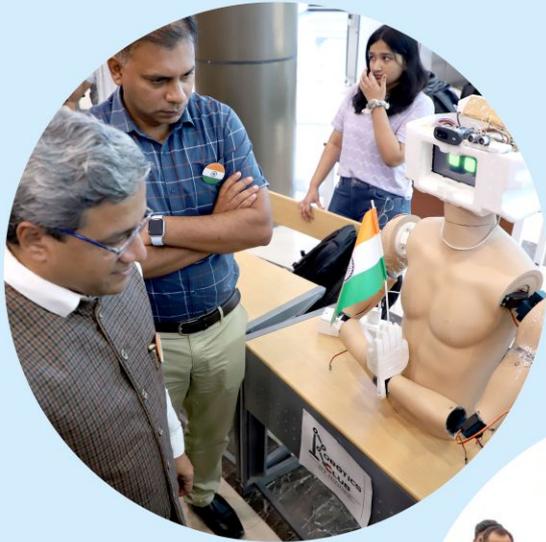


ANNUAL REPORT 2023-24



भारतीय प्रौद्योगिकी संस्थान इंदौर
Indian Institute of Technology Indore



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About Us

Indian Institute of Technology Indore located in Madhya Pradesh, known as IIT Indore or IITI, is an institute of national importance established by the Government of India in 2009. It is one of the eight second Generation IITs, started by the Government of India. The Institution started functioning from 2009-10 in a temporary campus at the Institute of Engineering and Technology of Devi Ahilyabai Vishwavidyalaya, Indore under mentorship of IIT Bombay. Shri Arjun Singh, the Union HRD Minister, laid the foundation of the permanent campus, spread over an area of around 501.42-acre (2.1 km²), on 17th February 2009 at Simrol, village a location on Khandwa Road about 25 km from the city of Indore. Since February 2016, IIT Indore has started functioning from its permanent campus.

Infrastructure of the Institute: Total area 501 acres. Total Constructed area: 2,21,000 sq. mtr. which includes 5 hostels, Academic Buildings, Learning Resource Center (Central Library, Administrative Building, Lecture Hall Complex with Seminar Hall and Auditorium, Community Health Center, Central Dining Facility, 3 Residential Units, Sports Complex, Kendriya Vidyalaya Building and other allied Services).

Departments/Schools:

IIT Indore imparts courses in Engineering, Sciences and Humanities with the following

- Astronomy, Astrophysics and Space Engineering
- Civil Engineering
- Electrical Engineering
- Metallurgical Engineering and Materials Science
- Physics
- Mathematics
- Biosciences and Biomedical Engineering
- Computer Science and Engineering
- Mechanical Engineering
- School of Humanities and Social Sciences
- Chemistry

Courses available:

- **B.Tech** (in Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, Civil Engineering, Metallurgical Engineering and Materials Science, Chemical Engineering, Mathematics and Computing, Space Science and Engineering, Engineering in Physics)
- **B.Tech + MTech** dual degree
- **MTech, MTech+PhD** dual degree
- **MS Degree in Data Science and management (MS-DSM)**
- **Student Exchange Program** (both in and out bound) within and out of India.
- **MSc, MSc+PhD** dual degree
- **MS (Research), MS (Research)+PhD** dual degree
- **PhD**

The Institute has no. of 205 Regular Faculty members, 10 Visiting Faculties and 176 Regular Non-Teaching Staff members.

Research and Development: Research at IIT Indore has been recognized at both international and national level. Faculty members and scientists are actively involved in several key international projects and joint collaborations with research organizations in Japan, South Korea, Russian Federation, Portugal, France, Germany, UK, USA, and many other countries. IIT Indore envisages the convergence of traditional disciplines as the key to accomplishing the previously unimaginable. With this foresight, IIT Indore has been promoting inter- disciplinary research programmes focusing on basic and applied research, technology development and innovation.

A key competency of IIT Indore is the research driven academic programme as it forms a core component of the undergraduate and postgraduate teaching. IIT Indore has consciously promulgated the idea of involving undergraduate students in forefront research projects. Foreign Lab visit scheme for students.

Patents: 66 patents have been granted against 155 Filed patents so far, wherein 32 were granted in the financial year 2023-2024.

International Relations: IIT Indore is rapidly expanding globally with an aim to internationalize its teaching and research portfolio. Currently, we are collaborating intensely with counties across North America, Europe, Asia, and Oceania. In continuation to the previous year, this year we had notable progress on three fronts. First, we were successful in recruiting and hosting many international students in our degree programs (from ASEAN and SAARC regions). Second, we secured multiple grants from our Ministry of Education, which is feeding well into our internationalization endeavors. Third, we expanded our footprint further in Europe.

Foreign Students: Continuing the upward trajectory in enrolling foreign students in our degree programs, since 2019, we have hosted 04 international students who were from Bangladesh, Nepal and Nigeria and joined us through the Study in India (SII) program. Currently we have 05 MTech students and 02 PhD research scholars at our campus native from Nepal, Nigeria, Ethiopia and Bangladesh. Additionally, IIT Indore has been hosting foreign students as interns since its inception, till date we have hosted 08 Thai students, 01 from Taiwan and 01 student from USA. This has helped us establish our brand in ASEAN countries, and specifically Thailand. The Institute has total no. of 20 foreign students in campus as on date.

Alumni Relations: The legacy of an academic institution is reflected by the professional, moral, and ethical gestures being taught to its students. The alumni network of IIT Indore forms an essential and integral part of propelling the institute towards excellence in all spheres of academics and research and in producing leaders. A significant number of them are already deeply engaged in nation-building by rendering their services to renowned organizations nationally and globally. Some of them have taken up the path to set up new entrepreneurial ventures to take the country on the path of growth and prosperity. IIT Indore believes in the culture of developing a bond of association with alumni, and there is a constant reach out to the alums to keep them engaged with the latest of the institute for a journey beyond their associateship.

Corporate Relations: A close relationship with corporates is another aspect that an academic and research institute nurtures to foresee prospects in the global impact of an institute. IIT Indore is constantly exploring feasible partnerships with different industries for its exponential growth in all dimensions. The institute also provides a flexible and favorable ecosystem for corporations to fulfill societal commitment through Corporate Social Responsibility (CSR) activities to benefit the wider community.

Facilities at IIT Indore: The Institute have the several facilities for IIT Indore community members such as Health Centre, Counselling Services, Hostel, Central Dining Facility, Training and Placement, Computer and Information Technology Center, Creche Facility, E-Payments, Transport and Green vehicle Facilities, Kendriya Vidyalaya, Central Workshop, Indoor & Outdoor Sports facilities, Gymnastics, Shopping and Food Stall, Printing facilities etc.

NIRF Ranking: The Institute secured 16th rank under the “Engineering category” and 33rd position in “Overall” category by the NIRF ranking system.

Societal Mission and Outreach: On the 15th Foundation Day of IIT Indore, the 10th successful blood donation camp was organized with the contribution of 321 generous donors. Avana club members had a visit to Jagannath Narayan Vridhashram to engage with the residents through various activities aimed at bringing joy, companionship, and support to the elderly members.

Avana club IIT Indore partnered with the Being Sevak Charitable Foundation in Bombay to provide essential kits for blind students, underscoring our dedication to social welfare. The kit included specialized braille systems, vital nutrients, notebooks, and educational materials, addressing the unique needs of visually impaired learners. Avana Team had a visit to Simrol Higher Secondary School and Kanyashala, engaging with students from grades 4 to 12. With passion and dedication, the team shared basic concepts of various subjects, creating an engaging and interactive learning environment. A cloth donation drive has been conducted on the campus aimed at collecting clothing and stationery items from all corners of the campus, extending the spirit of generosity to the broader community. Partnering with local organizations, they identified areas where the donations would have the most significant impact.

IIT Indore adopted Govt. Middle School in Gajinda: In its pursuit of expanding the ambit of social and educational outreach programs, the Institute has identified Govt. Middle School Gajinda near Baigram on Khandwa Road under Mhow Tehsil, District -Indore, for extending academic and infrastructural support to transform the academic standards of the school. A formal announcement for the adoption of the village school was made by the Director of IIT Indore on the occasion of the 15th Foundation Day of the Institute. In order to identify the areas of cooperation, a team of senior faculty and officers visited the school and had meaningful interaction with the headmaster, teachers, and students.

The school comprises eight classes from Std I to VIII with a student strength of 194 (Boys: 98 & Girls: 96). Out of the total students, 180 i.e., 93% students are from Scheduled Tribe community, 11 students i.e. 6% are from Scheduled Caste community and 3 students, i.e. 1% is from the OBC community. Special attention in education is thus necessary for students from socially and economically challenged sections to ensure equal opportunities for success and to bridge the gap in educational achievement between different socio-economic groups.

Board of Governors, IIT Indore

Chairperson Dr. K. Sivan Indian Institute of Technology Indore (w.e.f August 22, 2023)	Chairperson Professor Deepak B. Phatak Indian Institute of Technology Indore (from 18 Feb 2019 to 17 Aug 2023)
Director Professor Suhas S. Joshi Indian Institute of Technology Indore	Shri S.K. Barnwal Additional Secretary (TE), Govt. of India, Ministry of Education, New Delhi
Shri Manu Shrivastava Principal Secretary Department of Technical Education & Skill Development, Govt. of Madhya Pradesh	Professor Yogesh M. Joshi Department of Chemical Engineering, IIT Kanpur
Professor Dhananjay V. Bhatt Professor (Retd.), Department of Mechanical Engineering S. V. National Institute of Technology, Ichchhanath, Surat (July 11, 2028 to November 22, 2023)	Shri Manoj Kohli Executive Chairman, SB Energy (Soft Bank Group) New Delhi (July 11, 2028 to November 22, 2023)
Prof. Prabhat Kumar Upadhyay (Senate Nominee) Department of Electrical Engineering Indian Institute of Technology Indore	Prof. Preeti A. Bhoje (Senate Nominee) Department of Physics Indian Institute of Technology Indore
Mr. S. P. Hota Registrar and Secretary to Board of Governors, Indian Institute of Technology Indore	

The following Institute functionaries are providing contributions in the different specialized areas in the management of the Institute:

- Dean, Academic Affairs
- Dean, International Relations
- Dean, Research and Development
- Dean, Alumni and Corporate Relations
- Dean, Educational Outreach
- Dean, Administration
- Dean of Infrastructure Development
- Dean, Student Affairs
- Dean, Faculty Affairs
- Registrar

Office of the Registrar	
Meetings of the Statutory Authorities held during the F.Y: 2023-2024	
Board of Governors	: Three meetings held on 04.05.2023, 14.07.2023 and 20.11.2023
Finance Committee	: Three meetings held on 04.05.2023, 14.07.2023 and 20.11.2023
Building and Works Committee	: Three meetings held on 13.04.2023, 30.10.2023 and 30.01.2024
Senate	: Eight meetings held on 12.05.2023, 07.07.2023, 30.11.2023, 12.12.2023, 19.12.2023, 15.01.2024, 25.01.2024 and 28.3.2024

(Rs. In crores)

Financial Status: As on 31.03.2024			
Grant Under Object Head 35 Non-Recurring	Grant Under Object Head 36 Recurring-Salary	Grant Under Object Head 31 Recurring-General Expenses	Grant for HEFA Loan
36.60	82.32	63.85	40.57



Mission

The driving force behind the 21st Century is the development of knowledge-intensive societies. It has led to the establishment of new Institutes of higher learning in India. Indian Institute of Technology Indore, established in 2009, is part of the initiative that envisages India as a global knowledge and technology leader. Continuing with the tradition of the older IITs, IIT Indore aims to play an active role in propelling India on her growth trajectory by focusing on research-based education and innovation-driven research and entrepreneurship. IIT Indore aims to achieve this mission with humanistic concerns.



Vision

Academics

- To inculcate and promote an academic community with independence of thought and free expression of research and innovation ideas.
- To provide a balance of continuously updated knowledge with extensive hands-on training on sophisticated facilities.
- To start new academic programs in futuristic areas such as data science, electric vehicles, intelligent transport system, space engineering, Indian scientific knowledge, etc.
- To increase the internationalization of the Institute by selecting an increasing number of international students and engaging distinguished international faculty in teaching and research.
- To increase candidates from Industries, Defense forces, and Engineering Institutions in different PG and PhD programs.
- To increase the involvement of adjunct faculty from Industries for teaching, research, and innovation.
- To involve experts from reputed industries and Foreign Universities in curricula design.

Research, Development, and Entrepreneurship

- Promote interdisciplinary research in science, engineering, humanities and social sciences.
- Conduct disruptive and socially impacting research on some chosen areas such as sustainable development, climate change, and food and water security.
- Promote industry-oriented research leading to new products, processes, and technologies.
- Focus on the convergence of life sciences, medical sciences, and agricultural sciences with engineering.
- Promote the 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.



Objectives

- Enhancement of academic, technological, and social outreach of the Institute through societal research, education, healthcare, sanitation, and rural development.
- Development of world-class research and learning facilities for industries, teaching and research institutions.
- Skill development and scaling up the research and innovation towards the national requirements.
- To contribute to the development of world-class technological innovation in Engineering and Biomedical instrumentation, Defense, E-vehicles, alternate energy resources, etc.



Director's Message

I am proud to highlight that IIT Indore, as one of the second-generation IITs, has emerged as a top-ranking institution in India.

This Institute holds the 14th position nationally among engineering universities and are ranked 11th among Indian Institutes in the QS ranking. As a relatively young institute, we are committed to improve both our national and international rankings in the coming years.

IIT Indore is in expansion mode in multitude directions in it is academic, research, outreach and societal activities. Since the inception of NEP 2020, IIT Indore has implemented several innovative academic programs and courses, embracing holistic education and new teaching methods.

The Institute now offers 9 BTech programs and 15 MTech programs, including collaborative *MTech (Biomedical Engg.) and MTech (Laser and Optics)* with AIIMS Bhopal and RRCAT, respectively. Additionally, an Executive M.Tech program on Hybrid Vehicle Technology with Volvo-Eicher and a forthcoming Master's course on '*Cyber Security and Cyber Law*' with National Law Institute University, Bhopal, are some of the noteworthy additions. IIT Indore also offers 6 MS (Research) programs, including one with IIM Indore, 5 MSc programs, and PhDs in 20 disciplines. The number of campus students is above 3000.

Faculty members have been pivotal in expanding programs to meet industry and societal needs. Undergraduate students have more elective options, with NEP 2023 curriculum allowing department electives from the 2nd semester. The introduction of Professional-and Societal-connect courses under NEP fosters a learner-centric approach and entrepreneurship. The Institute is planning to engage with industry professionals for practical insights and opening key BTech courses to them. Innovative learning methods, such as project-centric learning and Maker Space courses, have enhanced student participation and consequently their learning experience. The Institute also supports Govt. Engineering Colleges of Madhya Pradesh by hosting their meritorious students.

The Life Skill Development workshop '*Genesis*' for new B.Tech students has been extended to six days, including a practical training session at MCTE Mhow.

Research is a cornerstone of IIT Indore since its inception, with a focus on societal contributions, particularly for marginalized communities. In the past year, the Institute added around 1000 international publications, totaling around 7500. IIT Indore has undertaken 617 R&D projects worth ₹450 crores, with 75 projects worth ₹25 crores in the last year. Additionally, there have been 423 consulting projects worth ₹24 crores, including 117 projects worth ₹9.6 crores last year. A notable project is the ₹9 crore '*Narmada River Basin Management*' from the Ministry of Jal Shakti. IIT Indore has filed 155 patents, with 66 granted, including 32 last year. The Institute promotes research through various schemes, including the Centre for Translation Research (CTR), which has licensed three technologies and incubated eight. IIT Indore released a '*Handbook of Ideas, Innovations, and Technologies*' and offers ₹5 lakhs under the Translational Research Up Scaling Scheme (TRUSS). Six '*Dream Lab*' projects and five '*PRIUS*' projects have been funded.

A dedicated Centre for three Laboratories including Maker's Space, Laser Technology and Astronomy has been opened in the Government Engineering College, Ujjain as an initial step to open a Deep Tech Research Centre at Ujjain in collaboration with the Government of Madhya Pradesh. The upcoming '*Deep-Tech Research and Development Centre*' (DRDC) in Ujjain will further scale up research and innovation. Selected by the Department of Telecommunication for 5G use case labs, IIT Indore also hosted the CSR & CIC Meet 2024 and inaugurated the Charak Center for Digital Healthcare.

To facilitate entrepreneurial activities at IIT Indore, a Section 8 Company, '*ACE Foundation*' has been established. It provides incubation and funding opportunities to the budding entrepreneurs. We also have established the '*Centre for*

Entrepreneurship Education and Development' (CEED). It offers entrepreneurship courses for all the students of the Institute. Out of 87 incubated start-ups, 29 have graduated, thus creating around 500 employments. From the 58 presently incubated start-ups, around 10 are in market validation stage. Till now, we have received more than ₹7 crore from various Govt. schemes which includes ₹5 crore through Startup India Seed Fund Scheme (SISFS). The Foundation has organized about 8 Boot-Camps for training on Entrepreneurial Skills so far which received huge response from students and teachers from all over the state of Madhya Pradesh.

IIT Indore is dedicated to broadening its horizons through collaborations with academia, industry, institutions, and society. We have partnered with the Centre for Development of Telematics, French National Institute for Sustainable Development, National Council of Science Museums, Royal Academy of Engineering, ICAR-Indian Institute of Soybean Research, IEEE, Western Railway, Larsen & Toubro Ltd, Simple Energy Private Limited, and Sant Shiromani Ravidas Global Skill Park, among others.

We established the Rajratan Centre of Excellence (RCoE) for advanced research and analytical testing, our first CSR initiative with Rajratan Global Wire, the world's largest tire bead wire manufacturer. Additionally, we set up the CASE-Centre of Excellence in collaboration with CNH Internationals Ltd. Under the AICTE's Margdarshan scheme 2023, IIT Indore has been named a mentor Institute to guide local engineering colleges, including Sushila Devi Bansal College of Technology. As part of the PM School for Rising India (PM SHRI) scheme, we aim to enhance equity, access, and inclusion in school education. The State Bank of India supports our plantation drive under their CSR activities. To further strengthen our collaborations, we have signed 76 national (54 active) and 103 international (65 active) MoUs.

Sustainable Infrastructure

Institute is embarking on ambitious infrastructure development to elevate the institute's future. The Phase I and II constructions has been completed and dedicated to the nation by the Honorable Prime Minister and the foundation stone of the Phase 3 has been laid on 2nd of October 2023.

This Phase III includes a Heavy and Sophisticated Lab complex, Academic Pod, hostels, and housing for faculty and married students. Olympic-standard outdoor sports facilities, including a football ground, 400-meter synthetic athletic track, hockey ground, lawn tennis courts, volleyball courts, and seating galleries, are nearing completion. Ongoing projects include a Laboratory Complex, Transit Lab Complex, hostel under the PMAY scheme, Animal House, Multi-Purpose Hall, and Multilevel Car Parking. This infrastructure will offer world-class facilities for students and staff.

In line with sustainability goals, IIT Indore maintains 200 acres of forest on its 500-acre campus, rejuvenated six natural water bodies, and developed "Amrit Sarovar," a large water body. The Institute is also developing eight check-dams for soil and water conservation and plans to plant over 5000 trees, including Peepal and Neem etc. The ministry of Forest and Environment is developing an Eco-corridor inside the campus under the CAMPA scheme which will be first of its kind among all IITs.

The Institute is going to host the Inter IIT Aquatics meet in October, 2024 and co-host the Inter-IIT Sports meet in the month of December, 2024 which is a national event of its kind fostering the spirit of sportsmanship.

I'm pleased to report that IIT Indore enjoyed a successful placement season this year, with around 125 companies visiting our campus and making 311 offers, including 7 international ones.

Our Alumni and Corporate Relations (ACR) Office has been actively fostering long-term relationships with both alumni and industries since last year. We have successfully held alumni meets in Hyderabad and Bangalore and plan to host the third chapter in Delhi soon. Additionally, we are in the process of honoring a Distinguished Alumni every year. The Institute provides an email from the Institute side for lifelong engagement with its Alumnus.

I'm delighted to announce that among the 682 graduating students are recipients of various prestigious medals, including the President of India Gold Medal, Institute Silver Medals, Best B-Tech Project Award, and the Buti Foundation Gold Medal for the best woman student with the highest CPI among all master's graduates.

Professor Suhas S Joshi

Director IIT Indore

Board of Governors, IIT Indore



Chairperson

Dr. K. Sivan

Indian Institute of Technology Indore
(w.e.f August 22, 2023)



Professor Deepak B. Phatak

Indian Institute of Technology Indore
(from 18 Feb 2019 to 17 Aug 2023)

Members

Professor Suhas S. Joshi

Director,
Indian Institute of Technology Indore

Shri S.K. Barnwal

Additional Secretary (TE), Govt. of India,
Ministry of Education, New Delhi

Shri Manu Shrivastava

Principal Secretary
Department of Technical Education & Skill Development,
Govt. of Madhya Pradesh

Professor Yogesh M. Joshi

Department of Chemical Engineering, IIT Kanpur

Professor Dhananjay V. Bhatt

Professor (Retd.), Department of Mechanical Engineering
S. V. National Institute of Technology, Ichchhanath, Surat
(July 11, 2028 to November 22, 2023)

Shri Manoj Kohli

Executive Chairman, SB Energy (Soft Bank Group) New Delhi
(July 11, 2028 to November 22, 2023)

Prof. Preeti A. Bhoje (Senate Nominee)

Department of Physics
Indian Institute of Technology Indore

Prof. Prabhat Kumar Upadhyay (Senate Nominee)

Department of Electrical Engineering
Indian Institute of Technology Indore

Mr. S. P. Hota

Registrar and Secretary to BoG
Indian Institute of Technology Indore

Institute Functionaries



Director, IIT Indore
Prof. Suhas S. Joshi



Dean, Academic Affairs
Prof. Vipul Singh



Dean, Educational Outreach
Prof. Devendra L. Deshmukh



Dean, Administration
Prof. Sandeep Chaudhary



Dean, Student Affairs
Prof. Srivathsan Vasudevan



**Dean, Infrastructure
Development**
Prof. Manish Kumar Goyal



**Dean, Research &
Development**
Prof. I. A. Palani



Dean, International Relations
Prof. Avinash Sonawane



**Dean, Alumni and Corporate
Relations (ACR)**
Prof. Suman Mukhopadhyay



Dean, Faculty Affairs
Prof. Abhishek Srivastava



Registrar, IIT Indore
Mr. S. P. Hota

Associate Deans

Academics (UG/PG/Ph.D Programs)	: Prof. Ankhi Roy (w.e.f. July 20, 2023)
Academics (Infrastructure)	: Prof. Rajesh Kumar
Academics (PG & Ph.D Programs)	: Dr. Eswara Prasad Korimilli (up to September 30, 2023)
Faculty Affairs	: Prof. Amod C. Umarikar
Research and Development- I	: Prof. Trapti Jain
Research and Development- II	: Dr. Bodhisatwa Mazumdar
Administration (HR & Policy)	: Prof. Nirmala Menon
Administration (Finance & MMS)	: Dr. Santosh Hosmani
Infrastructure Development-I	: Dr. Guru Prakash (up to September 30, 2023)
Student Affairs	: Dr. Sanjeev Singh
International Relations-I	: Prof. Raghunath Sahoo (up to November 26, 2023)
International Relations-II	: Prof. Sanjay Kumar Singh (up to February 21, 2024)

Heads of Departments

Humanities and Social Sciences	: Prof. Ruchi Sharma
Computer Science & Engineering	: Dr. Ranveer Singh (w.e. f. October 7, 2023) Dr. Somnath Dey (up to October 6, 2023)
Electrical Engineering	: Prof. Vivek Kanhangad
Mechanical Engineering	: Prof. Shanmugam Dhinakaran
Chemistry	: Prof. Tushar Kanti Mukherjee
Mathematics	: Dr. Niraj Kumar Shukla
Physics	: Prof. Preeti A. Bhoje (w.e.f. November 23, 2023) Prof. Pankaj R Sagdeo (up to November 22, 2023)
Astronomy, Astrophysics and Space Engineering	: Prof. Abhirup Datta
Biosciences and Biomedical Engineering	: Prof. Amit Kumar
Metallurgical Engineering and Materials Science	: Dr. Ajay Kumar Kushwaha
Civil Engineering	: Dr. Abhishek Rajput

Professor In-charge of Centres

Center of Advanced Electronics	: Dr. Vivek Kanhangad
Computer and Information Technology Center	: Dr. Neminath Hubballi
Center of Futuristic Defense and Space Technology	: Dr. Indrasen Singh
Centre for Entrepreneurship Education and Development:	: Dr. Swaminathan R.
Center for Rural Development and Technology	: Dr. Debayan Sarkar
DST-FIST Center of Excellence in Gear Engineering	: Prof. Neelesh Kumar Jain
Sophisticated Instrument Center (SIC)	: Prof. Apurba K. Das
Center for Indian Scientific Knowledge Systems	: Prof. G. S. Murthy
Center for Electric Vehicle and Intelligent Transport Systems	: Prof. Amod C. Umarikar
Counseling Services	: Prof. Aruna Tiwari (up to March, 2024)
Training & Placement	: Dr. Pavan Kumar Kankar
Central Workshop	: Dr. Dan Sathiaraj

Members of Senate of IIT Indore

Chairman

Professor Suhas S. Joshi
Director, IIT Indore

External Experts

Professor Himanshu Rai
Shri Shankar V. Nakhe
Professor Abhiram G. Ranade

Director, IIM Indore
Director, RRCAT
Professor, IIT Bombay

Deans

Professor Vipul Singh
Professor Sandeep Chaudhary
Professor Avinash Sonawane
Professor Manish Kumar Goyal
Professor I.A. Palani
Professor Srivathsan Vasudevan
Professor Suman Mukhopadhyay
Professor Abhishek Srivastava
Professor Devendra L. Deshmukh

Dean, Academic Affairs
Dean, Administration
Dean, International Relations
Dean of Infrastructure Development
Dean, Research and Development
Dean, Student Affairs
Dean, Alumni and Corporate Relations
Dean, Faculty Affairs
Dean, Educational Outreach

Head of Departments

Dr. Abhishek Rajput
Dr. Ranveer Singh
Professor Vivek Kanhangad
Professor Shanmugam Dhinakaran
Dr. Ajay Kumar Kushwaha
Professor Amit Kumar
Professor Abhirup Datta
Professor Tushar Kanti Mukherjee
Professor Niraj Kumar Shukla
Professor Preeti A. Bhobe
Professor Ruchi Sharma

HOD, Civil Engineering
HOD, Computer Science and Engineering
HOD, Electrical Engineering
HOD, Mechanical Engineering
HOD, Metallurgical Engineering and Materials Science
HOD, Biosciences and Biomedical Engineering
HOD, Astronomy, Astrophysics and Space Engineering
HOD, Chemistry
HOD, Mathematics
HOD, Physics
HOD, Humanities and Social Sciences

Professors

Professor Narendra S. Choudhary	Computer Science and Engineering
Professor Neelesh Kumar Jain	Mechanical Engineering
Professor Anand Parey	Mechanical Engineering
Professor Ram Bilas Pachori	Electrical Engineering
Professor Abhinav Kranti	Electrical Engineering
Professor Vimal Bhatia	Electrical Engineering
Professor Rajneesh Misra	Chemistry
Professor Suman Mukhopadhyay	Chemistry
Professor Subhendu Rakshit	Physics
Professor Krushna R. Mavani	Physics
Professor Sarika Jalan	Physics
Professor Sandeep Chaudhary	Civil Engineering
Professor Avinash Sonawane	Biosciences and Biomedical Engineering
Professor G. S. Murthy	Biosciences and Biomedical Engineering
Professor Santosh Kumar Vishvakarma	Electrical Engineering
Professor Shaibal Mukherjee	Electrical Engineering
Professor Vipul Singh	Electrical Engineering
Professor Prabhat Kumar Upadhyay	Electrical Engineering
Professor Trapti Jain	Electrical Engineering
Professor Mukesh Kumar	Electrical Engineering
Professor Manish Kumar Goyal	Civil Engineering
Professor Neelima Devarakonda Satyam	Civil Engineering
Professor Palani Iyamperumal Anand	Mechanical Engineering
Professor Bhupesh Kumar Lad	Mechanical Engineering
Professor Santosh Kumar Sahu	Mechanical Engineering
Professor Ritunesh Kumar	Mechanical Engineering
Professor Dhinakaran Shanmugam	Mechanical Engineering
Professor Aruna Tiwari	Computer Science and Engineering
Professor Abhishek Srivastava	Computer Science and Engineering
Professor Kapil Ahuja	Computer Science and Engineering
Professor Abhirup Datta	Astronomy, Astrophysics and Space Engineering
Professor Amit Kumar	Biosciences and Biomedical Engineering
Professor Prashant Kodgire	Biosciences and Biomedical Engineering
Professor Sk. Safique Ahmad	Mathematics
Professor Apurba Kumar Das	Chemistry
Professor Sampak Samanta	Chemistry
Professor Sanjay Kumar Singh	Chemistry
Professor Biswarup Pathak	Chemistry
Professor Nirmala Menon	Humanities and Social Sciences
Professor Pritee Sharma	Humanities and Social Sciences
Professor Ruchi Sharma	Humanities and Social Sciences
Professor Preeti Anand Bhoje	Physics
Professor Rajesh Kumar	Physics
Professor Sudeshna Chattopadhyay	Physics
Professor Parasharam M. Shirage	Metallurgical Engineering and Materials Science
Professor Swadesh K. Sahoo	Mathematics
Professor Raghunath Sahoo	Physics
Professor Amod C. Umarikar	Electrical Engineering

Professor Vivek Kanhangad
 Professor Srivathsan Vasudevan
 Professor Devendra L. Deshmukh
 Professor Pankaj Ramesh Sagdeo
 Professor Ankhi Roy
 Professor Somaditya Sen
 Professor Mobin Shaikh
 Professor Tushar Kanti Mukherjee
 Professor Anjan Chakraborty
 Professor Satya Silendra Bulusu
 Professor Chelvam Venkatesh
 Professor Kiran Bala
 Professor Mirza Saqib Baig
 Professor Anirban Sengupta
 Professor Neminath Hubballi
 Professor Rupesh Shivaji Devan
 Professor Santosh Sattappa Hosmani
 Professor Antony Vijesh Villavarayan
 Professor Niraj Kumar Shukla
 Professor Satyajit Chatterjee
 Professor Kazi Sabiruddin
 Professor Pavan Kumar Kankar

Electrical Engineering
 Electrical Engineering
 Mechanical Engineering
 Physics
 Physics
 Physics
 Chemistry
 Chemistry
 Chemistry
 Chemistry
 Chemistry
 Biosciences and Biomedical Engineering
 Biosciences and Biomedical Engineering
 Computer Science and Engineering
 Computer Science and Engineering
 Metallurgical Engineering and Materials Science
 Metallurgical Engineering and Materials Science
 Mathematics
 Mathematics
 Mechanical Engineering
 Mechanical Engineering
 Mechanical Engineering

Other Authorities

Dr. Jayaprakash Murugesan
 Dr. Sharad Gupta
 Dr. Anand Petare

Chief Warden
 Convener, Health Center Advisor Committee
 Workshop Superintendent, Central Workshop

Student Representatives (for non-evaluation item only)

General Secretary, Student Gymkhana
 Academic Secretary, Student Gymkhana

Ex-officio
 Ex-officio

Secretary

Mr. S. P. Hota

Registrar, IIT Indore

Academic Affairs

The Academic Affairs office of the Institute is responsible for overseeing the strategic planning and execution of all academic activities for students enrolled in various academic programs of the Institute. This office operates in accordance with a planned Academic calendar, which is prepared every semester to ensure that the academic curriculum of each program adheres to the guidelines, rules, and policies established by the institute's senate.

Main highlight of activities of Academic Office for the year 2023-24.

- Successfully conducted the orientation and registration program for UG, PG, and PhD students for the academic year 2023-24. A total of 1,047 students enrolled in various programs.
- We successfully conducted the 11th convocation of the Institute in 2023 where 553 students were conferred the degree of U.G./P.G./Ph.D. programs and this 12th convocation, 673 students were conferred the degree of U.G./P.G./Ph.D. programs in 2024.
- Overhauling and restructuring of the academic programs in line with the mandate of the National Education Policy (NEP) 2020 has been implemented. The students in all UG programs will now have increased options of elective courses in the form of departmental/ institute electives. In the NEP curriculum that has been implemented with the 2023 UG batch students have the options of department electives right from the 2nd semester itself.
- IIT Indore believes in a diverse range of academic pathways and always prioritizes equipping students with the skills and knowledge to meet the industry's demand. To address the consistently evolving needs of various industries, IIT Indore has introduced 13 new courses, including 4 new B.Tech. programs, 6 master's programs, and 3 Ph.D. programs. The details of the programs are:
 - B.Tech. Programs:

i. Chemical Engineering	ii. Mathematical and Computing
iii. Engineering Physics	iv. Space Science and Engineering
 - M.Tech Programs:

i. Computer Science and Engineering	ii. Water, Climate and Sustainability.
iii. Biomedical Engineering	iv. Structural Engineering
v. Applied Optics and laser Technology	vi. Defense Technology
 - Ph.D. programs:
 - i. Centre for Rural Development and Technology (CRDT)
 - ii. Centre for Electric Vehicle and Intelligent Transport System (CEVITS)
 - iii. Centre for Futuristic Defense and Space Technology.
- IIT Indore developed an in-house New Academic Record On-line (AROL) portal for viewing of grades/notices/course registration and various other academic related activities. viz. CERP Notification, Grades submission, Feedback, Trimester system for executive program.
- For large size batches we have implemented attendance monitoring mechanism of the students by adopting technological interventions.
- IIT Indore introduced for the first time Spot round of admissions for the M. Tech program in the academic year 2023-2024. Thirty-two two students were admitted to fill the otherwise vacant seats remaining at the end of COAP rounds.
- The Ph.D. admission process has been revamped to uphold the quality and quantity of research work.
- Among 54, Two PMRF students graduated this year. In the year 2023, 14 students secured the PMRF scholarship.
- Eighty-two students of two batches have successfully completed their Master of Science in Data Science and Management program jointly offered by IIT Indore and IIM Indore.
- We have successfully revised and synchronized B.Tech. 2nd year course as per New Education Policy, 2020 for all branched except Chemical Engineering.
- Under MOU with MP Technical Education, a total of 23 students got the opportunity to complete their semester under the exchange program as part of their degree under the guidance of faculties of IIT Indore.
- A group of 10 executives from Volvo Eicher Commercial Vehicle Limited (VECV) have enrolled in the M. Tech program offered by the Centre for Electric Vehicle Intelligent Transport System (CEVITS) as a part of the MOU collaboration with VECV.
- Adoption of academic bank of credits as per the mandate of NEP-2020.

Medal Winners

Indian Institute of Technology Indore

12th Convocation 2024: Recipients of Medals and Awards

THE PRESIDENT OF INDIA GOLD MEDAL

For the best academic performance among all the UG graduating students



Mr. Mukul Jain

B.Tech. (CSE)
Roll No. 200001050

INSTITUTE SILVER MEDAL

For the best academic performance among all the graduating UG students of particular Department



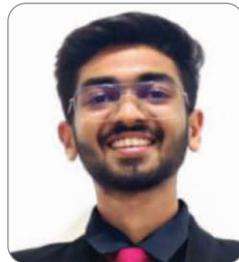
Ms. Nitya Chourasiya

B.Tech. (CE)
Roll No. 200004033



Mr. Vankayalapati Sai Venkata Satwik

B.Tech. (CSE)
Roll No. 200001077



Mr. Daftari Dev Shimulbhai

B.Tech. (EE)
Roll No. 200002025



Mr. Amit Vikrant Dhavale

B.Tech. (ME)
Roll No. 200003011



Mr. Jitin Sathish Kumar

B.Tech. (MEMS)
Roll No. 200005018

INSTITUTE SILVER MEDAL

For the best overall performance among all the graduating PG students (M.Tech. and M.Sc. Programs)



Mr. Rishav Sharma

M.Tech. (MEMS)
Roll No. 2202105001



Ms. Krishangi Kashyap

M.Sc. (DAASE)
Roll No. 2203121006

BUTI FOUNDATION GOLD MEDAL

For the best academic performance among
all the graduating female PG students



Ms. Krishangi Kashyap
M.Sc. (DAASE)
Roll No. 2203121006

VPP MENON GOLD MEDAL

For the best PhD Dissertation
work by a female student



Ms. Kanchan Samadhiya
PhD (Biosciences and Biomedical Engineering)
Roll No. 1701171015

Thesis Title: *"Indigenous Microbes for
Sustainable Biopolymer Synthesis:
A Comprehensive Optimization and Characterization Study"*

INSTITUTE GOLD MEDAL

For the best all round performance among
all the graduating students



Mr. Abhinav Yadav
B.Tech (EE)
Roll No. 200004001

BEST B.TECH. PROJECT (BTP) AWARD

Amongst all the graduating
UG students



Mr. Saurabh Kichouliya
BTech (EE)
Roll No. 200002069

Project Title:
"Conformal Microwave radome for shielding applications"

MSDSM SILVER MEDAL

For the best overall performance among all the graduating students (MSDSM Program)



Mr. Sebastian P S
MSDSM (2021 Batch)
Roll No. 2104107031



Mr. Divyansh Dubey
MSDSM (2022 Batch)
Roll No. 2204107020

Rankings

In yet another matter of great pride to Indore, IIT Indore has been ranked 454th in the QS World University Rankings 2024. It is 11th amongst the Indian Universities and is ranked the highest amongst the second generation IITs. The universities are judged across 08 key ranking indicators including academics, research, citations, international outlook, sustainability and employment outcomes to provide the most comprehensive and balanced comparisons available. This year's QS World University Rankings included almost 1,500 institutions from around the world including universities from diverse locations across Europe, Asia and North America.

In the recently released "India Rankings 2023 by NIRF, Ministry of Education", IIT Indore has attained a significant improvement in NIRF ranking across multiple categories. IIT Indore is positioned 14th among engineering institutions of the country. In this category, institutions are judged across 05 key ranking parameters that includes academics, research, graduation outcome, outreach & inclusivity, and perception. Also, IIT Indore is positioned at 28th in Overall and 21st in Research category respectively.



Category	Ranking	
	NIRF-2022	NIRF-2023
Engineering	16	14
Overall	31	28
Research	26	21

Prof. Suhas Joshi, Director, congratulated the IIT Indore community and urged them to pursue their research and academic activities with diligence, which essentially will contribute to the growth of the Institute and pave the way for more global recognitions in future.

Faculty Affairs

The Faculty Affairs Office deals with all administrative matters related to the faculty members. It maintains administrative records from recruitment to relieving of the faculty members. The Office is headed by Professor Abhishek Srivastava, Dean of Faculty Affairs, assisted by Prof. Amod C. Umarikar -Associate Dean, Mr Rajan Thomas -Assistant Registrar, Mr. Sunil Sawle – Section Officer , Mr Sunny Namdev -Senior Assistant , Ms Pinaz Daniel -Junior Assistant and Mr. Shishir Kumar -Junior Hindi Translator.

This office enables the following tasks:

- Conduct of recruitment drive and appointment of permanent/contractual/visiting/emeritus faculty members in various departments.
- Joining formalities of newly joined faculty members.
- Maintenance of Service Records and Personal Files of faculty members.
- Processing of all service matters, including pay, promotion, leave, LTC, dependent list, deputation, annual increment, extension of tenure for contractual appointments, confirmation, etc.
- Regular updation of service details.
- Providing responses to MHRD/RTI Queries and Lok Sabha/Rajya Sabha questionnaires.

Some of the major works undertaken during the year 2023-24 are as follows:

- Conduct of Special Recruitment Drive for Reserved category candidates.
- Development of a Faculty Application Portal for New Recruitment.
- Formulation of various policies for standardization of rules and procedures.
- Streamlining the joining formalities to ensure minimal movement and faster adaptation of the newly joined member to the new environment.
- Provision of a Welcome Kit to the newly joined faculty members.
- Reduced paperwork and approval through emails.
- Timely provision of LTC to faculty members.

Faculty positions filled as on March 31, 2024

Designation	Strength
Professor	70
Associate Professor	42
Assistant Professor Grade-I	74
Assistant Professor Grade-II	18
Total	204

The number of faculty members joined service at IIT Indore during the year 2023-24 is 62 and details are as follows:

Designation	Strength
Professor	19
Associate Professor	10
Assistant Professor Grade-I	18
Assistant Professor Grade-II	15
Total	62

- Dr. Saikat Sarkar, Assistant Professor Grade I, Department of Civil Engineering, relieved on May 11, 2023 (AN), to join as Assistant Professor Grade I at the Indian Institute of Technology Delhi
- Dr Neeraj Mishra, Associate Professor, Department of Humanities and Social Sciences relieved on July 15, 2023 (AN).
- Dr. Soumen Ghosh, Assistant Professor Grade I, Department of Chemistry, relieved on October 27, 2023 (AN).
- Dr. Subhransu Mandal, Assistant Professor Grade II, Department of Computer Science & Engineering, relieved on December 29, 2023 (AN).

