

# PLACEMENT BROCHURE

2023-24



INDIAN INSTITUTE OF TECHNOLOGY PATNA

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CENTRE FOR CAREER DEVELOPMENT

# 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.





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# 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





# PIC'S MESSAGE



I welcome you to the 2023-24 campus placement season at the Indian Institute of Technology Patna. Our Training and Placement Centre (TPC) is proud to support your recruitment processes both in physical and online modes. Students are the backbone and pride of our institute. This year, we have a pool of around 520 students completing their B.Tech., M.Tech., and M.Sc., eagerly waiting to make their mark in the corporate world. Our students actively participate in several national and international technical, cultural, and sports events. Apart from academics, student bodies run about a dozen clubs on campus, each focusing on different competencies ranging from public speaking to competitive coding.

IIT Patna has six engineering departments, three science departments, and a Humanities and Social Sciences department. The institute offers 8 B.Tech. programs, 12 M.Tech. programs, and 3 M.Sc. programs. In addition, all departments offer doctoral studies and lead cutting-edge research in their respective specialization. This year, the total student strength on campus has surpassed 2000.

As an institute of higher education, we yearn to trigger the creativity and intellect of students, along with imparting soft skills such as teamwork and communication. The student clubs and the student administrative bodies organize several events throughout the year to ensure everyone receives ample chances to nurture their talents and gain experience.

TPC welcomes you to visit our campus, physically or virtually, for full-time employment and internship recruitments. We promise our support and dedication in choosing your future employees and collaborators. Our representatives can assist you in the smooth conduct of the recruitment processes, including pre-placement talks, screening tests, interviews, and any other relevant selection processes. We follow transparent placement policies and procedures to benefit both students and recruiters in line with All IITs' Placement Committee (AIPC) policy.

We are confident that our students would make valuable contributions to your organization as employees. Please do not hesitate to contact us for any clarifications or support.

Looking forward to meeting your recruitment team on our campus.

**Dr. Ashwani Assam**

Professor in-charge  
Centre for Career Development

# 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

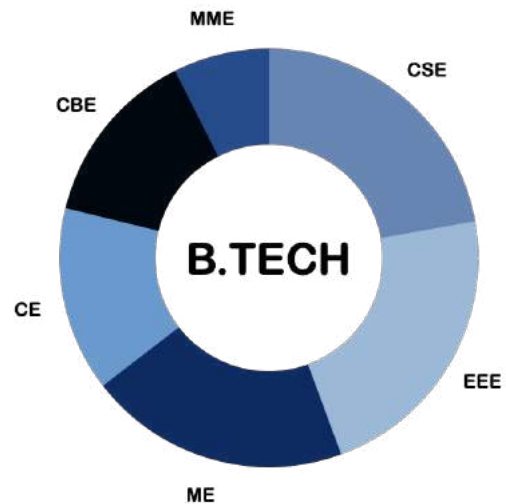


# DEMOGRAPHICS

## B.Tech.

Total strength (392)  
(2024)

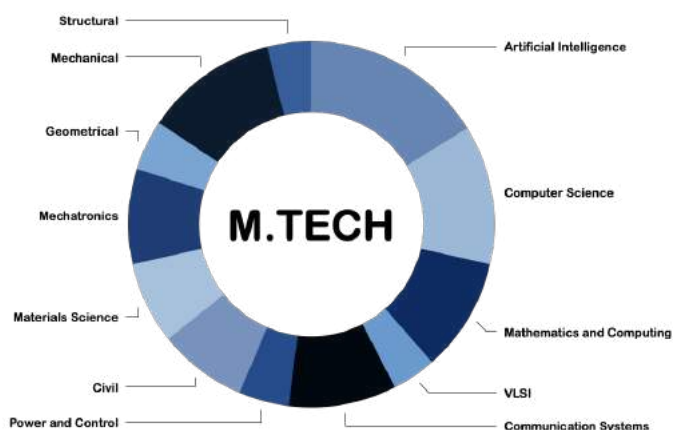
Branch	Strength
CSE	87
EEE	87
ME	79
CE	56
CBE	54
MME	29



