



भारतीय प्रौद्योगिकी संस्थान इन्दौर
INDIAN INSTITUTE OF TECHNOLOGY INDORE
OFFICE OF INTERNATIONAL RELATIONS



Professor Suhas S. Joshi
Director, IIT Indore

188+
Faculty Members



2022
2023

2,500+
Students



6500+
Publications



500+

Externally Funded Research
Projects worth 60 million USD

OVERVIEW & VISION



Global QS 2023



- Inception in 2009
- 501.42 acres of campus
- 2500+ students in UG/PG/PhD programs
- 188 faculty members
- 11 Departments
- 8 Center of Excellence
- Postal and Banking Services
- Sports Complex & Gymnasium Facilities
- Modern Hostels
- Well-equipped Guest House
- On-campus faculty residence



- Increase collaborations globally
- Enhance academic outreach
- Develop world-class research and academic facilities
- World-class technological innovation hub in Engineering,
- Biomedical, Defense, E-vehicles, renewable energy resources
- Promote Indian Culture, Heritage, and Languages



RESEARCH & DEVELOPMENT PROGRAMS



ABOUT



IIT Indore envisages the convergence of traditional disciplines as the key to accomplishing the previously unimaginable. With this foresight, IIT Indore has promoted interdisciplinary research programs focusing on basic and applied research, technology development, and innovation. This vision has helped the institute to excel in all spheres of science, engineering, humanities, and social sciences.

VISION



Promote inter-disciplinary research in science, engineering, and humanities and social sciences. Conduct disruptive and social impacting research in some chosen areas such as sustainable development, climate change, food and water security. Promote industry-oriented research leading to new products, processes, and technologies. Focus on convergence on interdisciplinary research. Promote culture of start-ups and entrepreneurship by establishing of Industrial Research Park which will be a focal point in Central India. Aggressive patenting and protection of IPR.

MEMBERS



Post Doctoral Fellows 40

Ph.D Students 1000+

Project Staff 160+



DEPARTMENTS



ASTRONOMY, ASTROPHYSICS & SPACE ENGINEERING

The Department of Astronomy, Astrophysics and Space Engineering (DAASE) was established in 2015, focusing on a wide range of research topics in the domain of Astronomy and Space weather and navigation studies such as radio astronomical instrumentation, atmospheric corruptions and ionospheric turbulences, computational astrophysics, MHD simulations, high energy astrophysics. The department currently has 9 faculty members and offers MTech, MS (Research), MSc and PhD programs.



BIOSCIENCES & BIOMEDICAL ENGINEERING

The Department of Biosciences and Biomedical Engineering (BSBE) was initiated in 2012 focusing on a wide range of research topics such as Bio-sensors and Bio-electronics, Biophotonics, Cancer Biology, Drug delivery systems, Bioprocesses, Environmental biotechnology, Infectious diseases. The department currently has 11 faculty members and offers MSc and PhD programs.



CHEMISTRY

The Department of Chemistry was established in 2009. It is home to 19 faculty members who work under different research areas such as Coordination Chemistry, Theoretical Chemistry, Solid State Chemistry, Reaction Dynamics, Surface and Interface, Spectroscopy and Imaging, Supramolecular Chemistry, Photo Chemistry, Catalysis. The department offers MSc and PhD programs.



CIVIL ENGINEERING

The Department of Civil Engineering was established in 2009. It is home to 14 faculty members who are eminent in various research areas such as Structural crash-worthiness, Composite Bridges, Landslide Research, Ground Improvement Techniques, Hydro-Meteorological monitoring, Metastructures, Nonlinear buckling analysis, Fatigue reliability, Traffic Engineering, Rheology, Lifecycle Assessment, Statistical Hydroclimatology, Rapid Composting Techniques, C&D Waste quantification and environmental risks, Safety of Roadway Infrastructure, Bayesian reliability assessment, Derivative-free formulation in mechanics, Novel Bricks and Blocks, Finite element modelling and simulations. The department offers BTech and PhD programs.



DEPARTMENTS



COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science and Engineering (CSE) was set up in 2009. The department has 18 faculty members working under different research areas such as Algorithms, Theoretical Computer Science, Geographically Distributed Development Environments, Data Mining, Hardware Trojan, Biometrics, Machine Learning, Game Theory, Digital VLSI Design, Edge-Cloud. The department offers BTech, MS (research) and PhD programs.



ELECTRICAL ENGINEERING

The department of Electrical Engineering was established in 2009 and has 17 faculty members actively engaged in research in Communications, Signal Processing, Image Processing, VLSI, Nanoelectronics, Semiconductor Devices, RF and Microwave, Photonics, Power Engineering, and Biophotonics Instrumentation. The department offers undergraduate (B.Tech.), postgraduate (MTech. in Communication and Signal Processing, MTech. in VLSI Design and Nanoelectronics, and MS by Research), and doctoral (PhD) programs.



