMIC PROGRAMME : M.TECH
BRANCH : MASTER OF TECHNOLOGY[Artificial Intelligence and Data Science]
NAME OF STUDENT :

REG NO. :
CGPA :

I SEM

CODE	COURSE TITLE	CREDITS (21.00)	GRADE OBTAINED
EC-5001	ADVANCE DIGITAL DESIGN	3.00	
EC-5003	EMBEDDED PROCESSOR & MICROCONTROLLER	3.00	
HS-5001	RESEARCH METHODOLOGY AND INTELLECTUAL PROPERTY RIGHTS	3.00	
EC-5101	ADVANCE DIGITAL DESIGN LAB	2.00	
EC-5103	EMBEDDED PROCESSORS & MICROCONTROLLER LAB	2.00	
EC-5005	OPTICAL WIRELESS COMMUNICATION	4.00	
CS-5005	IOT ARCHITECTURE & COMPUTING	4.00	
SGPA : 8.82		CGPA : 7.7	

II SEM


CODE	COURSE TITLE	CREDITS (21.00)	GRADE OBTAINED
EC-5002	EMBEDDED OS & DEVICE DRIVERS	3.00	
EC-5004	IOT SENSORS & ACTUATORS	3.00	
EC-5012	ELECTIVE III - ADVANCED OPTICAL COMMUNICATION	4.00	
HS-5002	PROFESSIONAL COMMUNICATION SKILLS	3.00	
EC-5102	EMBEDDED OS & DEVICE DRIVERS LAB	2.00	
EC-5104	IOT SENSORS & ACTUATORS LAB	2.00	
EC-5010	REAL-TIME OPERATING SYSTEM (RTOS)	4.00	
SGPA : 9.82		CGPA :	

III SEM

CODE	COURSE TITLE	CREDITS (-)	GRADE OBTAINED

IV SEM

CODE	COURSE TITLE	CREDITS (-)	GRADE OBTAINED



(Examination Coordinator)

(Associate Dean (Academics))

(Registrar)





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HAVE QUESTIONS ABOUT THE PROGRAM OR
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