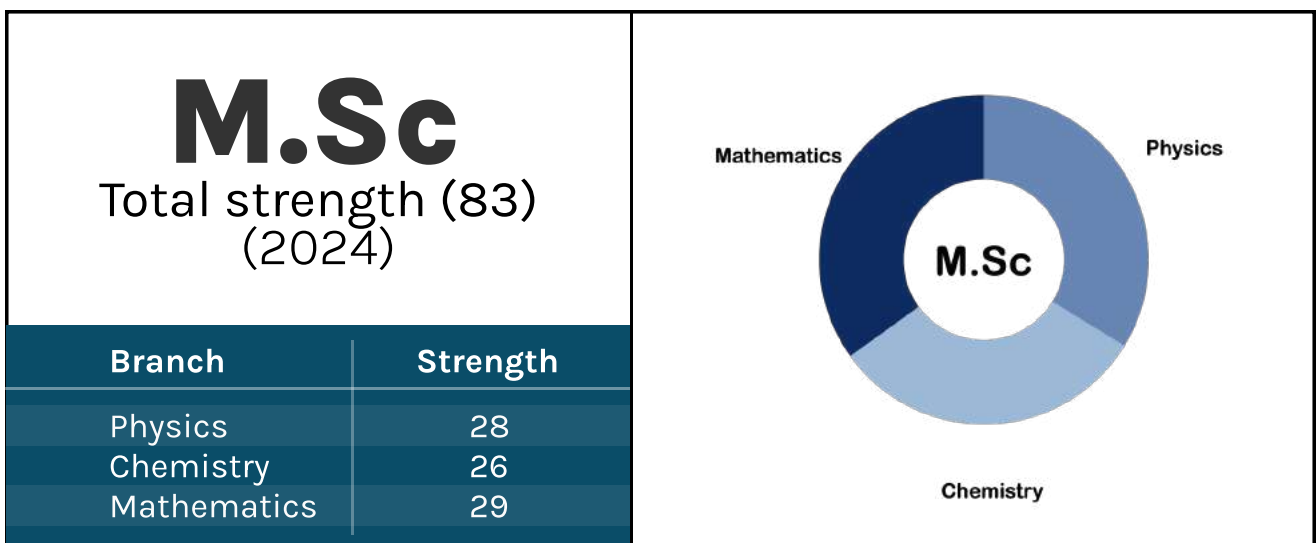
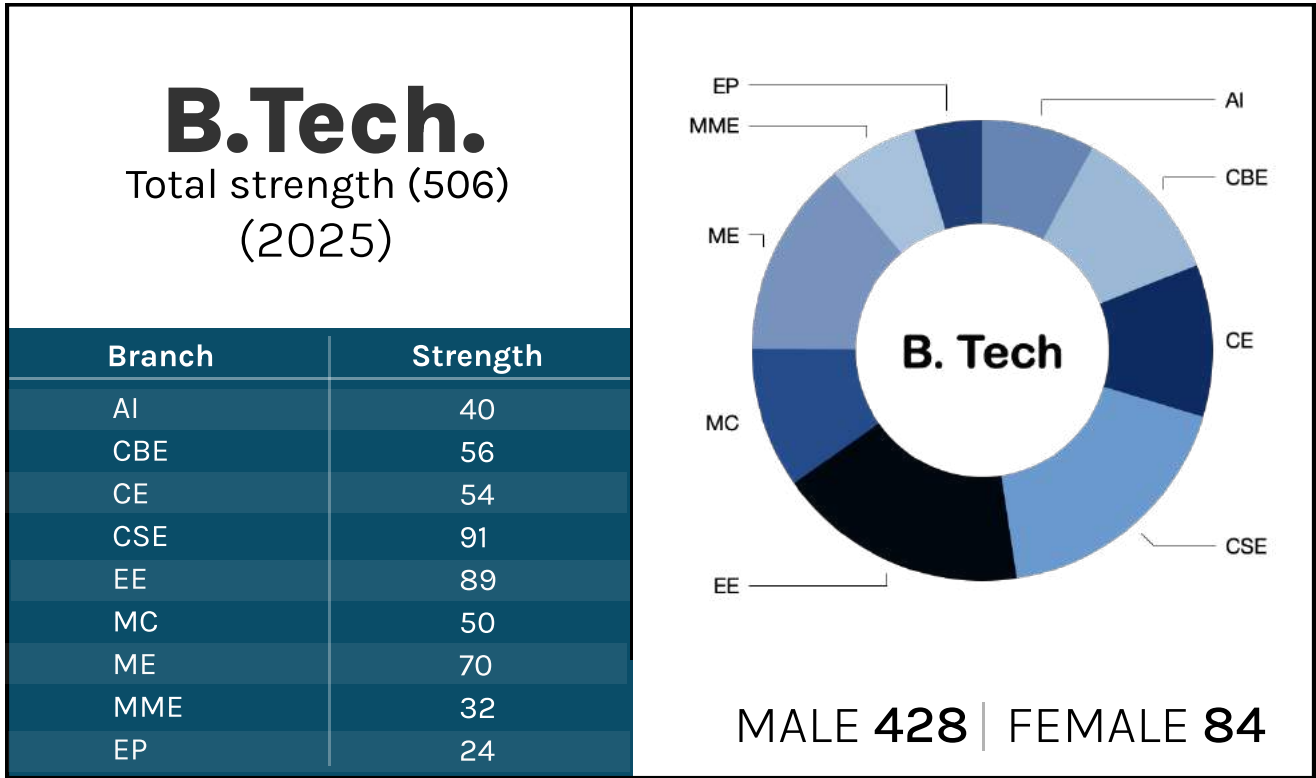
## M.Tech.

Total strength (179)  
(2024)

Branch	Strength
Artificial Intelligence	29
Computer Science	22
Mathematics and Computing	18
VLSI	7
Communication Systems	17
Mechatronics	15
Mechanical	21
Civil	14
Materials Science	13
Power and Control	8
Structural	7
Geotechnical	8



# DEMOGRAPHICS





# ACADEMIC PROGRAMMES

IIT Patna maintains a high standard of academic integrity as one of the top institutes of India for engineering and research, providing a vast array of academic programmes and disciplines to students at undergraduate, post-graduate and doctorate level.

## >> UNDERGRADUATE PROGRAMMES (Course duration: 3/4 years, full time/Hybrid Mode)

### **Bachelor of Technology (BTech)**

- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- Electrical and Electronics Engineering
- Mechanical Engineering
- Metallurgical and Materials Science Engineering

### **Bachelor of Science (BS)**

- Artificial Intelligence and Data Science
- Engineering Physics

### **Bachelor In Business Administration (BBA) in Hybrid Mode(Online/ In Campus)**

### **Bachelor of Science (BSc) in Hybrid Mode(Online/ In Campus)**

- Computer Science and Data Analytics

## >> POST GRADUATE PROGRAMMES (Course duration: 2 years, full time(regular/sponsored/Hybrid Mode),project staff,part time

### **Master of Technology (MTech)**

- Advanced Manufacturing Technology
- Artificial Intelligence
- Communication Systems and Signal Processing
- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- Geotechnical Engineering
- Mathematics and Computing
- Mechanical Design
- Materials Science and Engineering

# ACADEMIC PROGRAMMES

- Mechatronic
- Power and Control System Engineering
- Structural Engineering
- Thermal & Fluids Engineering
- VLSI & Embedded Systems

## Master of Science (MSc)

- Mathematics
- Physics
- Chemistry

## Executive Mtech

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

## Executive MBA in Dual Speceliazation

## >> DOCTORATE PROGRAMMES (Ph.D.)

The Ph.D. programmes in IIT Patna was started in July 2009 in the departments of Engineering, Science and Humanities & Social Sciences. The departments are equipped with state-of-the-art research equipment and facilities to create an environment that promotes high quality research. The enrolled students enjoy access to peer reviewed journals, and are mentored by Ph.D. supervisors to shape them for their successful careers.