HUMANITIES & SOCIAL SCIENCE

The School of Humanities and Social Sciences was established in 2009 and have 19 faculty members including two visiting faculty. The department has a unique research identity with various inter-disciplinary groups. The various groups include Digital Humanities, Innovation Studies, Human Factors and Cognition, Sustainability and Climate Change, Media Studies, Performance Studies, Water governance, Interfaith and Religion Studies, History, Philosophy, Linguistics, Medical Humanities etc. The School has an inter-disciplinary MS (Research) programme and a full-fledged PhD programme with more 80 PhD students across these areas. The School has also hosted international exchange programs and also has international PhD students on its rolls.



MATHEMATICS

The department of Mathematics was established in 2009. It presently has 17 faculty members working under diverse research areas of Pure and Applied Mathematics, such as Algebra, Applied Mechanics, Complex Analysis, Computational Seismology, Differential Equations, Dynamical Systems, Geometric Function Theory, Harmonic analysis, Kinetic theory, Machine Learning, Mathematical Modelling, Mathematical Biology, Modal Logic, Number Theory, Numerical Functional Analysis, Numerical Linear Analysis, Optimization, Radon Transform, Rough Set Theory, Special functions, Statistical Decision Theory, and Wavelet Analysis. The department offers B.Tech, M.Sc, and Ph.D programs.



DEPARTMENTS



MECHANICAL ENGINEERING

The department of Mechanical Engineering was established in 2009. It presently has 25 core faculty members working under various research areas such as Modeling and development of micro-machining processes, Laser micro-machining, Biofuels, Optical instrumentation, Surface engineering, Smart materials and structures, Abrasive based finishing process, Piezoelectric, Pyroelectric and ferroelectric materials, Severe plastic deformation (SPD), Theory of plates and shells, Combustion, Additive manufacturing of biomaterials and high melting point metallic materials; Solid state additive manufacturing of lightweight materials and composites, phase change materials, jet impingement cooling, microchannel heat transfer, thermal management of electronic components, Computational Fluid Dynamics, composite materials. The department offers BTech, MTech, MS (research) and PhD programs.



METALLURGY ENGINEERING AND MATERIAL SCIENCE

The Department of Metallurgy Engineering and Materials was set up in 2016. It presently has 19 faculty members working under various research areas such as Nanomaterials, Biosensors, Photo-active materials, Heat treatment of Metals and Alloys, Synthesis of superabsorbent materials, Indentation mechanics, Phase transformation, Fatigue and fracture, Solidification: Experiments and Simulation, Polymer-Ceramic Composites, Data-Driven Modeling. The department offers MTech and PhD programs.



PHYSICS

The Department of Physics was initiated in 2009 focusing on various research areas such as Thin Films and Multilayers, X-ray Absorption Fine Structure, Battery materials, Optoelectronics, Applications of Density Functional Theory, Mesoscale and Nanoscale Physics, Topological Insulators, Relativistic Heavy Ion Collisions: Quark-Gluon Plasma, Phenomenology of Quark-Gluon Plasma, Hadron Physics, String Theory, Topics in gravitational and black hole physics, Spectral graph theory, Synchronization, Delayed networks, Extreme events, Adaptation and Evolution and many more. The department currently has 16 faculty members in total. The department offers MSc and PhD programs.



CENTER OF EXCELLENCE



Center for Advanced Electronics (CAE)



Computer and Information Technology Center (CITC)



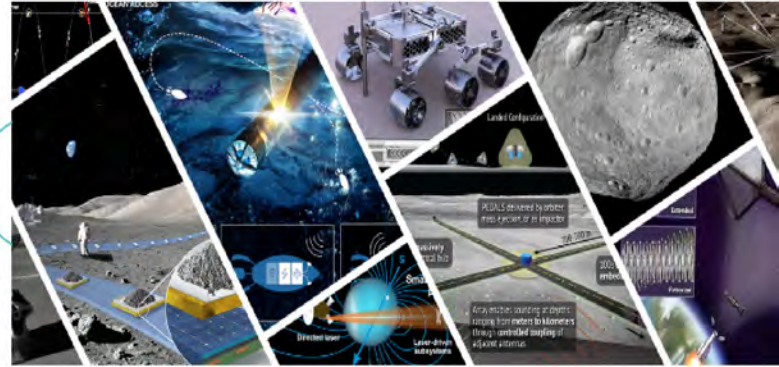
Center for Indian Scientific Knowledge Systems (CISKS)

भारतीय वैज्ञानिक ज्ञान परंपरा केन्द्रम्
भारतीय प्रौद्योगिकी संस्थान इंदौरम्
Centre for
Indian Scientific Knowledge Systems
Indian Institute of Technology Indore

Center for Entrepreneurship Education and Development (CEED)



