

# PLACEMENT BROCHURE

2019-2020

Indian Institute of Technology, Indore



[placement.iiti.ac.in](http://placement.iiti.ac.in)

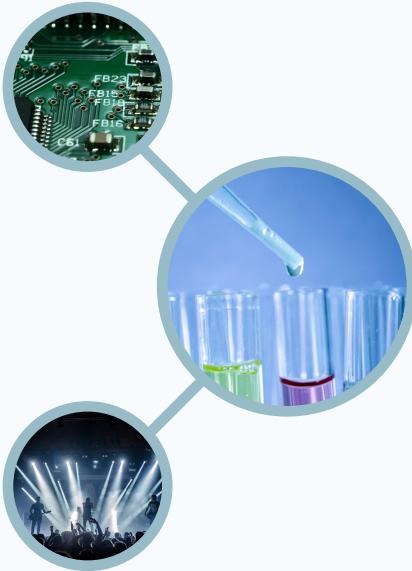
# THE MISSION

# THE VISION

To become a premier institution in the country and the world with cutting edge research and development, and to function as a crucible of ideas for the talented young turks of the country in the context of larger humanistic concerns

To create a gem for our nation in the realms of higher education having world class facilities and world changing minds

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# About IIT INDORE

Indian Institute of Technology Indore (IIT Indore or IITI), located in Madhya Pradesh, is one of the Institutes of Technology established by the Government of India in 2009 and was ranked 13 among engineering colleges in India by the National Institutional Ranking Framework in 2019. It was also ranked 68th amongst the young institutes emerging best in India. In the same ranking, it was ranked in the bracket of 351-400 universities in the world outperforming all other IITs.

Indore is the commercial capital of Madhya Pradesh with many industries in the area of mechanical engineering, pharmacy and electronics. This gels perfectly with the disciplines of study provided in the institution. Indore is also an educational hub and apart from a young and a vibrant student population, also has institutes of international repute like Raja Ramanna Center for Advanced Technology (RRCAT), IUCAA (Inter University Center for Astronomy and Astrophysics), and IIM (Indian Institute of Management) This environment has proved perfect for setting up an esteemed institution, and has helped us in making great strides in recent times.



# Message from Director



**Prof. Neelesh Kumar Jain**

Director, IIT Indore

IIT Indore has come a long way since its inception in 2009 and has quickly shown that as an institute it stands for excellence in technical education and research. With more than 90% placements every year, IIT Indore has managed to provide both the students and the industry a recruiting experience that would enable them to make informed decisions in alignment with their needs and expectations. Also, while these students look forward to make way into the industry, we have had a fair share that have also gone for higher studies and research programs in premier institutes in India and abroad.

Through its excellent research facilities, world class faculty and a rigorous curriculum, IIT Indore graduates are second to none in their knowledge base in technology and engineering. They are also equipped with grounding in other areas such as society, science and literature through their courses in the Basic Sciences and Humanities and Social Sciences that every student takes as part of the curriculum at IIT Indore. In short, these are the students who are ready to take leadership roles in companies, multinational corporations, financial institutions, public service organizations and others. They will be the ones who, through their innovation and entrepreneurship, contribute to the rapidly changing global environment and by extension contribute to nation-building and the citizenry at large.

We are very proud of our students and have complete faith in their ability-something I endorse both the companies and the students to retain. I wish them all the success.

# Message from Faculty Incharge



## Dr. Abhishek Rajput

Faculty Incharge, Training &  
Placement cell

It is with my immense pride that I take this opportunity to invite industries, universities and research organizations to IIT Indore to interact with our dynamic students for internships/ training and to conduct Campus Placements. IIT Indore aims to produce top quality technocrats and scientists and the growth of our modern society and cater to the needs of industries and institutions alike.

The learning environment exposes the students to every opportunity that would help them gain an edge over others and help them succeed in their profession. The modern, ever improving dynamic curriculum at IIT Indore has led to the understanding and development of various technologies as per the needs of the industry and society. Along with their academic pursuits, our versatile students participate and organize various technical, sports and cultural activities throughout the year. IIT Indore has also equipped with many state of art research labs, with the aid of national and international collaborations and research funds for our bachelor and research students.

IIT Indore has completed a decade journey and already made a mark for itself with its highly skilled students, and focus on intensive research. Through the campus placements procedure we now intend to forge long term relationships with the companies. I would like to request companies to visit our institute and make full use of the available opportunity to scout the country's finest minds as per their requirements. We, on our end, will ensure that the recruiting process goes smoothly and proves mutually productive to both the institute and the companies.