IIT Patna publishes Ph.D. program advertisements twice a year, in the months of March-April and September-October on the institute website as well as on newspapers. Admission to the Ph.D. programmes is granted on the basis of performance of candidates in interview/admission tests held tentatively in the month of December and May-July every year.

IIT Patna also promotes and encourages interdisciplinary research, in which case two or more departments and centres contribute to innovative and cross- boundary research. Faculty members from various departments, centres and schools across the campus are constantly exploring research areas that must involve extensive interaction of different traditional disciplines.



# STUDENT ACTIVITIES/CLUBS



## NJACK

As the Computer Science Club of IIT Patna, NJACK aims at improving computer technology and coding culture among the student fraternity of IIT Patna by conducting several workshops, events and competitions



## TINKERER'S LAB

Tinkerer's Club is the platform for innovators and idea holders who are provided with the opportunity to convert their creative ideas into engineering products. The students go through an exciting practical experience and spend hours tinkering without any barriers.



## SPARKONICS

Advanced technical platforms and a plethora of practical projects are the key aspects of this club. An early hands-on approach with different technical fields like electronics, embedded systems, communications are made accessible to the students. The club also organizes workshops and technical events regularly.



## AI-NLP-ML Group

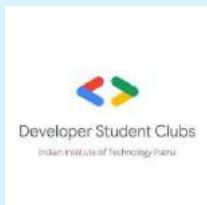
The Artificial Intelligence-Natural Language Processing-Machine Learning (AI-NLP-ML) Group was brought into effect in June 2015. Artificial Intelligence, Machine Learning, and Natural Language Processing are explored via several projects by the B.Tech and M.Tech students, Research scholars, Research engineers, Lexicographers, under the guidance of the Professors of IITP



## SCME

Mechanical Engineering discipline-related activities are overseen by the SCME(Student Council of Mechanical Engineers) club in IIT Patna. Since its inception, SCME has been conducting events, lectures, and workshops around the year for the benefit of mechanical engineering students. Many projects on Mechanical Engineering, Robotics, and Automobiles have been developed by the students of the club

# STUDENT ACTIVITIES/CLUBS



## DSC

Powered by Google Developers, Developer Student Clubs IIT Patna is a non-profit community that aims to inspire intelligent minds in the field of technology. Opportunities, where developers, designers, and managers work together to carry out real-time projects, are provided. Students explore various real-time projects that involve Web dev, ML, Block chains, IoT. It is open to any student, ranging from novice developers who are just starting to advanced developers who want to further their skills.



## ACE

Association of Civil Engineers is run and administered by the Civil and Environmental engineering department. It is the club of activities and regularly organizes several of them. ACE tries to build a healthy environment for faculty-student interaction, our vitality ranges from 'Neev', the freshers' welcome to Civil cricket League; From celebrating Teachers' Day to bidding a farewell to seniors and much more. With an active involvement of Faculty members we here at ACE are achieving all that we need to be in the growing stage of the department and yet we strive for more.



## ChessX

ChessX is known as the society of students of the Department of Chemical and Biochemical Engineering at IIT Patna. This society aims to provide and promote interaction within the department and implement academic, social and other programs of interest to its members. Chemical engineering is a highly open-ended and flexible area of study with branches extending to economics, biotechnology, electronics, policy making and much more. Our society is aimed at providing the right support to produce the best chemical engineering graduates of tomorrow.



## E-Cell

Entrepreneurship Cell, IIT Patna is a student-run organization and has been established with the objective of creating, manifesting, and guiding the entrepreneurial spirit in the student community and encouraging them to be successful entrepreneurs. Initiatives like e-week, regular guest lectures by famous entrepreneurs and businessmen, seminars, etc. are undertaken by the E-cell.



## HOSCA

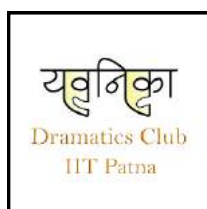
House of Socio-Cultural Affairs, prevalently known as HoSCA promotes a vibrant and eclectic campus experience through organizing multifarious activities pertaining to the cultural events, bringing students from all walks, interests, and ethnicity together in ways that stimulate lifelong learning and community interaction

# STUDENT ACTIVITIES/CLUBS



## Prayatna

Prayatna was started by the students of IIT Patna in 2018 with a motto to provide free basic education up to class X to underprivileged children of villages near the college campus. Students who are a part of Prayatna take out time during the week to teach the young curious minds who wish to learn but are deprived of basic resources, good education being one of them



## Yavanika

The dramatics club: Yavanika is the dramatics club of IIT Patna which engages interested students in different forms of drama and acting like mono acts, nukkads, stage play, mimes, etc. It is one of the oldest and well-developed clubs of the Institute



## Exousia

Students who are dance enthusiasts and love to make crowds feel the beats with their moves constitute the dance club, Exousia. The club members are enthusiastic performers and actively participate in several events inside as well as outside the campus



## Quiz Club

The quiz club is one of the most active clubs of IIT Patna. The quiz club members meet over the weekends for brainstorming sessions and organize events and fun quizzes which showcase their enthusiasm for learning through the club and interactions



## ARIA

Aria is IIT Patna's music society where like-minded people come together and express themselves through music. Regular jamming sessions and events and competitions keep the club alive all year long.