**Center of Futuristic
Defense and Space
Technology(CFDST)**



**Center for Rural
Development and
Technology(CRDT)**



**Center for Electric Vehicle
and Intelligent Transport
Systems(CEVITS)**



**Sophisticated
Instrumentation
Center(SIC)-
A National Facility**



INTERNATIONAL COLLABORATIONS



Total Number of International MoUs: 70+



FUNDING OPPORTUNITIES FOR COLLABORATIONS



NATIONAL



Department of Science and Technology
<https://dst.gov.in/>



Indian Space Research Organization
<https://www.isro.gov.in/>



Defence Research and Development Organization
<https://www.drdo.gov.in>



Indian Council of Medical Research
<https://www.icmr.gov.in/>



Department of Biotechnology
<https://dbtindia.gov.in/>



Department of Atomic Energy
<https://dae.gov.in/>

INTERNATIONAL



German Academic Exchange Service
<https://www.daad.de/en/>



Arts and
Humanities
Research Council

Arts and Humanities Research Council
<https://www.ukri.org/councils/ahrc/>



Shastri Indo-Canadian Institute
<http://www.shastriinstitute.org/>



Commonwealth Fellowships
<https://cscuk.fcdo.gov.uk/>



Indo-U.S. Science and Technology Forum
<https://iusstf.org/>



Erasmus Mundus
<https://erasmus-plus.ec.europa.eu/>



Japan Society for the Promotion of Science
<https://www.jsps.go.jp/english/>



The Association
of Commonwealth
Universities

The Association of Commonwealth Universities
ACU
<https://www.acu.ac.uk/>



Alexander Von Humboldt
<https://www.humboldt-foundation.de/en/>



Max Planck Society
<https://www.mpg.de/institutes>

RECENT INITIATIVES



- **Global e-learning program**
(<https://ir.iiti.ac.in/#/inbound/students/gelp>)
- **Sharman Fellowship** for B.Tech. students of IIT
- **Short term Collaborative Research Fellowships**
for IIT Indore PhD students (outbound) to visit foreign institutions
(<https://ir.iiti.ac.in/#/inbound/students/srp-is>)
- **Short Term Collaborative Research Fellowships**
for International PhD students (inbound) to visit IIT Indore
(<https://ir.iiti.ac.in/#/outbound/students/srp-iitis>)
- **UG/PG Students' Semester Exchange Program**
(https://ir.iiti.ac.in/#/ug_pg_fellowship)
- Mobility Grant for IIT Indore Faculties



ACHIEVEMENTS

- **70+** students visited Canada, US, Australia, UK, France, Greece, Switzerland, and several other countries under various scholarships viz; Indo-US Science and Technology Forum (IUSSTF), Humboldt Postdoctoral Fellowship, Max-Planck Partner group, DBT, OVDF and many more
- **50+** faculties visited foreign institutes under various national and international funding program viz; DST, RFBR, SERB (New Delhi), DAAD Scholarship, Finnish National Agency, DUO-INDIA Professor fellowship and many more
- Organized several International Conferences / Workshops / Webinars
- **30** eminent foreign faculties' visit
- **227** international publications



Scheme for Promotion of Academic and Research Collaboration



ACHIEVEMENTS



- 75 projects approved under GIAN
- 20+ projects approved under SPARC, VAJRA and ASEM-DUO
- 35 international bilateral research grants, 70+ international MoUs signed
- Partners with SII, DIA-ASEAN, ICCR, Nepal Scholarship, Heritage Network, SICI, ACU and Green Network
- One student received Charpak Exchange Scholarship 2023 (Spring Session)
- Hosted several interns and exchange students



MITACS GRI RESULTS 2023, IIT INDORE



Ujjwal Hendwe
University of Montreal



Aditya Guha Garkar
University of British Columbia



Kshitij M Bhat
Lakehead University



Parth Dwivedi
Dalhousie University



Dhruv Parashrampur
University of Calgary



Soham Ghewari
York University



Amit Dhavale
University of British Columbia



Chinmayi Adoni
University of Wilsonton



Shruti Modi
McGill University-Montreal



Nischit Hosamani
Athabasca University



Sejal Kotian
Université Inrs-Varenes



Jitin Kumar
University of Toronto

Congratulations and all the best!