Department & School Profiles

Department of Astronomy, Astrophysics and Space Engineering

About the Department:

The Department of Astronomy, Astrophysics, and Space Engineering (DAASE), established in 2015, is the first interdisciplinary department of its kind in the IIT system. It offers PhD, M.Sc. in Astronomy, M.Tech, MS (Research), and B.Tech in Space Engineering. The department has ten regular faculty members, one INAE Distinguished Professor, and two visiting professors engaged in advanced research projects such as the Square Kilometer Array and Aditya-L1, funded by DST, DRDO, ISRO, and other agencies. DAASE collaborates with global universities and industry, with most alumni pursuing research or careers in relevant sectors.

The department is also contributing to the Heritage and Innovation Centre in Astronomy and Space Engineering (HICASE) to advance research and innovation in Madhya Pradesh. Currently, DAASE has 37 PhD scholars, 45 PG students, and 20 UG students. Our students engage in cutting-edge research and tech development in areas like Radio and X-ray Observations of Clusters of Galaxies, Machine Learning and Big Data; Sustainability Research, Space Weather and Ionosphere: Using GNSS, NavIC and low-frequency radio astronomy, payloads, small satellites, detector design, data analytics, imaging, and high-end numerical simulations, targeting applications in climate change, sustainable development, agriculture, defense, communication, navigation, and astronomy.

Academic Programs:

The academic programs consist of the MSc (Astronomy), M.S (Research), MTech (Space Engineering) and the PhD. In the MSc (Astronomy) program, students are admitted through JAM. The department also offers a minor degree for BTech students in Space Engineering.

Our vibrant group of faculty members aspires to create an ambience for the smooth pursuit of scholarly activities in research and training in the study of astronomy, astrophysics, and space engineering. By fostering a collaborative and innovative environment, we aim to inspire and support our students and researchers in exploring the mysteries of the universe. Our faculty is dedicated to providing high-quality education and mentorship, facilitating access to state-of-the-art facilities, and engaging in pioneering research projects. This commitment ensures that our students are well-prepared for successful careers in academia, industry, and research institutions worldwide, contributing to significant advancements in space science and technology.

Number of Faculty Members	10
Professor	01
Associate Professor	05
Assistant Professor Grade -I	04
Assistant Professor Grade -II	Nil
Visiting Professor/Inae Fellow	3
No. of Post Doctoral Fellows	01

Programs	Student Intake	Degree Awarded
B.Tech	20	Nil
M.Sc.	26	10
M.Tech	13	4
MS (Research)	6	2
PhD	37	7

R&D Activities

DAASE faculty members work on several projects in the following areas:

- 1) **Heritage and Innovation Centre in Astronomy and Space Engineering (HICASE):** Contributing to the development of HICASE, aimed at advancing research and innovation in astronomy and space engineering.
- 2) **Research Collaboration:** Research collaboration meeting with RRCAT Indore.

- 3) **Astronomy and Astrophysics:** Connected to three Mega Science Projects of India – Square Kilometer Array (SKA), Thirty Meter Telescope (TMT) and LIGO India (Gravitational Wave Observatory) – Funding comes from DST, DAE, CSIR, MoE (Ministry of Education)
- 4) **Space Technology:** Connected to a few Mega Science projects and space missions with ISRO – funding comes from ISRO, MoE, DST
- 5) **Earth and Atmospheric Sciences:** Connected to remote sensing applications and climate/weather studies – funding comes from DST, ISRO, MoES, etc

Notable Activities in the Department

- 1) Our faculty members and students working on various activities:
 - i. Developed Space weather Adaptive Modeling framework (TRL 5) to complement in-situ measurements from Aditya L1, India's maiden mission to observe the Sun.
 - ii. The first article on the Search for Extra Terrestrial Intelligence (SETI) from DAASE was published in 2024 in the Monthly Notices of the Royal Astronomical Society, with significant contributions from DAASE members Priyatam Kumar (MSc Astronomy student) and Dr. Suman Majumdar (faculty).
 - iii. Radar data processing open source software, "PYIWR" has been developed.
 - iv. Investigated broadband variability and spectral emission from the neutron star X-ray binary Z-source using Indian mission AstroSat and NASA mission NICER putting constraints on the stellar properties and accretion fluctuations.
 - v. Digital backend development for IIT Indore interferometer.
 - vi. Urban tree mapping and biomass loss characterization for Indore.
- 2) Organized a SPARC sponsored in-person course on Numerical Radiative Transfer (15-24 January 2024) at IIT Indore. Instructor of the course was Prof. Ilian T. Iliev, University of Sussex, UK.
- 3) In our department two students were awarded the PMRF fellowship (Mr. Keshav Aggarwal and Mr. Sirsha Nandy).
- 4) International Linkages: 3 SPARC projects, 2 DST-SIRE projects, 1 Max Planck Partner Grant.
- 5) Several high-impact publications.
- 6) Organized international conferences: IRAD Conference January 2024.

Project

Project	Sponsored	Consultancy
New Projects	8	-
Ongoing Projects	16	-
Completed	9	1

Publications

Details	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	1	-	29	39

Department of Biosciences and Biomedical Engineering



About the Department

Department of Biosciences and Biomedical Engineering (BSBE) at the Indian Institute of Technology Indore was founded in July 2012 with a vision of establishing a Center of Excellence that will focus on human resource development and research in Biosciences, Bioengineering, and Biomedical Engineering. The Department of BSBE aims to be internationally recognized in Bio-related areas and produce the leaders of tomorrow in the field, with the integrated use of training and career development efforts to improve individual, group, and organizational effectiveness.

Academic Programs

The academic programs consist of the MSc (Biotechnology), M.Tech. (Biomedical Engineering) and PhD. In the MSc (Biotechnology) program, students are admitted through JAM & GAT-B.

M.Tech (2-Year), M.Tech. + Ph.D. Dual Degree in Biomedical Engineering started from AY 2023-2024. The department also offers a minor degree for BTech students in Biomedical Engineering. The department intends to start B.Tech Programme.

Our vibrant group of faculty members aspire to create an ambience for the smooth pursuit of scholarly activities in research as well as training on the study of life and living organisms, ranging from simple bacteriophage to complex multicellular organisms such as humans; with the focus being on structure, function, growth, origin, evolution, distribution, and taxonomy. In addition to basic biology research, the BSBE department seeks to contribute to applied research on practical problems in the country.

Number of Faculty Members	15
Professor	06
Associate Professor	04
Assistant Professor Grade-I	04
Assistant Professor Grade-II	01
No. of Post Doctoral Fellows	03

Programs	Student Intake	Degree Awarded
MSc	20	16
M. Tech	07	Nil
PhD	16	06

Notable R&D Activities

- Prof. Amit Kumar's research group has identified several potent drugs for which seven different patents are filed and also received the best research paper award 2023.
- Prof. Prashant Kodgire's group's recent study is the first report on the interaction of genome mutator enzyme AID with UBN1, nevertheless, the fate of interaction between UBN1 and AID is yet to be explored in the context of SHM or CSR.
- Dr. Parimal Kar's research group has identified novel inhibitors for neurodegenerative diseases targeting dual leucine zipper kinase through virtual screening and molecular dynamics simulations.
- Dr. Baig's research has introduced a novel mechanism in understanding the host's response to infections and has contributed to the search for innovative therapeutic targets in chronic inflammatory diseases and cancer. This research encompasses innovative small molecules, peptides, and combination therapies.
- Dr. Hem C. Jha has filed patents for screening of virus induced Neurological disorders, and their treatment.
- Dr. Kiran Bala's research group is exploring Novel peptides and bioactive compounds as DPP-IV inhibitors from magneto-primed soybean seeds and algae species for diabetes treatment and on Cost effective production and optimization of Gamma-Aminobutyric Acid (GABA) using agro-wastes

Projects:

Project	Sponsored	Consultancy
New Projects	14	NIL
Ongoing Projects	15	NIL
Completed	28	01

Publications:

Details	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	01	09	09	124

Department of Chemical Engineering



About the Department

Department of Chemical Engineering at the Indian Institute of Technology Indore is one of the youngest departments in the Institute set up in July 2023. The mission of the department is to train engineers and scientists who will work on cutting-edge problems in chemical engineering and provide solutions that benefit society and help in the progress and welfare of our country and the world.

Academic Programs

The academic programs consist of the B.Tech. and PhD in Chemical Engineering. In the B.Tech. program, students are admitted through JEE-Advanced, and the PhD students are admitted through GATE and rigorous selection process. In the coming years, the department intends to start M.Tech and minor B.Tech. programs in Chemical Engineering.

Our diverse group of faculty members work on problems spanning the breadth of the Chemical Engineering discipline: from traditional Chemical Engineering problems such as catalysis and polymers to working on newer Chemical Engineering problems such as AI in Chemical Engineering and biosystems engineering.

Details of Teaching and Non-teaching staff	
Professor	-
Associate Professor	-
Assistant Professor Grade -I	01
Assistant Professor Grade -II	02
Visiting Distinguished Professors	03
Academic Working Committee	18
Technical and office Staff	02

Programs	Student Intake	Degree Awarded
PhD	7 (2023-2024)	0
B. Tech.	40	0

Department of Civil Engineering



About the Department

The Department of Civil Engineering has been functioning since 2016 with a focus on basic and applied research to solve real world problems. The Department offers a four-year course leading to a bachelor's degree in civil engineering and PhD in civil engineering. The faculty of civil engineering and students are actively involved in sponsored research projects funded by various organizations of the Government of India as well as industries/consultancy projects throughout the country and abroad. The Department has an active and dynamic faculty member team with international exposure having expertise in diverse fields of civil engineering like Structural, Geotechnical, Transportation, Water resource and Environmental engineering. The CE faculty has been recognized on different platforms across the world as committee chairs/members, outstanding reviewers, and editorial board members. The Department of civil engineering looks forward to establishing itself, nationally and globally, as a premier academic Center with active industry interaction and national/international collaborations.

Academic Programs

The Department runs BTech, MTech and PhD Programs in Civil Engineering. The Department also hosts Postdoctoral Fellows in various specializations, sponsored by the Institute, sponsored research projects and other agencies.

Number of Faculty Members: (Assistant/Associate/Full Professors)	17
Professor	03
Associate Professor	02
Assistant Professor Grade-II	04
Assistant Professor Grade-I	08
No. of Post Doc Fellows	07

Programs	Student Intake	Degree Awarded
BTech	53	50
MTech	-	-
MSc	-	-
PhD	-	08

Notable Activities in the Department

The Department has been awarded several research and industrial consultancy projects (around 90 projects) and the value of Rs. 7.69 crores approx. Our dynamic faculty and students are recognized on various platforms; some of our key achievements are as following:

- Dr. Abhishek Rajput has received the Best Research Paper Award on the 15th Foundation Day held on 17th February 2024 at IIT Indore.

- Prof. Sandeep Chaudhary developed first-of-its-kind cow dung based foaming agent (GOBAiR), provisional patent has been filed for the same. Received best technology award for the same. Organizing a Research Capacity Building International Student Exchange program in the field of recycled aggregates jointly with UK, sponsored by SPARC and UKIERI. This is a first of its kind international student exchange program between 20 undergraduate and postgraduate students (10 from each university) involving one month stay in each country.
- Prof. Manish Kumar Goyal characterized the spatiotemporal distribution, detection, and prediction of atmospheric rivers (ARs) and aerosol atmospheric rivers (AARs) on a global scale and studied the impact of hydro-climatic extremes (floods, droughts, heatwaves) on KBAs and Smart Cities over India.
- Prof. Neelima Satyam was awarded the Best Woman Researcher in Geotechnical Engineering by the Indian Geotechnical Society (IGS) in 2023 and Recipient of the INSA Associate Fellowship in 2024, presented by the Indian National Science Academy (INSA).
- Dr. Kaustav Bakshi secured a sponsored project from M/s Mazagaon Dock Shipbuilders under CSR activities and Best paper of a session awarded by Advances in Structural Mechanics and Applications (ASMA 2021).
- Dr. Priyansh Singh served as liaison officer, India for Heritage Time Capsule (HTC) Project of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and offered an executive course on Low Volume Roads during conference of Transportation Research Group, India.
- Dr. Gourab Sil conducted One day workshop on Emerging Technologies for Transportation Safety on 23rd December 2023 Sponsored by SERB and received Mobility Grant 2023-24 by Indian Institute of Technology Indore.
- Dr. Priyank J Sharma coauthored an undergraduate textbook titled "Engineering Hydrology" (6th Edition), published by McGraw Hill Education (India) Private Limited and Contributed as 'Editor' of two book volumes on 'Climate Change Impact on Water Resources' and 'Hydrology and Hydrologic Modelling' as a part of Lecture Notes in Civil Engineering by Springer.
- Dr. Ramu Baadiga contested and won the 10th edition of Indian Young Geotechnical Engineers Conference for IIT Indore which will be held on 13 & 14th March 2025 and Advanced work on development of new multiaxial geogrids for Civil Engineering Applications have been carried out.
- Dr. Sridharan Balakrishnan Reviewer of the Hydro-2024 conference and PI of the one of the projects.

R&D Activities

The Department has expertise in various sub streams of civil engineering like Structural, Geotechnical, Transportation, Water resource and Environmental engineering.

Projects:

Project	Sponsored	Consultancy
New Projects	10	37
Ongoing Projects	14	20
Completed	03	36

Publications:

Details	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	06	22	34	59

Department of Computer Science and Engineering



About the Department

The Department of Computer Science and Engineering (CSE) was set up in July 2009. The department offers Bachelor of Technology (B. Tech.), Master of Science (M. S.) Research and Doctor of Philosophy (Ph.D.) programs. From 2023 onwards, the department offers a Master of Technology (M. Tech.) program. The department adopts a modern approach to teaching wherein students are rendered adequate academic freedom to innovate and learn in the process. The state-of-the-art facilities including the latest software and advanced hardware are available in various laboratories for use in both teaching and research. This facilitates adequate implementation of major B.Tech., MS (Research) and Ph.D. projects and for verification and validation of research results.

The department benefits from the location of the Institute. Indore is fast developing into a major IT hub in central India. Organizations like CSC and Impetus have a strong presence in the city and major players like TCS, Infosys, and other major IT organizations have set up their offices here. For the Department of CSE, this provides an excellent opportunity to foster industry-academia partnerships.

Academic Programs

The Department of CSE offers Bachelor of Technology (BTech), Master of Science by Research (MS by Research), and Doctor of Philosophy (PhD) programs. From 2023 onwards, the department offers a Master of Technology (M. Tech.) program. A total of 46 PhD, 26 MS by Research and 614 BTech students have graduated from the Department of CSE until July 2024. Currently, the department has 53 PhD, 24 MS by Research, 16 M.Tech. and 261 BTech students.

Number of Faculty Members:	20
Professor	06
Associate Professor	05
Assistant Professor Grade-I	07
Assistant Professor Grade-II	02
No. of Post-doctoral Fellows	Nil

Programs	Student Intake	Degree Awarded
B.Tech.	80	614
M.S. Research	12	26
M.Tech.	16	Nil
Ph.D.	NA	46

Notable R&D Activities

- Department of CSE organized SERB-Funded High-End Workshop on "Mathematical foundation of machine learning and its application to emerging areas of AI" May 27-June 1, 2024
- Organized SERB-Funded High-End Workshop on "Internet of Things in Edge Cloud Continuum: Theory and Applications
- Organised "Algorithmic Graph Theory" supported by National Board of Higher Mathematics, IIT Bombay and TIFR from June, 26 to Jul 14, 2023
- Department of CSE organized Open-house & Inhouse high-end research symposium. March 15-16, 2023

Projects

Project	Sponsored	Consultancy
New Projects	13	1
Ongoing Projects	26	1
Completed	17	

Publications

Details	Patent	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	6	3	13	34	52

Department of Electrical Engineering



About the Department

Department of Electrical Engineering at the Indian Institute of Technology Indore, established in 2009, envisions providing the guidance and conducive learning environment necessary to mold young minds to become technology experts, leaders, and high-quality professionals. The department endeavors to send forth talented individuals having the highest professional competence who can contribute to technological advancements. The department faculty members strive to create synergy between teaching and research activities and provide students with the most recent and relevant domain knowledge aided by high-quality research. The faculty members aim to stimulate students intellectually and create an atmosphere of inquiry and innovation. We endeavor to provide research programs in cutting-edge technologies and create skilled researchers who are passionate and equipped to work in a rapidly evolving technological landscape. At present the department faculty members and students are actively engaged in research in Communications, Signal Processing, Image Processing, VLSI, Nanoelectronics, Semiconductor Devices, RF and Microwave, Photonics, Power Engineering, and Biophotonics Instrumentation.

Academic Programs

The department's vision is to impart quality education and promote interdisciplinary, industry-oriented advanced scientific research to address the challenges and develop future technologies relevant to industrial and societal requirements. The department offers undergraduate (B.Tech.), postgraduate (M.Tech. in Communication and Signal Processing, M.Tech. in VLSI Design and Nanoelectronics, and M.S. by Research), and doctoral (Ph.D.) programs.

Total Number of Faculty Members	23
Professor	12
Associate Professor	1
Assistant Professor Grade-II	5
Assistant Professor Grade-I	5

Programs	Student Intake	Degree Awarded
B.Tech.	84	75
M.Tech. (CSP)	13	5
M.Tech. (VDN)	14	7
M.S. (Research)	7	6
Ph.D.	18	9

Notable R&D Activities

- The Optoelectronic Nanodevice Research Laboratory led by Prof. Mukesh Kumar has developed a technology on semiconductor heterojunctions for chip-scale photonic devices for optical communication, data centers, and health care applications.
- Optoelectronic Nanodevice Research Laboratory has demonstrated a nanophotonic resistive switch for optically readable resistive RAM (ACSPhotonics, DOI: 10.1021/acsphotonics.3c01289).

Projects

Project	Sponsored	Consultancy
New Projects	8	1
Ongoing Projects	13	1
Completed	10	1

Publications

Details	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	2	13	40	115

Department of Mechanical Engineering

About the Department

The Department of Mechanical Engineering, one of the oldest and largest at our Institute, features 28 full-time faculty and over 10 administrative and technical staff. Our curriculum emphasizes Science, Engineering, and Technology, focusing on technical skills, problem-solving, and fostering innovation. We offer state-of-the-art research facilities to support academic and research programs. Our primary goal is to provide high-quality education, equipping students with a strong foundation and specialized training to meet current and future demands. We are committed to shaping capable engineers who will advance the field of mechanical engineering.

Academic Programs

The Department of Mechanical Engineering offers BTech, MTech, MS (Research), and PhD programs, including dual degrees. With over 244 UG, 32 PG, and 56 PhD students, it provides a dynamic academic environment. It also hosts postdoctoral fellows and personnel from DRDO, armed forces, and various sectors. The MTech programs cover Advanced Manufacturing, Mechanical System Design, and Thermal and Energy Systems. International students from countries like Nepal and Nigeria contribute to a global learning atmosphere. The department is dedicated to academic excellence, research innovation, and developing engineers who will significantly impact the field.

Number of Faculty Members:	26
Professor	9
Associate Professor	5
Assistant Professor Grade-II	2
Assistant Professor Grade-I	10
No. of Post Doc Fellows	06

Programs	Student Intake	Degree Awarded
BTech	81	81
MTech	40	30
MS Research	4	6
PhD	12	8

Notable R&D Activities

The Department of Mechanical Engineering has undertaken numerous research projects for organizations such as DRDO, ISRO, John Deere (India), and Simple Energy Private Limited. Equipped with state-of-the-art research facilities, the department has hosted Short-Term Programs (STPs) and Faculty Development Programs (FDPs) for professionals and academics. Key research includes developing micro-plasma transferred arc (μ -PTA) processes for additive manufacturing, biocompatible knee implants, fault detection algorithms for wind turbine gearboxes, and lead-free triboelectric nanogenerators for energy harvesting. Other contributions include soft robotics, thermal management using phase change materials, ceramic coatings, reliability testing of shape memory alloy springs, nanoglass research, and biomechanical analysis of root canal preparation.

Projects

Project	Sponsored	Consultancy
New Projects	10	2
Ongoing Projects	25	4
Completed	16	16

Publications

Details	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	0	41	43	90

Department of Metallurgical Engineering and Materials Science



About the Department

The department was started as the Center of Materials Science and Engineering in 2013 and then established as the Department of Metallurgical Engineering and Materials Science (MEMS) in 2016. The department focuses on carrying out interdisciplinary research in Material Science and Metallurgy to find solutions for intricate real-world problems that benefit society. Presently, the department has 18 core faculty members along with 6 supporting staff. Our collective goal is to understand the synthesis, processing, and characterization of several classes of materials and then correlate the properties towards enhancing their performance. MEMS faculty members are working in research areas ranging from conventional metallurgy to modern materials science.

Academic Programs

The department offers various programs at UG and PG levels. It offers B. Tech in Metallurgical Engineering and Materials Science, M. Tech in both (i) Materials Science and Engineering, (ii) Metallurgical Engineering and PhD Program. The department covers a variety of courses, including basic science and engineering along with advanced level elective courses.

Our vibrant group of faculty members aspire to create an environment conducive to the smooth pursuit of scholarly activities in research and training within the field of Metallurgy and Materials Science. Our focus spans the study of materials ranging from simple alloys to complex composite materials, with an emphasis on their structure, properties, processing, and performance. We aim to understand the fundamental principles governing the behavior of materials and apply this knowledge to develop innovative solutions for practical problems. In addition to fundamental research, the Metallurgy and Materials Science department is dedicated to contributing to applied research that addresses the practical challenges faced by various industries.

Number of Faculty Members:	21
Professor	03
Associate Professor	08
Assistant Professor Grade-I	06
Assistant Professor Grade-II	04
No. of Post Doctoral Fellows	Nil

Programs	Student Intake	Degree Awarded
B. Tech	48	36
M.Tech	12	14
Ph.D.	13	07

R&D and other activities

1. Two In-house Symposium on Progress in Metallurgy and Materials (ISPMM) 15 September 2023 & 28 February 2024
2. International Workshop “Energy Conversion and Sustainable Future” on January 23-24 2024
3. 1-Week active learning and Hands-on workshop on ‘Energy Materials Synthesis, Characterization, and Device Fabrication’ on 3rd-8th July 2023.
4. 1-Days short-term course on ‘Workshop on Electrochemistry’ on 11th January 2024.

Projects

Project	Sponsored	Consultancy
New Projects	15	05
Ongoing Projects	24	05
Completed	Nil	Nil

Publications

Details	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	Nil	04	Nil	112

Department of Physics



About the Department

The Department of Physics has been a vibrant and flourishing department since the inception of the Institute in 2009. Presently the department consists of 21 faculty members with expertise in diverse fields such as condensed matter physics, high energy physics, black-hole physics, gauge/gravity duality and complex networks. Our research labs have state-of-the-art facilities, that have grown and evolved over the years to facilitate cutting-edge research and foster innovation and technology development amongst the young research students.

Academic Programs

The department offering academic programs such as M.Sc. and Ph.D., and have proudly graduated over 150, and 60 students, respectively. Our PhD students have been placed at prestigious institutes worldwide and are actively pursuing research.

Since 2023, the Physics department has started an undergraduate programme, B.Tech (Engineering Physics), with an initial strength of 20 students. The department also partners with the Mechanical Engineering department in running the M.Tech programme in Mechanical Engineering with specialization in Applied Optics and laser Technology. Our commitment to providing students with practical research experience extends across all levels of education, from undergraduate to postgraduate programs. To this end, the department has established more than 15 advanced research laboratories, each focusing on different branches of physics, to provide our students with unique research opportunities and an exceptional learning experience.

Number of Faculty Members:	21
Professor	10
Associate Professor	02
Assistant Professor Grade-I	09
Assistant Professor Grade-II	00
No. of Post Doctoral Fellows	04

Programs	Student Intake	Degree Awarded
B.Tech (Engineering Physics)	20	-
MSc	26	25
PhD	12	05

Notable Physics Departments Activities

The department prides itself on fostering a highly collaborative research environment, that facilitates close interaction across various departments in IIT Indore, and renowned national and international institutions. Presently we have active collaboration with IISc Bangalore, IITs (Bombay, Delhi, Madras, Kanpur, Ropar, Hyderabad), RRCAT, Indore, BARC, Mumbai, IISERs (Kolkata, Pune, Behrampur), HRI Allahabad, Central Universities (Pune, Mumbai, Allahabad, Calcutta), SNB-NCBS, Kolkata, and SNIP - Kolkata.

Our international collaborations include the University of Cambridge, University of Oxford, Stanford University, Michigan State University-USA, Penn State University-USA, CUNY-USA, LUH Hannover-Germany, Rutherford Appleton Laboratory and ISIS Facilities - UK, TU Berlin - Germany, TU Dortmund - Germany, Queens Marry University London-UK, LMU-Munich, Germany, Bern University-Switzerland, Osaka University- Japan, NTU - Singapore, Complexity Science Institute - CNRS Italy, Instituto Superior Tecnico, Lisbon, Portugal.

The department was instrumental in submitting a multi-institutional research proposal to the recently announced Nation Quantum Mission, by DST India. Further, department has taken initiative to explore collaboration for academic and research activities in the Asian subcontinent by reaching out to several universities in Thailand and Vietnam.

Projects

Project	Sponsored	Consultancy
New Projects	09	Nil
Ongoing Projects	23	Nil
Completed	33	Nil

Publications

Details	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	01	01	13	63

Department of Chemistry



About the Department

The Department of Chemistry at IIT Indore, established in August 2009, is rapidly growing, with research diversity, external funding, and several publications. We have 20 faculty members with research interests ranging from traditional areas (organic, inorganic, physical, and theoretical/computational) to highly interdisciplinary research areas such as nanotechnology, catalysis, energy, machine learning, biochemical, analytical, and materials. The department's faculty is exceptionally well qualified and motivated, with a solid commitment to teaching and research. Our department has state-of-the-art sophisticated instrumentation facilities to facilitate research in several chemistry and interdisciplinary research areas.

Academic Programs

The academic programs at the Department of Chemistry consist of courses for Ph.D., M.Sc., and B.Tech. undergraduate students. Research work in a plethora of fields ranging from coordination chemistry, theoretical chemistry, synthetic organic chemistry, supramolecular chemistry, solid-state chemistry, and other Interdisciplinary fields make this department a significant center for cutting-edge research. The Department of Chemistry at IIT Indore is the only 2nd generation IIT built in India to introduce a two-year master's program in Chemistry (MSc Chemistry) wherein an entire year, especially the 2nd year of the program, is dedicated to laboratory research in the field of the student's choice. Since 2013, this unique program has devoted a whole year to solving fundamental research problems in the laboratory and giving exposure to students to decide if they would like to proceed with a doctoral program in their higher studies. This ensures that only qualified and motivated students pursue the doctoral program and contribute to the welfare of society. Additionally, students decide on their journey to a doctoral program or look for a lucrative job after completing a master's program at IIT Indore.

Number of Faculty Members:	19
Professor	11
Associate Professor	04
Assistant Professor Grade-I	04
No. of Post-doctoral Fellows	05

Programs	Student Intake	Degree Awarded
MSc	26	25
PhD	22	12

Notable R&D Activities

- Sustainable Chemistry – 2024 Under INDO-GERMAN Higher Education Partnerships 20 -22February 2024 Funded by UGC and DAAD
- The Chemistry Day & In-House Chemistry Symposium (CHEM 2024), March 21, 2024.
- Prof. Sanjay K Singh developed new materials for efficient CO₂ capture from air for CCUS.
- Prof. Sanjay K Singh Developed an efficient catalytic process for complete conversion of alcohol for the production of purified hydrogen gas.
- Prof. Suman Mukhopadhyay Secured one SERB CRG Project.
- Prof. Suman Mukhopadhyay delivered one invited lecture in Amsterdam in an International Conference.
- Dr. Debayan Sarkar Received MOE-Stars Project&One Patent Filed.
- Dr. Debayan Sarkar at University of Regensburg for 3 months Under IGP Mobility.
- Prof. Tushar K Mukherjee Secured one SERB CRG Project.
- Prof. Apurba K Das Secured one CSIR Project&one Industry-sponsored project.
- Prof. Apurba K Das granted three Indian patents.
- Prof. Apurba K Das filed one Indian patents.
- Prof. Chelvam Venkatesh delivered invited lectures at Institut für Organische Chemie, Universität Regensburg, Germany and Research Presentation at University of Hannover, Germany in 2023.
- Delivered talk in the International Research Training Groups (IRTG) – Deutsche Forschungsgemeinschaft (DFG) Workshop on Deciphering Respiratory Bacterial Niches and Molecular Mechanisms: Unraveling Organelle Dynamics During Infection.
- Received Fulbright Scholarship Award, 2023-2024, Prof. Ram Mohan, Illinois Wesleyan University, Bloomington, USA, Visited Dept. of Chemistry, IIT Indore, Delivered Lectures and Research Collaboration with the research group of Prof. Chelvam Venkatesh.

Projects

Project	Sponsored	Consultancy
New Projects	13	Nil
Ongoing Projects	23	Nil
Completed	06	Nil

Publications

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	Nil	02	Nil	93

Department of Mathematics



About the Department

The Department of Mathematics at IIT Indore has been a major center for academic and research programs in various branches of Mathematics. The Department has constantly been engaging in frontier research areas and been encouraging collaborative research with the other Science and Engineering Departments.

Academic Programs

The Department currently offers PhD, MSc programs in Mathematics and B.Tech programme in Mathematics and Computing. The department envisages other master programs in allied fields, such as statistics and applied computing.

Number of Faculty	18
Professor	04
Associate Professor	02
Assistant Professor Grade-I	12
Assistant Professor Grade-II	02
No. of Post Doctoral Fellows	05

Programs	Student Intake	Degree Awarded
MSc (Mathematics)	20	19
PhD	6	4
B.Tech	39	NA

Notable R&D Activities

- INSA Distinguished Lecture Fellow 2024 (the only recipient in Engineering & Technology Sectional Committee (M. Tanveer)
- Conducted a High-End workshop on “Statistical Modelling in Ranking and Selection”, funded by the SERB under the Karyashala scheme from January 18-24, 2024 (Dr. Mohd Arshad)
- Organized an International Conference on Applied Mathematics and Mechanics (ICAMM 2023) October 18-20, 2023 at IIT Indore (Dr. Santanu Manna)

Projects

Project	Sponsored	Consultancy
New Projects	01	Nil
Ongoing Projects	20	Nil
Completed	22	Nil

Publications

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	08	09	25	42

DST-FIST support

Bhaskaracharya Mathematics Laboratory

Brahmagupta Mathematics Library



Further, the department is also engaged in promoting Mathematics among college teachers, postgraduate & undergraduate students in India through various outreach activities, like short-term courses, Webinars, Student seminar Series, etc. The department regularly organizes lectures by eminent mathematicians from reputed institutes around the world.

For more details, please visit <http://math.iiti.ac.in>.

School of Humanities and Social Sciences



About the School

The School of Humanities and Social Sciences at IIT Indore is an exciting and vibrant place for research and pedagogy. The faculty members of the school are an eclectic mix of researchers from the varied disciplines of Economics, English, History, Philosophy, Psychology and Sociology. We have 16 faculty with three members as Honorary Professor, Distinguished Visiting Professor and Visiting Professor. A total of 65 PhD students are currently working on exciting projects and research problems, and 3 students have already been recommended for admission in the year 2024. The research collaborations of the faculty members, whether within the school, or across the Sciences and Engineering disciplines at the Institute, or those with colleagues both nationally and internationally, demonstrate the truly interdisciplinary nature of the research conducted at the school.

Academic Programs

The School of Humanities and Social Sciences has two main academic programs namely PhD and MS (Research). PhD program comprises of course work and rigorous dissertation work. Our students have won prestigious national and international scholarships, fellowships, and awards. The graduated students have gone on to excel in their chosen careers.

Number of Faculty Members	
Professor	3
Associate Professor	4
Assistant Professor Grade-I	8
Assistant Professor Grade-II	1

Notable R&D Activities

1. Prof. Nirmala Menon has been selected as an Affiliate Research Professor with the University of Oxford for a period of two years.
2. Dr. Ashok Kumar Mocherla held a Visiting Fellow Position at the Coventry University, U.K., March 2024.
3. Prof. Ruchi Sharma has been selected as IPR Chair Professor under the scheme for Pedagogy and Research in IPRs for Holistic Education and Academia (SPRIHA), formulated by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India.
4. Dr. Ashok Kumar Mocherla published "Democratization of Indian Christianity Hegemony, Accessibility, and Resistance." 2024. London: Routledge. (Edited Volume).
5. Dr Ananya Ghoshal was nominated by the US Embassy and received funding from the US Dept. of State to participate in an OPEN course on teaching climate change.
6. Prof. Pritee Sharma organized the first of its kind, National Level Workshop on "environmental Humanities for Sustainability: Interdisciplinary Dimensions", during February 14-16, 2024.

7. Dr Thapasya and Dr Sansuma organized a workshop on “Documentation of Language: Techniques and Technologies”, February 19-21, 2024.
8. Prof. Ruchi Sharma organized two GIAN courses, on, The Strategic Use of Intellectual Property Rights (IPR) by Firms from 4-8 December 2018, with Prof. Christian Helmers; another on Intellectual Property Rights (IPR), Innovation and Economic Development from 6-10 November 2023 with Prof. Walter G. Park, American University, Washington DC.
9. The SPARC Committee has given approval to fund two research projects: Prof. Nirmala Menon’s Multilingual Literature Research (MLR) Database Development, with International Co-PI: Prof Pieter Francois, Oxford University and Alan Turing Institute, UK, National Co-PI: Prof. Abhishek Srivastava, Dept of CSE, IIT Indore; and Prof. Ruchi Sharma’s Patent policy and innovation: A case of the Indian pharmaceutical industry, International Co-PI: Prof. Walter G Park, American University, Washington DC, National Co-PI: Prof. Madan Dhanora.
10. Among our PhD students, Jitamitra Behera has been awarded the Bi-nationally supervised Doctoral Degree/Cotutelle 2024-25 research grant by the DAAD German Academic Exchange Service; Mr. Manivendra Kumar has been awarded the Charles Wallace India Trust Scholarship of the British Council, UK; Ms. Monika received the "Supervisor Service Fellowship" and was appointed as a Visiting PhD Student at the Dept. of Sociology, Boston University, USA for 1 year from 1 Oct 2023-30 Sept 2024; Ms Monika was also selected for a project for Asian and International Relations by Harvard University from 9-11 February 2024 with a partially funded scholarship; Ms. Jyothi Justin received Computational Literary Studies (CLS) INFRA Transnational Access Fellowship (TNA) funded by the EU at UNED, Madrid, Spain for 9 weeks; Ms. Sadaf Khan received the Best Paper Presentation Award in the Research Scholars Category for presenting a paper on the Impact of Medium of Instruction on Professional Trajectories.
11. Dr Kalandi Charan Pradhan and Dr Mohanasundari Thangavel were awardees of the Young Faculty Research Catalysing Grant Scheme (YFRCG) 2023-24, IIT Indore. They will conduct a project entitled, Assessing the socioeconomic, cultural, institutional, and climatic variability impact on livelihood of tribal people: A study of selected districts and households of Madhya Pradesh, India.
12. Dr Sansuma Brahma received financial assistance under the Young Faculty Research Seed Grant Scheme, 2023-24 to work on project titled The Bodo Language of BTR, Assam: Linguistic Variation.
13. Dr Dishari Chattaraj received financial assistance under the Young Faculty Research Seed Grant Scheme (YFRSG) 2023-24, IIT Indore to conduct a project titled Food Literacy in Indian School Curricula: A Case of CBSE Schools.

Projects

Project	Sponsored
New Projects	11
Ongoing Projects	17
Completed	14

Publications

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	1	24	33	61

Center Profiles

Centre for Entrepreneurship Education and Development (CEED)

About the Centre

Centre for Entrepreneurship Education and Development (CEED) is one of the recently established centers of IIT Indore for teaching courses related to innovation and entrepreneurship to students of IIT Indore as well as offering short-term courses and faculty development programs for outside community members.

Academic Programs

CEED offers an open elective course on Foundation for Entrepreneurship for all bachelors/masters/PhD students from Autumn 2022. The main scope of this course is to develop innovation and entrepreneurship skills among the students through experiential learning. Apart from regular class room lectures, invited lectures on different topics will be given by domain experts, startup founders, professors from IIT/IIM, angel investors, etc. Students will also be asked to prepare a business plan towards their startup idea as a team by providing seed funds, which will be further evaluated by an expert committee.

People:

- Dr. Swaminathan R (Professor In-charge)
- Dr. Shomik Dasgupta
- Dr. Mohanasundari Thangavel
- Ms. Sonal Rai (Junior Assistant)
- Dr. Ananya Ghoshal
- Dr. Ashootosh Mandpe
- Prof. Ruchi Sharma

Major Achievements:

- CEED, IIT Indore in association with IITI ACE Foundation and MSME DFO Indore organized two Awareness programmes on Design scheme of Ministry of MSME for which IIT Indore is serving as an implementing agency. It was attended by 75 MSMEs of MP. The objective of the design scheme is to provide expert advice and cost-effective solutions on real time design problems for new product development.
- CEED, IIT Indore in association with IITI Advanced Centre for Entrepreneurship (ACE) Foundation organized 2 Startup Bootcamps, where our experts engaged in delivering 6 technical sessions for 2 days (around 6 hours per day) related to various aspects of Startup and Entrepreneurship such as choosing a startup idea, developing the idea into an MVP, creating a successful startup, key terms and jargons in startup, valuation basics, funding avenues, basics of IP for entrepreneurs, etc. The bootcamps were conducted for SICA College (57 student) students and Ujjain Engineering College students(100 students).

Glimpses of Events



1st Awareness Programme on MSME Design Scheme



2nd Awareness Programme on MSME Design Scheme



Startup Bootcamp for Students of SICA College



Startup Bootcamp for Students of Ujjain Engineering College



Startup Bootcamp for Students of Ujjain Engineering College

Sophisticated Instrumentation Center (SIC)

About SIC:

The Sophisticated Instrumentation Centre (SIC) was established in September 2011 to accelerate the research program at IIT Indore. The mission of SIC is to support and foster the research initiatives at IIT Indore, by providing a state-of-the-art instrumentation facility and its application in cutting-edge research. The high-value instruments are accommodated under one roof to provide the highest quality of data analysis to its stakeholders. SIC provides analytical services to all departments within the Institute and to external academic and industry users. SIC is constantly striving to support and foster research in all branches of science and engineering at IIT Indore.

SIC is currently striving to become a self-sustained center by generating funds through services provided to external users. A significant advantage of the SIC facility is its easy accessibility to the students and faculty, with a favorable ratio of students to available instruments. The following departments within the Institute have been actively using the SIC's instruments to enhance their research and development activities: Bio-sciences and Biomedical Engineering, Chemistry, Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, Metallurgical Engineering and Materials Science, and Physics.

Vision, Mission and Objectives:

1. To provide high end instrumentation facility to professors, scientists, and students of IIT Indore as well as various academic institutes and industries to carry out sample analysis for research and development work.
2. To organize talks, seminars, and workshops on the usage and application of various SIC Instruments for researchers from universities, and industries.
3. To develop new analytical techniques/methods to fully utilize the instruments and provide them to explore new research horizons in various areas of science and technology.
4. To ensure easy data collection for advanced research.
5. To provide services to other educational institutes and industries with nominal charges.