# STUDENT ACTIVITIES/CLUBS



## PIXXEL

PiXXeL is the photography and filmmaking club of IIT Patna. It is a fast-developing club with a well-structured and established team dedicated to exploring new methods of photography and videography, along with teaching these skills to new interested students. PiXXeL plays an important role in capturing moments in almost all the events that take place at IIT Patna.



## OWASP

Open Web Application Security project Student Chapter IIT Patna is a branch of OWASP led by students and faculty, that offers a variety of activities and events such as meetings and presentations on web application security topics, training and workshops on security tools and techniques, Capture the Flag(CTF) events and hackathons.



## SAAR

Students' Association for Alumni Relations (SAAR) plays a crucial role in connecting the Institute and the alumni and maintaining life-long connections between them. The committee works in association with the Institute to create a platform that helps in connecting the former students with their Alma Mater



## AP Club

AP Club (Astronomy and Particle Physics Club) is the hub of all the astronomy enthusiasts. They are dedicated in inducing interest in particle physics and the mysteries of the universe, alongwith organising stargazing events and talks on astronomy.



## Forthright

Forthright is the official student body of IIT Patna. There are students with wonderful ideas and have powerful demands, but lack a voice - the voice to reach out to the entirety of the IIT Patna family and beyond. Forthright does just that. It provides a collective student platform for them to express, motivate, confide and seek solutions.



# RESEARCH AT IIT PATNA

The Research and Development(R&D) unit of IIT Patna was established in 2009 with a view to initiate and nurture productive and interactive engagement with sponsoring agencies. The faculty and students are encouraged to engage into research activities in various engineering and interdisciplinary projects to register growth in research by generation of resources, patents, research collaborations and establishing links with the industry.

IIT Patna has research laboratories in various domains equipped with state-of-the-art facilities in Engineering, Natural Science and Humanities disciplines. The faculty members are actively working with various government agencies and R&D organisations so as to enable the participation of IIT Patna in a large number of cutting-edge scientific research projects.

The research work is reflected by the total number of projects since inception which currently stands at around 400, with about Rs. 130 crore allotted as grant.

The Incubation Centre(IC) at IIT Patna is a collaboration of the institute with the Ministry of Electronics(MeitY) and IT and the Government of Bihar. It has laboratories equipped with the latest technology in order to promote innovation and entrepreneurship with the aim to identify, nurture and translate technological ideas into reality.



# 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

# INSTITUTE FESTIVALS

IIT Patna is home to multiple fests which give students some respite from the academics, and since these are run entirely by students, they play a crucial role in the personal development of the organisers.

## Infinito

Infinito is the annual sports fest of IIT Patna, and witnesses huge participation from across the country. The sports infrastructure serves as a great host for sports enthusiasts.

## Celesta

Celesta is the techno-management fest of IIT Patna. It is organised every year in spring and is host to a plethora of technical events, workshops and exhibits, with active participation from students all over India, especially from the North-East.

## Anwasha

Anwasha is a 3-day cultural and techno-management fest of IIT Patna. Since its inception in 2010, it has grown exponentially to become one of East India's biggest youth festivals. It puts forth a multitude of events and competitions for students from all over India to participate in. One of the major attractions, the pro-nites share the glamour of rock bands, classical art forms and comedy shows, with some notable performances by the legendary singer KK and the popular band SANAM in recent editions.

## TEDx

TEDx IIT Patna is an independently organized TED event at the Institute. It is an attempt to spark deep discussions and connections between the student communities. TEDx IIT Patna gives the students of IIT Patna and nearby colleges an opportunity to be a part of interesting and enlightening talks by great personalities.





# INSTITUTE FESTIVALS

## Nebula

Nebula is the first big event for newcomer students to IIT Patna. It is a freshers' party organized by HoSCA for fun and merriment specifically planned by keeping the welfare of the fresher students in mind.

## Apeireon

Apeireon is the annual coding fest of the CSE department of IIT Patna, where a lot of online events are organized with massive participation from all over the world (1500+). It involves events from different domains of Computer Science and the challenging events are applauded by the programming community worldwide

## Reverberance

Diwali is one among those festivals which is most awaited at IIT Patna. To mark and celebrate the festive spirit of Diwali, House of Socio-Cultural Affairs and House of Literature and Fine Arts presents Reverberance, the Inter-Year Cultural Tournament.





# PLACEMENT PROCEDURE



# PAST RECRUITERS

- 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
- Bridgei2i
- 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
- Increff
- 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

# INTERNSHIPS



- 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
- Percepte Analytics
- Publicis
- Quarks
- RBL
- Salesforce
- Samsung
- Servicenow
- SMS-Datatech
- Snumbers
- 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)