INNOVATION & ENTREPRENEURSHIP



- Established Advanced Centre for Entrepreneurship (ACE)
- Incubated 22 start-ups
- Established Centre for Entrepreneurship Education and Development (CEED), Inculcating courses promoting entrepreneurship in the curriculum
- Conducting annual E-Summit
- Organising annual industry Academia Conclave to invigorate efforts toward joint ventures and partnerships
- Organising annual TEDx events to inspire, galvanise, and orient students toward their goals



ALUMNI'S EXPERIENCE



Mr. Tim Seedorf

PhD Scholar (Exchange), Chemistry Department
Germany

"My Name is Tim. I am a PhD exchange student from the Leibniz University of Hannover in Germany. I got the opportunity to visit IIT Indore for six weeks. During this time I could work on my research project in the laboratory of Dr. Chelvam Venkatesh. The time at IIT Indore was very valuable to me. I was warmly welcomed by anyone I met, especially my lab colleagues, which made it easy for me to get started. In addition to doing my research in an environment that was new for me, I am glad to have experienced the Indian way of life both on and off campus. I gained insights into Indian culture through countless conversations with a wide variety of personalities, and once again, the friendliness of the people was confirmed to me. When I went home, I left the IIT Indore campus with a good feeling, having come into contact with so many great people from different departments during the six weeks. It was a time that I will remember."



Musa Alhassan Shittu

M. Tech., Mechanical Engineering (Mechanical System Design)
Nigeria

"Before joining IITI I was worried that studying in India would look tough but after my application, I had interviews with different professors and Doctors in the online session, after which I was admitted. At IITI they look for the best students, and you get an outstanding academic education. Moreover, university life here also differs a lot from what you would get in where I come from, which is Nigeria, it involves much more than the academic part: societies, sports and living in College. You have friends from all over the world, but there is also a nice Laboratories even though my program was fully ONLINE MODE, I made a lot of academic achievements and it was amazing, it was a very smooth process. The lectures give you best of them, and I would truly recommend applying any other person to IIT INDORE. IT WAS A GREAT EXPERIENCE. THANK YOU ALL AT IIT INDORE."



Mr. Sumit Kumar Gupta

M. Tech., Mechanical Engineering (Mechanical System Design)
Nepal

"I feel proud to be a part of Indian Institute of Technology Indore. In this globally competitive environment, it is an enriching experience for me to be a part of this prestigious organization where I get a chance to enhance my skills and learning. I also love the welcoming nature of the faculties and other students. Everybody has been incredibly patient as I have adjusted to this new place. I enjoy all my classes and am lucky to have such teachers. I truly appreciate every single moment I spend here. The relationships I have made here are likely to last a lifetime. I can testify that I am very different from what I was before because of the environment provided by IIT Indore. Thank you IIT Indore for everything."

ALUMNI'S EXPERIENCE



Mr. Sudipta Das

M. Tech., Electrical Engineering (VLSI Design & Nanoelectronics)
Bangladesh

"I choose to study at Indian Institute of Technology Indore (IIT) because I always wanted an opportunity to study at a top-level institution and participate in an outstanding program. The University has great academic standards and holds high ranking world wide. Studying at IIT Indore has allowed me to experience rich cultural environment and gain new perspectives. This is a perfect place for curious and motivated students because here you can interact with students from different research fields. Each department has reputed faculties as well. I definitely recommend studying in IIT Indore, which is situated in the beautiful, cultural and vibrant city Indore."



Mr. Pravin Karna

M.S. (Research), Mechanical Engineering
Nepal

"Life at IIT Indore is every student's dream. The education and research environment provided is second to none. Highly equipped laboratories enable students to attain practical knowledge. Nicely equipped hostel rooms and dining facilities doesn't make you feel away from home. The internal transport facilities saves time required to move from one place to another. Using e- vehicles for transportation and solar cells for power generation, IIT Indore also emphasizes on the most important issue of climate change. The abundance of greenery in and around the college keeps you close to nature and adds beauty to the college. Great sports facilities include playgrounds, courts, and gym facilities. This helps students to improve their physical as well as mental fitness. All in all, studying at IIT Indore has been a joyful ride."

A snap of International Students at IIT Indore



PLACES TO EXPLORE



The **Patalpani Waterfall** is located in Mhow Tehsil of Indore district in the state of Madhya Pradesh, India. The waterfall is approximately 300 feet high. The area around Patalpani is a popular picnic and trekking spot.

Rajwada, also known as the Holkar Palace or Old Palace, is an important historical palace in Indore that was constructed by the Holkars of the Maratha empire, around 2 centuries ago. An example of the fine architectural skill & magnificence of those times, the palace is an impressive 7 storey structure that is placed near the Holkar Chhatris.



Kamla Nehru Prani Sangrahalaya is one of the recognized zoos under the Central Zoo Authority. Indore zoo was established in 1974 at Navlakha area and present area of Indore zoo is 51.975 acres. Indore zoo deploys online booking, animal-health app, and touchless entry system that is tightly integrated with e-Nagarpalika, making it the most advanced zoo in India.



FACILITIES



Central Dining Facility



Forest Trill



Computer and Information Technology Center



Academic Building



Lecture Hall Complex



Learning Resource Centre

FACILITIES



Vindhyachal Guest House



Hostel Accommodation



Central Workshop



Health Centre



e-vehicle: for campus commute



Sports Complex

IR TEAM



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