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**Mr. Ghanashyam
Bhavsar**

Technical
Superintendent



**Mr. Kinny
Pandey**

Technical
Superintendent



Dr. Ravinder

Junior Technical
Superintendent



**Mr. Atul
Singh**

Junior Technical
Assistant



**Ms. Kajal
Chaudhari**

Junior Technical
Assistant



**Mr. Ranjeet
Raghuvanshi**

Administrative
Staff

Facilities available with SIC

SIC includes various instruments which can be categorized such as:

1. Spectroscopy
2. Chromatography
3. Microscopy & Imaging
4. Thermal Analysis
5. X-Ray Diffractometers
6. Other Instruments

Spectroscopy		
400 MHz NMR & 500 MHz NMR (DST-FIST-Chemistry)	UV-Visible Spectrometer	UV-VIS-NIR Spectrometer
Time-Correlated Single Photon Counting (TCSPC)	Circular Dichroism (CD)	Spectrofluorometer
Fourier Transform Infrared Spectrometer (FT-IR)	Photoluminescence (PL)	Polarimeter

Chromatography		
High Resolution - Mass Spectrometry (HR-MS)	Gas Chromatography - Mass Spectrometer (GC-MS)	Reverse Phase - High Performance Liquid Chromatography (RP-HPLC)
Preparative - High Performance Liquid Chromatography (Prep-HPLC)	Normal Phase - High Performance Liquid Chromatography	

Microscopy & Imaging		
Field-Emission Scanning Electron Microscopy (FE-SEM)	Atomic Force Microscopy (AFM)	Confocal Laser Scanning Microscopy (CLSM)
Total Internal Reflection Fluorescence Microscopy (TIRFM)		

Thermal Analysis	
Thermogravimetric Analyzer (TGA)	Differential Scanning Calorimetry (DSC)

X-Ray Diffractometers		
Single Crystal XRD (SCXRD)	Powder XRD (PXRD)	Energy Dispersive X-Ray Spectroscopy (EDS/EDX)
Wavelength Dispersive Spectroscopy (WDS/WDX)	X-ray Absorption Fine Structure (XAFS)	

Other Instruments		
Lyophilizer	Surface Area Analyzer (BET)	Rheometer
CHNSO Analyzer	Spectro Electro-Chemical Cell (SEC)	Dual Ion Beam Sputtering Deposition System (DIBSD)
Cyclic Voltammetry	Microwave Synthesizer	

Glimpses of Major Facilities in SIC



Notable delegates visit at SIC

1	Dr. K. Sivan	Chairman BOG IIT Indore and Former Chairman ISRO
2	Prof. Volker Epping	President of Leibniz University Hannover, Germany
3	Lt. Gen KH Gawas VSM	Commandant MCTE, Mhow
4	Dr. J. Kole	Senior Vice president R&D, JSW Cement Limited

Technological Talks Organized by SIC

1	Dr. A. D. Giddings (Devin)	Application Scientist for CAMECA Instruments, Germany
2	Mr. Prashant Chaudhari	Application Specialist Thermo Fischer
3	Anand Gunjotkar	Application Specialist JEOL
4	Dr. Atanu Shingaroy	Application Specialist Carl ZEISS

Selected external Users

Industries	Academics
1. Navin Fluorine, Dewas	1. Devi Ahilya Vishwavidyalaya, Indore
2. Sarna Chemical, Gujrat	2. VNIT Nagpur
3. Prism Johnson, Dewas	3. Vikram University, Ujjain
4. Hetero Drugs, Hyderabad	4. SGSITS, Indore
5. Medilux Laboratories, Pithampur	5. IIT Kanpur
6. Symbiotec Pharamlab, Indore	6. IIT Gandhinagar
7. Trio Tech Chemical, Indore	7. NIT Patna
8. Angeel Oak, Indore	8. Manipur University, Imphal
9. Shriniwas Pharmachem, Ujjain	9. IGNTU, Amarkantak
10. Macsen Drug, Udaipur	10. NIT Silchar
11. SSC Industries, Indore	11. Sage University, Indore
12. Kriti Nutrients, Indore	12. PMB Gujarati Science College, Indore
13. Knovea Pharmaceutical, Indore	13. Sardar Patel University, Gujrat

14. Rajratan Wires, Indore	14. Dr. Hari Singh Gour University, Sagar
15. Mahle Engine Components India Pvt.	15. Govt. P.G. College, Tikamgarh
16. Life First Farma Pvt. Ltd., Phithampur	16. Central Institute of Agri. Eng. Bhopal
17. Rajveer Chemical, Indore	17. Nirmala College Ujjain
18. Gufic Bioscience Ltd., Indore	18. K.N. Modi University, Newai, Rajasthan
19. SRF Packaging Films Business, Pithampur	19. Sri Aurobindo Institute of Medical Science, Indore
20. Dewas Hydroquip Pvt. Ltd., Dewas	20. SKUAST Kashmir
21. Omnibrx Biotechnologies, Ahmedabad	21. Institute of Chemical Technology, Mumbai
22. Libra Biotech, Pithampur	22. NISER, Bhubaneswar
23. Touch and Glow, Palghar	23. Cochin University of Science and Technology, Kochi-Kerala

Role of SIC in Institute Research Activity till inception

	Publications: With providing support to more than 5943 publications SIC has been catering the research needs of institutional faculties & research scholars.
	Patents: 66 Patents were granted and 165 patents were filed using SIC data.
	Technological Transfer: 3 Technologies were transferred to Industries, and 8 Technologies were incubated with help of SIC.
	SIC supported around 614 projects worth 450 Cr in value.

Highlights: Samples analyzed on key instruments in 2023-24

Instrument	No. of samples	Instrument	No. of samples
NMR (400 and 500 MHZ)	19530	HR-MS	8150
FE-SEM	2722	CLSM	3478
GC-MS	2669	BET	454
TGA	772	CD	882
AFM	404	UV-VIS	1313
UV-VIS-NIR	904	FLUORESCENCE	2093
LYOPHILIZER	352	PREP-HPLC	207
LN2	18844 Ltr	MILLIQWATER	817 Ltr

Revenue generated from External Academia, Industries and International users was INR 1.13 Cr since inception while for current FY 2023-24 it was 11.66 lakh.



Group Photograph

Center for Advanced Electronics (CAE)

About the Department

The Centre for Advanced Electronics (CAE) has been established in June 2020 at IIT Indore as an interdisciplinary research center that aims to develop materials, devices & technologies for multidisciplinary applications including computing, communication, medicine, and energy.

The CAE is honored to have on board some of the renowned academicians, working in electronics and its allied areas, under one technical roof to enable high-quality applied research for the benefit of mankind. We focus on building a platform for applied research, device development, and skill & manpower development in the nationally important area of electronics.

Academic Programs

The Centre for Advanced Electronics (CAE) has launched a Ph.D. program exclusively in Advanced Electronics, which comprises research areas such as Nanoelectronics / Microelectronics, Integrated Silicon Photonics / Optoelectronics, Advanced Materials and Devices, Advanced Memory Technology, Electronic Waste Utilization, Computational Electronics and Materials, and 2D Electronic Materials, Biochemical Sensors, Signal Processing, VLSI Circuit and System Design, Photovoltaics, Wireless & Optical Communication and AI and Machine Learning.

The Centre is also in process of proposing a PG program, MS Research in Advanced Electronics with a vision to cater to national semiconductor needs, specifically to generate manpower and to technically contribute towards India Semiconductor Mission.

Number of Faculty Members	12
Professor	09
Associate Professor	02
Ramanujan Fellow	01

Programs	Student Intake	Degree Awarded
PhD	01	-

Notable R&D Activities

- The Centre is focused on applied research in multidisciplinary fields. There are some state-of-the-art facilities for research and development in advanced semiconductor technology and material science.
- In CAE we have signed a non-disclosure agreement with Bharat Electronics Ltd. for joint research work in the area of Radar Technology and Photonics. We are pushing our outreach activities very strongly by conducting FDPs and other courses to benefit internal and external students and faculty members. The Hybrid Nanodevice Research Group (HNRG) led by Prof. Shaibal Mukherjee in Electrical Engineering at IIT Indore explores new physics of micro- and nano-structured materials, and to apply this knowledge in realizing advanced tools and devices for chemical, biological, optical, electronic and energy applications.
- Work on fabrication and characterization of Ge based THz emitters is started in collaboration with Prof. S. S. Prabhu, TIFR Mumbai. THz emitters on sputtered Ge are fabricated and tested. Currently we are analysing the data and optimising the device parameters.
- A collaboration with CeNSE, IISc Bangalore is established for the growth of Ge films using CVD.
- Transition Metal Dichalcogenides (TMDs), Novel Perovskite, Topological Insulators, Porous Materials for Hydrogen and Fuel Cell, Alkali-ion Battery and Energy Storage, Solar cell, Renewable Energy Technology, CO₂ and CO Capture and H₂ storage.
- Optoelectronic Nanodevice Research Laboratory led by Prof. Mukesh Kumar has developed a technology on semiconductor heterojunctions for chip-scale photonic devices for optical communication, data centres and health care applications.
- Optoelectronic Nanodevice Research Laboratory has demonstrated a nanophotonic resistive switch for optically readable resistive RAM (ACS Photonics, DOI: 10.1021/acsphotonics.3c01289).
- Transition Metal Dichalcogenides (TMDs), Novel Perovskite, Topological Insulators, Porous Materials for Hydrogen and Fuel Cell, Alkali-ion Battery and Energy Storage, Solar cell, Renewable Energy Technology, CO₂ and CO Capture and H₂ storage.

- Optoelectronic Nanodevice Research Laboratory led by Prof. Mukesh Kumar has developed a technology on semiconductor heterojunctions for chip-scale photonic devices for optical communication, data centres and health care applications.
- Optoelectronic Nanodevice Research Laboratory has demonstrated a nanophotonic resistive switch for optically readable resistive RAM (ACS Photonics, DOI: 10.1021/acsp Photonics.3c01289).

Projects

Project	Sponsored
New Projects	2
Ongoing Projects	6
Completed	-

Publications

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals	Patent
Total	-	-	3	16	3 (1 Field & 2 Published)

Outreach Activities

S. No	Date	Activities
1	May 16, 2024	Celebrated International Day of Light under the flagship of IEEE Photonics Society, OPTICA, and the Ministry of Electronics & IT.

Faculty Profile of CAE



Prof. Vivek Kanhangad
(Professor In-Charge, CAE)

Research Interests:

- Biometrics
- Digital Signal and Image Processing



Prof. Mukesh Kumar

Research Interests:

- Integrated Optoelectronics
- Silicon Photonics
- Nanoelectronics
- Integrated CMOS Photonics
- Device Fabrication & VLSI Technology
- Bio-chemical Sensors
- Nano-scale devices



Prof. Shaibal Mukherjee

Research Interests:

- Low-cost HEMTs/HFETs for DC-to-DC converters
- Heterogeneously integrated RRAMs for image processing and neuromorphic computation
- Next-generation ultrathin and low-cost photovoltaic
- Flexible and low-cost bio-chemical sensors for agriculture, water, and air
- High-performance UV detectors



Prof. Vimal Bhatia

Research Interests:

- AI/ML for Communications and Optics
- 6G and 7G communication Systems
- Performance Analysis and Optimization
- Signal and Image Processing Algorithm
- Mathematical Analysis and Computing
- Software Implementations



Prof. Santosh Kumar Vishvakarma

Research Interests:

- SRAM Design and Architecture
- Reliable, Secure and Energy-Efficient Circuit Design
- Digital ASIC/SoC Design
- In-Memory Computing
- SoC/FPGA based CNN Hardware Accelerators
- NAND Flash Memory Device
- Advanced MOS Devices
- Device Circuit Co-Design



Dr. Ajay Kumar Kushwaha

Research Interests:

- Anti-Corrosion Coatings
- Nanomaterials
- Energy Harvesting and Storage



Prof. Rajesh Kumar

Research Interests:

- Nanomaterials & nanodevices
- Electronic and electrochromic devices
- Device physics, Raman Spectroscopy & Microscopy
- Natural Biomaterials



Prof. Vinod Kumar

Research Interests:

- Nanomaterial
- High Entropy Alloys
- Magnetic Materials
- Corrosion and coating
- Structure-Property Correlations,
- Microstructural Characterization,
- Thermo-mechanical Processing of Light metal alloys and Steels
- Failure Analysis
- Building Materials
- Energy Materials



Prof. Apurba K. Das

Research Interests:

- Biomaterials
- Peptide and nucleobase-based nanostructured materials
- Systems chemistry
- Supramolecular electronics
- Organic-inorganic hybrid materials



Dr. Srimanta Pakhira

Research Interests:

- Theoretical Condensed Matter Physics
- Computational Material Science
- Quantum materials
- Renewable Energy Technology
- Surfaces, and Interfaces in Compound Semiconductors and their Impact on the Electrical and Magnetic Properties using First-Principles Calculations



Prof. Ram Bilas Pachori

Research Interests:

- Signal and Image Processing
- Biomedical Signal Processing
- Non-stationary Signal Processing
- Speech Signal Processing
- Brain-Computer Interfacing
- Machine Learning
- AI in Healthcare
- Signal Processing for Vedas



Dr. Abhishek Singh (Ramanujan Fellow)

Research Interests:

- Photonic terahertz technology: THz generation, detection and application
- Optoelectronics
- GaAs, Ge, and Ge/Si based semiconductor devices for ultrabroadband THz technology
- Terahertz spectroscopy
- Ultrafast optics
- Ge based high-speed photodetectors
- Nano-scale and micro-scale device fabrication using lithography

Computer and Information Technology Center (CITC)

CITC Building



Data Center



This center provides various services to the members of the IITI community. The services include:

Network Connectivity: CITC provides 10 Gbps network connectivity to the entire campus. The entire campus is covered by more than 1200 latest wireless access points. All the buildings, departments, hostels, learning resource center, administrative department, lecture hall complex, health center and faculty residence are connected with 10 Gbps 144 core fiber backbone. IIT Indore is also a part of the global EDUROAM network.

Data Centre: The data center developed at the CITC building is equipped with redundant UPS and 320 KV DG facility. CITC is hosting servers, storage, network equipment, and a high-performance computing (HPC) facility in the data center. There are 7 InfiniBand Linux clusters hosted in CITC, a total of more than 3500 CPU cores, and 500 TB of storage. DGX NVIDIA cluster is also hosted in data center for computer science and engineering department..

Essential IT Services: CITC is running all the essential services in-house like maintenance and development of the Institute Website, internal/external DNS servers, web-based automation i.e. ERP (HRMS and MMS Module), File Tracking System (FTS), Web-based telephone directory, centralized authentication using LDAP/Radius, DHCP-based dynamic IP allocation services for each building, campus Wi-Fi, storage, campus telephone services, online automation services, virtual resource allotment, personal homepage hosting services and open-VPN for users. CITC has a ticket-based online service request system; the user can file online service requests and complaints and subsequently track their status.

Technical Support: CITC provides support for the installation and maintenance of IT equipment and application software in all the departments, LHC, hostels, residential areas, and administrative sections. We also provide technical support for the establishment and maintenance of smart classes, conference rooms and board rooms.

Our Team Members:

1. Prof. Neminath Hubballi, Professor In-charge&Head, CITC
2. Mr. Genius Sanjog, System Manager
3. Mr. Yogendra Singh, Deputy System Manager
4. Mr. Jitendra Gupta, Technical Superintendent
5. Mr. Dhiraj Vijayvargia, Junior Technical Superintendent
6. Mr. Subhash Soni, Junior Technical Superintendent
7. Mr. Chattar Singh, Junior Technical Superintendent
8. Ms. Princy Awadhiya, Application Developer
9. Ms. Manju Ghorse, Application Developer
10. Mr. Prahalad Singh Panwar, System Analyst
11. Mr. Shailesh Kaushal, Tech. Superintendent
12. Mr. Subha Jana, Tech. Superintendent

IITI DRISHTI CPS Foundation

About the Department

IITI DRISHTI CPS Foundation, a Technology Innovation Hub (TIH) established at IIT Indore under the aegis of National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS), is working along the technology vertical of System Simulation, Modelling and Visualization. DRISHTI CPS is committed to fostering technology development and commercialization, skill development, startup support, and employment creation in the field of Cyber-Physical Systems. It is closely working with faculty members, researchers and students from across the country for bringing relevant technologies from laboratory to market. We involve relevant industries, state government departments, line ministries, PSUs and startups in our ecosystem.

Program Updates:

Affiliate Program	Total Affiliate Members: 203
Technology Development and Fellowship Program	Student Fellowship-63 Faculty Fellowship-33 Total Amount Sanctioned-Rs. 11.6 Cr
Technology Business Incubation Program	<p>CPS-Seed Support-</p> <ul style="list-style-type: none"> No. of incubated startups-29 <p>CPS-PRAYAS-</p> <ul style="list-style-type: none"> No. of incubated startups-10 <p>CPS- EIR-</p> <ul style="list-style-type: none"> No. of incubated startups-5 <p>Total Fund Sanctioned- Rs. 8.56 Cr</p> <p>SHAKTI-</p> <p>Under this pre- incubation program, 18 shortlisted budding female entrepreneurs will delve into the fundamentals of entrepreneurship through immersive sessions, personalized mentoring, monthly fellowship stipend and practical training led by experts from the industry.</p> <p>BUILD-</p> <p>In collaboration with iTIC, IIT Hyderabad, DRISHTI CPS is supporting undergraduate students and recent graduates through mentorship, guidance, and resources to shape their ideas into functional prototypes and fostering a culture of entrepreneurship and innovation among young minds in India.</p> <p>HDFC Parivartan-</p> <p>The hub received HDFC Parivartan Grant of Rs. 35 Lacs to support Tech Driven High Impact Startups focusing on Agriculture and Sustainable Rural Economy. Under this program, the hub shortlisted two startups KY Innovations and Bhusatyam Technologies for incubation.</p> <p>Startup India Seed Fund Scheme (SISFS)-</p> <p>The hub has been granted Rs. 5 Crore under the Startup India Seed Fund Scheme (SISFS) for startup investment and operations for the next 3 years.</p>
Skill Development Program	<p>Total No. of Skill programmes- 17</p> <p>Domain areas-</p> <p>Cloud, Industrial Simulation and Automation, IoT Simulation and Hardware</p> <p>Total no. of persons trained- 2242</p> <p>Total no. Employment Generation-1181</p>

<p>International Collaboration</p>	<p>An international collaboration with Belgium’s UCLouvain in association with the NGO Louvain Cooperation for their Ingenieux Sud project. DRISHTI CPS is moderating student exchange program with UCLouvain and IIT Indore on Waste Management.</p> <p>Supported 4 Entrepreneurs in the first cohort working in areas like Agriculture and Smart Cities (EV) under Business Ideas for Development Program, Germany (BID-GIZ).</p>
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Team Strength

- Total Team Size - 46
- Technical Team -22
- Startup Team -06
- Operational Team -16
- Consultant -02



Notable R&D Activity

IITI DRISHTI CPS Foundation, a Technology Innovation Hub (TIH) established at IIT Indore under the aegis of National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS), is working along the technology vertical of System Simulation, Modelling and Visualization. DRISHTI CPS is committed to fostering technology development and commercialization, skill development, startup support, and employment creation in the field of Cyber-Physical Systems. It is closely working with faculty members, researchers and students from across the country for bringing relevant technologies from laboratory to market. We involve relevant industries, state government departments, line ministries, PSUs and startups in our ecosystem.

DRISHTI CPS has established a state-of-the-art research and skill development center at IIT Indore, named Charak Center for Digital Healthcare. The center aims to revolutionize India’s healthcare landscape, driving the advancement of technologies through Digital Twin as the foundation. The center will bridge the gap between technology developers and users by bringing together entrepreneurs, academicians, healthcare professionals, and end users to collectively accelerate the development, adoption, and commercialization of cutting-edge solutions in digital healthcare.

Research Grant received from external entities-

From Indian Council of Medical Research

Project: Development of risk management and health monitoring system on ventilated neurotrauma patients using the concept of digital twins and probabilistic modelling

Collaborators: IIT Indore and AIIMS, New Delhi

Funding: Rs. 1.5 Cr

From Royal Academy of Engineering

Project: Critical Care digital twin for affordable healthcare

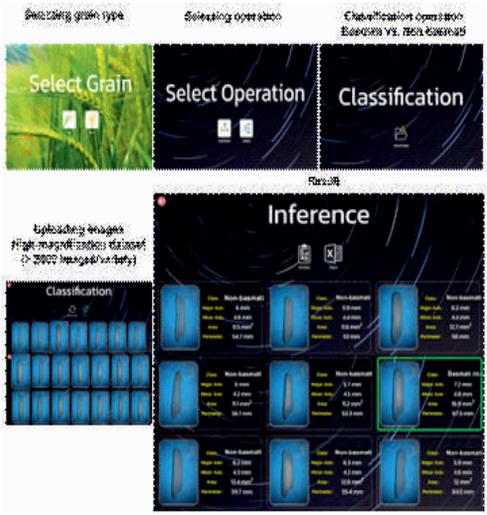
Collaborators: IIT Indore, University of Cambridge, UK and AIIMS, New Delhi

Funding: GBP 66000

Events and Programs

DESCRIPTION	IMAGE
<p>The hub organized a technology exhibition "SETU" (Stakeholder Engagement in Technology Upgradation) on July 16, 2023, in Indore, India. This exhibition showcased cutting-edge innovations in the Cyber-Physical Systems (CPS) domain, aiming to bridge the gap between technology developers and end-users across various industries</p>	
<p>The hub organized a mega event, ATMAN (Agri sTartup deMo And fuNding), in collaboration with Technology Innovation Hubs of IIT Bombay, IIT Kharagpur, and IIT Ropar in September 2023. Experts recommended 24 agritech startups from a pool of 55. Financial and technical support was provided to these startups to accelerate promising ideas and technologies.</p>	 <p style="text-align: center;">ATMAN 2023</p>
<p>The hub organized SETU 2024 in collaboration with AIIMS New Delhi with the theme Digital Twin in Healthcare. The program brought together stakeholders from 8 AIIMS institutions, various IITs, NITs/IIITs, and experts from medical and engineering institutes.</p>	 <p style="text-align: center;">SETU 2024</p>
<p>The hub organized an Accelerator Program in February 2024 to offer support to startups in the field of Digital Healthcare & Smart Manufacturing, fostering the growth of India's deep-tech startup ecosystem. 24 tech-based startups in Digital Healthcare & Smart Manufacturing participated and received guidance mentors, business experts, and investors on various topics such as Unit Economics, Value Proposition Development, Startup Branding and many more.</p>	 <p style="text-align: center;">Startup Bootcamp for Business & Funding Accelerator Program, Feb 2024</p>
<p>The hub inaugurated its Charak Center for Digital Healthcare on 17 February 2024 in the esteemed presence of Prof. Abhay Karandikar, Secretary, DST. This dedicated hub is set to propel translational research in digital healthcare.</p>	 <p style="text-align: center;">Inauguration of Charak Centre for Digital Healthcare, Feb 2024</p>
<p>The hub through its Charak Center for Digital Healthcare organized an event, Charak Connect in April 2024 at IIT Indore. A diverse group of medical experts from Govt and Private Medical and Research Hospitals, IIT Indore Faculties, entrepreneurs, and healthcare professionals visited Charak Centre for Digital Healthcare. The program was enriched with insightful technology demonstrations, fostering engaging discussions on potential collaborative projects.</p>	 <p style="text-align: center;">Charak Connect, April 2024</p>

Research Area and Highlights

PROJECT / STARTUP DETAILS	TECHNOLOGY IMAGE
<p>Name of the Technology: AI-guided portable system for adulteration and dilution detection in Basmati rice- GRAINPRO</p> <p>TRL Stage: TRL 6</p> <p>Description: The similarity in appearance of different varieties of Basmati rice (and therefore the difficulty in distinguishing them), and the significant price difference leads to both intra-basmati rice and inter-rice adulteration by fraudulent dealers.</p> <p>This project is developing a machine vision system-based device that will enable the classification of 8-10 classes of Basmati rice in the Indian context. A robust dataset of 20,000+ high-resolution, high-magnification images spread across 10 varieties of Basmati rice in the Indian context is being prepared which will be used to put forth an optimized deep learning-based model which will ensure a high classification accuracy of > 98% at a low image resolution (<1 MP) for Basmati rice classes.</p> <p>Name of the Startup: BramhAnsh Technologies Pvt. Ltd.</p> <p>Product Name: MigraeLief</p> <p>Domain: Healthtech</p>	 <p>The image displays four screenshots of the GRAINPRO software interface. The top row shows three main menu options: 'Select Grain' (with a green rice field background), 'Select Operation' (with a dark background and icons), and 'Classification' (with a dark background and a small icon). The bottom row shows a 'Classification' screen with a grid of small images and an 'Inference' screen displaying a grid of larger images with overlaid data and a green bounding box around one of the images.</p>
<p>TRL Stage: TRL 7</p> <p>Description: Startup has developed a drug-free wearable neurostimulation device, MigraeLief, providing immediate relief and prevention for migraines, ensuring headache relief and deep sleep. MigraeLief is a drug-free treatment that can help people to get relief from migraine attacks. This simple-to-use medical device works effectively to cure acute migraine attacks and prevent future occurrences. MigraeLief gets to the root of the problem by impact of sound as a vibration wave of acoustic signal through the skull, tissues and cells of the brain.</p>	 <p>The image shows the MigraeLief device, which consists of a black fabric headband with two orange circular electrodes on the sides. A black cable connects the headband to a small, black, rectangular control unit with a few buttons and a small display.</p>

Center for Indian Scientific Knowledge Systems (CISKS)

About the Department:

The Center for Indian Scientific Knowledge Systems (CISKS) at the Indian Institute of Technology Indore was founded in June 2021 to focus on understanding, preserving, teaching, and adapting the science and technology heritage of India. The center will focus exclusively on the scientific and technological heritage of India and its relevance to the modern world. The focus is on hard sciences such as mathematics, astronomy, metallurgy, biology, agriculture, engineering, and medicine, among others. This center will not focus on the language studies, humanities, or social science aspects of Indian knowledge systems.

Academic Programs:

The academic programs include the Certificate Course in Sanskrit Language (CCSL) and the Diploma Course in Sanskrit Language (DCSL). The courses are open to everyone on the campus or outside the campus.

Our vibrant group of faculty members aspires to create an ambience for the smooth pursuit of scholarly activities in Sanskrit research as well as training on the science and technology heritage of India.

Number of Faculty Members:	11
Professor	04
Associate Professor	06
Assistant Professor Grade-I	01
Assistant Professor Grade-II	Nil

Programs	Student Intake	Degree Awarded
Certificate course in Sanskrit Language (CCSL)	100	53
Diploma course in Sanskrit Language DCSL (ongoing)	100	0

Projects

Project	Sponsored	Consultancy
New Projects		Nil
Ongoing Projects	4	Nil
Completed		Nil

Notable Activities:



Non-formal Sanskrit Education (NFSE) centre of Central Sanskrit University classes



Organized Panchatantra workshop led by Dr. Bharat Dash on March 08, 2024.



Organized Exhibition in Fluxus 2024 on Puzzle games and other activities related to Indian History.



Organized four days of Faculty Development Program on "Arthashastra and Nitishastra" from June 11-14, 2024.



Organized an online talk on Indian Research Methodologies by HS Sudarshan titled, "How did our ancestors think?" on April 25, 2024, conducted by NFSE.

. A three-day Faculty Development Program was held from July 1-3, 2024, titled "Agriculture, Water Management and Botany," and a two-day Faculty Development Program on "Temple Architecture" was held from July 4-5, 2024.

Center of Futuristic Defence and Space Technology (CFDST)

This center is committed to providing a platform to students and researchers for their contribution to “Nation-Building” through developing various forefront and futuristic technologies for Defense and Space Sectors towards “Aatmanirbhar Bharat”. The center is contributing to providing technological solutions to some of the research problems of the country's premier laboratories of defense institutions, such as the Defense Research and Development Organization (DRDO). The center is also planning to offer specialized and dedicated M.Tech/MS Research and Ph.D. programs in the broad area of defence and space in the near future.

Dr. Indrasen Singh (Head CFDST), and Mr. Balkrishna Vishwakarma are handling the Center.

Members in CFDST

• Prof. Neelesh Kumar Jain	• Dr. RamSajeevan Maurya
• Prof. Rajneesh Misra	• Prof. Sanjay Kumar Singh
• Prof. Ram Bilas Pachori	• Dr. Saurabh Das
• Prof. Vimal Bhatia	• Prof. Shaibal Mukherjee
• Dr. Abhinoy Kumar Singh	• Dr. Vinod Kumar
• Prof. Abhirup Datta	• Dr. Vivek Kanhangad
• Dr. Abhishek Rajput	• Dr. Hem Chandra Jha
• Prof. Avinash Sonawane	• Dr. Jayaprakash Murugesan
• Dr. Ajay Kumar Kushwaha	• Dr. Mukesh Kumar
• Prof. I A Palani	• Prof. Nirmala Menon
• Dr. Lalit Borana	• Prof. Ruchi Sharma
• Dr. Mrigendra Dubey	• Dr. Somaditya Sen
• Prof. Neelima Satyam	• Dr. Sumanta Samal
• Dr. Pankaj Sagdeo	• Dr. Surya Prakash
• Dr. Puneet Gupta	• Dr. Swaminathan Ramabadrana

Notable Achievements: Webinar Organized During COVID-19 Pandemic:

- Expert Talk by Dr. Ajay Kumar IAS Defence Secretary Ministry of Defence, Govt. of India webinar on ‘Indian Defence Industry, The Sunrise Sector’.
- Expert Talk by Maj Gen A K. Channan, PVSM, SM Additional Director General Army Design Bureau webinar on ‘Technology as a disruptive influence on military warfare’.
- Expert Talk by Lt. Gen VG Khandare PVSM, AVSM, SM (Retd.) Military Adviser, National Security Council Secretariat webinar on ‘The role of technology in national security and comprehensive national power’.
- One-day workshop on opportunities for research and development in armament establishments (ARMREB-2020) held on August 26, 2020.

Faculty Profile of CFDST

Bodhisatwa Mazumdar

Associate Professor
Cryptography, Hardware Security
bodhisatwa@iiti.ac.in



Research Area and Highlights:

My present research focuses on identifying fault-based vulnerabilities in cryptographic primitives, especially block ciphers, stream ciphers, and lightweight cipher suites. Precisely stating, we are presently working on pinpointing hotspots in the algorithms of such cryptographic primitives, which have increased vulnerabilities against such attacks. This work imparts stress on the design and implementation of lightweight countermeasures for minimal system overhead for such systems. We are also working on logic synthesis approaches for masking IP designs with provable security.

Prof. Somaditya Sen

Professor
sens@iiti.ac.in
PhD, Jadavpur University



Research Area and Highlights:

Specialized in structure correlated physical properties analysis on some modified simple and complex oxide materials.

His research interests include Ferroelectricity, Multiferroicity, Magnetism, Semiconductors, Devices, Nanomaterials, and Bio-applications. The research target of his group is to synthesize single phase chemically modified oxide materials to study the structure correlated opto-electronic, magnetic, ac/dc transport, energy research, dielectric, ferroelectric, resonating antenna, and bio-applicable properties of the materials. The materials synthesized in the lab are subjected to various physical parameter studies, e.g., electronic bandgap and defect studies, carrier concentration and type determination, mobility factor, light and gas sensing properties, dielectric resonator properties, pressure induced properties, electrochemical, antibacterial, wound healing, algae growth, seed germination properties, etc.

Significant contribution for the period 2023-24 :

- 10 publications in reputed journals
- Regularization of CESP committee

Sanjram Premjit Khanganba

Associate Professor
Cognitive Human Factors & Ergonomics, Safety and System Design, System Resilience
sanjrampk@iiti.ac.in



Research Area and Highlights:

His scientific research investigates aspects of applied cognition in system development, design, and evaluation. He is strongly dedicated to addressing issues related to human-system interaction in the pursuit of technological innovation, improvement, and optimal utilization of human capabilities. He employs experimental investigation in the laboratory as well as fieldtesting involving analysis of gaze and electro physiological data.

Center for Rural Development (CRDT)

About the Department

The Institute established the Center for Rural Development and Technology (CRDT) in April 2020 as a nodal hub for researchers, volunteers, practitioners, educators, and others to collaborate and facilitate rural empowerment and progress solutions. CRDT shall strive to facilitate empowering and enabling the rural population to improve their living conditions by development and application of appropriate and people-friendly technologies adopting participatory, sustainable, democratic, transparent, and gender-sensitive processes.

Academic Programs

Center for Rural Development and Technology (CRDT) has launched a Ph.D. program exclusively in Rural Development and Technology, which comprises research areas such as Agricultural and Environmental Economics, Sustainability Studies, Impacts of Climate Change, Food Security, Water Energy and Food Nexus, Application of Artificial Intelligence Techniques in Agriculture Problems, Building Products for Rural Areas, Development and evaluation of sustainable materials for soil stabilization in rural infrastructure, Disaster risk reduction in rural areas, Early disease detection in crops for sustainable ecosystem, Evaluation of the socioeconomic impact of rural infrastructure development on local communities, Food and bioprocessing equipment design and scaleup, Integration of traditional knowledge and practices with modern technologies for sustainable rural development, Natural Resource and Environmental Economics, Climate change impact on Agriculture, Tribal Studies, Policy Analysis, Rural Development, Noise, Vibration, and Harshness in Agriculture Machinery and Automobiles, Nutrient energy water nexus, Optimization of construction techniques and materials for cost-effective and sustainable rural housing, Resilience of AgroEcological Systems, Sensors for agriculture, Sustainable Construction, Sustainable rural healthcare, Sustainable Techniques for Food Storage and VLSI Circuit and System Design.

Number of Faculty Members:	13
Professor	10
Associate Professor	02
Assistant Professor Grade	01

Sl. No	Number of Students Enrolled in PhD	Name of Supervisor
1	Mr. Habtamu Melesse Dicha (Under Ministry of Education, Ethiopia and Ministry of Innovation and Technology Joint Integrated Phd Programme from Arba Minch University, Ethiopia)	Prof. Sandeep Chaudhary
2	Mr. Satish Dabe	Prof. Sandeep Chaudhary
	Elective Courses: 02	
	Design Thinking For Rural Application (RDT 301/401/601)	
	Immersion For Rural Technology Development (RDT 201)	

Notable R&D Activities:

Sl. No	Name of event	Date	No. of Participants	Associate organization
1	Revolutionizing Agriculture through Artificial Intelligence and Machine Learning	August 25, 2023	45	ICAR-Indian Institute of Soybean Research (ICAR-IISR), Indore
2	Innovations Towards Rural Development Best Idea Presentation Competition	September 29, 2023	14	-
3	Skill development training program	October 3-5, 2023	06	Nimar Abhyudaya Rural Management and Development Association (N.A.R.M.A.D.A.)
4	Nurturing Sustainability in Agricultural Startups	October 27, 2023	40	ICAR-Indian Institute of Soybean Research (ICAR-IISR), Indore
5	Rural Innovators Conclave	January 5-6, 2024	100	Science and Engineering Research Board
6	Skill development training programs for school & college students under “Skill India Programme- Skill Hub Initiative (SHI) under Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 4.0”	February 7-13, 2024	216	PM Shri Kendriya Vidyalaya, IIT Indore

External Funding for Conference/Seminar/Symposia (SSY)

Name of Conference/Seminar/Symposia	Date	Name of Funding Agencies	Grant	No. of Participants	No. of Invited talks	No. of startup presentations	No. of Product Display	No. of New Technologies Presented
Rural Innovators Conclave	January 5 To 6, 2024	Science And Engineering Research Board (SERB)	2 Lakh	100	05	04	10	06

Projects

Projects	Internal Project	External Sponsored Project
New Projects	20	01
Ongoing Projects	13	02
Completed	-	-

Internal Project

Thirteen Centre-funded projects are underway under the aegis of CRDT in collaboration with CIAE Bhopal, and **Twenty projects** are ready for approval.

Ongoing Projects (13)				
Sl. No	Project Title	PI (IIT Indore)	Co-PI (IIT Indore)	Co-PI (CIAE Bhopal)
1	Development of bioplastic utilizing cellulose extracted from corn-stalk	Dr. Apurba K. Das	-	Er. Harsha Wakudkar, Dr. Sandip Mandal
2	Sustainable management of organic waste stream comprising fecal, municipal, and agro wastes employing resource recovery approach	Dr. Ashootosh Mandpe	-	Dr. Sandip Gangil
3	Assessing the Farm Mechanization and its impacts on farmers' Economic	Dr. Kalandi Charan Pradhan	Dr. Mohanasundari Thangavel	Dr. Kaushik Prasun Saha
4	Real-time detection of diseases in paddy/ Soyabean using via memristive crossbar array-based image	Prof. Shaibal Mukherjee	Prof. Ram Bilas Pachori	Dr. Manoj Kumar, Dr. Deepak Singh, Yogesh Rajwade
5	Assessment of Soyabean based probiotics to combat antimicrobial resistance Helicobacter pylori growth and disease pathogenesis	Dr. Hem Chandra Jha	-	Dr. Samlesh Kumari
6	Development of economic super absorbent Agri-gel for studying and soil, water and nutrients retention properties	Dr. Mrigendra Dubey	-	Dr. K V Ramana Rao

7	Deep CNN-based estimation of Above-Ground Biomass of corn crop using variable magnification UAV images.	Dr. Ankur Miglani	Dr. Pavan Kumar Kankar	Dr. Yogesh Rajwade
8	Design and development of cost-effective manually operated rice transplanter	Dr. Jayaprakash Murugesan	-	Dr. Rahul Rajaram Potdar
9	Development of Cost-Effective Photo Active Soft Materials for Efficient Removal and Degradation of Pesticides from Contaminated Ground Water	Dr. Tushar Kanti Mukherjee	-	Dr. Abhishek M. Waghaye
10	Development of Mobile app for farmers to help them in Agricultural activities: Krishi Sewa	Prof. Aruna Tiwari	-	Dr. Shashi Rawat
11	Sustainable Production of Polylactic Acid (PLA) using Agro-Industrial Waste for PLA based bioPlastic Formulation.	Prof. Sampak Samanta	-	Dr. Manoj Kumar Tripathi
12	Development of Hybrid Sodium-Ion Capacitors by Compositing Agricultural Waste Derived Carbon with Doped-NASICON Materials	Dr. Dharendra Kumar Rai	-	Dr. Vinod Kumar Bhargav
13	Porous Organic Polymers (POPs) in Water Remediation by Removal of Agricultural Toxic Chemicals	Prof. Suman Mukhopadhyay	-	Dr. K. V. Ramana Rao

Upcoming Projects (20)					
Sl. no.	Project title	Project PI	Co-PI (IIT)	Co-PI (External)	Area/ Collaboration Institute
1	Holistic Approach to Water Management: Indigenous Water Utilisation Practises, Oral Narratives and Nesu Nadi Festival in Nandurbar, Maharashtra	Dr. Aratrika Das	-	-	YOGAK, Nadurbar, Maharashtra
2	Development of Sustainable-cost effective Fertigation setup: Converting Solid Organic Fertilizer into Liquids for Direct Root Fertilization during irrigation	Dr. Ashish Rajak	-	-	1. Shivganga, Jhabua, Madhya Pradesh 2. Ohm Sanatan Gau Utpad
3	Development of a Smart Low-Cost Weather Station with Integrated Weather Forecasting	Dr. Saurabh Das	-	-	YOGAK, Nadurbar, Maharashtra
4	Development of Room Temperature Ethylene Gas Sensing to Mitigate Fruit Spoilage in the Storage Containers.	Dr. Pravarthana Dhanapal	-	-	-
5	Low-cost power generators for rural development (Low-cost generators)	Dr. Sumit Gautam	Dr. Devesh Mishra Mr. Sandeep Prajapati Project lead (Project SawYaan)	-	-
6	Advancing Hydrogen Storage and CO2 Capture for Decentralized Energy and Agriculture: Empowering Rural Sustainability	Dr. Srimanta Pakhira	-	-	Vasumitra Life Energies Pvt. Ltd.
7	Investigating the impact of abiotic stresses and carbon sequestration on plant physiology and soil carbon dynamics	Prof. Kiran Bala	-	-	Vasumitra Life Energies Pvt. Ltd.
8	Documentation and Preservation of Jhab Wali: A Dialect Dictionary for Jhabua, Madhya Pradesh	Dr. Thapasya J	-	-	Jhabua, Madhya Pradesh
9	Monitoring plant abiotic stress using remote sensing	Dr. Unmesh Khati	-	Dr. Manoj Semwal Computational Biology Department, Central Institute of Medicinal and Aromatic Plants	Vasumitra Life Energies Pvt. Ltd.