# STUDENTS ACHIEVEMENTS

- IIT Patna stood 7th (overall) at the Inter IIT Tech Meet 11.0, bagging 1 gold, 2 silver and 4 bronze medals across different categories
- IIT Patna currently has 1 **Grand Master** (top 0.2%), 5 **Masters** (top 0.5- 1% coders worldwide) and 13 **Candidate Masters** (top 1 - 5% coders worldwide) as rated on codeforces.
- A team of IIT Patna students won 1st prize in the IEM AI Olympiad.
- Team 'Kisaan Connect' from IIT Patna, won 2nd prize, at the grand finale of Hackathon v2.0 mobile app development contest.
- A student received a \$10000 reward by being selected for the Adobe Women-In-Technology scholarship. Another student got selected for the Women Tech makers Scholarship.
- Sudipta Acharya (Ph.D./CS/13) received "Outstanding Postdoctoral Inbound Award 2019" from Shenzhen University China for excellent research publications in the field of computational Biology and pattern recognition during Ph.D.
- 'Butterroti', a team from IIT Patna qualified for ACM-ICPC world final 4 times in past five years.
- A total of 4 teams qualified for 2023 ICPC Regionals securing their rank under top 300 in India where our top team had the Rank 4. One team qualified for Asia West finals by having 4th rank in Kharagpur regionals and then secured the 22nd rank at Asia West Finals.
- 3 teams from IIT Patna secured the position in top 15 in ICPC Amritapuri 2021 Regionals. In the past six years, a total of 36 students have been accepted as a part of the Google Summer of Code program, including 6 students in their freshman year. It is a very prestigious program by Google to encourage open source contributions by students for which they get a stipend of \$3000.
- 15 pre-final year students of Indian Institute of Technology, Patna have received Mitacs Globalink Research Internships in Canada. Mitacs Globalink internships provide students with an opportunity to gain valuable international research experience, develop professional skills, and build a global network. The internship in Canada is recognized as a leading destination for research and innovation.



# INFRASTRUCTURE DEVELOPMENT



The Aryabhata hostel is a newly constructed hostel with 4 blocks, which joins the C V Raman hostel, A P J Abdul Kalam hostel and the Asima hostel to increase the accommodation and the intake capacity of IIT Patna.

A new Central Library is under construction, which in addition to its picturesque structure, aims to provide ample space and the perfect environment for students to focus on their work, while also providing a vast range of books and being equipped with high-speed WiFi.

The food court of IIT Patna is being expanded, which will provide space for new food outlets and more dining area.

A new guest house has been constructed to provide comfortable accommodation to guests visiting IIT Patna for official/unofficial work, with AC rooms, WiFi facility and fooding.

A hall has been constructed for the Student Affairs Council (SAC) to host cultural and other events.





## उपलब्धि • छह छात्राएं और तीन छात्रों का किया गया चयन आईआईटी के नौ रिसर्च स्कॉलर को मिला प्रधानमंत्री फेलोशिप

सिटी रिपोर्टर | पटना



**पीएमआरएफ योजना 2018-19 में शुरू हुई**

आईआईटी पटना के नौ छात्र-छात्राओं का चयन नौ रिसर्च स्कॉलर के लिए किया गया है। छह छात्राएं और तीन छात्र हैं। रमेशभारत, कामेश्वर झा, विजय, मेघना, इन्दिशिका और नील के छह-छात्राएं शामिल हैं। ये शोधकर्ता हैं।

आईआईटी पटना के नौ छात्र-छात्राओं का चयन नौ रिसर्च स्कॉलर के लिए किया गया है। छह छात्राएं और तीन छात्र हैं। रमेशभारत, कामेश्वर झा, विजय, मेघना, इन्दिशिका और नील के छह-छात्राएं शामिल हैं। ये शोधकर्ता हैं।

## बड़ी उपलब्धि • पांच छात्रों की टीम ने किया कमाल, इस सिस्टम को लगाने में खर्च होगा महज 600 से 2200 रुपए ई-वाहनों की बैटरी नहीं करेगी ब्लास्ट, आईआईटी पटना ने विकसित किया थर्मल मैनेजमेंट सिस्टम

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ई-वाहनों में अब बैटरी ब्लास्ट नहीं करेगी। बैटरी को ब्लास्ट होने से बचाने के लिए आईआईटी पटना ने स्वदेशी थर्मल मैनेजमेंट सिस्टम तकनीक को विकसित किया है। यह सिस्टम तापमान को कंट्रोल नहीं होने देता। तापमान को नियंत्रित कर बैटरी ब्लास्ट होने से बचा लेता। आईआईटी पटना के विजयस डिपार्टमेंट के पांच छात्रों ने इस सिस्टम को विकसित किया है। इससे पहले बैटरी मैनेजमेंट सिस्टम विकसित किया जा चुका है, जिससे पता लगाया जाता है कि बैटरी कितना गर्म हो रही है। इसके बाद ई-वाहनों और दिन हो रहे बैटरी ब्लास्ट को रोकने के उपायों पर इस सिस्टम को विकसित किया गया है। अंत में यह सिस्टम में इसे विकसित किया गया है।



# Two-day symposium on 6G Mobile Communication begins at IITP

**OUR CORRESPONDENT**

**PATNA:** The two-day Symposium on 6G Mobile Communication started at the Indian Institute of Technology Patna on 9th December 2022. In this program, around 150 students and professors from prestigious institutions (NTU, Singapore, IIS, NITs, IITs) from India and abroad participated. The program was jointly inaugurated by Prof. Dr. P. Hanumanth Rao (Director General, SAMER, Government of India), Prof. T.N. Singh (Director, IIT Patna) and S. K. Mall (Principal, Secretary, Information Technology Department, Government of Bihar) by lighting the lamp.

The co-ordinator of this program Prof. Pritam Kumar told in his address that the main objective of this symposium is to understand the format, standard and requirements of different use-cases of 6G. Further, the scientific difficulties related to 6G technology and possible solutions are to be discussed in this symposium.

The chief guest of the program Prof. Chaturvedi described the journey from 5G to 6G in India and suggested to explore science, technology and engineering to create new products. This era-system will provide a new direction to economy, business and start-ups, and India will also be recognized at the global level in his talk. Further he has added that Reconfigurable Intelligent Surfaces (RIS) have emerged as an energy-efficient and a cost-effective technology to support the services and demands in the future. By using a large number of low-cost passive reflecting elements they can create a favourable channel between the transmitter and the receiver.