# Academic Programmes

## IIT Indore offers following Academic Programmes:

The Programmes offered at IIT Indore are curated keeping in mind the needs of the industry. The courses taught are designed to keep the real-life problems faced by industry at bay. IIT Indore also encourages its undergraduate students to engage in research providing them exposure to the technology on which the world functions. The Undergraduate courses also have a provision which enables the students to get a minor degree in other disciplines. There are also numerous opportunities which allow for cross-disciplinary and interdisciplinary learning. Following are the courses offered at IIT Indore:

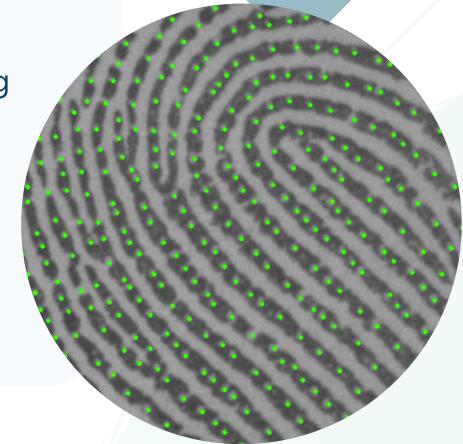
## Bachelor of Technology (B. Tech.) with the provision of converting to M. Tech. Dual Degree at the end of 5th semester:

1. Computer Science and Engineering
2. Electrical Engineering
3. Mechanical Engineering
4. Civil Engineering
5. Metallurgy Engineering and Materials Science



## **Master of Technology (M. Tech.) with the provision of converting to M. Tech. + PhD Dual Degree at the end of 3rd Semester**

1. Electrical Engineering with specialization in Communication and Signal Processing
2. Electrical Engineering with specialization in VLSI Design and Nano-electronics
3. Mechanical Engineering with specialization in Production and Industrial Engineering
4. Mechanical Engineering with specialization in Mechanical Systems Design
5. Metallurgy Engineering and Materials Science with specialization in Materials Science and Engineering
6. Metallurgy Engineering and Materials Science with specialization in Metallurgy Engineering



*Pattern Recognition and Image Analysis (PRIA)*

## **Two-year Master of Science (M. Sc.) with the provision of converting to M. Sc. PhD Dual Degree at the end of 3rd Semester**

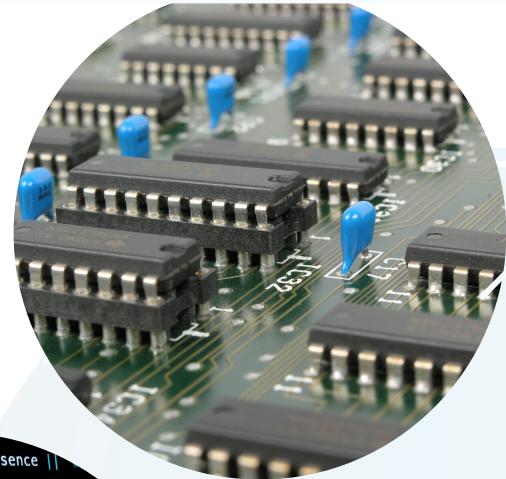
1. Chemistry
- 2 Physics
3. Mathematics
4. Biotechnology
5. Astronomy

## **MS (Research) Programme**

1. MS (Research) in Computer Science and Engineering
- 2.. MS (Research) in Electrical Engineering
- 3.. MS (Research) in Mechanical Engineering

# PhD Program

1. Computer Science and Engineering
2. Electrical Engineering
3. Mechanical Engineering
- 4 Civil Engineering
5. Materials Science and Metallurgy Engineering
6. Bio-sciences and Bio-medical Engineering
7. Chemistry
8. Physics
9. Mathematics
10. English
11. Philosophy
12. Economics
13. Psychology
14. Sociology
15. Astronomy