10	Echoes of Jhabua: Documenting the Folk Music Heritage of Madhya Pradesh	Dr. Ananya Ghoshal	Dr. Shomik Dasgupta	-	Shivganga, Jhabua, Madhya Pradesh
11	An app for Patient Record Management System for rural area surrounding to Indore	Prof. Aruna Tiwari	Prof. Avinash Sonwane	-	Nagrath Charitable Trust
12	Efficient Solar Air Dryer using synthetic jet impingement for Agricultural Products	Dr. Harekrishna Yadav	-	-	Ecosense Sustainable Solutions Pvt. Ltd.
13	Pioneering weed management through Rotary Drum composting followed by vermicomposting	Dr. Mayur Shirish Jain	-	-	YOGAK, Nadurbar, Maharashtra
14	Design and Development of Low cost environmental friendly Tribo Piezo Hybrid flexible smart flushing systems for Low water sanitation	Prof. Palani I A	Dr. Hitendra Kumar	-	YOGAK, Nadurbar, Maharashtra
15	Exploring Tribal Art Heritage: A Study of Indigenous Art Forms in Jhabua District, Madhya Pradesh	Dr. Shomik Dasgupta	Dr. Ananya Ghoshal	-	Shivganga, Jhabua
16	Improving the use of cow dung cake as fuel by converting it into biogas and by making cow dung logs	Dr. Jayaprakash Murugesan	-	-	YOGAK, Nadurbar, Maharashtra
17	Revitalizing Agriculture through Halma Heritage: Cultural and Socio-Economic Impact Study in the Jhabua & Alirajpur Districts of Madhya Pradesh	Dr. Dishari Chattaraj	Dr. Mohanasundari T	-	Shivganga, Jhabua, Madhya Pradesh
18	Improving rural hygiene by developing low-cost bio-sanitation solution	Dr. Ashootosh Mandpe	-	-	NARMADALAY
19	A low-cost weather station with weather forecasting & data digitalization	Prof. Biswarup Pathak	-	-	YOGAK, Nadurbar, Maharashtra
20	Revitalizing Traditional Agriculture: Introducing Multipurpose Solar Electric Power-Driven Tractors for Sustainable Farming	Dr. Dan Sathiaraj	Dr. Vivek Singh Dr. Anand Petare		

External Sponsored Project

- IoT-enabled Resistance Readout Circuit for Water and Gas Sensor, 'AYANSH'-TIH-IoT Start-ups and Spin-offs Program' 2022, IIT Bombay, INR 10,00,000, 2023-2025; (NOTE: This is an Industry Project through our Startup QuanTechL2M Innovations Pvt. Ltd.).
- Implementation of IoT enabled MCA based Image Processing for Early Identification of Diseases in Crops, TIH IoT CHANAKYA GROUP (PhD, PG, UG) FELLOWSHIP PROGRAM 2022-23, INR 11,64,600, March 2023 - October 2024.
- Technology Dissemination of Compressed Colored Composite for a wide range of products to support sustainable rural infrastructure, INR 5940000, 2023-2025, DST, GOI, Collaborator-TIET Patiala, India.

Publications

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals	Patent
Total	-	-	-	1 (1 in minor revision stage)	3 Filed

Papers In Journals

- Electrochemical performance of a Li⁺-enriched metallohydrogel as an electrolyte and electrode material for supercapacitors, Yeeshu Kumar, Moupia Mukherjee, Manish Kumar Dixit, Abul Kalamb and Mrigendra Dubey, Sustainable Energy & Fuels, 2024 <https://doi.org/10.1039/d4se00096j>

Patent

- A portable kit for visible light photodynamic inactivation of microbes - an alternative to Cold storages Filed 2024:202421010243 Niladri Sekhar Roy & Debyan Sarkar
- Cow dung-based lightweight construction materials and method thereof, Filed 2024:202421010279 Sanchit Gupta & Sandeep Chaudhary
- A portable dispenser of food grains, pulses, millets, and nuts and method thereof Filed 2024:202421019969 Ankur Miglani & Pavan Kumar Kankar

Memorandum of Understanding

- MoU between CRDT, IIT Indore, and CSIR-National Environmental Engineering Research Institute.
- MoU between CRDT, IIT Indore, and ICAR-Indian Institute of Soybean Research (ICAR-IISR), Indore

Name of Activity - Expert Talk			
Sl. No	Date	Name of Speaker	Title
1	June 23, 2023	Dr Vikram Pattarkine, Pennsylvania, USA	Environmental Sustainability through Lifestyle Choices Based on Process Engineering Principles
2	August 25, 2023	Dr. Shashi Rawat, ICAR-CIAE Bhopal	Revolutionizing Agriculture through Artificial Intelligence
3	August 25, 2023	Dr. Milind Ratnaprkhe, ICAR-IISR	Machine Learning and Roundtable with renowned agricultural scientists, industry leaders, and representatives from non-governmental organizations (NGOs)
4	September 5, 2023	Prof. Sameer Khandekar, Department of Mechanical Engineering, IIT Kanpur	Creating Social Capital via Institutional and Individual Efforts
5	September 8, 2023	Dr. Gajanan Dange, President, YOJAK Centre for Research and Strategic Planning for Sustainable Development	Samvaad: Dialogue on retrospection of our developmental journey and the way ahead
6	February 6, 2024	Prof. Sadanand Sapre, former Professor in Electronics, MANIT, Bhopal	Bhartiya Gyan Parampara (Indian Knowledge Systems)

Name of Activity - Field visit as part of the academic course Design Thinking for Rural Application (RDT 301/401/601)		
Sl. No	Date	Place
1	March 3-5, 2024	Karanjali, Sonpada, Borchak, Nimboni and Varsatra villages of District Nandurbar, Maharashtra
2	March 16, 2024	Rakhadiya, Thehsil – Meghnagar, Shivganga Gurukul Dharampuri, and Hathipava District Jhabua



Organizational Structure of CRDT Professor In-Charge



Dr. Debayan Sarkar

Research Interests:

- Visible Light Deactivation of Microbes
- Vegetable Storage employing Visible Light Photodynamic Inactivation of Microbes
- Isolation and application of Bioactive Natural Products

Agriculture, Forestry & Environment



Prof. Pritee Sharma

Research Interests:

- Agricultural Economics (Economics of Land, Water and Forests)
- Development Economics (Rural Poverty and Trade Concerns of Developing Countries)



Prof. Ganti S. Murthy

Research Interests:

- Bioprocess development and scaleup for production of value added bioproducts and biofuels
- Biological and bioprocess modeling, control and multicriteria optimization
- Systems analysis using technoeconomic analysis, life cycle assessment and resource assessment
- Resilience and sustainability at the nexus of nutrient-energy-water-land



Dr. Mohanasundari Thangavel

Research Interests:

- Agricultural Economics
- Resource Economics: Energy, Water and Agroforestry
- Environmental Economics: Climate Change Adaption and Impact Studies
- Urban and Rural Consumption Pattern
- Farmer Producer Organizations

Rural Healthcare



Prof. Avinash Sonawane

Research Interests:

- Role of Mycobacterium tuberculosis glycoproteins and glycolipoproteins in modulation of host immune responses
- Epigenomics of stem cells during M. tuberculosis infection
- Host antimicrobial peptides in anti-mycobacterial immunity
- Drug delivery
- Development of L-asparaginase based therapy for the treatment of primary and relapse acute lymphatic leukemia



Dr. Hem Chandra Jha

Research Interests:

- COVID-19 biology
- Biological and bioprocess modeling, control and multicriteria optimization
- Host-pathogen interaction- Epstein-Barr virus and Helicobacter pylori associated co-infection in cancer progression
- Epigenetic regulation- Pathogens derived pathogenesis in cancer
- Pathogens burden during viral infection of Gastric Cancer, Head and Neck Cancer and Multiple Sclerosis
- Drug discovery in cancer and infectious agents derived diseases
- Genetic Engineering

Technology Development & Skill Development



Prof. Sandeep Chaudhary

Research Interests:

- Structural Engineering
- Sustainable Construction Practices
- Composite Bridges
- Novel Bricks and Blocks
- Microstructure and Durability of Concrete
- Advanced Characterisation Techniques
- Waste management in building construction materials



Prof. Rajesh Kumar

Research Interests:

- Nanomaterials & nanodevices
- Electronic and electrochromic devices
- Device physics, Raman Spectroscopy & Microscopy
- Natural Biomaterials



Prof. Shaibal Mukherjee

Research Interests:

- Low-cost HEMTs/HFETs for DC-to-DC converters
- Heterogeneously integrated RRAMs for image processing and neuromorphic computation
- Next-generation ultrathin and low-cost photovoltaic
- Flexible and low-cost biochemical sensors for agriculture, water, and air
- High-performance UV detectors



Prof. Santosh Kumar Vishvakarma

Research Interests:

- Energy-Efficient and Reliable SRAM Memory Design
- Hardware-Efficient Architecture for DNN Accelerators
- SRAM-based In-Memory Computing Architecture for Edge AI
- Reliable, Secure Design for IoT Application
- Design for Reliability



Prof. Pavan Kumar Kankar

Research Interests:

- Fault Diagnosis of Mechanical Components
- Condition Based Maintenance
- Machine Learning
- Signal Processing

Outreach and Gender Equality



Prof. Nirmala Menon

Research Interests:

- Digital Humanities
- Postcolonial Literature and Theory
- Globalization Studies
- World literatures in other languages in translation
- Institutionalization of Postcolonial Literature



Prof. Neelima Satyam D.

Research Interests:

- Geotechnical Earthquake Engineering
- Dynamic Soil Structure Interaction Analysis
- Liquefaction Hazard and Mitigation
- Epigenetic regulation- Pathogens derived pathogenesis in cancer
- Environmental Geotechnics
- Landslide Research
- Rock Mechanics and Underground Structures

JP Narayan National Centre of Excellence in the Humanities (JPNNCEH)

About the Department:

The Jaya Prakash Narayan (JPN) National Centre of Excellence in the Humanities was established in October 2022 at IIT Indore by the Ministry of Education to initiate research, academics, and outreach activities focusing on two areas, namely- Digital Humanities and Environmental Humanities. The centre will function as a nodal place that fosters collaborative initiatives at the intersections of language, literature, and technology and will model the highest standards of digital scholarship. In doing so, the centre will offer scholars a unique environment for extending the boundaries of traditional research using digital technologies.

Convener JPN Centre	Prof. Nirmala Menon
Co-convener JPN Centre	Prof. Pritee Sharma
JPN Centre Steering Committee Members	
Prof. Nirmala Menon	Convener & Member, Steering Committee School of Humanities and Social Sciences, IIT Indore
Prof. Pritee Sharma	Co-Convener & Member, Steering Committee Humanities and Social Sciences, IIT Indore
Prof. Biswarup Pathak	Member, Steering Committee, Department of Chemistry, IIT Indore
Prof. Abhishek Srivastava	Member, Steering Committee, Computer Science & Engineering, IIT Indore
NO. OF FACULTY MEMBERS	02
NO. OF POST-DOCTORAL FELLOWS	02
RESEARCH ASSOCIATE	02
PROGRAMS	STUDENT INTAKE Year
PhD	02 Admitted for July 2024
MA (DH & EH)	10 Will commence in the year 2025

Academic Programs:

The Digital Humanities Centre is strategically positioned to cultivate a robust environment for academic activities and training programs, catering to both scholars and staff. Through a combination of innovative initiatives, the centre aims to enhance scholarly engagement and provide valuable training opportunities for continuous academic development. The Centre convened a "Curriculum Development Workshop" in November 2023, bringing together national and international advisory committees to deliberate and finalize the course curriculum for the MA and PhD programs in Digital Humanities and Environmental Humanities. The Centre has initiated its PhD program for Autumn 2024-25 and will commence its MA program in the 2025-26 academic year.

In the year 2023, the following academic activities were undertaken:

1. Hands-on Digitization Training programme- Dec ember14-15, 2023
2. Curriculum Development Workshop- November 3-4, 2023
3. Language Documentation Techniques and Technologies Workshop – February 19-21, 2024
4. Capacity Building Workshop On Environmental humanities for Sustainability Interdisciplinary Dimension – February 14-16, 2024

Notable R&D Activities:

The JPN National Centre of Excellence in the Humanities is dedicated to fostering cutting-edge research at the intersection of technology and the humanities. Our initiatives encompass a wide range of interdisciplinary projects aimed at exploring innovative ways to analyze, preserve, and disseminate cultural heritage in the digital age. The Centre promotes and invites research projects annually to support the development of researchers and educators in fulfilling their research initiatives.

JPN Centre Funded Projects:

Year	PROJECT RECEIVED	SANCTIONED
2023-24	47	10
2024-25	40	19

Projects Led by Centre Faculty:

Year	PROJECT RECEIVED	
2023-24	03	

**Outreach Activities of the Centre:**

The outreach activities of the centre aimed to raise awareness and encourage public engagement through various programs. One such initiative is the Writing Centre project funded by JPN, which led to various activities fostering community engagement, participation, and collaboration. The Centre's activities are regularly updated on its website (<https://jpnnationalcentre.com/>) and social media handles. Following is the list of activities undertaken:

1. Writing Food-Workshop by Dr Ishita Dey on September 9, 2023
2. Writing about classroom observations by Dr. Dripta Piplai (Mondal) and Ms Lekshmi R. on September 20, 2023
3. Dimensions of a Field Report by Dr. Bornini Lahiri and Ms Vani Sirkeck on September 20, 2023.
4. Writing to publish - an inside look by Debraj Mookerjee and Dr Tapasya Narang on October 4, 2023
5. Academic and Non-Academic Writing by Ms Soma Wadhwa on October 28, 2023, and November 4, 2023

Research Area and Highlights**Professor Nirmala Menon****Research Interests:**

- Digital Humanities
- Text Mining and Natural Language Processing (NLP)
- Digital Editions and Digital Publishing
- Digital Archiving and Preservation
- Virtual and Augmented Reality
- Spatial Humanities and GIS
- Partition Studies
- Bibliometric Studies
- Translation Studies

**Professor Pritee Sharma****Research Interests:**

- Agricultural Economics (Economics of Land, Water and Forests)
- Development Economics (Rural Poverty and Trade Concerns of Developing Countries)
- Environmental Humanities

DST-Centre for Policy Research (DST-CPR)

About the Centre:

Established in 2023, the Center has twin goals: focusing on technological and policy dimensions for integrated water resource management and governance and understanding various facets of Science, Technology, and Innovation Policy. We plan to utilize big data applications and harness data from intellectual property rights documents alongside traditional field surveys. The Centre aims to deliver industry-relevant model outputs and policy notes for the State. The Centre's activities will strengthen local water and climate resilience, disaster risk reduction, and resilience agendas by enabling an effective policy-planning-practice interface with Science and Technology innovations.

Number of Faculty Members	16
Professor	09
Associate Professor	04
Assistant Professor	02
Research Associates	03
Project Associates	02
Technical Assistants	01
Field Assistants	01

Notable R&D Activities:

1. Water Policy One-Day Workshop

The "Water Policy: Issues, Challenges, and Ways Forward" one-day workshop on October 7, 2023, at IIT Indore convened experts, policymakers, and stakeholders to address critical water resources management issues. The event featured panel discussions and interactive workshops, emphasizing the significance of collaboration, adaptability, data-driven decision-making, sustainable practices, and community engagement in crafting effective water policies. The following experts were included in the event:

- Shri Avinash Mishra, NITI Aayog
- Prof. Manish Kumar Goyal, IIT Indore
- Prof. Pritee Sharma, IIT Indore
- Prof. Anil K. Gupta, NIDM
- Prof. Ruchi Sharma, IIT Indore

2. Agriculture Entrepreneurship: Policy and IPR, Part 1

A three-day training program was completed successfully during 18-20 Jan 2024 with 31 participants. The program was conducted to benefit the regional youth, agriculturally based enterprises, and concerned stakeholders in enhancing the regional agriculture-based economy through utilizing innovative technologies and conserving the farming-based community's intellectual property rights (IPRs). The list of the resource persons for the event is as follows:

- Mr. Jappreet Sethi, CEO, HexGn
- Prof. Ruchi Sharma, IIT Indore
- Prof. Preeti Sharma, IIT Indore
- Prof. Manish Kumar Goyal, IIT Indore
- Mr. Vikas Asawat, Attorney

3. Agriculture Entrepreneurship: Policy and IPR, Part 2

A three-day training program was completed successfully from 22-24 Jan 2024 with 33 participants. The program was conducted to benefit the regional youth, agriculturally based enterprises, and concerned stakeholders in enhancing the regional agriculture-based economy through utilizing innovative technologies and conserving the farming-based community's intellectual property rights (IPRs). The list of the resource persons for the event is as follows:

- Prof. Anil A. Kulkarni, Vice Chancellor of SAGE University
- Prof. Manish Kumar Goyal, IIT Indore
- Prof. Devendra Deshmukh, IIT Indore
- Dr. Unmesh Govind Khati, IIT Indore
- Dr. Mohanasundari Thangavel, IIT Indore
- Prof. Ruchi Sharma, IIT Indore
- Prof. Abhirup Datta, IIT Indore
- Prof. Preeti Sharma, IIT Indore
- Dr. Juhee Singh, Prestige University Indore

4. World Water Day Celebration

The DST-Center for Policy Research, Indian Institute of Technology (IIT) Indore hosted a comprehensive workshop titled "Water for Future" on March 22, 2024, aimed at addressing critical water-related issues and exploring sustainable solutions on the occasion of World Water Day. The event, held at the Mini Conference Room, Learning Resource Centre, witnessed a gathering of experts, scholars, and enthusiasts passionate about securing a water-secure future. The list of the resource persons for the event is as follows:

- Dr. Dinesh Kumar, Institute for Resource Analysis and Policy
- Prof. Pranab Mohapatra, IIT Gandhinagar
- Prof. Manish Kumar Goyal, IIT Indore
- Prof. Ruchi Sharma, IIT Indore

5. World IP Day Celebrations

World Intellectual Property Day is celebrated every year on April 26th. This year's theme was "IP and the SDGs: Building our Common Future with Innovation and Creativity." IIT Indore commemorates World IP Day through a series of engaging sessions, discussions, and capability-building exercises. The list of the resource persons for the event is as follows:

- Dr. Akhilesh Gupta, DST
- Prof. Sujit Bhattacharya, CSIR-NIScPR
- Mr. Prateek Kanaujia, Xlscout
- Mrs. Suvarna Pandey, RNA, IP Attorneys

Publications

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	0	0	0	1+4 (policy notes)

Research Area and Highlights

Prof. Manish Kumar Goyal

Professor IIT Indore



Research Area and Highlights (50-75 words):

Agriculture, Climate, Water, AI, and GIS-remote sensing, Climate Extremes, Environment, Wetlands Paper Award.

Prof. Manish Kumar Goyal, a Chair Professor-BIS Standardization at IIT Indore, is a JSPS Fellow, Commonwealth Fellow, Erasmus Fellow, P.E.(Int), Indo-US WARI Fellow, and Inspire Fellow. He is the Dean of Infrastructure Development and has been recognized among the top 2% of scientists globally by Stanford University consecutively in the last 04 years. Prof. Goyal has received numerous prestigious awards, including the Prof S N Gupta Memorial Lecture Award, Best Researcher of the Year Award, and ASCE's Best Theoretical-Oriented Paper Award.

Prof. Manish Kumar Goyal

Professor IIT Indore



Research Area and Highlights (50-75 words):

Agriculture, Climate, Water, AI, and GIS-remote sensing, Climate Extremes, Environment, Wetlands Paper Award.

Prof. Manish Kumar Goyal, a Chair Professor-BIS Standardization at IIT Indore, is a JSPS Fellow, Commonwealth Fellow, Erasmus Fellow, P.E.(Int), Indo-US WARI Fellow, and Inspire Fellow. He is the Dean of Infrastructure Development and has been recognized among the top 2% of scientists globally by Stanford University consecutively in the last 04 years. Prof. Goyal has received numerous prestigious awards, including the Prof S N Gupta Memorial Lecture Award, Best Researcher of the Year Award, and ASCE's Best Theoretical-Oriented Paper Award.

Administration Section and Recruitment Cell

The Administration Section deals with general administration, recruitment, and all HR matters related to the Staff members. It maintains administrative records from recruitment to the relieving of staff members. The administration office functions under the overall guidance of the Dean of Administration, Associate Dean of Administration (HR and Policy), and the Registrar. The Administrative/HR and Recruitment functions are executed by the Deputy Registrar (Administration) and Assistant Registrar, Recruitment Cell, respectively, and a team of five staff members.

The office administers the responsibilities as outlined below.

- Conducting the recruitment process and appointment of permanent/contractual/ Outsourced staff members.
- Joining formalities for staff members.
- Maintenance of service records and staff members' personal files.
- Processing of all service matters, including pay fixation, promotion, leave, LTC, dependent list, deputation, annual increment, extension of tenure for contractual appointments, confirmation, etc.
- Submission of responses to MoE/ RTI Queries and Lok Sabha/ Rajya Sabha questionnaires.
- Monitoring and redressal of grievances received on CPGRAMS and at the Institute Grievance Cell.
- Coordination for the functioning of KV IIT Indore and the Institute Creche Facility.

Non-Teaching Staff positions as of March 31, 2024:

Group 'A'	31
Group 'B'	55
Group 'C'	89

Details of Training Programs/ Awareness Sessions conducted:

Sl. No.	Title of Awareness Session	Trainer/Instructor	Date/Period of Training	Participants	Session Objectives
1	Cyber Security	Shri Jitendra Singh, Superintendent of Police, Cyber Security Cell, Indore	06-11-2023	All non-teaching staff members	Cyber Security and Vigilance Awareness
2	FLY Training Program by CMI (USA), Mumbai Branch	Ms. Uma Oza, Dr Viraz Vora and Mr Sourabh Banerjee	02-12-2023 to 05-12-2023	Non-Teaching Staff member (68 members)	Training program for non-teaching staff members for the development of leadership and soft skills
3	Gender Sensitization	Advocate Kirti Patwardhan	31-01-2024	All non-teaching staff members	Awareness regarding Gender Sensitization and desirable behavioral traits at workplaces

Highlights/ Achievements of the Administration Section and Recruitment Cell

1. The Recruitment and Promotion Policy (2018) has been in operation for five years; hence, a need was felt to review the different aspects of the existing RPN commensurate with the Institute's growth across various academic and research paradigms. A committee was constituted to review the existing RPN and prepare an updated and comprehensive Recruitment and Promotion Policy 2024 that can serve the interests of the non-teaching staff members and contribute to the holistic excellence of IIT Indore. Accordingly, the draft RPP-2024 was prepared for placing in the BoG.
2. During the year, under mission mode recruitment, the Institute recruited 62 employees through direct recruitment, and 05 employees were promoted through the Departmental Promotion Committee (DPC).
3. The recruitment portal was automated with upgraded features to facilitate a faster recruitment process at the Institute.
4. Processing and submission of documents for Land Acquisition for the proposed Deep-Tech Research and Development Centre (DRDC) at Ujjain was completed.
5. Coordination with District Administration, Indore, for the adoption of Govt. Middle School Gajinda was established to extend academic and infrastructure support for societal transformation under the Educational Outreach Program.
6. The empanelment of 9 reputed hospitals and diagnostic centers of Indore for two years at CGHS Rates to provide the best healthcare facilities to the IIT Indore community was complete. More reputed Hospitals will soon be empaneled.
7. The Automation of Leave and Leave Travel Concession (LTC) through the HRMS portal is now in place. Regular non-teaching staff members can apply for leave, joining, and LTC online.

EXCELLENCE AWARDS FOR NON-TEACHING STAFF MEMBERS - 2024

S. No.	Institute Awards 2024 (for Non Teaching, Technical and Supporting Staff Members)	Name of the Non-Teaching Staff
1	Outstanding Performance by Senior Non-Teaching Staff Member (Group A)	Mr. Neeraj Kumar, Assistant Registrar
2	Outstanding Performance by Junior Non-Teaching Staff Member (Group B and C)	1. Mr. Nitin Parashar, Senior Assistant 2. Mr. Harshraj Singh Chouhan, Junior Assistant 3. Mr. Amit Kumar, Junior Assistant
3	Outstanding Performance by Technical Staff Member	1. Mr. Pranjal Shrimali, Junior Lab Assistant 2. Mr. Arif Patel, Junior Lab Assistant
4	Outstanding Performance by Supporting Staff Member	1. Mr. Luwkush Yadav, Attendant 2. Mr. Bhupendra Kher, HVAC Technician



Finance and Accounts

2.1 The year 2023-24 is characterized with the following Income and Expenditure:

(₹ in crores)

S. No.	Particulars	2023-2024 Current Year
1	<u>INCOME</u>	
1.1.	Grants	162.30
1.2.	Academic Receipts	44.17
1.3.	Income from Investment	0.00
1.4.	Interest Earned	17.47
1.5.	Other Income	2.48
1.6.	Total of 1	226.42
2	<u>EXPENDITURE</u>	
2.1.	Staff Payments & Benefits	90.71
2.2.	Academic Expenses	30.28
2.3.	Administrative & General Expenses	30.41
2.4.	Transportation Expenses	0.79
2.5.	Repairs and Maintenance	10.12
2.6.	Depreciation	45.47
2.7.	Other Expenses	8.45
2.8.	Total of 2	216.23
3	Balance being excess of Income over Expenditure	10.19

2.2 The position relating to creation of capital assets is as under:

(₹ in crores)

S. No.	Particulars	2023-2024		
		HEFA	Other Purpose	Total
2.1	Opening Balance of Grant-in-Aid Plan	25.73	3.33	29.06
2.2	Grant received during the year	40.57	182.77	223.34
2.3	Deficit under OH-35/OH-31/OH-36 being added from IRG	0.00	9.27	9.27
2.4	Total funds available at the disposal of the Institute	66.30	195.37	261.67
2.5	Grant utilized for Revenue Expenditure	0.00	154.69	154.69
2.5.1	Interest on Term Loan for HEFA	7.61	0.00	7.61
2.5.2	Repayment of HEFA Loan (75%)	47.12	0.00	47.12
2.6	Plan Grant after adjusting utilization for Income & Expenditure	11.57	40.68	52.25
2.7	Utilized for developing infrastructure, Buildings & Works & for Equipment's, and other Assets	0.00	40.62	40.62
2.8	Unspent balance as on 31.03.2023	11.57	0.06	11.63

2.3 Funds availability and status of utilization thereof:

During financial year 2023-24, against sanction of Revised Detailed Project Report (DPR) of ₹ 1,911.12 crores, a sum of ₹ 223.34 crores (For Recurring & non-recurring Purpose ₹ 182.77 crores + For HEFA Purpose ₹ 40.57 crores) were released by Ministry of Education and Deficit under OH-35/OH-31 are being added from IRG credited to Grant-in-Aid ₹ 9.27 crores. The Internal income of the Institute reckoned during the year was ₹ 39.14 crores, after adjusting payment of 25% HEFA principal loan from IRG (Institute share) ₹ 15.71 crores and after considering the unspent balance as on 01.04.24 of ₹ 11.63 crores.

A sum of ₹ 40.62 crores have been utilized for the creation of Capital assets and a sum of ₹ 209.42 crores (For Recurring purpose ₹ 154.69 crores + For HEFA purpose ₹ 54.73 crores) (which excludes Depreciation of ₹ 45.47 crores) was incurred on recurring expenditure out of the grant at the disposal with the Institute. Further Internal Revenue Generation for the year amounting to ₹ 39.14 crores transferred to Corpus Fund after adjusting repayment of HEFA loan principal amount (25% institute share) and deficit under OH-35/OH-31.

2.4 Reforms, measures and initiatives undertaken during the year include:

During the year under review the following reforms, measures Initiatives were initiated from Finance & Accounts :

2.4.1 Public Finance Management System (PFMS) is a platform for all DBT payments.

2.4.2 Institute has developed payment gateway on IIT Indore website with State Bank of India, Canara Bank and HDFC Bank Ltd as channel partner bank for the facility.

2.5. Education assistance for children:

During the financial year 2023-2024, the Institute reimbursed a sum of ₹ 80,09,684/- to 213 faculty and staff members against for education assistance according to Government of India norms.

2.6. Transport facilities for staff members:

Transport facilities to students/ faculty members/ staff members have been provided for the benefit of movement of staff from institute campus to Indore city at subsidized rates as the IITI Campus is located far away from Indore city.

2.7. Advances:

During the reporting year, a total sum of ₹ 61.86 lakhs was sanctioned as personal advances for the following.

S. No.	Nature of Advance	No. of Beneficiaries	Amount Sanctioned	Amount outstanding as of 31.03.2024
			(in ₹)	(in ₹)
1	House Building Advance	03	61,86,000	1,44,13,781
2	Car Advance	-	-	54,000
3	Personal computer advance	-	-	2,04,086
		Total	61,86,000	1,46,71,867

2.8 Insurance:

Group Medical Insurance cover of ₹ 2.50 lakhs is provided for In-Patient treatment and Group Personal Accident cover of ₹ 5.00 lakhs is provided to all Students of the Institute. Expenses towards insurance is ₹ 30,61,824/- during financial year 2023-24. Care of Out-patient treatment is taken care mainly by the Health Center internally.

2.09 Fellowships/scholarships:

2.09.1. To Research Students:

During financial year 2023-24, Institute has disbursed Fellowships for following category of Students:

S. No.	Category of Students	No. of Student	Fellowship (Per Month)
01.	Institute Funded through MOE grant-PHD	216	
02.	DST Funded (PHD)	49	JRF- ₹ 35,000/-
03.	CSIR Funded (PHD)	72	SRF- ₹ 42,000/-
04.	UGC Funded (PHD)	163	
05.	Institute Funded through MOE grant – M. Tech.	183	₹ 12,400/-
06.	Institute Funded through MOE grant – M. S. Research	47	₹ 12,400/-
07.	DBT – NCCS Pune	5	₹35,000/-

Merit cum Means Scholarship:

Institute has disbursed ₹ 5,92,498/- as Merit cum Means Scholarships to B. Tech & MSc. Students who are meeting the eligibility criteria set by Institute under various categories.

Remission of Tuition Fees to Depraved Class of Students:

Institute has Remitted/ disbursed ₹ 7,22,24,292/- as Remission of Tuition fees of Under Graduate Students of Depraved Class admitted in Academic Session 2023-24 as per Ministry of Education letter F. No. 24-2/2016 TS 1 dated April 04, 2016.

Summary of the Balance Sheet and Income & Expenditure is as under:

A. BALANCE SHEET AS AT 31ST MARCH'2024

(Amount in ₹)

SOURCES OF FUNDS	SCHEDULE	AS AT 31-03-2024	AS AT 31-03-2023
Corpus/Capital Fund	1	11,08,08,82,493	10,19,57,70,858
Designated/Earmarked/Endowment Funds	2	19,73,99,306	18,32,01,188
Current Liabilities & Provisions	3	4,27,89,97,858	3,52,88,47,052
TOTAL		15,55,72,79,657	13,90,78,19,099
APPLICATION OF FUNDS			
FIXED ASSETS	4		
A. Tangible Assets		9,90,00,70,903	9,98,97,54,150
B. Intangible Assets		5,68,23,315	4,93,61,789
C. Capital Work-In-Progress		46,94,19,393	15,69,10,733
INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS	5		
Long Term			
Short Term		5,00,000	5,00,000
INVESTMENTS - OTHERS	6	1,00,000	1,00,000
CURRENT ASSETS	7	3,17,44,57,862	3,12,97,50,989
LOANS, ADVANCES & DEPOSITS	8	1,95,54,58,184	58,14,41,438
TOTAL		15,55,72,79,657	13,90,78,19,099

B. INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH'2024

(Amount in ₹)

PARTICULARS	SCHEDULE	2023-2024	2022-2023
(A) INCOME			
Academic Receipts	9	44,16,74,522	33,33,16,444
Grants & Subsidies:	10	1,62,30,28,529	1,36,23,48,647
i. Grant Utilised for payment of Interest on Term Loan from HEFA		7,61,04,241	
ii. Grant Utilised for Revenue Expenditure		1,45,42,32,791	
iii. IRG Utilised for Revenue Expenditure		9,26,91,497	
Income from Investments	11	-	-
Interest Earned:			
- On Corpus/IRG	12	17,47,36,151	10,90,36,106
Other Income	13	2,00,60,371	1,89,66,371
Prior Period Income	14	47,43,114	41,61,577
TOTAL (A)		2,26,42,42,990	1,82,78,29,146
(B) EXPENDITURE			
Staff Payments & Benefits (Establishment Exp.)	15	90,71,19,849	72,33,32,819
Academic Expenses	16	30,27,68,454	22,77,13,257
Administrative and General Expenses	17	30,40,56,625	24,10,85,925
Transportation Expenses	18	78,61,236	58,36,035
Repairs and Maintenance	19	10,12,21,284	8,40,64,478
Finance Costs	20	7,61,69,632	12,53,37,645
Depreciation	4	44,47,32,517	43,63,05,208
Other Expenses	21	11,02,025	7,50,641
Prior Period Expenses	22	72,69,340	97,10,591
TOTAL (B)		2,16,23,00,961	1,85,41,36,598
Balance being excess of Income over Expenditure (A-B)		10,19,41,629	-2,63,07,453
Less: (I) Deficit under OH-36 being Utilized from IRG		-	-1,29,49,699
(ii) Deficit under OH-31 being Utilized from IRG		-8,58,44,355	-1,88,58,067
(iii) Deficit under OH-35 being Utilized from IRG		-68,47,142	-
(iv) Payment of 25% HEFA Principal Loan from IRG (Institute Share)		-15,70,64,442	-16,44,95,000
(iv) Transfer to Corpus fund towards Internal Revenue Generation of 2022-2023 (2021-22) (See Significant Accounting Policies - point no. 8.1)		-39,14,58,122	-26,91,77,732
Total		-53,92,72,433	-49,17,87,951
Add: Amount transfer from Capital Fund			
- Depreciation		45,47,32,517	-
- Leave Encashment liability		3,59,77,683	-
- Gratuity Liability		8,85,62,233	-
Balance being Surplus (Deficit) Carried to Capital Fund		-53,92,72,433	-49,17,87,951

Material Management Section (MMS)

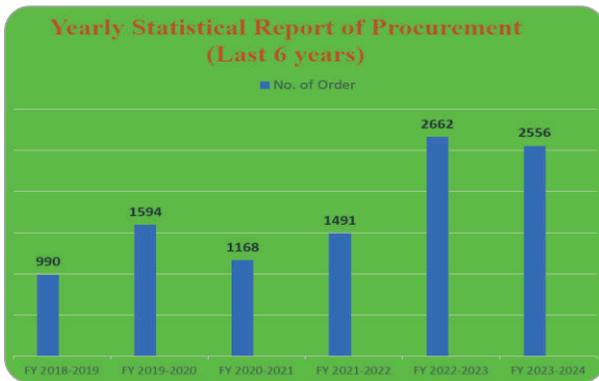
Statement of activities of Material Management Section for the Financial Year 2023-2024 till March 31, 2024

SN	Details	2023-24	Value (₹)
1.	Total Indent created	Total indents- 1813 Non-Project-1275 Project- 538	Total Value: ₹ 80,08,07,813/-
2.	Total Purchase Order Issued	Total Nos. 2556 Detailed bifurcation: <ul style="list-style-type: none"> • Total Non-GeM Order – 1101 nos. • Total GeM Order – 574 nos. • GeM Direct Order – 881 nos. • Non-GeM Direct Purchase order – 3488 <i>57% of Orders were placed through GeM</i>	Total Po Value ₹ 49,68,53,360/- Detailed bifurcation: <ul style="list-style-type: none"> • Purchase order (LPC/CPMP) ₹ 26,66,78,368/- (Non GeM) • e-Procurement on GeM ₹ 21,93,80,491/- • Direct Purchase through GeM ₹ 1,07,94,501/- • Total procurement on GeM ₹ 23,01,74,992/- • Direct purchase through Non-GeM ₹ 4,25,47,667/- <i>46.32% of total order value placed on GeM</i>
3.	Total Indigenous Orders	2542 nos.	₹ 48,78,11,192.00
4.	Total Import Orders	14 nos.	₹ 90,42,168.00
5.	Prebid Meeting	92 nos.	Pre-bid meetings have been arranged within multiple tender processes to address the scope of supply, technical specifications, evaluation criteria, and queries from potential bidders.
6.	PBG Returned (Expired) Central Stores	54 nos.	₹ 10,31,06,977/-
7.	Total stock entry (Consumable)	4366 Nos.	₹ 13,21,12,123/-
8.	Total Stock Entry (Non-Consumable/ Assets)	2874 Nos.	₹ 41,97,91,263/-
9.	Total Buy Back Material/ Scrap Sale/ Loading/ Unloading charges recovered	44 Nos.	₹ 3,77,278/-

S.N.	Details	Remarks
1.	Pre-bid Meeting	The pre-bid meeting promotes transparency, fairness, and competition in the bidding process. They provide a platform for prospective bidders to seek clarification on project requirements, ensuring a level playing field for all participants. Accordingly, IIT Indore has conducted 92 pre-bid meeting in his tenders in FY 23-24 results in transparency and open communication to the bidders.
2.	Representation Opportunity to the disqualified bidders	IIT Indore allows disqualified bidders to represent their cases, clarify any misunderstandings, and potentially rectify errors, ensuring that qualified bidders are not unfairly excluded in the tenders. This approach upholds the principles of transparency and fairness in our procurement system.

3.	Procurement within the deadline for project procurement	<p>Meeting the procurement deadlines for a project is of paramount importance, as it ensures the timely availability of essential materials, services, and equipment needed for project execution.</p> <p>Accordingly, IIT Indore have initiated the timebound procurement process for project requirements to formulate the customized procurement cycle to meet the requirement of the project procurement.</p>
4.	Capacity Building	<ol style="list-style-type: none"> ERP 2.0 – ERP 2.0 is introduced in which whole process is Online from Indent creation (all) to the placement of the order (till 5 Lakh). Training / Handholding – Total 08 training sessions was conducted by GeM facilitators, Internal ERP Team, ARMMS and Registrar Sir. Handholding sessions on Government e-Marketplace (GeM)- Handholding sessions are conducted for all stakeholders- indents, dealing assistant and office staff. These sessions aim to provide guidance and support to ensure effective navigation and utilization of the GeM platform for procurement and related activities. Also the GeM Help Desk and Training Desk is created in MMS for above sessions.
5	Scanning and Digitization of	<p>Till date total more than 27.15 Lakhs pages has been Digitized and can be retrieved by Data Management Software.</p> <p>The process of shredding the records as per Record retention schedule has been initiated.</p>

Best Practises:



Research and Development (R&D)



IIT Indore envisages promoting inter-disciplinary research focusing on basic and applied research, technology development, and innovation. This vision has helped the institute excel in all spheres of science, engineering, humanities, and social sciences. A key competence of IIT Indore is in the research-driven academic Program, as it forms a core component of undergraduate and postgraduate teaching. IIT Indore has consciously promulgated the idea of involving undergraduate students in forefront research projects. This led to the initiation of a formal undergraduate research scheme, Promotion of Research and Innovation for Undergraduate Students (PRIUS). Research at IIT Indore has been recognized at both international and national levels. Faculty members and scientists are actively involved in key international projects and joint collaborations with research organizations in Japan, South Korea, the Russian Federation, Portugal, France, Germany, the UK, the USA, and many others.

Key Achievements of Research & Development at IIT Indore

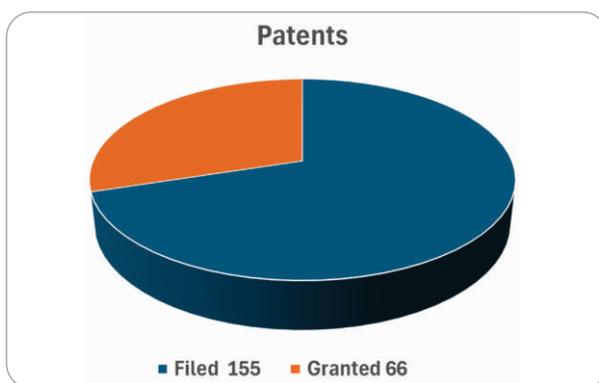
- 617 R&D projects from different funding agencies.
- 423 consulting projects to date.
- Over 7488 reputed publications.
- A high-impact project worth Rs. 6 Cr was sanctioned to the Institute for the Narmada River Basin Management from the Ministry of Jal Shakti.
- 26 national and international conferences and workshops were conducted by the Institute.
- 51 YFRSG (Young Faculty Research Seed Grant) was provided to young faculties of IIT Indore worth Rs. 5 Cr as bridge funding by the institute before the first regular grant from the external funding agencies.
- 6 Dream Lab projects and 5 PRIUS projects provided to young faculties of IIT Indore worth Rs. 50 Lakh by the institute aims to impart high-end research training in cutting-edge research and to work closely with undergraduate students enrolled at IIT Indore.
- 5 international fellows were facilitated by the Institute under different schemes executed by the Federation of Indian Chambers of Commerce and Industry (FICCI) and the Indian National Science Academy (INSA).
- 7 Best Technology & 10 Best Research Paper Awards were provided by the institute to the students and faculty members with a contingency amount of Rs. 2 Lakh for each award.
- 6 SPARC projects worth of Rs. 3.6 Cr is being executed by the Institute.
- IIT Indore is selected by the Department of Telecommunication (DoT) to set up one hundred 5G Use case labs to facilitate the development, and experimentation of 5G applications in various socioeconomic verticals.
- The Charak Center for Digital Healthcare is established at IIT Indore to promote translational research in the domain of digital healthcare for India.
- Capacity building programs were conducted by IIT Indore in collaboration with different institutes to facilitate

intense hands-on training sessions for preparing candidates for industry-ready technological aspects in Unmanned Aircraft Systems (UAS) SwaYaan (Drone and related Technology) and related areas.