Explaining the detailed information about the research work being done in India in the direction of 5G and 6G, Dr. P. Hanumanth Rao said that the user will experience negligible latency in data transmission and at the same time a large amount of data will be generated from different sources in 6G. His talk was focussed on 6G developments (India specific) and way forward towards 6G solutions and the technology challenges in the implementation of 6G. He assured to sign an MoU between IIT Patna and SAMER for joint research work, which will give a new direction to the research work in IIT Patna.

Addressing the program, Santosh Kumar Mall highlighted about the various works being done by the Bihar government in the field of information and technology. He envisioned that Bihar will definitely be the center of information technology in coming future. He suggested using 6G technology to enhance the ease of living of unprivileged class of the society.

Professor T.N. Singh, Director, IIT Patna, informed about the research work being done in the institute related to 6G wireless networking. The representatives of the Department of Telecommunication, Government of India were led by Abdul Qayyum (DDG, 6G Division) in the event.

At the end of the first day of the Symposium, Dr. Anil Kumar Singh from Department of Electrical Engineering, IIT Patna proposed the visit of students. Many professors, research students and staff of the institute were present on this occasion.

## आईआईटी पटना के प्री फाइनल थर्ड ईयर-बीटेक के छात्रों को मिली उपलब्धि 15 छात्र कनाडा में करेंगे मिटैक्स ग्लोबलिक रिसर्च इंटरशिप

सिटी रिपोर्टर | पटना

आईआईटी पटना से 2024 में स्नातक होने वाले बीटेक प्रोग्राम के 15 प्री फाइनल (तृतीय वर्ष - बीटेक) वर्ष के छात्रों को प्रतिष्ठित मिटैक्स ग्लोबलिक रिसर्च इंटरशिप 2023 के लिए चुना गया है। कनाडा में मिटैक्स ग्लोबलिक रिसर्च इंटरशिप को अनुसंधान और नवाचार के लिए काफी महत्वपूर्ण स्थान प्राप्त है। इसमें दुनियाभर के स्नातक छात्र रिसर्च इंटरशिप के लिए आवेदन करते हैं। इस वजह से आईआईटी पटना के छात्रों को यह अवसर मिलना एक उपलब्धि है। मिटैक्स ग्लोबलिक इंटरशिप से छात्रों को मूल्यवान अंतरराष्ट्रीय अनुसंधान अनुभव प्राप्त करने, पेशेवर कौशल विकसित करने और एक वैश्विक नेटवर्क बनाने का मौका मिलता है। आईआईटी पटना के निदेशक प्रो. टीएन सिंह ने सभी छात्रों को इस शानदार सफलता पर बधाई दी है। डीन एडमिनस्ट्रेशन प्रो. सोमनाथ त्रिपाठी, एडिन रिसोर्सिंग डॉ.



आसिफ इकबाल, पीआईसी डॉ. जोसवी पारामाबिल, कृपा शंकर सिंह उपस्थित थे। छात्र 12 सप्ताह का शोध इंटरशिप करेंगे। इस दौरान उन्हें कैनेडियन डॉलर में लगभग 5 लाख रुपये तक का स्टूडेंडशिप मिलेगा।

## 9 IIT-P scholars get PM Research Fellowships



**B K Mishra / TNN**

They are Rashi Aditi Ranjan (mechanical engineering), Joydeb Saha (electrical and electronics engineering), Shruti Saxena (computer science and engineering), Subham Rai (computer science and engineering), Priyanka Sharma (mathematics), Maansi Aggarwal (chemistry), Arnab Patil (chemistry), Priyanka Dubey (physics) and Priyanka Priyadarshani Samal (physics).

The fellowship amount for the first two years is Rs70,000 per month, followed by Rs75,000 per month for the third year and Rs80,000 per month in the fourth and fifth years. During the entire course of the fellowship, researchers are also eligible to get a research contingency grant of Rs2lakh per annum (total of Rs10Lakh for five years).

The PMRF scheme was launched in 2018-19. PMRF candidates are selected through a rigorous selection process at the national level.

Congratulations the scholars, IIT Patna academic dean A K Thakur said they would make meaningful contributions to the society through research output.



## आईआईटी पटना को इंटर आईआईटी टेक मीट में 7वां स्थान प्राप्त

बिहटा (आससे)। इंटर आईआईटी टेक मीट सबसे प्रतिष्ठित तकनीकी आयोजनों में से एक है। इस साल इंटर आईआईटी टेक मीट 11.0 नो मेजबानी आईआईटी कानपुर ने 10 फरवरी 2023 से 12 फरवरी 2023 तक की थी। आईआईटी पटना पूर्व में लगातार अच्छा प्रदर्शन करता रहा है। हालांकि, इस वर्ष का प्रदर्शन शास्वत में उल्लेखनीय है और यह हमारे देमाग की कड़ी मेहनत, समर्पण और प्रतिभा को दर्शाता है।

यहां विभिन्न स्पर्धाओं में जीते गए पदकों का विवरण दिया गया। देव रेव (ए आई) - स्वर्ण पदक, कामिनिव पारा (टेक मार्केटिंग / स्ट्रेटिजी) - रजत पदक, सपनग लैब्स (साइबर सिक्यूरिटी) - रजत पदक, आई जी डी

क्रान्टस्टडी (क्रॉटिटेवि रिसर्च) - कांस्य पदक, गोसिं पली (साफ्टवेयर डेवेलोपमेंट/आइ ओ टी) - कांस्य पदक, कान्सिंसीस (ब्लॉकचेन) - कांस्य पदक।



इस 11वां इंटर-आईआईटी टेक प्रतियोगिता में आईआईटी पटना की 115 सदस्यीय टीम ने भाग लिया और देश के 22 आईआईटी में 7वां स्थान हासिल किया। आईआईटी पटना की

7 पदक जीते। आईआईटी पटना के छात्रों ने इस उपलब्धि को हासिल करने के लिए असाधारण तकनीकी कौशल, समस्या को सुलझाने की क्षमता और टीम वर्क

छात्रों को उनके द्वारा किए जाने वाले हर काम में उत्कृष्टता के लिए प्रयास करते रहने के लिए प्रेरित करती हैं। इंटर आईआईटी टेक मीट 2023 में आईआईटी पटना का यह शानदार

## IIT-P scholars told to reinvent themselves

521 Receive Degrees At Ninth Convocation

B.K. Mishra / IITP

Patna: Jitaj A. Dani, chairman of Adverb Technologies Ltd, on Wednesday called upon young scholars to explore unconventional ways and enjoy their work fully to succeed in life. "You must evolve and reinvent yourself to accomplish your cherished desire and serve the society with utmost dignity," he said.