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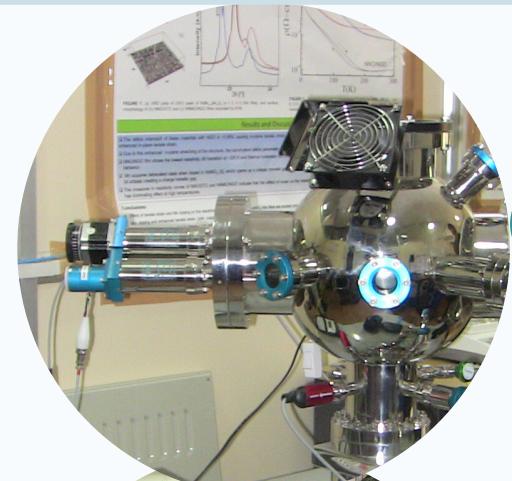
# COMPUTER SCIENCE AND ENGINEERING

The discipline, offering B.Tech, M.S. and PhD courses, adopts a modern approach to teaching wherein students are rendered adequate academic freedom to innovate and learn in the process. The faculty members of the discipline are from diverse streams and specializations ranging from Numerical Analysis, Network Security and Theoretical Computer Science to Soft computing, Computer vision, CAD-VLSI and image processing. Recently, IIT Indore also conducted annual mega coding event Euristica along with other onsite programming competitions.



# ELECTRICAL ENGINEERING

The department offers B.Tech, M.Tech and PhD programmes with focus on Power Systems and Power Electronics, Integration of Renewable Energy Sources, Smart Grid, Nanotechnology and Nanoelectronics, Communications and Networking, Signal Processing and Biophotonics. In tune with the inter-disciplinary research philosophy of IIT Indore, Electrical Engineering is fused with other departments of IIT Indore into a cohesive unit. This enhances interdisciplinary collaboration among students and faculty, creating cutting-edge research opportunities.



# MECHANICAL ENGINEERING

The discipline runs B.Tech. and M.Tech. (Production and Industrial Engineering, mechanical system design) along with Doctoral and Post-Doctoral research schemes with its potent workforce of faculty members and research scientists. The Discipline mainly focuses on Thermal Engineering, Manufacturing Technology, Design and Applied Mechanics and Industrial Engineering. Every year, students participate in competitions related to technology and innovation, such as, BAJA-SAE and AAKRUTI. Along with conducting research bearing social relevance, the department runs Continuing Education Programs (CEP) for the academic professionals and practicing engineers of industries to develop a confluence of academics and applications.



# CIVIL ENGINEERING

The Discipline of Civil Engineering, offers B.Tech and PhD. programmes. The major research areas of the discipline include structural, geotechnical, water resource and environmental engineering. The discipline is quite active and holds routine seminars and courses. Major seminars held at IIT Indore include the Kumbh Mela Experiment:- Measuring and Understanding the dynamics of mankind's largest crowd and slope monitoring for early warning of rainfall-induced landslides. Recently, a short course on "Recent Advances in Geotechnical and Structural Engineering" was also held at IIT indore.

॥ ज्ञानम् सर्वजनहिताय ॥



# METALLURGY AND MATERIAL SCIENCE

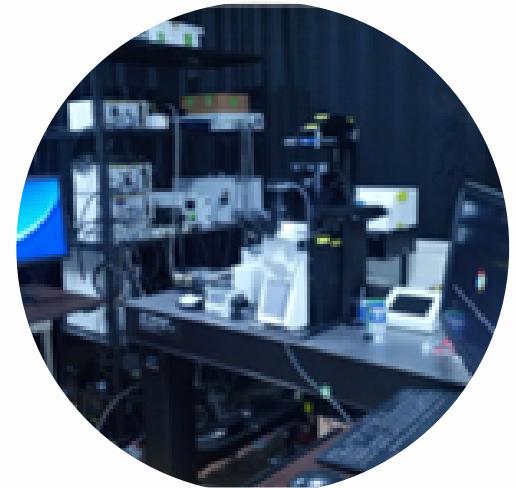
The Discipline of MEMS, offering B.Tech & M.Tech (Metallurgy engineering, material science engineering) courses, emphasizes on promoting multidisciplinary research to find amicable solutions for the real-world problems and work on the innovative research problems that benefits society. The key research focus of the discipline is to understand the processing, structure of several classes of materials and correlate them to the properties, thus, enhancing their performance. The faculty members of the discipline work over wide research areas from conventional metallurgy to modern materials science. The vision of the discipline is to train students who will be the future industry leaders as well as get global recognition for its excellence in materials education and research.