- The IPR Awareness workshop on Research Protection and Dissemination: IPR Fundamentals and Management in Academia was conducted by the Institute.
- The Institute signed an MOU with Larsen & Toubro Limited for the establishment of L&T’s smart grid solution center of Excellence, which aims to prepare an Energy Master Plan for IIT Indore and to design graduate-level courses for smart grid.
- The institute secured International funding from the Royal Academy of Engineering, Bright Ice Initiatives (BII) and Healthy Climate Initiatives (HCI), International Society for Neurochemistry (ISN), and International Society for Pediatric and Adolescent Diabetes (ISPAD).
- A quarterly research magazine of IIT Indore, Volume 1 (containing four issues) of Research Spectrum, was released last year. Research Spectrum is a compilation of graphical abstracts of selected research work by the faculty and students of IIT Indore.



- 66 patents have been granted against 155 Filed patents so far, wherein 32 were granted in the financial year 2023-2024.
- 52 IDF applications have been approved under SIPPT (Scheme for Intellectual Property Protection and Technology Translation) by the institute to support the faculty members by providing partial financial support for each patent up to 25,000/- INR for filing Indian Patent.
- **BIS Chair Professor:** Prof. Manish Kumar Goyal, Department of Civil Engineering, is appointed as BIS Chair Professor for the Bureau of Indian Standards to develop collaborative activities in the field of Standardization and Conformity Assessment on the basis of equality and reciprocity.
- **IPR Chair Professor:** Prof. Ruchi Sharma, Professor, School of Humanities and Social Sciences, is appointed as IPR Chair Professor under the Scheme for Pedagogy & Research in IPRs for Holistic Education and Academia (SPRIHA), formulated by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India.



- The Centre for Translation Research (CTR) was established to formalise the translation research ecosystem and extend the commercialization of technology from research to product stage. Given are the achievements of CTR (R&D):
- 3 technologies have been licensed to industries, 8 technologies are being incubated at IITI-ACE Foundations.
- 10-15 positions to leverage the TRL of technologies with an annual ceiling of Rs. 01 Crore is sanctioned by the institute for Translation Research Fellowship.
- 8 Translational Research Fellowships have been awarded to encourage Lab to Land ecosystem.

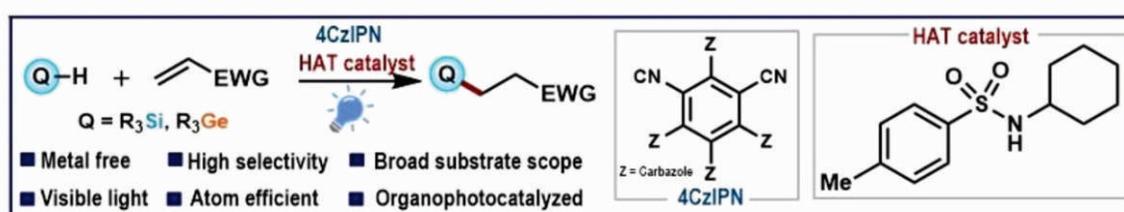
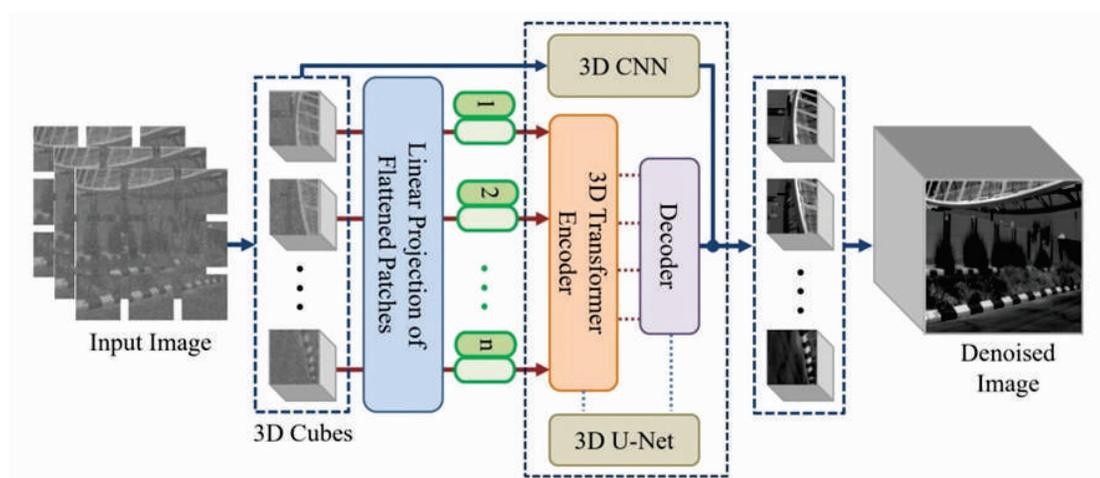
S. No.	Name of the Inventors/Mentor	Title of the Technology	Domain	Current TRL
1	Mr. Rahul Chaurasia/ Prof. Anirban Sengupta	Design space exploration of secure optimal K-cycle fault tolerant data path processor with embedded encrypted protein molecular biometric during high level synthesis of integrated circuits (ICs)	Hardware Security	05
2	Mr. Gyanesh Patnaik/ Dr. Abhishek Rajput	Multilayer Hybrid Composite Armor System	Material for Defense	03
3	Mr. Chandrabhan Patel/ Prof. Shaibal Mukherjee	IoT enabled Ultrasensitive and Selective Gas Sensor	Smart sensors & Environmental Sustainability	06
4	Mr. Anikeit Sethi/ Prof. Aruna Tiwari	Intelligent surveillance system for Highway using novel deep-learning method	Smart City Infrastructure	04
5	Mr. Sanchit Gupta/ Prof. Sandeep Chaudhary	GOBAiR – a novel cow dung based foaming agent for developing sustainable light weight construction materials	Smart City Infrastructure & Environmental Sustainability	04
6	Mr. Mayank Kumar Singh/ Dr. Dharendra K. Rai	Design and Development of Hybrid Sodium-Ion Capacitor for Electrochemical Energy Storage Applications	Battery, Energy Storage	03
7	Mr. Rahul Dev Mishra/ Prof. Mukesh Kumar	Nanophotonic Devices for Switching and Sensing Applications	Smart sensors	03
8	Mr. Milan Jena/ Prof. Biswarup Pathak	Development of an Artificially Intelligent (AI) Nanopore for Rapid DNA Sequencing	Artificial Intelligence based sequencing	03



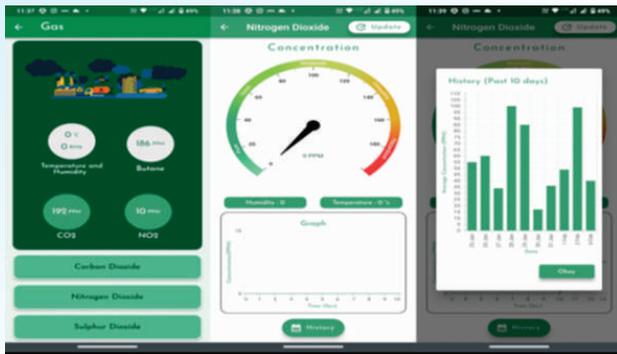
- 'A Handbook of Ideas, Innovations and Technologies of IIT Indore' has been released which compiles approximately 140 technologies of IIT Indore in various domains.
- To provide up-scaling support to the faculty for their industry-ready ideas/technology, the Translational Research Up Scaling Scheme (TRUSS) has been launched. Under this scheme, up to Rs 05 Lakhs can be provided for Equipment & Consumables.

Research Work:

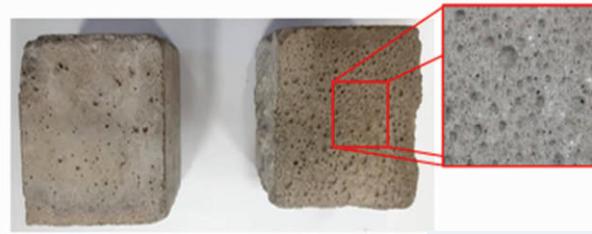
- Sustainable organic photocatalysis for Site-Selective hydrazo coupling of Electron-Rich arenes.
- Sulfonamide as photoinduced hydrogen atom transfer catalyst for organophotoredox hydrosilylation and hydrogermylation of activated alkenes.
- Safety assessment of underground steel pipelines with CFRP protection against subsurface blast loading.
- UNFOLD: 3-D U-Net, 3-D CNN, and 3-D Transformer-Based Hyperspectral Image Denoising.
- Development of a Compact, Cost-Effective Photoacoustic Spectral Response measurement system for Biomedical Applications.
- AFIBRI-NET: a lightweight convolution neural network based atrial fibrillation detector.
- Digital Cartography and Feminist Geocriticism: A case study of the Marichjhapi massacre.
- On starlikeness of regular Coulomb wave functions.
- Parametric Investigation on laser annealing of polyimide on improving the characteristics of NiTi SMA-based bimorph towards the development of microactuators.
- Platinum-adsorbed defective 2D monolayer boron nitride: a promising electrocatalyst for O₂ reduction reaction.
- Energy flow in ultra-high energy cosmic ray interactions as a probe of thermalization: A potential solution to the muon puzzle.

**Technologies Developed:**

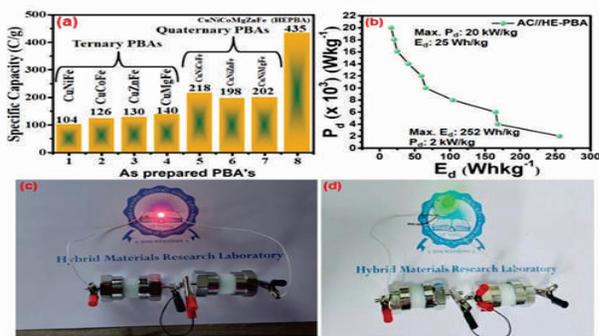
- Design space exploration of secure optimal K-cycle fault tolerant data path processor with embedded encrypted protein molecular biometric during high level synthesis of integrated circuits (ICs)
*Developed 'SOFTDEEP' which is tested and approved by "CAD for Assurance" sponsored by IEEE CEDA, University of Florida (UF), and IEEE HSTTC.
- IoT enabled Ultrasensitive and Selective Gas Sensor
*Developed technology is being incubated in IITI-ACE foundation in startup 'QuanTech'
- Intelligent surveillance system for Highway using novel deep-learning method
*Development Software (video Incident Detection system, VIDS) is being tested by Devaditya Technocrats (a company working for NHAI) for the real-time monitoring of Anomaly.
- GOBAiR – a novel cow dung based foaming agent for developing sustainable light weight construction materials
*With the publicizing of this technology, Industries (viz. Adani cements, Cowlogy, IBITF etc.) have expressed interest in licensing of the technology.



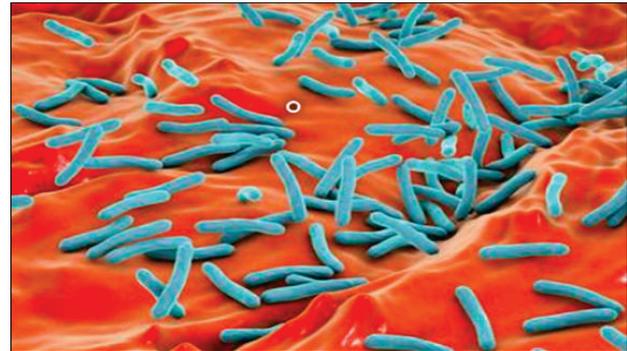
IoT enabled Ultrasensitive and Selective Gas Sensor



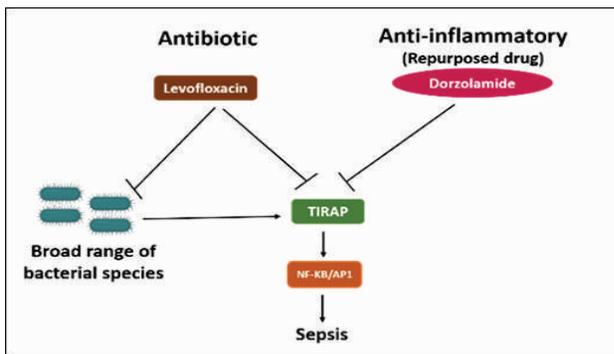
GOBAiR based light weight concrete



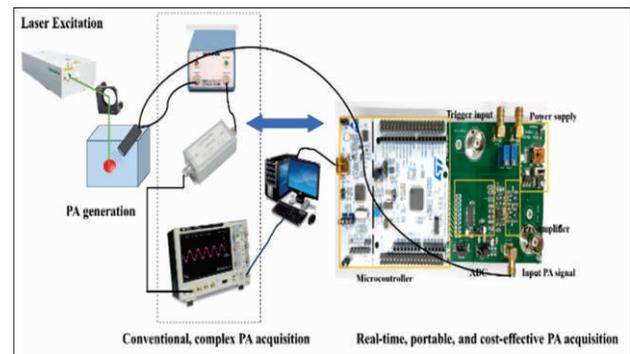
Hybrid Sodium-Ion Capacitor for Electrochemical Energy Storage Applications



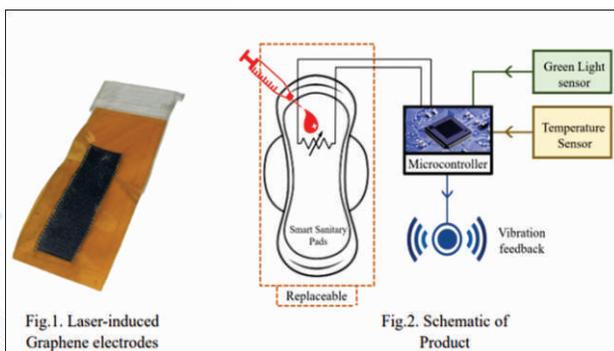
New therapeutic tools for the treatment of tuberculosis and drug resistance tuberculosis



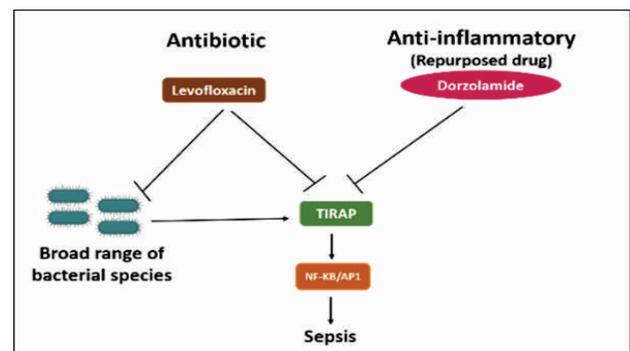
AI Based Soyabean-Seed Viability Sensor for Assessment of Seed-Quality



Fast cancer screening device for early-stage cancer diagnosis, using a quantitative photoacoustic spectral response technique



IoT-enabled smart absorbent material (Laser Induced Graphene) and Sanitary device



A composition for sepsis and method thereof

BEST TECHNOLOGY AWARD - 2024

Title of the Technology	Name of the Inventors/Mentor
Ultrasonic Atomizer-based Fabrication of Silk Nano-particles For Theranostics	Dr. Sharad Gupta, Abhijeet Joshi, Saumya Jaiswal
A composition for sepsis and method there of	Dr. Mirza Baig, Rajat Atre, Rahul Sharma
Delivery of new therapeutic tools for the treatment of tuberculosis and drug resistance tuberculosis	Dr. Chelvam Venkatesh, Prof. Avinash Sonwane, Premansh Dudhe, and Mena Asha Krishna
"IoT-enabled smart absorbent material (Laser Induced Graphene) and Sanitary device	Dr. Palani Iyamperumal Anand, Kailaash Pandiyan, Aditi T, Pragya Singh, Kanishka Goyal, Ayushi Agrawal, DJ Mistry
AI Based Soyabean-Seed Viability Sensor for Assessment of Seed-Quality	Prof. Vimal Bhatia
GOBAiR – a novel cow dung-based foaming agent for developing sustainable lightweight construction materials	Prof. Sandeep Chaudhary, Sanchit Gupta
Fast cancer screening device for early-stage cancer diagnosis, using a quantitative photoacoustic spectral response technique	Dr. Srivathsan Vasudevan, Suhel Khan



International Relations

IIT Indore has proven its effectiveness in internationalizing its teaching and research worldwide with partnerships in higher education. IIT Indore is dedicated to offering top-tier research and academic amenities, serving as a hub for technological innovation, and fostering Indian culture, heritage, and languages. To achieve these objectives, the Institute is working with partners across the globe to collaborate on research opportunities and the development of institutions. The Institute aims to create a Centre of Excellence in Cutting-Edge Research Areas. It will serve as a hub that integrates research, education, and practice to address critical problems of today's society.

At present, the Institute has 100+ MoUs signed across the globe, a developed network with 400+ foreign universities, 35+ Bilateral Research Grants with foreign institutes, 200+ International Publications, 80+ GIAN Projects, 28+ Projects SPARC, VAJRA, and ASEM-DUO.

IIT Indore has recently hosted many international students in degree and exchange programs from Russia, Cameroon, Ethiopia, Nepal, and other SAARC & ASEAN, African, and Middle East regions.

Recent collaborations across the globe:

Institution	Country
Institute of Metallurgy and Materials Science of Polish Academy of Sciences (IMMSPAS)	Poland
Taipei Economic and Cultural Centre (TECC) India	Taiwan
University of Windsor	Canada
Nagaoka University of Technology	Japan
Julius-Maximilians University Würzburg	Germany
Purdue University West Lafayette Indiana USA	USA
The University of Sussex Brighton UK	UK
National Research Lobachevsky State University of Nizhny Novgorod	Russia
German Academic Exchange Service, DAAD (Deutscher Akademischer Austauschdienst)	Germany
Universidade Lusófona (ULusofona)	Pol
Óbuda University, Hungary	Hungary
University of Hradec Králové, Czech Republic	Czechia
and many other world-renowned organizations.	



IIT Indore-International Partners:

German Academic Exchange Service, DAAD
Study In India
Doctoral fellowship in India for ASEAN
Indian Council of Cultural Relations
Nepal Scholarship
Heritage Network
Shastri Indo-Canadian Institute
The Association of Commonwealth Universities
Erasmus+
ASIA-AFRICAN: 33 Countries
INDO-ETHIOPIA NETWORK: 45 Ethiopian Universities
Shraman Foundation, US



Academic Pursuits

IIT Indore hosted international students/faculties/researchers under various academic/research programs such as PhD Co-supervision, Masters Exchanges, CV Raman Fellowship, India Science and Research Fellowship (ISRF), ASEAN-India Research Training Fellowship (AI-RTF) etc. Every year, IIT Indore admits international students through various government schemes such as Study in India (SII), Indian Council for Cultural Relations (ICCR), the Association of Southeast Asian Nations (ASEAN), SAARC Finance-RBI, and the Nepal Scholarship. In connection with the pursuit of academic/research activities, IIT Indore has launched various international programs as below:

1. **Short-term Collaborative Research Programs for PhD Students:** The purpose or intention of these programs is to promote research, and teaching, and to build a network through short-term visits of PhD students of foreign institutions to IIT Indore and vice-versa.
2. **Semester Exchange Program UG/PG Students:** The IR office has recently launched a Program that will provide international exposure to UG/PG students of IIT Indore and allow students from foreign institutions to pursue a semester at IIT Indore.
3. **Mobility Grant for International MoU Coordinator:** This grant supports IIT Indore faculty in promoting bilateral research collaborations by organizing interactive sessions, online/offline talks, joint conferences, workshops, and joint PhD student supervision with the partner universities. These efforts aim to enhance international cooperation and the institute's global outreach.
4. **International Travel Grant:** This initiative aims to provide faculty members from IIT Indore with the opportunity to foster collaborations and partnerships with foreign universities, thereby enhancing global academic connections and research opportunities.

Recent collaborations across the globe:

Inbound Programme	Awardees	Home Country
Semester Exchange Program UG/PG Students	Ms. Zinu Jemberu	Ethiopia
	Mr. Worku Aweke Teso	Ethiopia
	Mr. Abrham Teshale Tegegn	Ethiopia
	Bezabih Kassie Mengist	Ethiopia
	Mr. Tewodros Nega Yahuala	Ethiopia
Short-term Collaborative Research Programs for PhD Students	Mr. Beruna Baisa	Ethiopia
	Mr. Girma Dejene	Ethiopia
	Mr. Tesfaye Ganeti Kenate	Ethiopia
	Mr. Abdeta Leta Adulla	Ethiopia
	Mr. Ivan Malkov	Russia
	Mr. Joemer Adorna Jr	Philippines
	Mr. Ram Prasad Neupane	Nepal
	Ms. Koushika Seelanatha	Sri Lanka
Mr. Shinjae lee	US	
Outbound Programme	Awardees	Host Country
Semester Exchange Program UG/PG Students	Ms. Swagatakshmi Dhali	Germany
	Mr. Sayan Doloi	France
	Ms. Akruiti taori	Sweden
	Ms. Riya Sehwat	Germany
	Ms. Kumari Sunita	France
	Ms. Monika Yadav	USA
	Ms. Poonam Suresh Deshmukh	Singapore
	Ms. Sidhi G Ramer	Japan
	Mr. Zahir Abbas	South Korea
Short-term Collaborative Research Programs for PhD Students	Mr. Anup Kumar Gupta	USA
	Ms. Astha Sharma	Thailand
	Mr. Akhila Gouda	France
	Mr. Ummed Singh	South Korea
	Mr. Dhivya Prabhu K	Romania
Mr. Sugato Panda	Australia	

Other academic programmes (Inbound):

Inbound Programme	Awardees	Home Country
CV Raman Researcher programme	Dr. Bene Kouadio	Ivory coast
	Dr. Kouakou Ahoutou Paul	Ivory coast
	Dr. Solomon Abebe, University of Gondar	Ethiopia
ISRF Researcher programme	Dr. Isuru Dasanayake, University of Peradeniya	Srilanka
	Dr. Thanongsak Imjai, Walailak University	Thailand
AI-RTF	Mr. Arjun Hasibuan	Indonesia
	Mr. Myo Min Htwe	Myanmar
Joint-Co-supervision Program	Mr. Yonas Etafa Tasisa	Ethiopia
	Mr. Tadesse Beyene Hulle	Ethiopia
	Mr. Habtamu Melesse	Ethiopia

Name of the Grant by IR	Awardee's Name	Department
Mobility Grant 2023-24 Host University - Obuda University, Hungary	Dr. Sanjeev Singh	Mathematics
Mobility Grant 2023-24 Host University - Carleton University, Canada	Dr. Gourab Sil	Civil Engineering
International travel Grant 2023-24 Host University - University of Bologna, Italy	Dr. Saurabh Das	Astronomy Astrophysics and Space Engineering
International travel Grant 2023-24 Host University - Technical University of Munich, Germany	Prof. Kiran Bala	Bioscience and Biomedical Engineering
International travel Grant 2023-24 Host University - University of Split Croatia	Prof. Sk. Safique Ahmad	Mathematics
International travel Grant 2023-24 Host University - Khon Kaen University, Khon Kaen, Thailand	Prof. Biswarup Pathak	Chemistry
International travel Grant 2023-24 Host University - Coventry University, United Kingdom	Dr. Ashok Kumar Mocherla	Humanities and Social Sciences
International travel Grant 2023-24 Host University - University of Zilina, Zilina, Slovakia	Prof. Vimal Bhatia	Electrical Engineering
International travel Grant 2023-24 Host University - ELDP, Berlin Brandenburg Academy of Sciences and Humanities, Germany	Dr. Thapasya J	Humanities and Social Sciences
International travel Grant 2023-24 Host University - Curtin University, Perth, Australia	Prof. Neminath Hubballi	Computer Sciences and Engineering
International travel Grant 2023-24 Host University - University of Oklahoma, USA	Dr. Parimal Kar	Bioscience and Biomedical Engineering
International travel Grant 2023-24 Host University - Loughborough University, UK	Prof. Shanmugam Dhinakaran	Mechanical Engineering

International Outreach

International Outreach is a mechanism to facilitate the exchange of knowledge and skills between India and other countries, primarily through collaboration between Indian universities and public institutions/organizations abroad. We have organized several webinars and talks by eminent speakers from various streams in online/offline mode this year. Some major activities are as follows:

(i) **IRTG-DFG workshop:** The International Research Training Group (IRTG) workshop entitled "Deciphering Respiratory Bacterial Niches and Molecular Mechanisms: Unraveling the dynamic interactions between bacterial pathogens and host organelles during infection" was organized at IIT Indore in collaboration with Julius-Maximilians-Universität Würzburg from April 11-13, 2024.



(ii) **German Research Day Conference:** IIT Indore hosted the German Research Day Conference on Monday, 15th April 2024. Representatives from several German Funding organizations and German Higher Education Institutions/Universities gave presentations on funding opportunities, bilateral cooperation, and mobility programs for faculties as well as Ph.D. and Postdoctoral students.

(iii) **DAAD-Bilateral Faculty Exchange Program:** Based on the MoU signed with DAAD, bilateral research cooperation between German universities and IIT Indore has been offered to the faculty members of IIT Indore.



(iv) **iHED Workshop:** International Relations, This year, IIT Indore, in collaboration with the German Academic Exchange Service (DAAD) organized the iHED workshop on "Internationalization at Indian Higher Education institutions- structures and services". In this event, Heads and Deans of international offices of more than 25 Higher Education Institutes of India participated and deliberated on the best practices and opportunities for collaboration between Indian Higher Education Institutes and German Universities.



- (v) **DBT meeting:** IIT Indore hosted the 1st meeting of Sectoral Expert Committee on Bio-manufacturing of Precision Biotherapeutics- Monoclonal Antibodies on 11th Aug 2023. The Department of Biotechnology (DBT) has taken a major initiative on Bio-manufacturing titled "Fostering High Performance Bio-manufacturing-An integrated approach towards promoting circular economy for Green, Clean and Prosperous India and Precision Biotherapeutics- Monoclonal Antibodies is a vital sector under this program.
- (vi) **Establishment of Taiwan Education Centre:** IIT Indore and DAVV Indore signed a Memorandum of Understanding (MoU) with the Taipei Economic and Cultural Centre (TECC), Taiwan, on April 3, 2024, for the establishment of the Taiwan Education Centre.

The MoU signing ceremony was held at IIT Indore. His Excellency Mr. Baushuan Ger, Ambassador, TECC, Prof. Renu Jain, Vice-Chancellor, DAVV, and Prof. Suhas Joshi, Director, IIT Indore graced the occasion.

This is the 1st Taiwan Education Centre established in Madhya Pradesh, India. Through this Education Centre, Education Division TECC, will facilitate disseminating knowledge and teaching Mandarin Language. This centre shall liaison between IIT Indore and DAVV with Taiwan higher education institutes and industries to build up academic and research collaborations.



Eminent international visitors at IIT Indore

Every year, IIT Indore hosts many eminent visitors from various countries. Here are some of the recent visitors.

Visitors	Purpose of Visit
Dr. Phillipe Maurin, the Attaché for Scientific and Academic Cooperation for West India at the Embassy of France / French Institute in India.	To deliver a session about the "Higher Education in France" and details on student scholarships, internships, and PhD programs is scheduled on Wednesday, January 31, 2024
Dr. Keshav Singh, National Sun Yat-sen University, Taiwan	MoU signing ceremony with National Sun Yat-sen University, Taiwan, held on January 18, 2024
Dr. Siman Fraser and Dr. Anita Singh, Robert Gordon University Aberdeen, Scotland	To explore the opportunities for collaboration for various research and academic activities
Prof. Eva Gerharz, Professor of Sociology & Head of Fulda Graduate Centre of Social Sciences, Germany	To deliver a lecture at the School of Humanities and Social Sciences to explore the opportunities for collaboration in various research and academic activities between the two institutions.
Ms Elaine Tan, Associate Dean (Academic Programmes Business), Mr Alson Tan Guan Chew, Senior Manager, International Marketing (Academic Programmes Business) Mr Benjamin Tey, Assistant Senior Manager, Student Recruitment and Business Development	To invite IIT Indore to partner for the Young Fellowship Program 2024, the possibility of a 3+1+4 collaboration and other avenues.

Prof. Zhiguo Ding	Visiting Professor under SPARC Project
Dr. Markus Gößler from University of Chemnitz	Paired Early Career Fellowship in Applied Research supported by the Indo-German Science & Technology Centre
Dr. Reiser Oliver, University of Regensburg, Germany Prof. Dominik Horinek, University of Regensburg, Germany Prof. Andreas Kirsching, Leibniz University of Hannover Dr. Masanori Shigeno, Tohoku University Prof. Werner Kunz, University of Regensburg, Germany	INDO-GERMAN conference on "Sustainable Chemistry-2024", Department of Chemistry
Prof. Ilian T Iliev, Department of Physics & Astronomy, University of Sussex, UK	Astronomy Colloquium
Dr. N.D. Ramesh Bhat, International Centre for Radio Astronomy Research, Curtin University, Australia	Astronomy Colloquium
Dr. T. Kubota, Japan Aerospace Exploration Agency (JAXA)	IEEE GRSS Expert lecture in the Department of Astronomy, Astrophysics, and Space Engineering
Prof. Mikhail Ivanchenko, Lobachevsky University, Nizhny Novgorod	Invited talk and collaboration
Prof. Miharu Yui, Kwansei Gakuin University, Japan Prof. Ayako Namba, Kwansei Gakuin University, Japan Prof. Koji Kojima, Kwansei Gakuin University, Japan	Collaboration

New Initiatives to bridge between International Students and IIT Community

The International Relations (IR) office at IIT Indore started new initiatives aimed at enriching the experience of our international students that extend beyond the confines of the classroom. This hands-on approach enhances their academic journey and facilitates cross-cultural exchange, fostering meaningful interactions with the local community.



Diwali Celebrations



Makar Sankranti Celebration



New Year Celebrations



Christmas Celebration



Indore Zoo Visit



Indore Rajwada Visit

Achievements

International Awards and Grants received by IITI faculty members.

Every year, faculty members of IIT Indore attend/present their papers at various globally renowned conferences. This year, they presented at the Sakura Science Exchange Program Organized by Japan (JST), the 'FORCE-IICS' Conference Kathmandu, International Conference on Maintenance and Intelligent Asset management Australia, the URSI GASS Conference 2023 JAPAN, the International Union of Geodesy and Geophysics Conference Berlin, TFSC Conference Hsinchu, Taiwan and many more.

Many IIT Indore faculty members have been awarded with prestigious international collaborative projects and went for foreign visits like the Brussels Project, JSPS BRIDGE Fellowship, JSPS Invitational Fellowship, IGSTC Project, SSHN Fellowship France, YFRSG Dream Lab Grant, Cambridge-Hamied Visiting Lectures Scheme, The Sakura Invitational Awar-2023 by Japan Science and Technology Agency, etc.

Prominent International Scholarships received by IITI Students

Every year, many IIT Indore students receive prestigious scholarships and fellowships to visit global institutions of repute for academic and research work. Here are some achievements of students for this year.

- Taiwan Experience Education Program (TEEP) by Taiwan's Ministry of Education
- Charpak Lab scholarship 2024 by Embassy of France
- IIPP - International Internship Pilot Programme by Taiwan Gov.
- IJRA - International Junior Research Associate Scheme by University of Sussex UK
- NUS Younger Fellowship Programme -2024 by National University of Singapore
- JASSO Scholarship - Scholarships for Study in Japan
- The Catholic University of America-Exchange Visitor Programme
- Charles Wallace Fellowship
- International Science Partnerships Fund (ISPF)
- Research Collaborations Programme
- National Centre for Polar and Ocean Research (NCPOR) by Ministry of Earth Sciences (MoES), Government of India
- Max Planck Grant
- MITACS
- Shraman Scholarship



Public Lectures

- Mentorship talk by DAAD for KOSPIE:** A mentorship talk (online) by Ms. Anuroopa Dixit, Programme Coordinator, DAAD New Delhi, was organised on January 10, 2024, to guide our students about "Combined Study and Practice Stays for Engineers from Developing Countries (KOSPIE)- a Scholarship by DAAD to IIT students.
- French language Demo Classes:** Knowledge of international languages is critical for students and researchers who want to pursue higher studies and research work abroad. IIT Indore also encourages students to learn new International languages. Concerning this, the Institute organized a French Language demo class in collaboration with Alliance Française.
- Mentorship session for Fulbright fellowship:** Dr. Ryan Pereira, Regional Officer of USIEF, the Fulbright Commission in India, conducted an in-person session on "Fulbright Fellowship Opportunities to the U.S." for PhD students, post-doctoral research students, and faculty members at IIT Indore. In April 2024, two Fulbright mentoring sessions were held under the coordinatorship of Dr. Ananya Ghoshal, the Fulbright fellowship coordinator at IIT Indore. The session focusing on Fulbright-Nehru Academic and Professional Excellence Fellowships (FNAEP) for faculty members took place on April 16, 2024, while the session on Fulbright-Nehru Doctoral Research Fellowships (FNDR) for student applicants was conducted on April 17, 2024. Prof. Venkat Raman Gundumella (Indian alumni) and Dr. Arpita Joardar (U.S. alumni) mentored faculty members in the FNAEP session, whereas Dr. Unmesh Khati, Dr. Ananya Ghoshal, and Avijit Maity, all FNDR alums from IIT Indore, mentored the session for the student applicants. These sessions marked the first-ever Fulbright mentoring events organized at IIT Indore.
- Session on Higher Education in France:** A session about the "Higher Education in France" and details on student scholarships, internships, and PhD programs was held on January 31, 2024, by Dr. Phillipe Maurin, the Attaché for Scientific and Academic Cooperation for West India at the Embassy of France / French Institute in India along with Ms. Divya Saxena, Manager - Campus France Indore/Bhopal.

Alumni & Corporate Relations (ACR)

About ACR Office: The office of the Alumni & Corporate Relations (ACR) is set up with an aim of fostering and maintaining the relationship with the Alumni & Corporate entities. The office includes a dedicated, dynamic, and enthusiastic team of officials and staff members, headed by Prof. Suman Mukhopadhyay, Dean (ACR), working consistently towards achieving the objectives of the institute aligned with its vision.

A. Activities undertaken by the ACR team to foster “Alumni Relations”:

1. Alumni Meets:

- First Meet: Successfully organized its first out-of-campus Alumni Meet-Bangalore Chapter on 23rd September 2023 at The Hilton, Bengaluru Embassy Manyata Business Park Bengaluru. Around 200 alumni (along with their family members) attended the event.
- Second Meet: The second out-of-campus Alumni Meet 2024, Hyderabad Chapter, was organized on 10th February 2024 at Hotel Sheraton, Gachibowli, Hyderabad. Around 175 alumni (along with their family members) attended the event.

2. Magnum Opus 2024 (Alumni visiting IIT Indore Campus):

- Magnum Opus 2024- (A get-together with Alumni & current students) was held on March 9, 2024, at the IIT Indore Campus.

3. Fireside Chat with Alumni:

- Fireside Chat with Alumni (Mr. Gaurav Parchani, Co-founder of “Dozee” and Dr. Vibhor Pandhare, Assistant Professor) and students was held on 19th April 2024 at the IIT Indore campus.

4. Yearbook -2022 & 2023:

- Two editions of the yearbook “ADIOS 1.0 & 2.0” for the graduating students of 2022 and 2023 were released.

5. Alumni Magazine-2023:

- The Alumni Magazine “IITI-Alumnus” Edition 2023 was released on 10th February 2024 during the Alumni Meet –Hyderabad Chapter.

6. Charities Aid Foundation (CAF), America:

- The Validation Certificate was received from CAF America for two years (2023-25).

7. IIT Indore Academy Association and Internship Program:

- Under this program, the Institute conducted visits and internships for the students of the Acropolis Group of Institutions, Chameli Devi Group of Institutions, Rewa Engineering College, Jabalpur Engineering College, and SGSITS Indore. More than 230 students benefited from internships and the IIT Indore facilities through visits.

Few Glimpses of Alumni Relations Activities



Alumni Meet-Bangaluru Chapter and Hyderabad Chapter



Alumni Magazine-2023



Magnum Opus 2024 (Alumni visiting IIT Indore Campus)



Fireside Chat with Alumni



Yearbook -2022 & 2023



Validation Certificate CAF, America

B. Activities undertaken by the ACR team to foster “Corporate Relations”:

1) Project implementation under CSR initiatives:

- a) **Rajratan Centre of Excellence (RCOE):** The establishment of the Rajratan Centre of Excellence (RCoE) at IIT Indore is aimed at promoting advanced research and analytical testing, which is the first such initiative at IIT Indore under the CSR association between IIT Indore and 'Rajratan Global Wire', the world's largest tyre bead wire manufacturer.

Funds Received: Rs. 50 lakhs (Committed: Rs. 2 Cr.)

- b) **CASE- Centre of Excellence:** The Establishment of 'CASE- Centre of Excellence at IIT Indore to promote the CSR association between IIT Indore and CNH Internationals Limited.

Funding received: Rs. 75 Lakhs (Committed: Rs. 3 Cr.)

- c) **State Bank of India (SBI) Plantation drive:** Plantation drive by SBI at IIT Indore on July 31, 2023, as a ceremonial plantation of their CSR fund to IIT Indore. This visit is related to the site visit of the plantation drive by utilizing the CSR funds (Rs.9 lakhs) received from SBI.

Funds received: Rs. 9 Lakh

- d) **Sanction of Research project fund by 'Mazagon Dock Shipyard'**

Mazagon Dock Shipyard (MDL), a unit under the Ministry of Defence, GoI, has inked an MoU with IIT Indore and funded two research projects for its functions under CSR funding for 2 Years duration

Funding received: Rs. 37 Lakh (Committed: Rs. 48 Lakh)

- e) **Sanction of Research project fund by Higher Education Financing Agency (HEFA)**

One research project has been approved under CSR by HEFA for a duration of three years.

Funding received: Rs. 14 Lakh (Committed Rs. 59.93 Lakh)

- 2) **Students' Scholarship under CSR initiative:** 'Moirā' Steel sponsored funds (Rs. 11 Lakh) to eleven B. Tech Students under CSR activities at IIT Indore for the FY-(2023-24).

3) Industry Visits:

- a) **M/s IMA PG Indore:** A team of 12 faculties, along with the Director IIT Indore, visited IMA PG Indore on August 17, 2023, a leading manufacturer of sophisticated Packaging machines for the Pharma and FMCG Sectors. The visit was followed by a discussion to explore joint collaboration with IIT Indore now under process.

- b) **M/s CG Power and Industrial Solutions (CGPIS), Mandideep Plant, Bhopal:** A team of 12 faculties, along with the Director IIT Indore, visited 2 plants of M/s CG Power and Industrial Solutions at Mandideep, Bhopal (CGPIS) on September 14, 2023, which is a leading manufacturer of Traction Motors (HT/LT), Switchgear, Circuit Breakers, network protection & Control Gear etc for Railways Business in India with multiple manufacturing locations. The visit was followed by a discussion to explore joint collaboration with IIT Indore.

- c) **CNH Industrial visit on November 24, 2023:** A team of 20 faculties, along with Director IIT Indore, visited CNH Constructions (I) Pvt. Ltd. on 24 November 2023. CNH Construction (I) Pvt. Ltd. is more than a hundred-year-old Company and a leading Global manufacturer of Construction and Agriculture Equipment with manufacturing locations across various countries, including three State-of-the-art manufacturing plants and a Global R&D Centre in India.

Few Glimpses of Alumni Relations Activities



Rajratan Centre of Excellence (RCoE) at IIT Indore



CASE Centre of Excellence (CCoE) at IIT Indore



Plantation drive by State Bank of India at IIT Indore



Moira Sariya visits for distributing scholarship at IIT Indore



Industry Visit to CNH Constructions (I) Pvt.t Ltd.



Industry Visit to IMA PG, Indore



Industry Visit to CG power and Industrial Solutions, Bhopal



ACR Team

Educational Outreach

About the Office of the Educational Outreach: The vision of the Office of the Educational Outreach is driven by a deep belief in the transformative power of education to shape lives, build communities, and create a prosperous world. At the core of our mission lies a commitment to excellence, equity, and empowerment in education.

1. Executive M.Tech for Employees of Volvo Eicher Commercial Vehicle (VECV) under Memorandum of Understanding (MoU) with VE Commercial Vehicle:

The Institute has started a two-year executive M. Tech program in “Hybrid and Electric Vehicle Technology” for Employees of VECV in the academic year 2023-24, under academia industry collaboration signed on 31st July 2023. In the First batch, a total number of 10 employees of VECV Ltd. were enrolled in AY 2023-24. The second batch shall start in July / Aug 2024.