Speaking as the chief guest at the ninth convocation of the Indian Institute of Technology-Patna (IITP) here, Dani said students must try to evolve and adapt over time and practise perseverance. He said he was happy to notice that the co-founder of one of the drone technologies is graduating from IITP and present among the degree recipients. He congratulated all the scholars graduating from the institute and wished them a bright future ahead.

As many as 521 scholars of IIT Patna were awarded their degrees at the convocation and many among them received gold and silver medals besides prizes for their extraordinary performance in different fields.

Speaking as the guest of honour at the convocation, G Satishesh Reddy, scientific advisor to the defence minister, asserted that the Prime Minister's vision of Make In India programme has boosted the Indian manufacturing units, including those related to defence. He said that the activities being carried out in the country are all contributing to the growth of 'Atmanirbhar Bharat'. India has travelled a long distance in producing the Light Combat Aircraft, Tejas, indigenously developed gun (long-range



IIT Patna students with their degrees on Wednesday

158mm category) and indigenously-built aircraft carrier Vikramt. Furthermore, our country is fast becoming a hub for drones. Recently, defence equipment worth Rs 33,000 crore have been exported by India, he said.

IITP board of governors' chairman Anand Deshpande said the current emphasis on 'entrepreneurship and innovation' being given to IIT Patna would get boost from the newly-introduced academic degree programmes, including executive M-Tech programmes, Integrated dual degree B-Tech in Mechanical Engineering with NITIE, Mumbai, and M-Tech programme in Artificial Intelligence and Data Science in collaboration with Vishakhapatnam Technology Innovation Hub.

He highlighted the fact that apart from the core academic duties, the faculty members and students have been engaged in helping the local, mostly rural, community around IITs through various outreach programmes like 'Pratyaksha' and 'Pratyaksha'.

He expressed the hope that IITP's contributions to society will continue to grow in the years to come. At the outset, IITP director T.N. Singh welcomed the guests and presented the highlights of the institute's achievements in different fields during the last one year. The following were awarded medals and prizes at the convocation: President of India Gold Medal - Pushpesh Kumar, B.Tech, Computer Science and Engineering; Director's Gold Medal - Kishan Kumar Singh, B.Tech, Electrical Engineering; Chairman's Gold Medal - Aditya Kumar, M.Tech, Arvabhata Gold Medal - Manmohan Sahu, MSc (math); Kedar Nath Das Memorial Award - Shashwat Mahajan; Dileep Singh Memorial Award - Akshay Vishwa Ranjan; proposed a vote of thanks.

## Startup experts share insightful ideas and tips with IIT-P pupils

B.K. Mishra

Patna: Leading entrepreneurs and startup experts shared their innovative and insightful ideas with the students of IIT Patna during the two-day fourth edition of TEDx (Technology, Entertainment and Design) event which concluded on Sunday.

Centred on the theme of "Infinite Affiliates", the two-day programme was focused on celebrating the spirit of unity and togetherness among the youths. The students also interacted with seven leading personalities from different fields and got important tips and ideas on performing well in their chosen careers.

Javed Khatri, entrepreneur and founder of mobile developer App 'Kastar', which was acquired by eSikha Group for \$2 million, told the students about his humble beginning from the slums of

Mumbai and how he rose to the point where he is dealing with multi-million start-ups. His achievements of churning money by retaining his business model for selling simple objects were both insightful and motivating for the students.

Phani Tewari, professor and former head of DC School of Design, IIT Bombay said after remaining in the animation industry for two decades, he joined the teaching profession. "Creativity resides in all of us, but we need a little sensitivity and a unique perspective to see things differently," he said.

Startup expert and well-known technologist, Narayan Mahadewan, said even a failure like him can survive in the society by creating a inner world where he believed he

could achieve anything. While doing his B.Tech course, he completed learning C++ in 10 days, which ultimately taught him that with sustained hard work, even a difficult goal can be reached.

Sripurna Saha, a leading woman scientist in the field of artificial intelligence (AI), Alkhil Pandey, founder of India's leading Ed-tech Physics, William App, Kalyan Jyoti Kashyap (professionally known as Kianzo), who creates electronic music with a touch of Indian classical, and Sriharan Devaran, an associate professor in the field of cognition, computation and behaviour at Indian Institute of Science (IISc), Bangalore, also gave inspirational and insightful talks on the occasion which were highly appreciated by the students. At the outset, IIT Patna's students' affairs dean Samrati Singh introduced the speakers.

## 15 from IIT-P get research internships in Canada

Sana Nawaz

Patna: A together 15 pre-final year students of IIT Patna have received Milacs Globalink Research Internships in Canada.

Milacs Globalink Internships provide students with an opportunity to gain valuable international research experience, develop professional skills, and build a global network. The internship in Canada is recognized as a leading destination for research and innovation. In this programme, graduate students from all over the world apply for research internships.