# BIOSCIENCES AND BIOMEDICAL ENGINEERING

The discipline of Biosciences and Biomedical Engineering (BSBE) at Indian Institute of Technology Indore was initiated with a vision of establishing a centre of excellence that will focus on human resource development and research in areas of Biosciences, Bioengineering and Biomedical Engineering. The BSBE group aims to be internationally recognized in bio-related research and to produce the leaders of tomorrow, with the integrated use of training, and career development efforts to improve individual, group and organisational effectiveness in these areas. With the application of engineering principles, design concepts of biology, medicine and other sciences, the BSBE group desires to devote its energy and expertise towards transnational research in the areas of Bio-engineering and Biomedical Engineering, to achieve improved longevity, health and well-being for humans.

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# ASTRONOMY, ASTROPHYSICS AND SPACE ENGINEERING

Discipline of Astronomy, Astrophysics and Space Engineering (DAASE) was established as an interdisciplinary division at IIT Indore, focusing on a wide range of research topics in the domain of Astronomy and Space weather and navigation studies. Our efforts are not only limited to the research domain but also go well in Astronomy outreach.



# SCHOOL OF BASIC SCIENCES

## MATHEMATICS

In view of exchanging mathematical ideas, which are fundamental to the progress of society, IIT Indore started Discipline of Mathematics. The faculty members of the Discipline conduct research programmes in broad areas of Mathematics-Algebra, Analysis, Differential Equations, Rough Set Theory & Modal Logics, Information, Statistics and Probability, Machine Learning and Optimization. The Discipline offers a Ph.D. Programme and M.Sc. programme in Mathematics.

## PHYSICS

The Department of Physics at IIT Indore aims to educate the students by giving them a blend of knowledge of fundamental and applied physics. The faculty members are from diverse streams and specializations. Apart from the basic courses offered to undergraduate students, the discipline offers a Ph.D. programme and an M.Sc. programme for post graduate students. Major research areas in the Discipline of Physics are Experimental Condense Matter Physics, Nonlinear Dynamics & Complex Networks, Theoretical High Energy Physics and Experimental High Energy Physics.

## CHEMISTRY

The Department of Chemistry at Indian Institute of Technology Indore currently has an M.Sc. programme and a research programme for the degree of Doctor of Philosophy. The department carries out research in various frontier areas of catalysis, drug discovery, main group chemistry, materials chemistry, nanotechnology, organic light harvesting materials, organo-metallics, pharmaceuticals, asymmetric synthesis, biosensor metal clusters, molecular fluorescence spectroscopy, computational aspects of materials/alloys and molecular inhibitors for disease targets.

# SCHOOL OF HUMANITY

The School of Humanities and Social Sciences aims to equip the Institute's Technology and Engineering students with the tools needed to empower their technical education with humanistic goals. This includes developing and sharpening their skills of critical inquiry and widening their insights through studies in Economics, Politics, Literature, Sociology, Psychology and Philosophy. Faculty members have social engagement projects and students are able to use this platform to participate in these activities. The Department believes that a comprehensive grounding in the humanities contributes to widening students' perspectives and enables them to imagine their role in creating a better world. The School of Humanities provides minor courses for B.Tech students and also offers PhD programs in Economics, English, Philosophy and Psychology and Sociology.

The school carries out research in several areas, few of which are Moral and Political Philosophy, Epistemology, History of Philosophy, Philosophical Foundations of Social Sciences, Agricultural Economics, Development Economics, International R&D Spillovers, Technology Transfer, Intellectual Property Rights, Indian Writing in English, African American Fiction, Post colonial Theory, Comparative Literature, Urban Narratives and Event Studies. The discipline has STATA and Archview software. It has databases like CMIE, Research Facilities State Analysis and World Development Indicators. The discipline also has Human Factors & Applied Cognition Lab with the facilities of Eye Tracker, Video VBOX, Emotive etc.

# International Tie Ups

## INDO-FRENCH INITIATIVE

IIT Indore has established collaborations with French Universities since the early years of its inception. This includes regular exchange of faculty and students as well as work on joint research projects. Some of the French Universities involved in this collaboration are EISTI, ENSAI, Paris Tech University of Paris and ISAE Toulouse. Recently, Prof. Pradeep Mathur (Director, IIT Indore) signed MoU with IMT Atlantique in March 2018 to enhance this relationship further.