2. Inbound UG Program for students of Engg. Colleges of Govt. of Madhya Pradesh:

The Institute has also started an Outreach program, wherein the selected students of Engg. Colleges under Govt. of Madhya Pradesh are given opportunity to study and complete their last year of B.Tech at IIT Indore, under “Memorandum of Understanding (MoU) with Department of Technical Education Skill Development and Employment, Govt. of Madhya Pradesh (In-bound UG Program)” executed on 28th August 2023. In December 2023, 23 (Nos.) such selected students joined the program and completed their 8th Semester at IIT Indore. The next batch shall start in July / Aug 2024 tentatively.



3. PhD program for faculty of Engineering College (CT Category):

Recognizing the mutual objective to foster academic collaboration, enhance educational opportunities, and promote research culture, IIT Indore has started Part-time Doctor of Philosophy (Ph.D.) Program for permanent faculties from the Government (Autonomous) Engineering Colleges including University Institute of Technology – Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal under Memorandum of Understanding (MoU) with the Department of Technical Education Skill Development and Employment, Govt. of Madhya Pradesh, executed on 28th August 2024.



4. Master of Science in Data Science and Management (MSDSM):

In collaboration with IIM Indore, IIT Indore has started two-year Master of Science program in Data Science & Management. Three batches have already been started since year 2021. A total of 81 students are graduating from Batch 1 & 2 in the 12th Convocation of IIT Indore, to be held on 13th July 2024.

The fourth batch of this program shall commence in August 2024.

Future Plans for next 6 months:

1. Executive program in Cybersecurity and Cyber law:

IIT Indore and National Law Institute University (NLIU) have signed an MoU on 18th April 2024 to start a joint executive Master program for working professionals in the area of cybersecurity and cyber law. The program intends to develop a skilled force of digital revolution in the country with expertise not only in technology but also in law aspect.



2. Academic association with Military Institute of Technology (MILIT), Pune:

Academic collaboration with Military Institute of Technology (MILIT), Pune wherein IIT Indore will assist MILIT, Pune in building up capacity in the renewable energy domain.

3. Sant Shiromani Ravidas Global Skill Park (GSP) under the Department of Technical Education, Skill Development and Employment, Govt. of Madhya Pradesh:

IIT Indore entered into an agreement on October 04, 2023 with Sant Shiromani Ravidas Global Skill Park (GSP) under the Department of Technical Education, Skill Development and Employment, Govt. of Madhya Pradesh, wherein IIT Indore will run and operate training facility at Centre for Occupational Skills Acquisition-II (COSA-II) in the GSP and will offer industry aligned programs. The potential beneficiary of this scheme will be the students of ITI, Diploma and B.E./B.Tech programmes of educational institutions running under the aegis of Govt. of Madhya Pradesh.

4. Margdarshan Scheme:

IIT Indore has been nominated as Mentor Institution (MI) under Margdarshan scheme 2023 of All-India Council of Technical Education (AICTE) which aims at mentoring local Engineering Colleges (Mentee Beneficiary Institute). IIT Indore will mentor "Sushila Devi Bansal College of Technology, Indore" and will support it in achieving better NIRF rankings/ NBA/NAAC Accreditation.

5. PM School for Rising India (PM Shri):

IIT Indore is part of the PM School for Rising India (PM Shri) scheme of Govt. of India, to promote transformation in equity, access, and inclusion in school education. The overarching purpose of PM SHRI School is to nurture students in a manner that transforms them into engaged, productive, and contributing citizens.

6. Development of Raja Bhoj Museum (Madhya Pradesh Tourism Board (MPTB):

IIT Indore is assisting the Madhya Pradesh Tourism Board (MPTB) in preparing the detailed design proposal for the Raja Bhoj Museum, Bhopal. The museum will display scientific, technical, and art developments in the time of Raja Bhoj.



IIT Indore Adopted Govt. Middle School in Gajinda

Background:

- In its pursuit of expanding the ambit of social and educational outreach programs, the Institute has identified Govt. Middle School Gajinda near Baigram on Khandwa Road under Mhow Tehsil, District -Indore, for extending academic and infrastructural support to transform the academic standards of the school. A formal announcement for the adoption of the village school was made by the Director of IIT Indore on the occasion of the 15th Foundation Day of the Institute. In order to identify the areas of cooperation, a team of senior faculty and officers visited the school and had meaningful interaction with the headmaster, teachers, and students.
- The school comprises eight classes from Std I to VIII with a student strength of 194 (Boys: 98 & Girls: 96). Out of the total students, 180 i.e., 93% students are from Scheduled Tribe community, 11 students i.e. 6% are from Scheduled Caste community and 3 students, i.e. 1% is from the OBC community. Special attention in education is thus necessary for students from socially and economically challenged sections to ensure equal opportunities for success and to bridge the gap in educational achievement between different socio-economic groups.
- Based on the site visit and interaction with stakeholders, the need for support in the following areas has been recommended.
 - Deputing PhD students/ Research Scholars and volunteer staff members to impart teaching in basic sciences, mathematics, and languages (English and Hindi).
 - Infrastructure and tech support for enhanced learning experience.
 - Visit of school students to the Institute Laboratories and Campus Kendriya Vidyalaya for exposure, motivation, and awareness about higher education.
 - Health awareness programs for students to be conducted by the Institute Health Centre.
 - Sanitation awareness programs and periodic sanitation drives to be conducted with the participation of students.
- The permission for formal adoption of the aforementioned village school has been duly accorded by the Indore District Administration vide CEO, Zila Panchayat, letter no. PS/ ZP/ 20204/694 dated 8th February 2024.
- Consequent to the grant of permission by the District Administration, the students of class VIII were invited to witness the 15th Foundation Day of the Institute and for a campus tour on 17th February 2024 towards the first step of the social outreach initiative.



Govt. Middle School Gajinda



IIT Indore visit to Gajinda School

Makerspace

To fulfill the NEP 2020 guidelines for offering interdisciplinary hands-on knowledge and experiential learning among the students, IIT Indore has established Makerspace Laboratory. Dr. K.Sivan, Chairperson, Board of Governors, IIT Indore & Former Chairperson, ISRO, inaugurated Makerspace Lab on 20 Nov 2024. Present real-world problems are multi-disciplinary, and there is a need to prepare students with globally relevant training and a hands-on approach. Makerspace course could be the most suitable alternative to fulfill the needs. Makerspace is a collaborative work-space for promoting synthesis-based learning where the learners apply concepts they learned in the class to create a prototype and product. It fosters innovation through hands-on experimentation. IITI Makerspace has a world-class infrastructure with state-of-the-art research, innovation, and experiential learning facilities. The lab has all the essential facilities related to electrical, electronic, mechanical, and computational under one roof to cater to the product development requirements. Makerspace is equipped with machines such as laser cutters, desktop milling, CNC Lathe, CNC Milling, CNC routers, 3D printers, PCB printers, ESD workstations (Soldering, Power supply, Multimeter and Function Generators), Mechanical workbenches, Sewing Machines, Table saws, Band saws, various power and hand tools. It undertakes laboratory sessions of the B.Tech 1st year Makerspace (IC-152) course and supports the design and fabrication needs of BTP, Master's thesis, and Doctoral research.



Dr. K.Sivan, Chairperson, Board of Governors, IIT Indore & Former Chairperson, ISRO and Prof.Suhas Joshi, Director, IIT Indore, during the inauguration of Makerspace

Convener, Makerspace

Dr. Eswar Prasad Kormilli

Associate Professor (MSME)

Email-convener_makerspace@iiti.ac.in

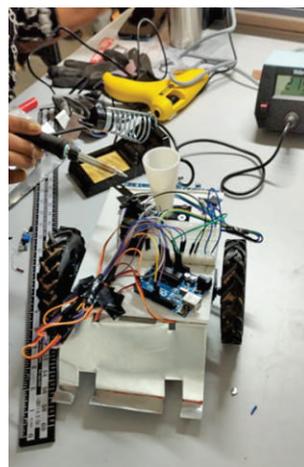


Research Interests:

- Mechanical behavior of materials
- High strain rate deformation behaviour of Materials
- High strain rate deformation
- Nanoindentation, Small scale mechanical testing
- Surface Engineering and Failure analysis of materials

Activities during the year 2023-2024

- **UG TA training:** A hands-on operational training on Makerspace equipment was conducted for the B.Tech students of Civil, Electrical, and Mechanical disciplines during May -June 2023 to help them guide the first year B.Tech students. The UG TA students developed projects on Electronically Actuated Morphing Wing, Gesture Controlled Drone, Gesture Controlled Maze Solver, Hand Gesture Controlled Car, Multi Control Based Wheel Chair Safety using Android, touch, voice, and Gesture Control, RC Tank with Robotic Arm, Self Balancing Robot, Smart Lift, Solar Powered Seed Sowing Robot as a part of Makerspace Training.



Solar Powered Seed Sowing Robot



Smart Lift

- **Work Request received at Makerspace:** The Makerspace has completed 17 Nos. of work requests during 2023-2024 for various purposes, including UG/ PG Research teaching, PG Research, BTP, and Sponsored projects.
- **Laboratory classes:** The Makerspace has conducted practical classes of the Makerspace lab (IC-152) during the Autumn and Winter semesters. Practical works on the stitching of aprons using a sewing machine, Modelling of 2D and 3D components, 3D printing of parts, CNC machining of materials, Joining of metals, Simulation of the circuit, Assembly, and testing on Breadboard, the know-how of the Oscilloscope, function generator, Power source, etc. Soldering of joints, PCB routing using software, PCB fabrication and testing, Coding and interfacing sensors to Arduino and Raspberry-PI, Basic signal generation, and measurements with Arduino were completed by students. Student groups have fabricated 80 nos. of Line follower Robots with different functionalities for their end-semester major project.



Line follower Robot Presentation

- **Development of Makerspace at C-ELITE, DTRC Ujjain campus:** The Makerspace IIT Indore has developed the Makerspace facility C-ELITE, DTRC, IIT Indore Ujjain campus. The Makerspace was inaugurated by Hon'ble Chief Minister Dr Mohan Yadav on 08 Mar 2024. The Makerspace Lab has organized a hands-on training program from 30 March- 01 June for B.Tech Students of UEC, Ujjain.
- **Training Program:** The Makerspace IIT Indore lab has organised training programs for B.Tech Students of UEC, Ujjain, from 26-27 Feb 2024.



The inauguration of Makerspace at C-ELITE, DTRC, IIT Indore, Ujjain campus by Hon'ble Chief Minister, Dr Mohan Yadav

Infrastructure Development Office



IIT Indore was allotted 501.42 acres of land, including 200 acres of forest area. The Infrastructure Development Office of IIT Indore is one of the service departments that plays a vital role in providing the requisite infrastructure facilities such as buildings, electricity, water supply, roads and pathways, parks and gardens, and all other amenities required in the campus, along with its maintenance. The institute has completed a mandate of 2.21 Lakh square meter area (36 structures) of construction. Further, Phase III A construction work has started, and approval for Phase III (B) and Phase III (C) are in an advanced stage.

In the last one year, the following developments are taken up in the campus:

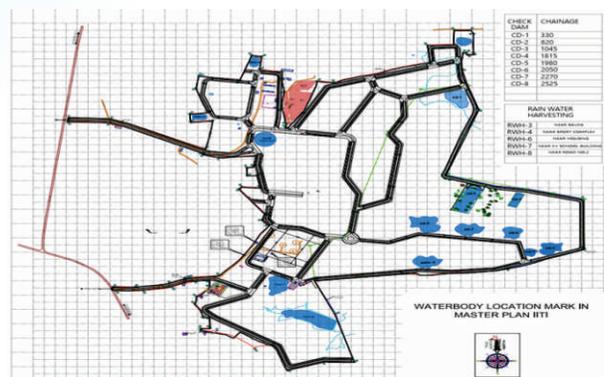
1. Development of Makerspace lab
2. Construction of Canopy in Abhinandan Bhawan (1-9 floors)
3. Construction of Rainwater Harvesting ponds
4. Construction of faculty cabins in LRC 4th floor
5. Construction of Animal House
6. Construction of Transit Lab Complex
7. Construction of laboratory
8. Construction of Multilevel car Parking
9. Construction of a Multi-Purpose Hall Near the Central Dining facility
10. Construction of Hostel under PMAJAY Scheme
11. Development of Sports Arena
12. Phase III A works

1. Development of MakerSpace Lab:

MakerSpace laboratory is a set of laboratories, electronics, mechanical & integration that is developed by creating partitions in the existing workshop space for promoting synthesis and imparting interdisciplinary hands-on knowledge and experience to all students as per the mandate of NEP 2020. The laboratory was completed on 20.09.2023 and was inaugurated on November 20, 2023.



- Construction of Canopy in Abhinandan Bhawan:** Canopy was installed on every floor, i.e., the 1st floor to the 9th floor on the north side of the Abhinandan Bhawan, to prevent rainwater from entering the corridors. The work was completed on October 3, 2023.



- Construction of Rainwater Harvesting ponds:** IIT Indore is developing 8 number of check dams and 7 RWH rainwater harvesting ponds of total capacity approximate 22.32 Crore Liters in the campus for water conservation.

Out of 7 RWH Ponds, 5 are already developed and 2 are proposed. Further out of 8 Check dams, 2 are already developed by the Institute and the remaining 6 are under planning. The total present storage capacity already developed is 15 Cr liters approximately.

- Construction of faculty cabins at LRC 4th Floor:** Partition is created at the 4th floor of the Library Building to provide seating spaces for Faculty & students. There are 12 faculty cabins of approximately 150 sqft each and common seating space for nearly 50 students.



- Animal House:** It is a research facility for BSBE faculty & students with a total area of 5509 sqft. It is planned for G+3 and presently only on the Ground Floor.

- Transit lab Complex (Drishti Bhawan extension):** IIT Indore has developed laboratory spaces near the existing Drishti Bhawan building (Old Taste Buds building). The facility consists of 4 labs with a total area of 4660 sqft.



7. **Construction of laboratory complex:** In view of the increasing strength of faculty and students in IIT Indore, a laboratory of an approximate area 22,000 sqft is planned for faculty and students to meet their research requirements. The laboratory consists of 8 nos. 12 feet clear height labs, 2 nos. 16 ft clear height lab, 24 faculty cabins & seating space for 96 students.

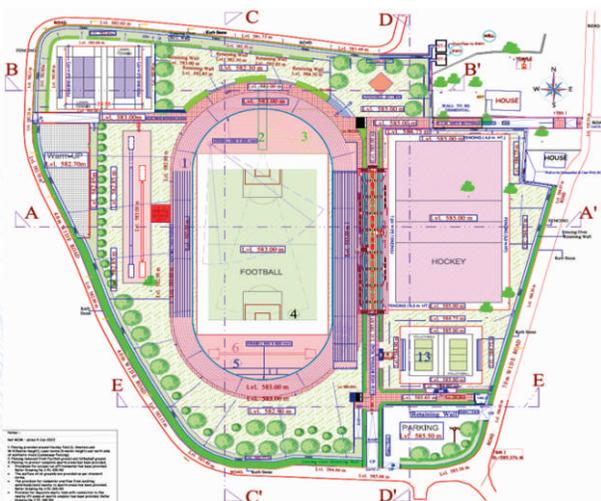


8. **Construction of Multilevel car parking:** In view of the increasing strength of faculty and staff members in IIT Indore, the Institute has felt the need to develop a multi-level parking facility for institute community members as well as visitors. The parking facility has capacity of 76 cars (38 on GF + 38 on roof) and is located near Abhinandan Bhawan & LRC.

9. **Construction of Multi-Purpose Hall Near the Central Dining facility:** Large dining facility for hosting guests for lunch/dinner during events is being developed near the Central Dining facility. It consists of an Open Hall of 2500 capacity, 2 Kitchen area, 2 Utensil Wash Area, 2 Storeroom & 2 pantries.



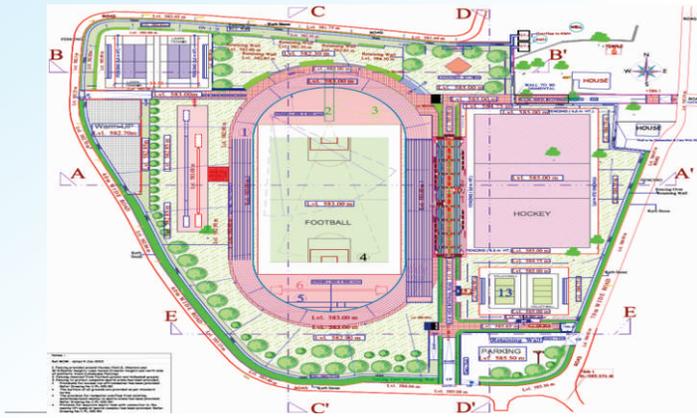
10. **Construction of Hostel Under PMAJAY Scheme:** Under the scheme, the Ministry of Social Justice & Empowerment has the provision of construction of hostels for SC Boys & Girls students under the generally sponsored scheme of Pradhan Mantri Anusuchit Jaati Abhyuday Yojna (PM-AJAY). The Hostel has a capacity of 284. The Hostel has G+5 floors with an area of 6,550 sqm.



11. **Development of Sports Arena:** Work of the development of the sports arena is in progress, and the scheduled date of completion is October 2024.

Salient features of sports arena are as follows:

- Football ground
- Synthetic athletic track
- Hockey ground
- Lawn tennis courts – 2 Nos.
- Volleyball courts – 2 Nos
- Seating Gallery
- VIP Lounge, Dormitory, Indoor sports area, etc. at the basement
- Various sports facilities such as Discus & hammer base, Javelin throw, High Jump, Short put, Steeplechase, Polo vault, triple jump and long jump, including warm-up area.

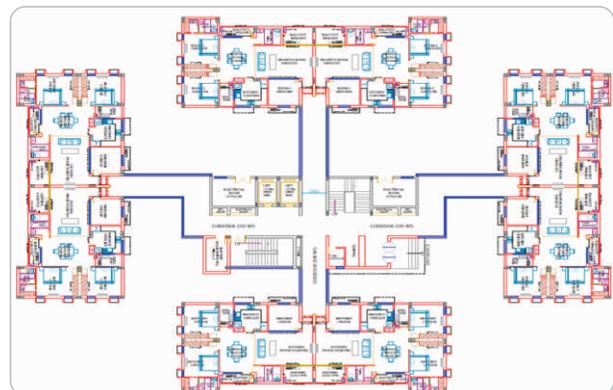


12. **Phase III (A) works:** Owing to the expansion of academic and research activities of the Institute it is necessary to create academic and supportive infrastructure for which the Institute has planned works under Phase III (A). The proposal amounts to Rs. 496.28 Cr and is sanctioned by HEFA. The works are under progress. Brief details are as follows:

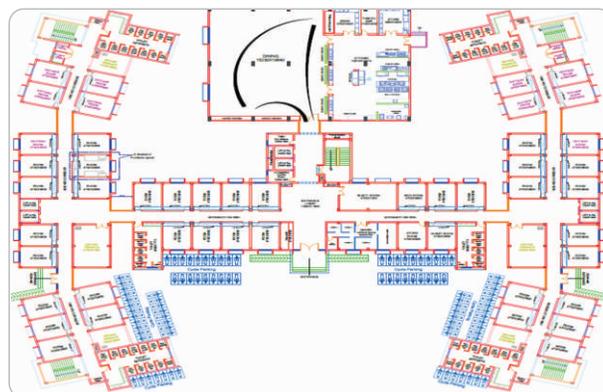
Name of Work	Area/Floors	Facilities
Construction of Hostel on BH 10 location	15450 / G+6	750 nos. occupancy
Construction of Hostel on BH 07 location	15450 / G+6	750 nos. occupancy
Construction of Hostel on GH 02 location	15450 / G+6	750 nos. occupancy
Construction of Residential complex FH07	9795 / G+7	64 nos 2BHK units
Construction of Studio Apartment SA 01	11000 / G+7	104 nos 2BHK & 16 nos 1 BHK 16 nos
Heavy & Sophisticated Lab Complex (academic POD)	28820 / G+5	The total area is 28820 sqm.
Academic POD		6 Heavy labs of Double Height
Infrastructure for Centers of Excellence		24 Module-2 Labs 53 Module-3 labs 12 COE labs 2 SIC labs 96 faculty rooms 384 student seating



Layout for proposed Studio Apartment



Layout for Proposed Residential Building



Layout for Proposed Hostel Buildings

Student Affairs

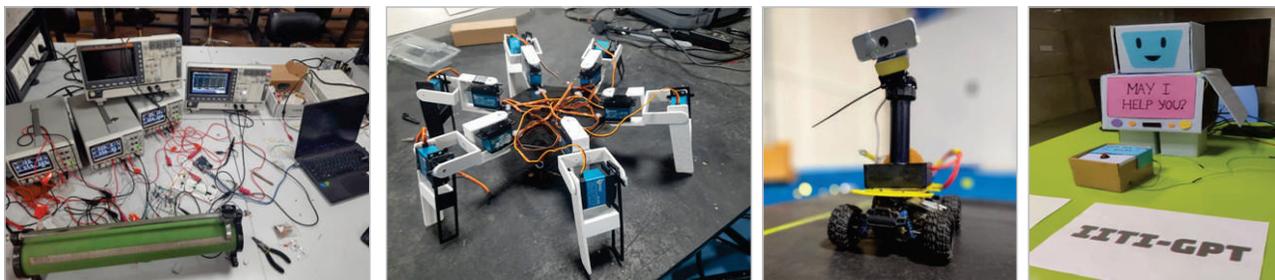
Student Affairs Office operates as an administrative interface to the students at IITI for the conduction of various events through Student Gymkhana through a team headed by Professor Srivathsan Vasudevan, Dean of Student Affairs (DoSA), assisted by Dr. Sanjeev Singh, Associate Dean of Student Affairs (ADoSA), Cdr. Sunil Kumar (Retd.), Joint Registrar, Mr. Tanmay H. Vaishnav, Assistant Registrar and Mr. Digant Karve, PA to DoSA.

Student life at IIT Indore is vibrant and well-rounded, offering a diverse range of opportunities for both academic and personal growth. The emphasis on extra-curricular activities through structured clubs and cells seems to complement the academic curriculum effectively, providing students with a holistic learning experience. The involvement of students in BTech project work, industrial visits, and engagement with industry and academia through various cells that speak volumes about the institute's commitment to preparing students for real-world challenges. Additionally, the healthy student-to-faculty ratio suggests that students have ample access to support and guidance from their professors, contributing to a conducive learning environment. Overall, IIT Indore strives to provide its students with the best possible platform for their development and success.

There are mainly 5 councils within the Student Gymkhana, namely, Science & Technology Council, Cultural Council, Sports Council, Counselling, Outreach & Alumni Council, and Academic Council.

Science & Technical Council

The Science & Technology Council organized IITISoC and conducted various workshops throughout the year for learning and overall development of the students. Students have also worked on some interesting and brainstorming projects. They have also participated in the Inter IIT Tech meet and secured one of the top 3 positions in various domains.



Cultural Council

Throughout the year, Dramatics Club, Dance Club, Kalakriti Club, etc. under the Cultural Council came together to showcase the students' talent on stage and delivered stellar performances during celebrations for Independence Day, Republic Day and Teacher's Day and performed various traditional Indian classical performances. The campus also hosted the competitive T vs M event and organized festive gatherings like Garba Night, donation drives, etc.



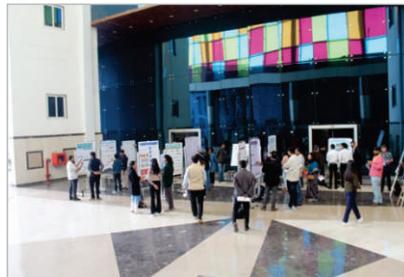
Sports Council

The Sports Council organized various sports events like JOSH, SHAURYA and General Championship to enhance and maintain the sports culture at the campus. Additionally, the council also successfully organized LAKSHYA 2.0, its annual flagship inter-college event with the theme “Embrace The Chase”. It showcased the potential of our teams against other college teams across Indore. More than 7 sports were played with a participation of over 200 students. Informal games have been a center of attraction in this fest.



Academic Council

The Academic Council organized the Research Industry Conclave to nurture young minds towards research & innovation and held Departmental orientations for all the academic branches. The council also conducted an event called “Techno Samvad” to spread academic awareness among students



Summit'23

The Entrepreneurship Cell of IITI hosted E Summit'23 and Marketing Fiesta. The students invited some renowned personalities like Dr. Tanu Jain, Miss Shradha Khapra, Mr. Shaurya Mehrotra and many more to deliver talks and inspire the community. E-cell also hosted many events like pitching competitions, “break it down to develop entrepreneurial spirit” among students.



Fluxus 11.0

Fluxus, the annual technical fest of the campus, has been a resounding success this time. With Sachin-Jigar as the main artist duo, it also had a scintillating performance by The Pineapple Express in the electrifying Band Night. Many technical competitions and exhibitions from RRCAT, MCTE Mhow, etc. have been conducted in the event. To name a few, starting from Kavyanjali with renowned poets and storytellers like Laksh Maheshwari, Rakesh Tiwari, it continued through I-Conclave with speakers like Dr. Chetan Singh Solanki, Sanyukta Sinha, and Words of Wisdom from notable personalities like Dr. Vijendra Singh Chouhan, Mr. Harpal Singh Sokhi, Mr. Raj Shamani, Mr. Anubhav Dubey glittered through the event.



Other Highlights

1. MUN 7.0 - With the presence of Mr. T S Tirumurti, former representative of India to the United Nations, MUNIITI has been a great success. It has a participation of around 300 students from different schools and colleges.
2. Chat with Dr K Sivan - Dr K Sivan, Chairperson, BOG along with our Director had an interaction with the students in Auditorium. A great exchange of ideas and ethics took place in the session.
3. Hostel days - This time the celebration of Hostel days in each hostel was at its best. The students showcased their talents in the forms of dancing, singing, painting, storytelling, cooking and many more.





Achievements

- IIT Indore secured overall 6th position in Inter IIT Tech meet 12.0 with a total of 5 medals won.
 - DevRev (High Prep NLP PS): Silver Medal
 - Adobe (Mid Prep NLP PS): Bronze Medal
 - Zelta (Mid Prep Trading PS): Bronze Medal
 - IGDC (Low Prep Game development PS): Bronze
 - CERTIN (Low prep cybersecurity PS): Gold
- Our students Jaskaran Singh, Khushi Agarwal and Devesh Jindal have successfully qualified for ICPC 2023 Chennai regionals and achieved a final rank of 21st in the Chennai onsite regional contest.
- IIT Indore bagged silver medals in Women's singles and men's doubles in Ranbhoomi - an inter college tournament organized by IIM Indore.



Welfare Activities

- On the 15th Foundation Day of IIT Indore, the 10th successful blood donation camp was organized with the contribution of 321 generous donors.
- Avana club members had a visit to Jagannath Narayan Vriddhashram to engage with the residents through various activities aimed at bringing joy, companionship, and support to the elderly members.
- Amidst the Diwali festivities, our students distributed an array of traditional sweets and bottles to the staff and workers of the transport office, symbolizing the sweetness of camaraderie and mutual respect.
- Avana club IIT Indore partnered with the Being Sevak Charitable Foundation in Bombay to provide essential kits for blind students, underscoring our dedication to social welfare. The kit included specialized braille systems, vital nutrients, notebooks, and educational materials, addressing the unique needs of visually impaired learners.
- Avana Team had a visit to Simrol Higher Secondary School and Kanyashala, engaging with students from grades 4 to 12. With passion and dedication, the team shared basic concepts of various subjects, creating an engaging and interactive learning environment.
- A cloth donation drive has been conducted on the campus aimed at collecting clothing and stationery items from all corners of the campus, extending the spirit of generosity to the broader community. Partnering with local organizations, they identified areas where the donations would have the most significant impact. This event stands as a testament to the power of collective action and empathy.
- Students also organized a successful plantation drive adding greenery to the campus and promoting sustainability and ecosystem restoration.

Training & Placement Cell, IIT Indore

The Training & Placement Cell (TPC) of IIT Indore is dedicated to fostering exceptional career opportunities for its students by establishing robust relationships with top multinational companies, research organizations, and public sector undertakings (PSUs). Serving as the central point of contact for campus placements, the Cell orchestrates a seamless recruitment process. The TPC has a dedicated team of faculty and staff to interact with various leading Indian and international organisations to facilitate career opportunities for the students. A dynamic student team is an integral part of the TPC, which helps organise and execute the activities.

Placement Session Overview

The placement session for the year 2023-24 was conducted as a hybrid event, commencing in October 2023 and concluding in June 2024 for full-time positions. The internship recruitment process started in August 2023 and ended in September 2023.

Key Highlights

- The global economic crisis significantly impacted the job market, leading many associated companies to impose hiring freezes, resulting in fewer selections for the 2023-24 session.
- Despite these challenges, IIT Indore successfully increased the number of participating companies and total offers compared to the previous year.
- A total of 140+ companies, along with 7 PSUs, registered for the 2023-24 Recruitment Drive.
- This year, IIT Indore collaborated with other first-generation IITs for the placement season, adopting a day-wise recruitment system starting from December 1, 2023.

Student Placement Preparation:

The Training and Placement Cell (TPC) plays a pivotal role in preparing students for campus placements and internships by organizing an array of career guidance and development activities. The TPC fosters student engagement through industry-sponsored hackathons and competitions, promoting hands-on experience across various domains such as engineering, coding, consultancy, finance, and analytics.

To ensure holistic placement preparation, the TPC conducts a thorough analysis of industry trends, enabling it to invite top-tier recruiters that align with students' career aspirations. Below are some of the key activities undertaken by the TPC for student placement preparation:

1. **Two-Day Workshop on Mastering Interview Skills:** This intensive workshop equips students with essential interview techniques, enhancing their confidence and performance during recruitment processes.
2. **Placement Experience Handbook:** A comprehensive guide titled "Placement Experience Handbook - A Complete Guide for a Successful Placement" is compiled and published, providing students with valuable insights and strategies for excelling in placements.
3. **Campus Connect Program by NXP Semiconductors:** To bring awareness among students about various career opportunities available in the field of semiconductors design, VLSI, System Engineering and embedded systems, a session has been organized by the technical leaders of NXP Semiconductors.
4. **Women's Possibility Summit by Goldman Sachs:** An exclusive event for girl students of IIT Indore to meet the top leaders of Goldman Sachs, gain new perspective on diversity and inclusion in today's world and get advice for a successful career ahead.



Online Assessments



Pre-Placement Talk



Group Discussion

Key Recruiters at IIT Indore

IIT Indore has experienced remarkable growth in both the number of companies visiting the campus and the compensation being offered to students. The initial part of the recruitment season was dominated by companies offering roles in Software Development, Research Engineering, AI/ML, and Data Science Analysis. Many of these firms are global leaders in their respective fields.

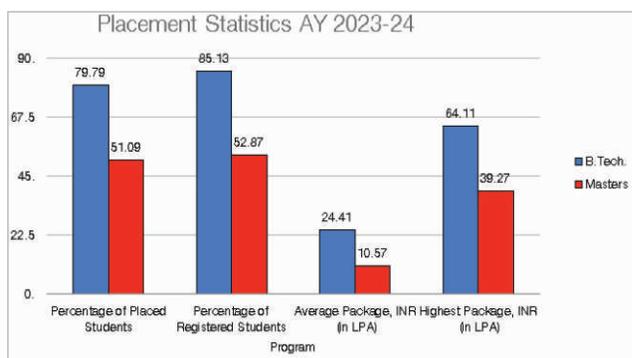
The world's top consulting firms, banks, and software companies participated in the placements, reflecting IIT Indore's success in attracting some of the best recruiters to hire from its talented pool of students.

Additionally, there was a significant increase in the participation of Public Sector Undertakings (PSUs) in campus recruitment. Leading PSUs such as HPCL, BPCL, GAIL, EIL, BEML, and C-DOT offered full-time positions to our students.

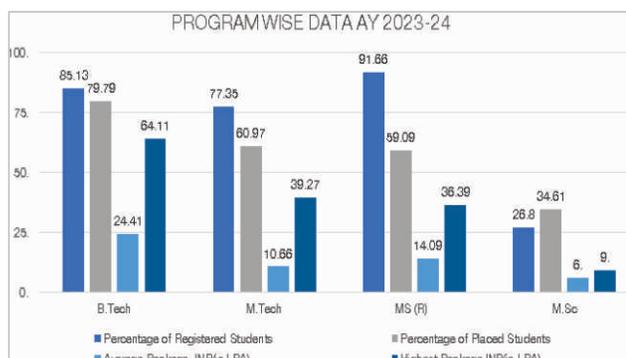
Leading companies that extended full-time placements and internship opportunities included Google, Amazon, DE Shaw, Quadeye, Groww, MoveInSync, BNY Mellon, Deloitte, TCS, Qualcomm, Flipkart, Atria, Mahindra & Mahindra, L&T, Arcelor Mittal Nippon Steel, Volvo Eicher Commercial Vehicles Pvt. Ltd., Dolat Capital, Futures First, Goldman Sachs, Oracle, MathWorks, MAQ Software, Texas Instruments, Nvidia, Jaguar Land Rover, Tata Capital, Zomato, Palo Alto, Versa Networks, Analog Devices, and HCL Tech, among others.

Overall Placement Statistics with Chart and Matrix (AY 2023-24)

Program	Batch Size	Registered Student	Total Placed	Percentage of Placed Student	Percentage of Registered Students	Average Package, INR (in LPA)	Highest Package, INR (in LPA)
B.Tech.	343	292	233	79.79%	85.13%	24.41	64.11
Masters	174	92	47	51.09%	52.87%	10.57	39.27



Overall Placement Statistics



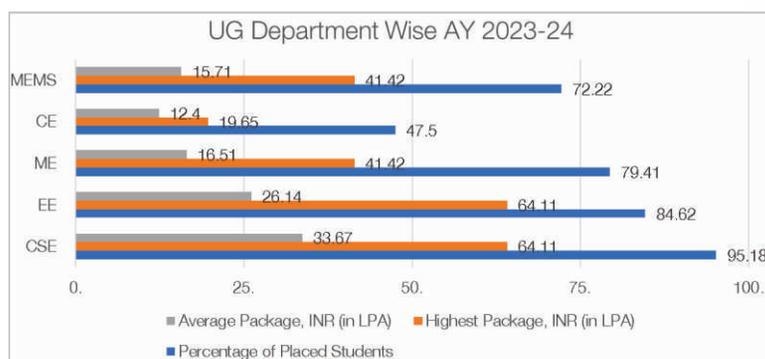
Program- Wise Placement Statistics

Program- Wise Placement Statistics in Chart and Matrix (AY 2023-24):

Program	Batch Size	Registered Student	Total Placed	Percentage of Registered Student	Percentage of Placed Students	Average Package, INR (in LPA)	Highest Package, INR (in LPA)
B.Tech	343	292	233	85.13%	79.79%	24.41	64.11
M.Tech	53	41	25	77.35%	60.97%	10.66	39.27
MS (R)	24	22	13	91.66%	59.09%	14.09	36.39
M.Sc	97	26	9	26.80%	34.61%	6	9

Department Wise Placement Statistics in Graphs and Matrix Department- wise B.Tech Placements (AY 2023-24):

Dept wise (B.Tech)	Registered Student	Total Placed	Percentage of Placed Student	Highest Package, INR (in LPA)	Average Package, INR (in LPA)
CSE	83	79	95.18 %	64.11	33.67
EE	65	55	84.62 %	64.11	26.14
ME	68	54	79.41 %	41.42	16.51
CE	40	19	47.50 %	19.65	12.4
MEMS	36	26	72.22 %	41.42	15.71



Internship Report

Industrial exposure is essential for students aspiring to enter the corporate world. At IIT Indore, students undertake internships during their summer break after the 6th semester. The Training and Placement Cell (TPC) plays a pivotal role in securing top-notch internships for students, providing them with the opportunity to apply classroom knowledge to real-world scenarios. During the current placement season, pre-final year students secured exciting internship opportunities with leading companies and prestigious academic and research institutions both in India and abroad. Notably, the highest stipend received this season has risen to INR 3 lakhs per month.

A total of 126 pre-final year students secured internships with major multinational corporations, reflecting the robustness of our placement efforts and the caliber of our students.

Department- wise Internship Matrix (AY 2023-24):

Department	Internship Offers (2025 Batch)	PPO Conversion (2024 Batch)
Computer Science	59	22
Electrical Engineering	36	18
Mechanical Engineering	8	5
Civil Engineering	5	0
Metallurgical Engineering & Materials Science	2	6

Conclusion: The placement season of 2023-24 at IIT Indore has been notably smooth, showcasing a promising increase in both the number of participating companies and the offers extended to students. Over the past few years, the average salary package has consistently been around INR 20 lakhs per annum, with the highest package reaching an impressive INR 65 lakhs per annum. This year, over 140 leading companies from various sectors, including Automobile, Information Technology, Consulting, Analytics, Core Engineering, Technology, Research & Development, and Public Sector Undertakings (PSUs), took part in the campus recruitment program, offering a wide range of job roles. A marked increase in PSU participation further enriched the opportunities available to our talented students. Additionally, 10-15% of our graduates typically pursue higher studies at prestigious institutions such as top-ranked foreign universities, IIMs, and IITs, while 3-5% embark on entrepreneurial ventures, establishing their own enterprises and start-ups.



TPC Team 2023-24 (UG + PG)

Hostel

A.P.J. Abdul Kalam Hostel is the first Hostel at IIT Indore's permanent campus and was inaugurated in 2016. Subsequently, Homi Jehangir Bhabha (HJB) Hostel was inaugurated in 2019, and Devi Ahilya, Vikram Sarabhai (VSB), & C.V. Raman (CVR) Hostels in 2020. Each Hostel has 99 units that accommodate a total of 574 students. Each unit has six bedrooms on shared basis. It also has a furnished living area, a common kitchen, two toilets, and two washrooms. IIT Indore ensures that students from different states, languages, and different departments are allotted a unit to promote an inter-disciplinary approach to study and research and national bonding among them. All the hostels are also equipped with solar hot water facilities, and APJ Hostel is centrally air-conditioned.

The Hostel Department is headed by Dr. Jayaprakash Murugesan, Chief Warden, who is assisted by Mr. Surendra Singh Sulya and Ms. Pratibha Chandanshive, Junior Assistants at the Chief Warden Office. A Warden heads each Hostel with the assistance of a Supervisor and Attendant. The details of the Hostels are as follows: -

Hostel No.	Hostel Name	Hostel Type (Girls/Boys)	Warden/Warden In-charge	Associate Warden
01	APJ Hostel (Avul PakirJainulabdeen Abdul Kalam)	Boys	Dr. Harekrishna Yadav	--
02	CVR Hostel (Chandrasekhara Venkata Raman)	Boys	Dr. Saptarshi Ghosh	--
03	HJB Homi Jehangir Bhabha	Boys	Dr. Jayaprakash Murugesan	--
04	Dev i Ahilya Hostel	Girls	Dr. Charitha Cherugondi	Dr. Ananya Ghoshal
05	Vikram Sarabhai Hostel	Boys	Dr. Ram Sajeevan Maurya	--

Guest Rooms/Units in Hostel

The hostel offers guest house facilities to accommodate 60 guests. Each guest room is well-equipped with amenities to ensure a comfortable stay. The facilities provided include:

- Smart LED TV
- Sofa Set
- Center Table
- Cooler
- Microwave
- Electric Kettle
- Mattress
- Blanket • Bedsheet
- Pillow
- Towels
- Cloth Stand

These amenities are designed to cater to the needs of the guests, ensuring a pleasant and convenient experience.

Hostel Photos



Hostel No. 01 – A.P.J. Abdul Kalam



Hostel No. 02 – C. V. Raman



Hostel No. 03 – Homi J. Bhabha



Hostel No. 03 -Devi Ahilya



Hostel No. 5 - Vikram Sarabhai

Basic Facilities in Hostel



Basic Room



Common Hall



Washroom



Kitchen with RO Water Tap



Wi-Fi



RO Water Dispenser

Sports Facilities in Hostels



Badminton Court



Table Tennis



Soccer Table

Other Facilities in Hostels



News Paper Stand



Magazine Stand



Fitness Equipment

Central Dining Facility

Our Institute's Central Dining Facility, known as the Carbon building, showcases the inclusive and community-focused environment we strive to maintain. With the capacity to serve around 2500 individuals simultaneously, it allows students from different hostels to dine together, fostering a sense of unity and camaraderie. The facility also includes separate sections for students, institute staff, and guests, along with multiple kitchens, common washrooms, and an elevator facility, ensuring convenience and accessibility for all. Additionally, the Executive Dining Hall provides exceptional hospitality and dining services for the Institute's invited/VIP guests.