As per a statement issued by IIT Patna on Wednesday, 15 pre-final (B.Tech third year) year students, who will graduate in 2024 from the institute, have been selected for the Milacs Globalink Research

Internship, 2023. The students who have been selected for the internship include Sri Nandan Panigrahy (Chemical and Biochemical Engineering), Siddharth Gupta (Chemical and Biochemical Engineering), Nani Grover (Civil and Environmental Engineering), Anay Karnik (Computer Science and Engineering), Pankaj Tiwari (Computer Science and Engineering), Aditya Singh (Electrical Engineering), Pradipt Mondal (Electrical Engineering), Rohan Choudhary (Electrical Engineering), Sharvarina Nithish (Electrical Engineering), Arushi Thakur (Electrical Engineering), Farhaan Alam (Mechanical Engineering), Chirag Bhardwaj (Metallurgical and Materials Engineering), Devna Srivastava (Metallurgical and Materials Engineering),

Hardik Tiwari (Metallurgical and Materials Engineering) and Rohit Sinha (Metallurgical and Materials Engineering). The selected students will do a 12-week research internship between May and October, 2023 under the supervision of Canadian university faculty members in a variety of academic disciplines, from science, engineering and mathematics to the humanities and social sciences.

The students selected from IIT Patna will get the opportunity to intern at the top universities of Canada, namely University of British Columbia, University of Alberta, University of Calgary, University of Waterloo, University of Manitoba, Memorial University of Newfoundland, Laval University, Dalhousie University and Western University, among others.

## आईआईटी पटना का स्टार्टअप 'बेसिक' 'यूथ को:लैब 2022-23' के लिए नामांकित

संवाददाता, पटना

आईआईटी पटना के छात्रों के स्टार्टअप 'बेसिक' को यूथ को:लैब 2022-23 के लिए नामांकित किया गया है। तीसरे वर्ष के बीटेक के छात्र रोहन चौधरी, पार्थ चौधरी, अश्वरथ पंचुडकर और यश गौतम ने बेसिक स्टार्टअप को स्थापित किया है। यूथ को:लैब गुणवत्ती द्वारा पहचान में गुणवत्ती और पैसिफिक एंड स्टार्टअप फंडेशन द्वारा सह-निर्मित कार्यक्रम है, जो युवाओं के नेतृत्व वाली सामाजिक नवाचार और उद्यमिता पहलों का समर्थन करता है। आईआईटी संस्थान छात्रों की इस शानदार उपलब्धि पर कामगोश्वर्या है। निदेशक ने टीम को शुभकामनाएं दी हैं।

## आईआईटी के पूर्व छात्र डॉ निवेश को मिला इंसप्यार फैक्ट्री 2022 का खिताब



डॉ निवेश ओशा डॉ सुरजित कुमार

पटना. आईआईटी पटना के पूर्व छात्र डॉ निवेश ओशा को इंसप्यार फैक्ट्री 2022 का खिताब मिला है। कई प्रतिभागियों के बीच कुल 22 लोगों को इ-निवेशिंग विज्ञान के लिए चुना गया, जिसमें डॉ ओशा का नाम शामिल है। इंसप्यार फैक्ट्री, भारत सरकार के विज्ञान और प्रौद्योगिकी

विभाग की पहल है जिसका उद्देश्य स्वतंत्र वैज्ञानिक प्रोफाइल के विकास को बढ़ावा देना और व्यक्तिगत और दीर्घकालिक फैसलें का समर्थन करना है। डॉ ओशा ने डॉ सुरजित कुमार की देखरेख में आईआईटी पटना की गैस-सॉल्विड इंटररेक्शन लेब में अपना डॉक्टरेट शोध किया। डॉ ओशा का शोध प्रकाश संश्लेषण से प्रेरित विकासशील तकनीक पर केंद्रित था, जो दूध प्रकाश की उपस्थिति में कार्बन डाइऑक्साइड को उपयोगी रसायनों में बदल सकता है। तकनीक सीओ<sub>2</sub> उपयोग के लिए एक नवीकरणीय दृष्टिकोण प्रदान करती है।

## आईआईटी पटना को मिला अटल अचीवमेंट अवॉर्ड

पटना। हर साल विभिन्न श्रेणियों में अटल अचीवमेंट अवॉर्ड दिए जाते हैं जहां इस साल आईआईटी पटना ने अपने परिसर में अत्याधुनिक तकनीकों पर गुणवत्ता प्रशिक्षण प्रदान करने और सतत शिक्षा कार्यक्रमों के तहत आउटरीच प्रदान करने के लिए भारत में सबसे तेजी से बढ़ते आईआईटी हेतु अटल उपलब्धि पुरस्कार 2022 से सम्मानित नई दिल्ली के विज्ञान भवन में आयोजित एक भव्य कार्यक्रम में सम्मानित किया गया। इस पुरस्कार समारोह के अवसर पर प्रोफेसर टीएन सिंह, निदेशक, आईआईटी



पटना ने विशिष्ट अतिथि श्री फगन सिंह कुलस्ते (केंद्रीय इस्पात और ग्रामीण विकास मंत्री, भारत सरकार), कैलाश चौधरी (राज्य मंत्री), कृषि और किसान कल्याण राज्य) और सैयद शाहनवाज हुसैन

से पुरस्कार प्राप्त किया। यह उपलब्धि पूरे संस्थान के लिए खुशी और गर्व का विषय है। पुरस्कार समारोह का आयोजन टॉप मैनेट द्वारा विभिन्न प्रतिष्ठित संगठनों के सहयोग से किया गया।







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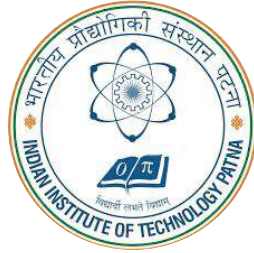
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