Students are served healthy and nutritious meals, with the student body deciding the menu on a weekly basis and the dining committee monitoring the overall functions. The quality of food is maintained through frequent feedback and immediate addressal of complaints. Payments to the caterer are made on a monthly meal plan basis through a cashless Smart Card Facility. The entire dining facility adheres to COVID-appropriate behavior. Besides regular dining services, the Carbon Building houses several kiosks serving delicacies and other services around the clock.

The functioning of the Central Dining Section is supervised by a team of dining staff, the student body, and student volunteers, and is administered by a dining committee headed by Dr. Pravarthana Dhanpal, Dining Warden.



Cleaning in Dining Hall



Secured & cleaned seating arrangements

Counselling Cell Team

Professor In-charge, Counselling Services

Counselling Cell has been an integral part of IIT Indore since its inception in December-2011. The function of this cell is to offer a supportive and conducive environment for students wherein he/she can discuss personal issues or academic challenges and seek professional help from the counselling cell team members.

With a vision to enhance positive well-being and facilitate an overall development of IIT Indore student's community, Cell's services are equally accessible to all the students (B.Tech., M.Tech / M.Sc. Ph.D and any other courses) of IIT Indore. Having the focus on prevention of mental health issues- prevention of suicide and chronic mental health problems, counselling cell works for early identification and intervention for various mental health issues in students.



Prof. Aruna Tiwari
Computer Science and Engineering

Faculty Counselling Coordinators

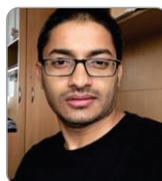
Faculty members from each department are nominated as faculty counselling coordinators yearly.



**Dr. Appina
Balasubramanyam**
Electrical Engineering



**Dr. Girish Chandra
Verma**
Mechanical Engineering



Dr. Chandresh Maurya
Computer Science
and Engineering



Dr. Kaustav Bakshi
Civil Engineering



Dr. Chandan Halder
Metallurgy Engineering
and Material Science



Dr. Amit Shukla
Astrophysics &
Space Engineering



Dr. Mirza S. Baig
Biosciences and
Biomedical Engineering



**Dr. Naresh Kumar
Kumawat**
Physics



**Dr. Abhinav
Raghuvanshi**
Chemistry



**Prof. Swadesh
Kumar Sahoo**
Mathematics



Dr. Kedarmal Verma
School of Humanities
and Social Science

Student Counselling Coordinators (SCC) & Student Gymkhana Representative

Students from UG, PG and Ph.D are selected as student counselling coordinators yearly.



Ms. Purna Kukadiya
Student Counselling
Coordinator for Ph.D.



Mr. Shubham Alte
Student Counselling
Coordinator for PG



Mr. Harshwardhan Chaube
Student Counselling
Coordinator for UG



Mr. Aniket Tiwari
Student Gymkhana
Representative

Counselors



Ms. Monika Gupta
Senior Counselor



**Mr. Shubham
Mandsaurkar**
Counselor



Ms. Shubhra Vyas
Counselor



Ms. Shilpa Chouhan
Junior Superintendent

Office Staff

Counselling Cell undertakes the following activities:

Individual counselling sessions (In-person, Online/Tele counselling)- These sessions are carried out by the counselors to assist the students in dealing with a wide range of concerns; be it academic, personal, emotional, family or peer related as well as wide range of psychological concerns including clinical depression, anxiety spectrum difficulties, suicidal tendencies and characteristics of personality disorders.

Parents counselling sessions- Meetings with parents of students who have academic or psychological concerns are held.

Regular follow up- Follow-up counselling sessions with students and their parents are held to ensure effective interventions.

Student Mentorship Programme- With the aim to foster a healthy and stress-free environment for the student community, the Counselling Cell, with the support of Gymkhana General Secretary Counselling and Outreach, oversees a student mentorship Programme. The student mentors help freshers by extending their helping hand both for academic and non-academic concerns of the students.

Faculty Advisor Programme- The counselling cell assigns faculty advisors to new undergraduate (UG) and postgraduate (PG) students upon their enrollment at the institute, in consultation with the Deans of Student Affairs and Academic Affairs. These faculty advisors maintain regular interaction with their assigned students, offering guidance on academic matters. If a student displays signs of distress, they are referred to the student counselor for further assistance.



My Protective shield- During the inclusion of new BTech students, the Student Affairs Section organized the Genesis Programme. In this programme, the Counselling Cell conducted a series of sessions with the motive of increasing the social connection among the students and understanding the challenges they may face during their inclusion.

Orientation to Counselling Cell- An orientation session is organized for new students to introduce them to the counselling cell and the services it provides at IIT Indore. During this session, information about the counselling cell and its offerings are shared.

Crisis Intervention- Counselor also sees the students at the health center or hall of residence for any urgent and immediate concerns.

Strong Referral System- As a foundation for enhancing mental health services, students can be referred by officials, the academic office, the health centre, faculty advisors, parents, and friends. Additionally, walk-in students who approach the counseling cell on their own will also be accommodated.

Activities conducted in month of December-2023

Placement Pursuit Pavilion-

The placement pursuit pavilion was held from December 1st to 8th, 2023, with the objective of providing support and guidance to the final year students for their placement concerns. Counselors were also available in DA and APJ, Hall of residences from 2pm to 10 pm to address the issues. Counselors coordinated with the placement office to provide support to the students with concerned staff and student placement coordinators. Individual counselling sessions and mock interviews were held with the students who had specific concerns.



Exam Stress Sessions –

Exam stress sessions were scheduled for all BTech first year students during December 4-8, 2023. These interactive sessions aimed to share practical strategies and tips for managing exam stress. It also helped students to maintain overall well-being during the exam period.



On December 04th, 2023 honorable Director, Dean of Student Affairs and Professor in-Charge, Counselling Services attended the interactive session in the hall of residence area. In the series of sessions, the important tips and the practical examples were shared. These exam stress sessions motivated the students to take the exam with ease. Regular assessments and follow-ups will be planned to increase the students' well-being.

Inter IIT Wellness Meet, IIT Roorkee, Noida campus on February 14th & 15th 2024 Attended by

1. Dr. Sanjeev Singh
2. Dr. Kalandi Pradhan
3. Ms. Monika Gupta

The experience shared by the team members attended the Inter IIT Wellness Meet

- IIT Indore being the only IIT to have a LIVE committee
- Feedback about the steps to be taken to resolve the concerns of students, interaction with students monthly or bi-monthly and focusing on early identification
- Practices of different IIT's and challenges they face were also shared

Counselling Committee 2023-24

The counselling committee consists of both Faculty Counselling Coordinators (FCC) and Student Counselling Coordinators (SCC). In view of the increasing student strength the SCC team has been expanded with 'Department Counselling Coordinators' from each department/courses this year onwards.

Interactive Meeting with Faculty Advisor and Student Mentor Dates:

1st Interactive Meeting: July 18, 2023

2nd Interactive Meeting: October 10, 2023

3rd Interactive Meeting: January 24, 2024

Interactive meetings with new students, their faculty advisors and student mentors were held in a semester three times for PG and UG batch 2023. Director, IIT Indore, Professor Suhas S Joshi, addressed the students, and it was followed by a question answer session along with the Dean of faculty affairs, Dean of student affairs and Head, counselling services.



Some of the events organized by the Counselling Cell during 2023-24 are as follows:

World Mental Health Day 2023- 4-week challenge

World Mental Health Day is a global event that promotes awareness for mental health issues. It provides an excellent opportunity to engage students in activities that promote mental well-being and resilience. In recognition of this important day, a 4-week mental health challenge for our students was designed to enhance their mental well-being, reduce stress, and promote a supportive community.

Week 1: Self-Care and Stress Management

- Daily self-care tips and challenges.
- Workshops on emotional intelligence and self-awareness.
- Stress and anxiety management techniques.

Week 2: Building Strength and Persistency

- Encouraging open dialogues on mental health.
- Inspirational stories from individuals who have overcome adversity.
- Discussions on maintaining a positive mindset during challenging time

Week 3: Social Connection

- Virtual group activities and games to increase social interaction.
- Panel discussions on the importance of social support.
- Encouraging students to reach out to companions and professionals for support.

Week 4: Physical Well-being

- Highlight the connection between physical and mental health.
- Encourage regular exercise and its positive impact on mental well-being.
- Promote a balanced diet and sufficient sleep.

Benefits of the challenge:

1. Improved Mood: Regular exercise releases endorphins, contributing to a positive mood and reduced stress.
2. Stronger Community Bonds: The challenge will foster a sense of belonging and connection among students, reducing feelings of isolation
3. Lifestyle Habits: Encouraging healthy habits early in life can lead to long-term well-being and disease prevention.



An expert talk by Dr. Krithika Chandrasekar was organized on 22nd March 24
Topic- "Self-Navigating the Emotional Wellness Labyrinth".

Ek Bharat Shresth Bharat



एक भारत श्रेष्ठ भारत

भारतीय प्रौद्योगिकी संस्थान इंदौर

Webpage: <http://ebsb.iiti.ac.in/>



The “Ek Bharat Shrestha Bharat” programme, an idea of a continual and intended cultural linkage between residents of different regions, was introduced by Prime Minister Shri Narendra Modi during the Rashtriya Ekta Diwas held on 31st October 2015, to venerate the birth anniversary of Sardar Vallabhbhai Patel. This program was initiated to celebrate cultural diversity through mutual interaction and exchange between people of different states and union territories so that a common spirit of understanding reverberates throughout the country.

Ek Bharat Shrestha Bharat (EBSB) team of IIT Indore is actively conducting various activities under the leadership of its Convener, Dr. Niraj Kumar Shukla (Associate Professor, Department of Mathematics) to promote various campaigns of the Government of India, such as Ek Bharat Shreshtha Bharat, Rashtriya Aviskar Abhiyan, Unnat Bharat Abhiyan, Swachh Bharat Abhiyan, RuTAG, etc.



Dr. Niraj Kumar Shukla

Convener



Dr. Ashisha Kumar

Coordinator

Rashtriya Avishkar
Abhiyan
(RAA)



Dr. Mrigendra Dubey

Coordinator

Unnat Bharat
Abhiyaa
(UBA)



Dr. Aruna Tiwari

Coordinator

Rural Technology
Action Group
(RuTAG)



Dr. Ananya Ghoshal

Coordinator

Swachh Bharat
Abhiyan
(SBA)

To promote Ek Bharat Shreshtha Bharat Abhiyan, the EBSB team of IIT Indore organized a Yuva Sangam/ Student Exchange Program for the 2nd edition of Akhil Bhartiya Shiksha Samagam and the 3rd anniversary of the NEP at Pragati Maidan, New Delhi. The event was inaugurated by the Hon'ble Prime Minister. Cross cultural performances were organized on 29th and 30th July, 2023. The following delegates from IIT Indore also participated: Dr. Niraj Kumar Shukla, Dr. Mrigendra Dubey, Dr. Ananya Ghoshal, Mr. Lalit Jain, and Mr. Santosh K. Sharma. Dr. Ananya Ghoshal played an important role in coordinating the performance and mentoring the performers. MOE and AICTE selected 12 cultural teams across India and IIT Indore was one among them.



To promote the Rashtriya Aviskar Abhiyan, the EBSB team of IIT Indore conducted more than 144 online sessions on "विज्ञान पर चर्चा-कार्यक्रम की श्रृंखला", for Hindi Medium school students (Class 6-8) of Madhya Pradesh, in association with Rajya Shiksha Kendra, M.P. Govt. In this series, experienced experts/ Professors/Scientists explained the concepts of Mathematics, Science, and Technology in Hindi, which enhances the knowledge of Govt Schools teachers and students of Madhya Pradesh. The EBSB team also conducted workshops related to Mathematics, Science, and Technology in Hindi for the primary school teachers of Madhya Pradesh State Government. Many training workshops are also planned for Schools teachers.

The EBSB team of IIT Indore is frequently conducting activities in nearby adopted villages, namely Bai Gram, Indra Aawas, Jagjivan Gram, Mirzapur, and Nayagoan, and in their schools to achieve the noble objective of UBA. Faculty members and students of IIT Indore, in association with the EBSB team, are also continuously working on various projects under RAA, UBA, RuTAG, and SBA related to the upliftment of society. Organized health camp bai gram panchayat with Govt MGM Medial Dr. Team.

Continuously inviting various school teachers and students at IIT Indore and then their interaction with IIT Indore faculties, to show them various Experimental Labs, group discussions, etc.

Science Exhibition to showcase models developed by students. To enable children to become motivated and engaged in Science, Mathematics and Technology (SMT) through observation, experimentation, inference drawing, model building, rational reasoning and testability.



IIT Indore in News

IIT-Indore joins clean Kshipra mission

Sagar.Choukse
@timesnetwork

Indore: IIT-Indore will be involved as an expert in the ongoing Kanh-Saraswati River purification project as Indore Municipal Corporation (IMC) has got sanction to develop three sewage treatment plants (STPs) at Rs 51 crore under Clean Ganga Mission.

Thirteen more STPs proposed under AMRUT 2.0 and Simhastha Project are meant to ultimately clean Kshipra River before Ujain Kumbh 2028.

"A Kshipra Purification Cell is being set up at IIT-Indore for this purpose," collector Ashoosh Singh said.

According to IMC additional commissioner Siddhartha Jain, the corporation has got sanction for three STPs. P4

IIT-Indore to get 5G lab

Indore: IIT Indore is amongst the 100 institutes in India that will get 5G labs as part of the initiative by the department of Telecommunication, a press statement by IIT-I said on Friday.

"The announcement was made today during the inauguration of 7th edition of India Mobile Congress by PM at Bharat Mandapam. The labs are being set up to build competencies and engagement in 5G technologies for students and startup communities. This will facilitate the development and experimentation of 5G applications in various socioeconomic verticals," the institute said in a statement. IIT-I director Prof Suhas Joshi said "It is a proud moment for the institute for being entrusted with this responsibility."

The institute will require to train at least 50 students and 10 faculty members in 5G lab. TWS

IIT-I study on betel nuts claims to aid in early diagnosis of oral cancer

Times News Network

Indore: A study by the Indian Institute of Technology Indore (IIT-I) has claimed to aid in early diagnosis of oral cancer through a non-invasive, non-destructive, and non-painful method.

The institute in a statement released on Tuesday said a team of scientists and students carried a study on betel nut, one of the key risk factors of oral cancer. The study involved the use of a portable device called the Betel Nut Spectroscopy (BNS) that can be used to detect the presence of oral cancer in betel nut users.

The researchers used spectroscopy-based methods such as Raman spectroscopy and Fourier transform infrared spectroscopy to study the betel nut samples. The study also involved the use of a portable device called the Betel Nut Spectroscopy (BNS) that can be used to detect the presence of oral cancer in betel nut users.

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Financially needy students to be trained in AI, software

Times News Network

Indore: Homegrown information technology company InfoBeans Foundation has collaborated with the Indian Institute of Technology Indore (IIT-I) to train young students from financially underprivileged backgrounds free of cost in artificial intelligence and advanced software to create a pool of industry-ready workforce.

InfoBeans Technologies, Ltd co-founder Avinash Sethi said, "We have signed a MoU with IIT-I's Dripathi CPS Foundation under which more than 200 youths will be provided training in software development and artificial intelligence. It's a one-year programme which will be free of cost for students of any stream from financially underprivileged backgrounds. We are working in collaboration with many institutions to provide employment-oriented education to youth. We focus on startups and business fundations to provide employment opportunities to young entrepreneurs."

InfoBeans Foundation signed another MoU with Federation of Indian Chambers of Commerce & Industry (FICCI) FLO to conduct software training programmes for girls students. FICCI FLO Indore chairperson Vibha Jain Sethi said, "This software development training will run for a year and education will be completely free for girls. Members of FICCI FLO Indore will mentor each girl. Inspire them to progress, become of some of their educational expenses, assist in their training. After a year, efforts will also be made to employ them in their institutions."

BIG FEAT: IIT Indore fabricates chips for hardware security, AI applications

Our Staff Reporter
@timesnetwork

Indore: A team of researchers at the Indian Institute of Technology Indore (IIT Indore) has successfully fabricated a novel chip for hardware security and AI applications. The chip, named 'Sanskriti', is designed to enhance the security of data and applications while also improving the efficiency of AI algorithms.

The researchers, led by Prof. Suhas Joshi, used advanced fabrication techniques to create the chip. The chip is designed to be used in a variety of applications, including hardware security, AI, and data processing. The chip is designed to be used in a variety of applications, including hardware security, AI, and data processing.

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IIT Indore showcases four technologies at InvenTive

Our Staff Reporter
city.indore@iit.ac.in

Indore: IIT Indore, which participated in the second edition of India's largest research and development (R&D) fair, InvenTive 2024 which was held at IIT Hyderabad, showcased four of its technologies. The technologies showcased were in the domains of Defence and Space Technology, Agriculture, Food Processing, Industry 4.0, and Affordable Healthcare. From a total of 250 technologies, 128 were selected to be showcased of which 04 were from IIT Indore.

Dharmendra Pradhan, union minister of education and skill development, in the presence of K Sanjay Murthy secretary of higher education.

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आइआईटी इंदोरे ने ईटी के लिए बनाया गोबर का फोमिंग एजेंट, ईटी हलकी और मजबूत होगी, गर्मी में घर की दीवारें ठंडी रहेंगी

Times News Network

Indore: IIT Indore researchers have developed a bio-based foaming agent for egg trays using cow dung. The technology is designed to be eco-friendly and sustainable, reducing the environmental impact of egg production. The foaming agent is used to create a porous structure in egg trays, which helps in better ventilation and reduces the risk of egg spoilage.

The researchers, led by Prof. Suhas Joshi, used advanced foaming techniques to create the agent. The agent is designed to be used in a variety of applications, including egg production, construction, and packaging. The agent is designed to be used in a variety of applications, including egg production, construction, and packaging.

आइआईटी इंदोरे की खोज - डिजिटल के अंश मिलते तो रोने के प्रयास करेंगे 35 से 40 की उम्र में एमआरआई से पता करेंगे अल्जाइमर का, एआई की मदद लेंगे

आमर सोहनिया

Indore: A team of researchers at IIT Indore is working on a project to detect Alzheimer's disease using MRI scans. The project is designed to use AI to analyze MRI scans and identify early signs of the disease. The researchers are using a combination of AI and MRI to detect the disease, which is a major cause of dementia.

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IIT Indore elevates STEM education with Tinkerers' Lab inauguration

Our Staff Reporter
@timesnetwork

Indore: IIT Indore has inaugurated its Tinkerers' Lab, a dedicated space for students to engage in hands-on STEM education. The lab is equipped with various tools and equipment to facilitate learning in science, technology, engineering, and mathematics. The lab is designed to be a hub for innovation and creativity, where students can explore their interests and develop their skills.

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IN A FIRST, 23 COLLEGE STUDENTS TO COMPLETE BTECH AT IIT INDORE

Times News Network

Indore: IIT Indore has achieved a milestone by allowing 23 college students to complete their B.Tech degree at the institute. This is a first for IIT Indore, as it has always been a premier institution for postgraduate studies. The students are from various colleges and have completed their B.Tech degree through a rigorous program of study and research.

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IIT-Indore unveils three labs on Ujain campus

Indore: As part of the ongoing mission to expand its reach, IIT Indore has inaugurated three new laboratories on its Ujain campus. The labs are designed to provide students with hands-on experience in various fields of study, including science, technology, and engineering. The labs are equipped with state-of-the-art equipment and facilities to facilitate learning and research.

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'At ₹61 cr, 11 STPs & CETP to be developed'

Continued from P1

Indore: The Government of Madhya Pradesh has approved a plan to develop 11 Sewage Treatment Plants (STPs) and one Central Effluent Treatment Plant (CETP) in the Indore region. The project is valued at ₹61 crore and is designed to improve the water quality of the region and reduce the environmental impact of industrial and domestic wastewater.

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IIT-I signs MoU with state skill devt dept

Indore: Indian Institute of Technology (IIT) Indore has signed a Memorandum of Understanding (MoU) with the state skill development department. The MoU is designed to enhance the technical education and skill development of students, providing them with industry-relevant skills and knowledge. The MoU is a significant step towards improving the employability of students and contributing to the state's economic growth.

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IIT-I to train industry ready talent pool

Times News Network

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Ex-ISRO chairman Sivan to head IIT-Indore board of governors

TIMES NEWS NETWORK

Indore: Former Indian Space Research Organisation (ISRO) chief K Sivan has been appointed the new chairperson of the board of governors of IIT-Indore, the institute's director Suhas S Joshi told TOI on Wednesday.



Sivan was the ISRO chairman from 2018 to 2022 and was in charge of the Chandrayaan-2 mission that was launched on July 22, 2019. Professor Joshi said that the institute is working out Sivan's visit to the campus. The chairperson of the board has a three-year tenure. A note about Dr Sivan's appointment and introduction on IIT-I's website listed his innovative contributions, particularly the strategies adopted in mission design enabling the consistent performance of PSLV P4

Innovators present ideas to address rural challenges

Indore: Innovators and entrepreneurs showcased products and pitched innovations to improve and address challenges faced in rural areas at the Rural Innovators Conclave organised by the Indian Institute of Technology, Indore on Saturday. More than 14 innovators from across the country showcased their products and ideas in the two-day conclave concluded on Saturday. The conclave conducted by the Centre for Rural Development and Technology (CRDT), IIT Indore in association with the Science and Engineering Research Board and saw discussions on challenges faced by rural innovators and upcoming innovations.

CONCLAVE AT IIT

CRDT works for skill development, small scale entrepreneurship, development of value-added products, access and opportunities for gender diversity. It also works on developing user-friendly interfaces for launching e-platforms for various rural activities that require outreach to larger communities, helping rural entrepreneurs to develop and sell their products with easy access to technology and facilitating the gap between skills and outreach. Professor Suhas Joshi, Director, IIT Indore said, "IIT Indore has been engaging with the neighboring institutes and organizations to identify the problems faced by rural India. Our endeavour will be to improve the living conditions by development and application of appropriate and people friendly technologies by adopting participatory, sustainable, transparent and gender sensitive processes."

IIT-I, Choithram join hands to study brain disorders

Indore: A joint research by Indian Institute of Technology Indore, IIT-I and Choithram Hospital and Research Centre has revealed the likelihood of bacterial infection causing brain disorders in human beings leading to medical conditions like Alzheimer's.

Researchers claim the revelations in the study will help in deciding the line of treatment for Alzheimer at an early stage making treatment more effective.

The study to investigate the role of gut bacteria, Helicobacter pylori (H pylori) in gut-brain axis disruption and neuro-inflammation was published in the journal *Virulence* and it emphasized on the possibility of gut microbial secretions entering the brain through one of the longest nerves, connecting gut to the brain and further inducing neuro-related diseases and changing the gut-brain axis (GBA).

The research was led by IIT-I Department of Biociences and Biomedical Engineering associate professor Dr Hem Chandra Jha and Dr Ajay Kumar Jain, Choithram Hospital and Research Centre, Indore. Jha said "Our team has assessed the effect of antimicrobial resistant (AMR) H pylori strains on brain physiology. We now have a potential mechanism linking the stomach bacteria to neurological conditions. This study can help to upgrade the treatment regimen of patients with neurological complications along with prior H pylori infection and deciding the line of treatment for Alzheimer."

IIT में स्थापित होगा मैनुफैक्चरिंग सेंटर ऑफ एक्सिलेंस

इंदौर। आईआईटी इंदौर में मैनुफैक्चरिंग क्षेत्र का सेंटर ऑफ एक्सिलेंस स्थापित होगा। इस सेंटर में शिक्षा और उद्योग जगत के लोगों के लिए काम करने और औद्योगिक समस्याओं का समाधान खोजने के अवसर होंगे। दोनों क्षेत्रों के विशेषज्ञ यहां साथ आकर ज्ञान का आदान प्रदान भी कर सकेंगे।

मैनुफैक्चरिंग के क्षेत्र में काम कर रहे अधिकारियों व कर्मचारियों के लिए विशेष कोर्स भी चलाए जाएंगे जिससे वो अपने कार्यस्थल पर आगे बढ़ सकें और अनुभव और शिक्षा प्राप्त कर सकें। इसे लेकर आईआईटी और केस न्यू इंडीयन कंस्ट्रक्शन इंडियनमेंट (आई) प्रॉलि के बीच एमओयू हुआ है। आईआईटी इंदौर निदेशक प्रो. सुहास जोशी के मुताबिक आईआईटी इंदौर सेंटर ऑफ एक्सिलेंस को स्थापना और संचालन के लिए आवश्यक बुनियादी ढांचा और समयावधि प्रदान करेगा। आई के डायरेक्टर सेंट्रल टिवारी के मुताबिक हम सीएसईआर फंडिंग के तहत अनुसंधान उपकरणों में सहयोग करेंगे।

IIT-I ALUMNI MEET IN HYD HELD WITH 140 EX-STUDENTS, FAMILIES

IIT Indore hosted its second off-campus Alumni Meet in Hyderabad recently, gathering around 140 alumni along with their families. Prof. Suhas Joshi, director of IIT Indore, along with Deans, Registrar, faculty, and staff, attended the event. Prof. Joshi highlighted the institute's journey and recent developments, expressing pride in alumni accomplishments. Prof Suman Mukhopadhyay and other deans discussed current and future institute activities. The event featured the release of the 2023 edition of the Alumni Magazine, performances by alumni and students, and felicitation of volunteers. It celebrated the institute's vibrant community and shared successes.



IIT-I starts centre for translational research

Indore: Indian Institute of Technology (IIT) Indore inaugurated the centre for translational research on the occasion of its 15th foundation day on Saturday. The translation research centre was established to formalize the translation research ecosystem and extend the commercialization of technology from research to product stage, the institute said in a statement.

The institute awarded Excellence Awards on Technology Research Paper and Non-Teaching staff on the foundation day. The chief guest on the occasion Professor Abhay Karandikar, Secretary, Department of Science and Technology (DST), Government of India said, "The new National Education Policy has allowed to make an Atmanirbhar Bharat and I am indeed delighted to see that IIT Indore has taken several initiatives in line with the objectives and vision of NEP. It is heartening to know that IIT Indore has programs to include innovative students from top IITs and Govt Colleges of Engineering in the curriculum of the Institute during their first year. I am happy to note that IIT Indore is engaged in expanding the current technologies to higher Technology readiness levels and bring out market ready products. An exhibition showcasing technologies evolved out of the research at IIT Indore including researches done by the Centre for Rural Technology Development was also organised. A technology handbook, compilation of 135 sessions of a popular programme of IIT-I, Vigyan For Charita and a compilation of minutes of Board of Governors meeting were released on the occasion. Professor Suhas Joshi, Director, IIT Indore, said, "In the years to come, we have made major plans and thought processes underway for the expansion of our teaching and research activities and making them more relevant to the industry and society. In this context, we are planning for some of our new UG and PG level programmes. Development of a new Industrial Research Park where industries can cross-over the industry academia boundary and come closer to us. On this 15th foundation day, let us reaffirm our commitment to excellence, innovation and societal impact. May the years ahead be filled with even greater achievements, breakthroughs, and contributions to the advancement of knowledge and the betterment of humanity."

IIT-I collaborates with German universities

Indore: The Indian Institute of Technology at Indore (IIT-I) has signed a Memorandum of Understanding (MoU) with DAAD (German Academic Exchange Service), Germany, to foster academic and research collaborations.

Under this agreement, faculty members from IIT-I and German universities will collaborate to discuss research and academic collaborations, IIT-I said in a statement issued on Saturday.

DAAD is an organisation representing German higher education institutions, which promotes internationalisation of academic programmes by providing funding for faculty and student exchange programmes from around the world. The MoU signing took place at the German Embassy in New Delhi on October 11, 2023. Dr Philipp Ackermann, the German Ambassador to India, shared his views on strengthening partnerships between Indian higher education institutions and German universities. TNN

Conservation plan: IIT-I to conduct study on Narmada

Indore: Indian Institute of Technology Indore (IIT-I) will conduct a detailed study on Narmada River and prepare a report on erosion hotspots, flood-prone areas, sewerage and drainage network as part of the National River Conservation Directorate. The study is part of the memorandum of understanding (MoU) signed between the Ministry of Jal Shakti and academic institutions of the country under the National River Conservation Plan. The ministry had signed agreements with 12 different technical institutes including IITs, NITs, and NEERI for preparing the outlines of river basin management plans for Narmada, Godavari, Krishna, Cauvery, Periyar and Mahanadi. IIT-I in collaboration with IIT Gandhinagar will conduct an extensive study of the 80,700 sq km wide riparian Narmada River basin. Professor Manish K Gupta from IIT-I said "IIT Indore will provide a detailed water budget report and identify sediment contaminated regions and erosion hotspots. Detection and prediction of the flood-prone areas and suggesting measures for assessing and sustaining the aquatic biodiversity in the region will be focused upon." IIT-I will conduct a detailed analysis of the soil, rock and water quality availability in the region and provide proper sewerage and drainage network plan, sanitation mapping. The institute will also study the potential of integrated solid waste management practices and viability of sustainable biological treatment techniques in the Narmada River basin. The Mahanadi River basin will be studied by NIT Raipur and NIT Bhopal, the Godavari River basin by IIT Hyderabad and NEERI Nagpur; the Cauvery River basin by IISc Bengaluru and NIT Tiruchirappalli; the Periyar River basin by IIT Palakkad and NIT Calicut. These institutes will indulge in research, monitoring and gathering technical knowledge required for the condition assessment and management plan in basin management of the rivers.

IIT-I plans to recycle food waste into compost, biofuel

Indore: Taking a step towards achieving sustainable waste management goals, Indian Institute of Technology (IIT) Indore is planning to recycle food waste into compost and biofuel. The institute has initiated a pilot project to convert food waste into compost and biofuel. The project is being implemented in collaboration with the local government and the community. The institute has set up a food waste collection system and a composting unit. The compost will be used for agricultural purposes and the biofuel will be used for generating electricity. The institute is also planning to set up a biogas plant to produce biogas from food waste. The project is expected to reduce the amount of food waste sent to landfills and generate a sustainable source of energy and fertilizer.

IIT ने हरियाणा के 238 सरकारी स्कूलों में स्थापित की एस्ट्रोनामिमी लैब

हरियाणा के 238 सरकारी स्कूलों में स्थापित की एस्ट्रोनामिमी लैब। IIT Indore ने हरियाणा के 238 सरकारी स्कूलों में स्थापित की एस्ट्रोनामिमी लैब। यह लैब हरियाणा के विभिन्न भागों में स्थित है। IIT Indore ने हरियाणा के विभिन्न भागों में स्थापित की एस्ट्रोनामिमी लैब। यह लैब हरियाणा के विभिन्न भागों में स्थित है। IIT Indore ने हरियाणा के विभिन्न भागों में स्थापित की एस्ट्रोनामिमी लैब। यह लैब हरियाणा के विभिन्न भागों में स्थित है।

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Institute Events and Functions

International Day of Yoga - 2023

Following the eternal mantra of “Yoga for Vasudhaiva Kutumbakam” IIT Indore celebrated the 9th International Day of Yoga. The event was conducted by Mrs. Manisha Manjul Pandey, a Yoga Instructor and practitioner. She has done her masters in English and Yoga. Apart from this, she has also graduated from Music and Education. At present, she is a teacher in Vinyasa Yogashala, Rishikesh and specializes in conducting meditation classes with Yoga Nidra and Mantra chanting. Manisha incorporates the techniques of world's most renowned system: "Bihar School of Yoga" which is known for its authentic and practical aspects of imparting quality teaching throughout the world. The event saw a large participation of students, faculty members, staff, and families.



11th Convocation Day - 2023

IIT Indore hosted the 11th Convocation of 2023 batch on July 15, 2023. Out of the total of 554 -degree recipients, 470 were present at the ceremony. The batch comprised of 297 B.Tech, 101 M.Sc., 62 MTech, 12 MS Research and 82 Ph.D. students. Dr. Volker Epping, President, Leibniz University Hannover Germany was the Chief Guest. Shri Senapathy “Kris” Gopalakrishnan, Chairman, Axilor Ventures, Co-founder Infosys, and President, Infosys Science Foundation, was the Guest of Honour of the ceremony. Prof. Deepak B. Phatak, Chairman, Board of Governors, and Prof. Suhas S. Joshi, Director IIT Indore were also present during the occasion.



Mr. Purnadip Chakrabarti from Computer Science and Engineering was awarded the President of India Gold Medal for the best academic performance among all the graduating UG students. Krishanu Saini of Computer Science and Engineering, Satyam Vatsa of Civil Engineering, Aryan Rastogi of Electrical Engineering, Ishika Budhiraja of Mechanical Engineering and Rama Sandeep Edlabadkar of Metallurgical Engineering & Materials Science were the recipients of Institute Silver medals for the best academic performance among all the graduating UG students of a particular Discipline. Samridhi Saxena of M.Tech and Sayeed Kazim Hussain Nasir of M.Sc program also received the Institute Silver medals for the best academic performance among all the graduating PG students. Ms. Srijita Pal of the Department of Chemistry received the ‘Buti Foundation Gold Medal’ for the best female student securing the highest CPI among all the graduating students of all the two years Masters’ Programs. Prasheel Kumar Tiwari and Jyotishna Baishya of Computer Science and Engineering were awarded the best B.Tech Project for “Intra-Sensor Fingerprint Presentation Attack Detection”. Ms. Niyati Totala of Civil Engineering was awarded the Institute Silver Medal for the best all round performance among all the graduating students.

Orientation Program for new B.Tech students - 2023

IIT Indore conducted the Orientation Program of new B.Tech students on August 2, 2023. The event was conducted offline, and parents were also invited. Around 480 students enrolled in various programs including 99 girls, 02 OCI and 03 preparatory. Lieutenant General KH Gawas, Commandant, Military College of Telecommunication and Engineering (MCTE) was the Chief Guest on the occasion.

Four new BTech Programmes in Space Science and Engineering, Chemical Engineering, Mathematics and Computing and Engineering Physics have commenced from this Academic Year. This is in addition to the existing BTech programs in Computer Science & Engineering, Electrical Engineering, Mechanical Engineering, Civil Engineering and Metallurgical Engineering & Materials Science.



Committee of Parliament on Official Language visit - 2023

Indian Institute of Technology Indore participated in the Exhibition and Meeting of the Committee of Parliament on Official Language. Raja Ramanna Centre for Advanced Technology, Indore organized the meeting and exhibition on August 21, 2023 (Monday) at the Indore Marriott Hotel. On this important occasion, the first Sub-Committee of the Committee of Parliament on Official Language held a review meeting. Hon'ble Convener of the first Sub-Committee, Shri Ramchandra Jangra, Member of Parliament, Rajya Sabha chaired the meeting. He was accompanied by Shri Dharmendra Kashyap, Member of Parliament, Lok Sabha; Shri Irranna kadadi, Member of Parliament, Rajya Sabha; Shri Sujeet Kumar, Member of Parliament, Rajya Sabha; Shri Irfan Ahmed Khan, Senior Research Officer; Shri Vikrant Bhatia, Section Officer and Shri Sahdev Singh, Reporter, also, on behalf of the Ministry of Education, Government of India Shri Jagdish Ram Pauri, Joint Director, Official Language, and Smt. Satinder Malhotra, Assistant Director, Official Language were also present. Apart from this, Prof. Suhas S. Joshi, Director, IIT Indore; Prof. Rajesh Kumar, Convenor, Rajbhasha Samiti; Shri S. P. Hota, Registrar; Cdr. Sunil Kumar (Retd.), Joint Registrar; Mr. Ramakant Kaushik, Chief Security Officer; Mr. Rajesh Kumar, Assistant Librarian; and other staff were also present.



On this occasion, samples of all the work related to the official language were displayed by the institute in the exhibition, also, books related to the official language and books on Hindi literature were also displayed. Along with this, the Director and other officers of the institute brief the honourable members about the material displayed in the exhibition.

Prof. Deepak Phatak Tinkerers' Lab inauguration

Indian Institute of Technology Indore (IIT Indore) inaugurated a Prof. Deepak Phatak Tinkerers' Lab, a student managed facility on September 11, 2023. The facility is funded by the Maker Bhavan Foundation (MBF) and the Desai Sethi Foundation and is named after recipient of Padmashri, Prof. Deepak B. Phatak, an exceptional educator, and maker par excellence himself known for his path breaking work on a variety of digital technology domains. The lab will open 24x7 to the IIT Indore community. Prof. Deepak B. Phatak was the Chief Guest and were accompanied by Dr Hemant Kanakia, Chairman and Founder of Maker Bhavan Foundation, and Mr. Bharat Desai, Desai Sethi Foundation.



Hindi Pakhwada - 2023

Indian Institute of Technology Indore organized Hindi Pakhwada (Hindi Fortnight) - 2023 September 14 - 29, 2023 under the aegis of Rajbhasha Samiti. On September 14, 2023, "Hindi Diwas" was celebrated in the Institute and Hindi Fortnight - 2023 celebrations were formally inaugurated. The event was graced by the presence of Professor Sandeep Chaudhary, Dean of Administration, IIT Indore as Chief Guest and the Registrar of the Institute, Mr. S. P. Hota as the Guest of Honor. Also, Professor Rajesh Kumar, Convenor, Rajbhasha Samati and Dr. Sharad Gupta, were present in this glorious event. A total of 5 competitions were

organized in this fortnight. Faculty members, students, officers, and employees actively participated in all the competitions. On September 29, 2023, the children of Kendriya Vidyalaya located in IIT Indore campus had a glance about the books and their authors displayed in the Hindi book exhibition and got acquainted with other books of Learning Resource Centre (Institute Library). In the valedictory session, prize distribution ceremony has been organized to all the winning participants and the First Quarterly Hindi Newsletter of the institute was released.

Alumni Meet - Bangalore Chapter

The IIT Indore has organized its first out of campus Alumni meet-Bangalore Chapter on 23rd September 2023 at The Hilton, Bengaluru Embassy Manyata Business Park Bengaluru. The event was inaugurated by the address of Prof. Suhas S. Joshi, Hon'ble Director, IIT Indore followed by the address of Deans viz. Dean Alumni & Corporate Relations ACR (Prof. Suman Mukhopadhyay), Dean R&D (Prof. Professor I. A. Palani) and Dean Student Affairs (Prof. Srivathsan Vasudevan).

The event was attended by around 200 alumni (along with their family members), who are working in different domain in different companies and industries across the country and abroad. Prof. Joshi shared the entire Journey of institute since the date of its inception in 2009 to the alumni and highlighted the achievements and recent developments in the institute in terms of infrastructure, research, sponsored projects, academic courses, student activities, amenities. The event was also attended by Professor Subhendu Rakshit, Prof. Anand Parey, Prof. Amod C. Umarikar, Prof. Sk. Safique Ahmad, Prof. Ruchi Sharma, Prof. Neminath Hubballi, Prof. Devendra Deshmukh, Dr. Partha Pratim Chattaraj, Sr. VP (ACR) and Mr. Ashok Kumar Dev, Deputy Registrar (ACR) who got an opportunity to interact with their old students and their family members. The other spotlights of the event were: release of the Institute Yearbook 2023, musical performance & standup comedy by alumni & current students, and felicitation of volunteers and performers by the Director, IIT Indore. The program concluded with the vote of thanks by Mr. Siba Prasad Hota, Registrar IIT Indore.



Swachhata Shramdaan Abhiyaan - 2023

Indian Institute of Technology Indore conducted Swachhata Shramdaan Abhiyaan on October 1, 2023 (Sunday), a day before Gandhi Jayanti. In this campaign, the members of the institute participated enthusiastically. On the occasion of this duty-oriented day, the Institute Director Professor Suhas S. Joshi; Professor Srivatsan Vasudevan, Dean of Student Affairs; Professor Devendra Laxmanrao Deshmukh, Dean of Educational Outreach; Professor Manish Kumar Goyal, Dean of Infrastructure Development, Mr. S. P. Hota, Registrar; Dr. Shilpa Raut,

Chief Medical Officer; Mr. Suresh Chandra Thakur, Deputy Registrar (Administration); Ms. Pooja Dutta, Assistant Registrar (Material Management Section); other officers, students and staff were present. Apart from this, Kendriya Vidyalaya located in the institute campus also participated in this work, where the Principal of the school Mrs. Neelam Malviya, other teachers and school children also participated in this campaign with great enthusiasm and made it a success.

Under this campaign, about 200 personnel of the Institute and family members cleaned various places of the institute and participated in the Swachhata Shramdaan Abhiyaan. Also, the people of the institute also visited the forest area spread in the campus to maintain biodiversity. In the same sequence, everyone also cleaned the periphery area of the reservoirs developed and maintained by the Institute campus under the Jal Shakti program. In this way, people made the special program 'Ek Tareekh-Ek Ghanta-Ek Saath' meaningful and pledged to make the country and the institute campus clean and garbage free.

PM inaugurated Academic PODs of IIT Indore

Shri Narendra Modi, Hon'ble Prime Minister, inaugurated the academic pods of IIT Indore on the eve of Gandhi Jayanti i.e. October 2, 2023. He joined online from Gwalior and laid foundation stone of the Student's Hostel under PM-AJAY scheme and third phase of the Institute's Infrastructure Development.

The academic buildings, which are called Pods, are spread over approximately 44,000 square meters, and built at a cost of around INR 128.9 crores. The building comprises of various laboratories and offices of the academic departments. The labs in the Institute emphasises on interdisciplinary curriculum and programs in line with the recommendations of NEP 2020. IIT Indore has developed its academic programmes, research initiatives and outreach activities keeping in mind the 21st century knowledge societies and their aspirations. With the mantra of Think globally, Act globally, IIT Indore is becoming a global hub of learning and research.



IIT Indore amongst 100 labs in the country chosen for 5G Lab testing

Indian Institute of Technology Indore has been chosen amongst 100 5G labs to be set up in the country by the Department of Telecommunications, Government of India. The announcement was made today during the inauguration of 7th edition of India Mobile Congress by the hon'ble Prime Minister at Bharat Mandapam. The labs are being set up to build competencies and engagement in 5G technologies for students & startup communities. This will facilitate the development and experimentation of 5G applications in various socioeconomic verticals.



Whilst the government will fund 80% of the capital expenditure for setting up the lab, a balance of 20% is to be met by the Institute. However, the government will bear 100% of operational expenditure for the next four years.

IIT Indore would focus on advanced quantum and contribute to local development and showcase research innovation globally. The 5G lab equipment would include 5G SA infrastructure (mid band), 5G SIMs, Dongles, IoT Gateway, Router and Application Server to meet lab needs along with management dashboard.

IIT Indore organized iHED Workshop on Internationalization at Indian Higher Education institutions

IIT Indore in collaboration with German Academic Exchange Service (DAAD) organized the iHED workshop on "Internationalization at Indian Higher Education Institutions - Structures and Services" on October 30 & 31, 2023. This workshop was inaugurated by Professor Suhas Joshi, Director IIT Indore and Mrs. Marja-Sirkha Einig, Deputy Consul General, German Consulate, Mumbai. The workshop was intended to deliberate on the best practices and opportunities for collaboration between Indian Higher Education Institutes and German Universities.



This workshop focused on German and Indian strategies for the internationalization of the education institutes and the role of international relations offices in promoting regional, national, and global networks in efficient manner. Various funding and research opportunities available in Germany were also discussed.

67th DAE Symposium on Nuclear Physics-2023

IIT Indore has hosted the 67th DAE Symposium on Nuclear Physics-2023, during December 9-13, 2023, with a pre-symposium orientation program on the theme "Nuclear Shell Model". This is happening in central India for the first time in the 67 years of its history. These symposia aim to provide a scientific forum for the nuclear physics community to present their research work and to interact with the researchers, which helps in furthering the subject boundaries. The scientific deliberations of the symposium consist of plenary talks, oral / poster presentations of contributory papers, and theses presentations. In addition, there was a Young Achiever Award (YAA) and the best PhD thesis award by the Indian Physics Association (IPA). Dr. Aradhana Shrivastava, BARC Mumbai is the Convener and Prof. Raghunath Sahoo, IIT Indore is the local Convener of the symposium.



This event had more than 700 research papers in various areas of nuclear physics- nuclear structure, nuclear reactions, nuclear astrophysics, hadron physics, quark-gluon plasma, electroweak interactions, nuclear instrumentation, and future facilities. This grand event has witnessed around 550 participants from all over India and abroad, which of its kind at IIT Indore. The event was inaugurated on 9th December 2023 with Padma Bhushan Prof. V.S. Ramamurthy, former Secretary of the Department of Science and Technology and a renowned nuclear physicist as the Chief Guest.

The symposium is sponsored by the Board of Research in Nuclear Sciences, Department of Atomic Energy, Govt. of India.

Rural Innovators Conclave – 2024

IIT Indore organized Rural Innovators Conclave from January 5 to 6, 2024, which has provided a platform to a wide array of innovators and entrepreneurs to showcase their products, pitch and talk about their innovations to improve rural life. The participants can display their products in conclave and identify the problems faced by the rural population and find potential solutions. The conclave included discussions on challenges faced by Rural Innovators and expected Rural Innovations in the coming 10 years. In addition, more than 14 innovators also showcased their innovation on this occasion. This event is conducted by the Centre for Rural Development and Technology, IIT Indore in association with the Science and Engineering Research Board.



The Centre for Rural Development and Technology, IIT Indore, aims to work into Skill development, small scale entrepreneurship, development of value-added products, access and Opportunities for Gender diversity, developing user-friendly interfaces for launching e-platforms for various rural activities that require outreach to larger communities, helping rural entrepreneurs to develop and sell their products with easy access to technology and facilitating the gap between skills and outreach.

The inaugural session was attended by Prof. Suhas Joshi, Prof. Virendra Kumar, CRDT IIT Delhi, Dr. Debapriya Dutta, Head and Senior Advisor - SEED Division, DST, Dr. Neha Gupta, Senior Consultant, State Policy & Panning Commission, Madhya Pradesh, Prof. Parul Rishi, IIFM Bhopal, Mr. Siddharth Jain, CEO, Indore Jila Panchayat, Smt. Bharti Thakur, Secretary, Narmada, Prof. Sandeep Chaudhary, Dean (Administration) and Dr. Debayan Sarkar, Head CRDT.

World Hindi Day – 2024

Indian Institute of Technology Indore organized World Hindi Day - 2024 on January 10, 2024 (Wednesday) under the aegis of Rajbhasha Samiti. The event was graced by Professor Sandeep Chaudhary, Dean of Administration as the Chief Guest, and Mr. S. P. Hota as the Guest of Honour, also, Professor Rajesh Kumar, Convenor, Rajbhasha Samiti and Dr. Sharad Gupta, were present. On this auspicious occasion, all the guests and scholars released the Hindi Quarterly Newsletter, Second Issue, January - 2024 & Hindi Calendar - 2024 published by the Rajbhasha Samiti of the Institute.



Many faculty members, officers, students, and employees were present in this event. Guest of Honour and Registrar of the Institute, Mr. S. P. Hota first extended his heartfelt wishes of World Hindi Day to the IIT Indore community. After this, he drew the attention of the people through PPT about all the activities related to Rajbhasha in the institute last year and some of the proposed programs, which was an important part of this function. Former conveners and members of the Rajbhasha Samiti were honored for doing top-notch work in the implementation of Hindi in the institute. Also, a Hindi research poster presentation event was organized on the auspicious occasion of World Hindi Day.

IInvenTive – 2024

IIT Indore participated in the second edition of India's largest research and development (R&D) fair, IInvenTiv 2024, that was held on January 19th and 20th, 2024, at IIT Hyderabad. The fair aimed to promote inclusive involvement of the best institutes in India to develop a self-reliant and developed India by 2047. IInvenTiv 2024 was inaugurated by Shri. Dharmendra Pradhan, Union Minister of Education and Skill Development, in the presence of Mr. K. Sanjay Murthy Secretary of Higher Education.



Indian Institute of Technology, Indore, showcased four of its technologies in the domains of Defense and Space Technology, Agriculture and Food Processing, Industry 4.0, and Affordable Healthcare. From a total of 250 technologies, 128 were selected to be showcased of which 04 were from IIT Indore. These technologies were developed by the research groups of eminent professors of IIT Indore including Prof. I. A. Palani, Prof. Trapti Jain, and Prof. Shaibal Mukherjee.

Alumni Meet – Hyderabad Chapter

IIT Indore has organized its second out of the campus Alumni Meet-Hyderabad on February 10, 2024, at Hyderabad. The event was attended by around 140 alumni (along with their family members), who are working in different domain in different companies and industries across the country and abroad.

Prof. Suhas Joshi, Director, IIT Indore along with Deans, Registrar, faculty members and staff attended the event. Prof. Joshi shared the journey of the Institute since inception and highlighted the achievements and recent developments in terms of infrastructure, research, academic courses, student activities, & amenities

Prof. Suman Mukhopadhyay, Dean ACR highlighted the present and future activities being undertaken by institute while Prof. Palani, Dean R&D & Prof. S. Vasudevan, Dean Student Affairs provided an insight about the vigorous and propelling growth of institute.

The event also included release of the 2023 edition of Institute's Alumni Magazine IITI-Alumnus, "Giving back to Alma Mater" campaign, musical & dance performances by alumni, staff & current students, and felicitation of volunteers and performers.



15th Foundation Day - 2024

Indian Institute of Technology Indore celebrated the 15th Foundation Day of the Institute on February 17, 2024. A series of event was planned during the day. Professor Abhay Karandikar, Secretary, Department of Science and Technology (DST), Government of India was the Chief Guest. Prof. Deepak B. Phatak, ex-Chairman, Board of Governors and Prof. Suhas Joshi, Director, were also present during the event.

A series of event was planned during the day. The major attraction of the day was the inauguration of Centre for Translational Research. It has been established to formalize the translation research ecosystem and extend the commercialization of technology from research to product stage. Five Translational Research Fellowship have been awarded for upgrading the current technologies to Higher TRL levels to bring out market ready products and were showcased. In addition, an exhibition of technologies that have been evolved out of the research at IIT Indore has been conducted. It also included technologies from the Centre for Rural Technology Development.

The Institute also adopted the Govt. Middle School Gazinda so that it can provide handholding to enhance their learning experience. The school children along with the Headmaster was specially invited for the event.

A technology handbook, compilation of 135 sessions of popular programme of the Institute, Vigyan Par Charcha and a compilation of minutes of BoG meeting were also released. The Institute Excellence Awards on Technology, Research Paper and Non-Teaching staff were also given during the event.

PMRF Annual Symposium 2024

IIT Indore hosted the "PMRF Annual Symposium 2024" a two-day event featuring Prime Minister's Research Fellows from PMRF granting institutions across various science and engineering fields. This symposium, held on March 3rd and 4th, was a confluence of intellectual discussions, academic insights, and cultural enrichment. The Chief Guest of the symposium was Prof. Devang V. Khakhar, former Director IIT Bombay, and was hosted by Prof. Suhas Joshi, Director, IIT Indore.

The sessions included plenary talks on Cutting-edge Research, Academic Pedagogy for the future, Doing Science in India and (As a Woman), An enviable journey with experiments, Indian Knowledge Systems & its current day relevance, what it takes to be a good teacher? and Research across borders: Prominence and Productivity were delivered by eminent speakers.

The Prime Minister's Research Fellows (PMRF) Scheme has been designed for improving the quality of research in various higher educational institutions in the country. With attractive fellowships, the scheme attracts the best talent into research thereby realizing the vision of development through innovation.



Fluxus - 2024

Fluxus 2024, the eleventh edition of the Annual Techno-Cultural Festival of IIT Indore was conducted from 6th-9th March 2024. The event kicked off on 6th March with a performance under the SPICMACAY banner by Pandit Brij Mohan Narayan, followed by Kavyanjali, featuring seven talented poets namely, Prof. Rajesh Kumar, Pankaj Dixit, Rahul Prakash, Mahendar Singh Panwar, Laksh Maheshwari, Rakesh Tiwari and Nidhi Narwal.



The three days of the event, 7th-9th March, witnessed a plethora of technical events, competitions, exhibitions, and showcases. Key competitions included Nitrothrust, Pick N Place, RoboSoccer, RoboSumo, Aero Artistry, Obstacourse, Margdarshak, ConsultX, Gesture Control, Concastle, Euristica, etc. Fluxus also featured exhibitions from several students, labs & prominent institutes such as RRCAT, MCTE. The Technical Events of Fluxus 2024 witnessed 1000+ participants across all domains.

Fluxus also conducted two talk shows, i-Conclave, and Words of Wisdom. i-Conclave was conducted on 8th March and featured Mrs. Sanyukta Sinha, Director of Business Planning, Microsoft India, Mr. Gaurav Bhardwaj, Vice President, Accenture India, Mr. Anant Ladha, Founder, Invest Aaj for Kal. and Prof. Chetan Singh Solanki, Solar Man of India. Words of Wisdom was held on 9th March and featured Dr. Vijender Chauhan, Chef Harpal Sokhi, Raj Shamani, and Anubhav Dubey.

Fluxus had not just technical events, but cultural too. Two Bands, Koi Paanch and Ziddi, performed on 7th March at Nalanda Auditorium. This was followed by the two pronites featuring, Prog-Fusion Band Pineapple Express on 8th March and Bollywood Music Composers Sachin-Jigar on 9th March to conclude the event.

Inauguration of Deep-Tech Research and Development Centre at Ujjain

As part of the upcoming campus at Ujjain, IIT Indore inaugurated three state-of-the-art labs under Centre for Experiential Learning on Innovation, Technology and Entrepreneurship (C-ELITE) in Ujjain Engineering College today. The inauguration was done by Dr. Mohan Yadav, Hon'ble Chief Minister of Madhya Pradesh. Shri Dhamendra Pradhan, Hon'ble Cabinet Minister for Education and Skill Development and Entrepreneurship in the Government of India and Prof. Suhas Joshi, Director, IIT Indore joined online.

The labs include MakersSpace, Heritage and Innovation Centre in Astronomy and Space Engineering (HICASE) and Laser Engineering. Makerspace Laboratory will provide an enabling physical environment for young engineering students to go hands-on and give form and expression to their innovative and creative minds. The objective is to empower students to take systems apart, examine the component parts, and rebuilding back the original systems. It will also help the students to put together new systems, to convert creative ideas into actual engineering products.



IIT Indore will be developing 250 new technologies in 5 years. Through Lab-to-Market program, it is envisioned to incubate 150 ideas and convert at least half of them to be market ready. In addition, the campus will have degree programs, executive programs, and skill development programs. It is also planned to train 2500 personnels in deep technology in 5 years.

Narmada River Basin Management

IIT Indore, in collaboration with IIT Gandhinagar, has been assigned to extensively study the 98,796 sq. km widespread Narmada River basin in accordance with the MoU signed with the Union Ministry of Jal Shakti. Team of Professors led by Prof. Manish K. Goyal attended the event.

The NRCD's initiative to undertake the study on Condition Assessment & Management Plan (CAMP) for these six river basins is a significant step towards cleanliness of rivers. This marks the beginning of a new era in river basin management and the holistic approach India has taken in addressing water-related issues, citing initiatives related to drinking water, river cleaning, and groundwater recharge as among the largest globally. Towards this, it is important that the academia and government works together for river basin management.



Fireside Chat by Chairperson, Board of Governors with Students



Dr. K. Sivan, Chairperson, Board of Governors along with Prof. Suhas S. Joshi, Director, IIT Indore had an interaction with the students in Auditorium. A great exchange of ideas and ethics took place in this session. In this fireside chat, students shared their thoughts and concerns regarding their future roadmap of the career to Dr. K. Sivan. Honorable Chairperson Dr. Sivan has also shared his life journey experience & thoughts among students, faculty members, and staff members. This session provides a platform for sharing success stories, inspiring current students with real-life experiences.

Blood Donation Camp - 2024

Indian Institute of Technology Indore conducted Blood Donation Camp on February 7, 2024, with a special significance as it is part of the celebration of our institute's 15th Foundation Day. The event was graced by Prof. Suhas S. Joshi, Director; Prof. Sandeep Chaudhary, Dean of Administration; Prof. Srivatsan, Dean of Student Affairs and Shri S. P. Hota, Registrar. This event is carried out in collaboration with Model Blood Bank, M Y Hospital, and MGM Medical College, Indore. A total of three hundred twenty-one individuals from our IIT Indore community donated blood, and Chief Medical officer extended her heartfelt congratulations to these heroes for their noble act. The success of the blood donation campaign is attributed to the dedication of the student volunteers under the leadership of the Avana team.



Green Campus Drive – Transplantation of trees

The Indian Institute of Technology Indore has initiated a commendable tree transplantation initiative. This program has been implemented primarily to preserve the ecological balance. Tree transplantation is the process of uprooting trees from their original location and planting them at new places, which is to re-grow trees at new locations. By providing an area for the numerous trees that were uprooted during Khandwa Road's widening and planting them within the institute, the institute is carrying out highly significant and environmentally friendly activities. If we assess the current scenario of the environment in the world, then we find that life is moving towards anxiety due to global warming on the earth. Prolific trees are being replanted on the institute premises in response to this, to preserve the ecological balance of both the institute and the surrounding area. Additionally, the Institute has also taken initiative revive water bodies on the campus. Taking forward this ambitious initiative, 8 lakes and several check dams have been revived for water and soil conservation.



Capacity Building Workshop on Environmental Humanities for Sustainability: Interdisciplinary Dimensions



Cultural Programme Organized by The Environmental Humanities Workshop (JPN Centre)



राजभाषा समिति

1. वार्षिक प्रतिवेदन एवं वित्तीय प्रतिवेदन – 2022-23

भारतीय प्रौद्योगिकी संस्थान इंदौर में प्रत्येक वर्ष अनिवार्य रूप से हिंदी व अंग्रेजी में वार्षिक प्रतिवेदन तथा वित्तीय प्रतिवेदन प्रकाशित किया जाता है। संस्थान के वार्षिक प्रतिवेदन में, पिछले वर्ष विभिन्न विभागों, अनुभागों एवं केंद्रों द्वारा किए गए महत्वपूर्ण कार्यों एवं उनके सफल परिणामों की जानकारी प्रविष्ट की जाती है जैसे कि संकाय सदस्यों द्वारा प्रौद्योगिकी के क्षेत्र में प्रस्तुत किए गए शोध- पत्र, पोस्टर प्रस्तुतीकरण, प्राप्त किए गए पेटेंट इत्यादि। साथ ही, इस प्रतिवेदन में पिछले वर्ष आयोजित किए गए विभिन्न कार्यक्रम, बैठक, सम्मेलन इत्यादि का भी विवरण दिया जाता है। वहीं, वित्तीय प्रतिवेदन में विभिन्न विभागों, अनुभागों व केंद्रों के अलग-अलग मदों में खर्च की गई धनराशि का ब्यौरा दिया जाता है। दोनों प्रतिवेदन को मिलाकर, संस्थान के अनुवादक एवं अन्य कर्मचारियों की मदद से वर्ष 2022-23 के वार्षिक एवं वित्तीय प्रतिवेदन के लगभग 45 हजार अंग्रेजी शब्दों का अनुवाद किया गया।



2. राजभाषा कार्यान्वयन प्रशिक्षण – 2023

भारतीय प्रौद्योगिकी संस्थान इंदौर में दिनांक 4-8-2023 (शुक्रवार) को राजभाषा कार्यान्वयन प्रशिक्षण का आयोजन किया गया। इस अवसर पर, प्रशिक्षिका के रूप में आयकर विभाग की सहायक निदेशक (राजभाषा) श्रीमती प्रज्ञा द्विवेदी को आमंत्रित किया गया। इस प्रशिक्षण के प्रारंभ में प्रशिक्षिका ने सभी लोगों को राजभाषा की पृष्ठभूमि के बारे में बताया। इसके बाद, इन्होंने राजभाषा के मूल तत्वों के ऐतिहासिक, सामाजिक एवं सांस्कृतिक परिपेक्ष्यों से अवगत कराया। साथ ही, राजभाषा के अलग-अलग अधिनियम तथा उनके अनुप्रयोग को लेकर भी ध्यान आकर्षित किया एवं राजभाषा के क्षेत्रीय वर्गीकरण तथा उन क्षेत्रों में आनेवाले विभिन्न राज्यों का राजभाषा कार्यान्वयन के प्रति दायित्व समझाया। इसके अतिरिक्त, संसदीय राजभाषा समिति के मुख्य तथ्यों के बारे में बताया, जिसमें इन्होंने संसदीय राजभाषा समिति की निरीक्षण प्रश्नवाली की विस्तार से व्याख्या की एवं उनसे जुड़ी समस्याओं का निस्तारण किया। इस प्रशिक्षण के दौरान, प्रशिक्षिका ने राजभाषा के अलग-अलग कार्यान्वयन कार्यों के बारे में कई नियम बताए गए, जिसमें प्रशासनिक, गैर-प्रशासनिक एवं अन्य दृष्टिकोण से कई सारी बातें समझायीं। साथ ही, यह भी बताया गया कि राजभाषा के प्रति हमारे क्या-क्या कर्तव्य होने चाहिए एवं इसके निर्वहन का तरीका बताया गया।



3. संसदीय राजभाषा समिति – 2023

भारतीय प्रौद्योगिकी संस्थान इंदौर ने संसदीय राजभाषा समिति की प्रदर्शनी एवं बैठक में भाग लिया। यह बैठक एवं प्रदर्शनी दिनांक 21-8-2023 (सोमवार) को राजा रामन्ना प्रगत प्रौद्योगिकी केंद्र इंदौर द्वारा इंदौर मैरियट होटल में आयोजित की गई। इस अवसर पर, संसदीय राजभाषा समिति की पहली उप-समिति ने समीक्षा बैठक की। इस अवसर पर, पहली उप-समिति के संयोजक श्री रामचंद्र जांगड़ा, सांसद सदस्य, राज्य सभा ने इस बैठक की अध्यक्षता की। इनके साथ, श्री धर्मेन्द्र कश्यप, सांसद सदस्य, लोक सभा; श्री ईरण कड़ाड़ी, सांसद सदस्य, राज्य सभा; श्री सुजीत कुमार, सांसद सदस्य, राज्य सभा; श्री इरफान अहमद खान, वरिष्ठ अनुसंधान अधिकारी; श्री विक्रान्त भाटिया, अनुभाग अधिकारी एवं श्री सहदेव सिंह, रिपोर्टर मौजूद रहे। साथ ही, शिक्षा मंत्रालय, भारत सरकार की ओर से श्री जगदीश राम पौरी, संयुक्त निदेशक, राजभाषा एवं श्रीमती सतिन्दर मल्होत्रा, सहायक निदेशक, राजभाषा भी उपस्थित रहीं। इस अवसर पर, प्रदर्शनी में संस्थान की ओर से राजभाषा से संबंधित सभी कार्य के नमूने लगाए गए एवं राजभाषा से संबंधित पुस्तकें एवं हिंदी साहित्य की पुस्तकें भी लगाई गईं। साथ ही, संस्थान के निदेशक एवं अन्य अधिकारीगण ने माननीय सदस्यों को प्रदर्शनी में लगी सामग्रियों से अवगत कराया। इस प्रदर्शनी में, हमारे संस्थान की ओर से 'विज्ञान पर चर्चा' नामक कार्य विशिष्ट कार्य के रूप में प्रस्तुत किया गया।



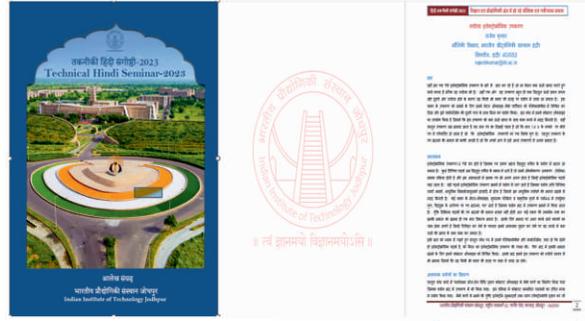
4. हिंदी पखवाड़ा – 2023

हिंदी की परंपरा को आगे बढ़ाते हुए प्रत्येक वर्ष की तरह, भारतीय प्रौद्योगिकी संस्थान इंदौर द्वारा राजभाषा समिति के तत्वावधान में दिनांक 14 से 29 सितंबर, 2023 के दौरान हिंदी पखवाड़ा 2023 का आयोजन किया गया। 14 सितम्बर, 2023 को संस्थान में हिंदी दिवस मनाया गया तथा हिंदी पखवाड़ा . 2023 समारोह की औपचारिक शुरुआत की गई। कार्यक्रम के मुख्य अतिथि के रूप में संस्थान के अधिष्ठाता (प्रशासन) प्रोफेसर संदीप चौधरी की गरिमामयी उपस्थिति रही। साथ ही, सम्मानित अतिथि के रूप में संस्थान के कुलसचिव श्री एस. पी. होता तथा अध्यक्ष के रूप में संस्थान की राजभाषा हिंदी समिति के संयोजक प्रोफेसर राजेश कुमार एवं डॉ. शरद गुप्ता उपस्थित रहे। इस पखवाड़े में कुल 5 प्रतियोगिताएँ आयोजित की गईं। सभी प्रतियोगिताओं में संकाय सदस्यगण, छात्रगण, अधिकारीगण तथा कर्मचारीगण की सक्रिय भागीदारी रही। हिंदी पखवाड़ा के समापन समारोह के अवसर पर संस्थान की प्रथम हिंदी त्रैमासिक समाचार पत्रिका का विमोचन किया गया। इसी क्रम में, दिनांक 29 सितंबर, 2023 को आई.आई.टी. इंदौर परिसर में स्थित केंद्रीय विद्यालय के बच्चों ने हिंदी पुस्तक प्रदर्शनी में लगाई गई पुस्तकों एवं उनके लेखकों के बारे में जाना एवं विद्यार्जन संसाधन केंद्र (संस्थान पुस्तकालय) के अन्य पुस्तकों से भी परिचित हुए।



5. तकनीकी हिंदी संगोष्ठी – 2023

भारतीय प्रौद्योगिकी संस्थान इंदौर के भौतिकी विभाग के प्रोफेसर राजेश कुमार ने भारतीय प्रौद्योगिकी संस्थान जोधपुर द्वारा आयोजित तकनीकी हिंदी संगोष्ठी – 2023 में अपना शोध-पत्र प्रस्तुत किया एवं उनका शोध-पत्र प्रकाशित हुआ। इस अवसर पर, प्रोफेसर कुमार ने 'लचीला इलेक्ट्रोक्रोमिक उपकरण' पर अपना व्याख्यान दिया। इस पहल से संस्थान के अन्य शोधकर्ता भी हिंदी में शोध-पत्र लिखने की सकारात्मक शुरुआत कर रहे हैं। इसी परंपरा को आगे ले जाते हुए संस्थान में हिंदी अनुसंधान पोस्टर प्रस्तुतीकरण का आयोजन विश्व हिंदी दिवस – 2024 के शुभ अवसर पर किया गया।



6. एक दिवसीय कंठस्थ 2.0 प्रशिक्षण कार्यक्रम – 2023

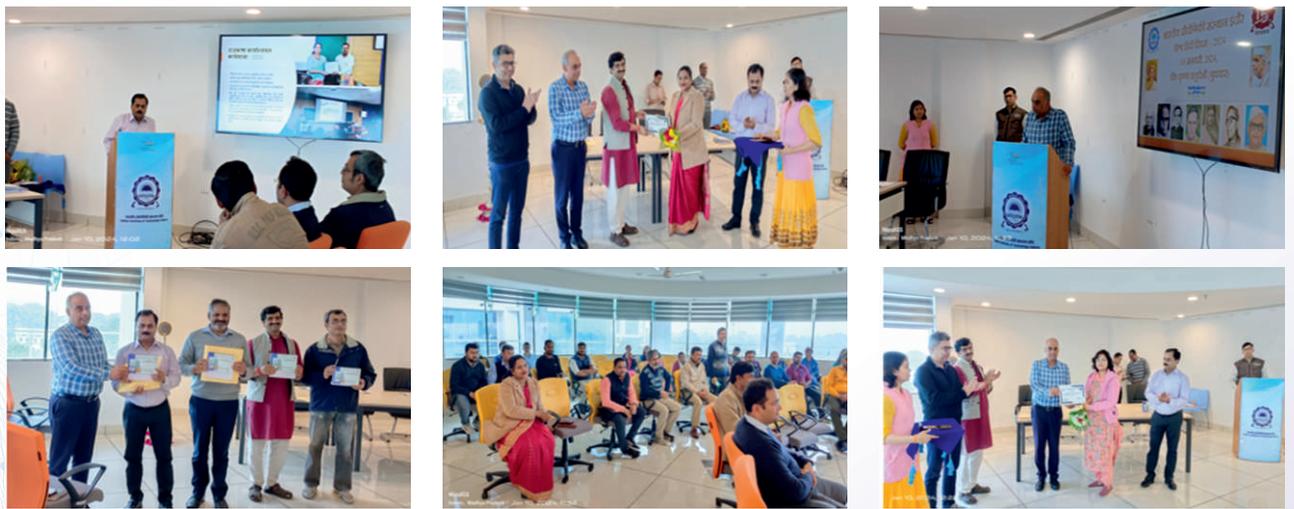
राजभाषा विभाग, गृह मंत्रालय, भारत सरकार एवं सी-डैक, पुणे द्वारा संयुक्त रूप से आयोजित एक दिवसीय कंठस्थ 2.0 प्रशिक्षण कार्यक्रम में भारतीय प्रौद्योगिकी संस्थान इंदौर की ओर से संस्थान के कनिष्ठ हिंदी अनुवादक श्री शिशिर कुमार ने भाग लिया एवं सफल रूप से प्रशिक्षण प्राप्त किया। इसके साथ, संस्थान के अन्य कर्मचारी भी कंठस्थ 2.0 अनुवाद टूल का उपयोग कर रहे हैं एवं इस टूल को कुशल तरीके से हिंदी कार्यान्वयन के लिए उपयोगिता में ला रहे हैं।



7. विश्व हिंदी दिवस – 2024

संस्थान की राजभाषा समिति द्वारा दिनांक 10 जनवरी, 2024 को विश्व हिंदी दिवस कार्यक्रम का आयोजन किया गया। इस कार्यक्रम का आयोजन संस्थान के पुस्तकालय (लघु सम्मेलन कक्ष) में हुआ। इस अवसर पर संस्थान के अधिष्ठाता प्रशासन प्रोफेसर संदीप चौधरी, कुलसचिव श्री एस पी होता, राजभाषा समिति के संयोजक प्रोफेसर राजेश कुमार, डॉ. शरद गुप्ता, संयुक्त कुलसचिव कमांडर सुनील कुमार (सेवानिवृत्त), उप कुलसचिव (प्रशासन) श्री सुरेश चंद्र ठाकुर एवं अन्य

अधिकारीगण, छात्रगण, संकाय सदस्य तथा कर्मचारियों की उपस्थिति में कार्यक्रम का शुभारंभ हुआ। इस अवसर पर, हिंदी की महत्ता पर ध्यान आकर्षित करते हुए नूतन वर्ष 2024 के हिंदी संस्करण वाले कैलेंडर का विमोचन किया गया। साथ ही, विश्व भर में हिंदी भाषा का प्रचार-प्रसार हो सके, इसलिए संस्थान के संकाय सदस्यों, छात्र/छात्राओं एवं कर्मचारियों के समक्ष संस्थान की द्वितीय हिंदी त्रैमासिक समाचार पत्रिका का विमोचन अतिथियों द्वारा किया गया। साथ ही, संस्थान में हिंदी के कार्यान्वयन में महत्वपूर्ण योगदान देने के लिए राजभाषा समिति के पूर्व सदस्यों को प्रशस्ति-पत्र, मोमेंटो व पुष्पगुच्छ देकर उनका सम्मान किया गया। इसके बाद, प्रौद्योगिकी को ध्यान में रखते हुए विश्व हिंदी दिवस के शुभ अवसर पर, हिंदी अनुसंधान पोस्टर प्रस्तुतीकरण का भी आयोजन किया गया था। अंत में, इस कार्यक्रम का समापन लोगों के बीच भेंट के रूप में नूतन वर्ष – 2024 के कैलेंडर एवं समाचार पत्रिका का वितरण करके किया गया।



Institute Facilities

Learning Resource Center

The Learning Resource Center (LRC) has been providing essential support to the Institute's teaching, learning, research and other scholarly activity on the campus. Using appropriate technology, the library delivers resources to satisfy information needs, promote lifelong learning and create productive environments for the scholarly community.



Figure 1. The Learning Resource Center (LRC) Building

Library Collection

The library continues to build and extend its collection in print and digital formats. These include books on all relevant subjects for teaching and research. The LRC also boasts of a fine collection of fiction, literature, and general interest books such as current events, sports, etc., to take care of the users' leisure and recreational reading needs. Special Collections such as the Gandhian Studies Collection, Hindi Collection, Children's Books Collection, and Matrubhasha Collection take pride of place in the LRC. The total collection of print books is 41,210+, and E-Books are 8,050+ as on 31st March 2024.



Figure 2. Reading Halls

Electronic Resources

In today's world of Information explosion, access to electronic information resources is essential, particularly in an academic environment. During the year 2024, the LRC has subscribed and provided access to more than 3800+ e-Journals and 10 databases. Some of the major subscribed e-resources are Science Direct (5 subject collection), Taylor & Francis (Science and Technology package), American Chemical Society, ASCE, Royal Society of Chemistry, IEEE/IET Electronic Library, SIAM, MLA International Bibliography fulltext, ACI standard and journals, SciFinder -n, Scopus, Indiastat, CMIE Prowess, CSD Enterprise Campus, Grammarly, Turnitin Feedback Studio, etc.

Further, as a member of the E-Shodhsindhu Consortium, IITI academic community is getting access to more than 5,000+ e-Journals and some databases. The complete list of e-resources with hyperlinks is available on the LRC website for users' convenience.

Institutional Repository

The library has created an Institutional Digital Repository (<http://dspace.iiti.ac.in:8080/jspui/>) using a widely used open source DSpace software to collect, preserve, organize and provide access to the creative and scholarly works and research of IIT Indore's faculty, students, and staff. This repository contains more than 12,420+ items in the following collections: IITI Scholarly Publications (Research articles and books), Theses & Dissertations, B.Tech Projects, Digital Humanities Lab, Newspaper Clippings, Resources for Visually Impaired Persons (Audio lectures), Annual Reports, Convocation Reports, etc.

Circulation And Reference Service

The library circulation service is automated using Koha-ILMS (open-source software) and integrated with the RFID system. Users can get issued and return the loan item through an RFID self-service kiosk. From 1st April 2023 to 31st March 2024, a total of 25,091 documents were issued/renewed to all categories of users for home study. User category-wise circulation data is presented in the table below:

	B.Tech.	M.Tech.	M.Sc.	MS Research	Ph.D. & RA	Faculty	Others
Documents circulated for home study	12736	2264	3996	317	3164	1779	835

The library also provides user services like references, the new addition of books, orientation programs for new students, inter-library loans, subject guides, training session programs for e-resources, QR codes for various library services, and faculty profile management through the IRINS portal, etc.

Document Delivery Service Portal

The LRC arranges to procure research articles not held in its collection from different sources. This service is being provided for academic and research purposes to the faculty, research scholars, students and staff within the limit of copyright laws. To streamline this service, the LRC has developed a "Document Delivery Service" portal by using open-source software. This can be accessed at http://library.iiti.ac.in/?page_id=2988 on the library website. There is a total of 1,186+ research articles arranged from other institutions' libraries and provided to IITI users during the period April 2023 to March 2024.

Matrubhasha Collection

This Matrubhasha Collection section of the library was dedicated to the community by Prof. Suhas S. Joshi, Director, IIT Indore. More than 850 books in 8 Indian languages (viz. Sanskrit, Telugu, Kannada, Odia, Marathi, Bengali, Gujarati, and Hindi) have been donated by IIT Indore faculty and staff members.

Swadhyay

The Swadhyay (Self Study Space) of the LRC provides a conducive environment for self-study. This space is independent of the main LRC building and is open 24x7 for its users. A large number of students had utilized and benefited from this facility during the year.

Figure 3. Swadhyay (Self-study Space)



Health Centre



Facilities:

The Health Centre provides dedicated services to the Institute community comprising students, research staff, employees, and their dependents. It has outpatient, daycare, and in-patient facilities for minor ailments. Emergency services are available 24 X 7. It facilitates well-equipped physiotherapy services.

Diagnostic services - In-house Diagnostic laboratory and X-Ray facilities help in comprehensive care. Pediatric immunization is carried out on a weekly basis. The Health Centre team provides essential investigation facilities, including ECG and Rapid investigations such as GRBS.

Specialist Consultation Facilities-Specialist consultation services are available for Dental, ENT, Medicine, Obstetrics and Gynaecology, Psychiatry, Ophthalmology, Orthopedics, and Cardiology cases. Further facilities such as minor dental procedures, Antenatal follow-up, and minor ENT procedures are also made available to community members.

Cases requiring higher investigations and management are referred to empaneled hospitals.

Numerical data of the Health Centre for the year 2022-2023

Total OPD	:	15769
Total Day care and IPD	:	695
Emergency And trauma	:	419
In-house investigations such as ECG, GRBS	:	700
Minor emergencies after OPD hours	:	3143
Total Physiotherapy	:	2940



The Central Workshop, IIT Indore, was established during AY 2011-2012 . It undertakes laboratory classes, fabrications of research and project components. It has excellent infrastructure equipped with modern state-of-the-art facilities and high-end research equipment. CW having seven shops, Machining, Welding, Forming, Foundry, Injection Molding, Fitting, and Carpentry, with a team of efficient and highly skilled work force. The workshop undertakes undertaking turning, milling, drilling, surface grinding, injection moulding, sheet shearing, bending, drawing, wire drawing, nibbling, arc welding, MIG/MAG welding, TIG welding, gas welding, plasma air cutting, induction heating, metal casting, fitting and carpentry related fabrication works.

It was established to provide hands-on experience to students in the Production and Fabrication of simple mechanical components. This is a small, effective, and successful working model using machine tools and computers at the workbench. Students are exposed to different manufacturing methods, materials and components, procedures, and software programs currently used in commercial manufacturing and assembly processes. This is of immense help in transforming students into engineers. The CW supports students and research scholars in realizing their research objectives by providing technical expertise and infrastructure support to perform novel and cutting-edge research. CW also offers opportunities of hands-on training and skill development to students through practical training sessions and workshops.

Professor In charge, Central Workshop

Dr. Dan Sathiaraj Associate Professor (ME) | Email-workshopincharge@iiti.ac.in

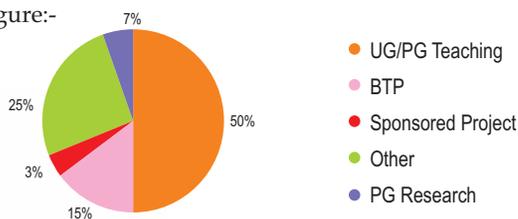


Research Interests:

- Medium to High entropy alloys
- Recrystallization and grain growth study
- Surface modification Engineering (SMAT, Laser Shot-peening, etc.)
- Severe plastic deformation (SPD)
- Micro, Nanomachining of MEAs and HEAs
- Mechanical and functional property study

Activities during the year 2023-2024

• Work Request received at Central Workshop:- The central workshop completed 329 Nos. of work requests during year 2023-2024 for various purposes, including UG/PG Research teaching, PG Research, BTP, Sponsored projects, and other fabrication works. The workshop has utilized available scarp materials to make flowerpot stands, storage rakes, compressor sheds, boxes, tables, stands etc. The distribution of work requests for various categories is shown in following Figure:-



The photographs of some work requests are as follows:



Fabricated Solar Panel- Student Project



Fabricated Iron dustbin for Housekeeping Deptt.



Arch fabricated by using scrap materials for Horticulture Deptt.



Fabricated safety covers for Civil Engg. Deptt.



Machined components for research works



Machined components for research works



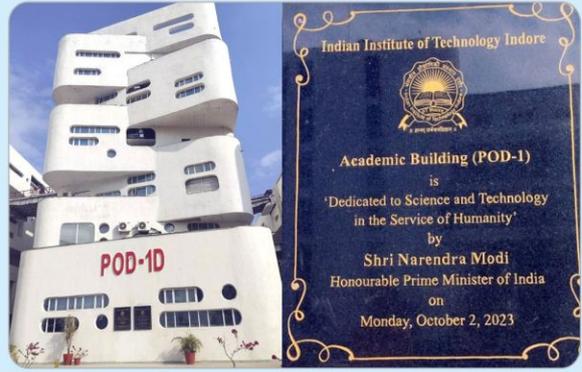
School students visited the Central Workshop



Skill development program organised by the Central Workshop



Inauguration Ceremony of C-ELITE Labs of IIT Indore at Ujjain on 8th March, 2024



Inauguration of Academic Building by Shri Narendra Modi, Hon'ble PM of India on 2nd October, 2023



Release of the compilation of the Minutes of BoG Meetings on the 15th Foundation Day of IIT Indore- 17-02-2024



Dr. K. Sivan took over as the Chairperson of the Board of Governors (BoG) of IIT Indore on 25th August, 2023



11th Convocation of IIT Indore



Celebration of Independence Day



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