## INDO - GERMAN COLLABORATION

The Indo-German research network comprising the TU9-an alliance between Germany's leading technical universities, and the emerging IITs is being expanded. TU9 president, Prof. Wolfram Ressel and the director of the IIT Indore, Prof. Pradeep Mathur, have signed a Memorandum of Understanding (MoU) regarding this cooperation. RWTH Aachen, Technische Universität Braunschweig, Leibniz Universität Hannover, Technische Universität Berlin, Technische Universität Dresden, Universität Stuttgart are the TU9 universities with which IIT Indore is doing joint supervision of students and with which the institute has signed individual MoUs.

# Facilities at IIT Indore

## Virtual Classroom

It is a state-of-the-art Pan-India network which envisages connecting all higher centers of learning and research by bringing together all stakeholders from science, technology, higher education, healthcare, agriculture and governance to a common platform. It has features like live video streaming presentations, shared internet access, virtual whiteboard, a media center, application, file and desktop sharing and public and private text chat.

## Sophisticated Instrument Center (SIC)

The SIC's mission is to support and foster research enterprise in the Schools of Basic Science and Engineering, by providing state-of-the-art instrumentation and ancillary equipment, and expertise in its use and application. The SIC at IIT Indore is equipped with the following facilities: Single Crystal X-ray Diffraction, Nuclear Magnetic Resonance, Mass Spectroscopy, Atomic Force Microscopy (AFM), Element Analysis, Single Molecule Imaging and other Spectroscopic under one roof to provide the very highest quality of data analysis to academics and industries. A major advantage of SIC is its accessibility to the students within the institute and a very healthy ratio of students to the time availability on instruments.

# Achievements

1. Highest Ranked IIT in THE World University Ranking 2019
2. IIT Indore has improved its NIRF ranking by one each year since 2016. IITI is at 13th position in 2019 as compared to 16th in 2016.
3. IIT Indore has the highest h-index compared to other second generation IITs.
4. IIT Indore's CTF team secured 2nd position in India and 16th position globally in CSAW CTF.
5. IIT Indore secured 2nd place in India and 56th in the world at ACM-ICPC 2017.
6. A total of 7 GSoC selections have been achieved at IIT Indore since 2017.
7. Hackerrank ranked IIT Indore 8th best in the world for producing the best coders in the world.
8. IIT Indore won the 1st , 2nd and 3rd prize in 2018 in WittyHacks Hackathon in 2018 and won the 1st prize in 2019.
9. Research at IIT Indore has been recognized at the international level, with the active participation in several key international projects and several joint collaborations with research organizations in Japan, South Korea, the Russian Federation, Portugal, France, Germany, USA and many other countries. The institute has been successful in securing 82 externally sponsored research projects worth over Rs. 220 million.

# Collaborations

1. MoU between Centre for Development of Advanced Computing, An Autonomous Scientific Society of the Department of Information Technology, Ministry of Communication and Information Technology, Government of India and Indian Institute of Technology Indore - Centre for Development of Advanced Computing, An Autonomous Scientific Society of the Department of Information Technology, Ministry of Communication and Information Technology, Government of India
2. The Sophisticated Instrumentation Center (SIC) is a national facility hosted at IIT Indore's School of Basic Science. The SIC at IIT Indore is equipped with Single Crystal X-ray Diffraction, Nuclear Magnetic Resonance, Mass Spectrometry, Elemental Analysis and Single Molecule Imaging and Spectroscopy all together under one section to provide the very highest quality of data analysis to academics and students in both research and teaching.
3. MoU between CSIR - Central Electronics Engineering Research Institute (CEERI), Pilani and Indian Institute of Technology Indore - CSIR - Central Electronics Engineering Research Institute (CEERI), Pilani
4. Research collaboration by Indian Institute of Technology (IIT) Indore and Purdue University of US can open new avenues in the field of energy storage and make batteries thermally safe in future. The collaboration is based on how to make batteries more effective and ensure more energy storage at economical rates.
5. MoU between Space Applications Centre, Indian Space Research Organization Department of Space, Government of India, Ahmedabad and Indian Institute of Technology Indore - Space Applications Centre, Indian Space Research Organization Department of Space, Government of India, Ahmedabad.
6. Exchange of students, faculty members for research, discussion and lectures; Joint research activities; Exchanges of academic materials - Oregon State University.
7. Exchange of students, faculty members for research, discussion and lectures; Joint research activities; Exchanges of academic materials - Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology, Japan.

# Our Previous Recruiters



# Placement Team

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**Assistant Professor, Civil Engineering**

**Faculty In-charge, Training and Placement Office, IIT Indore**

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**IIT Indore**

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**Dr. Swaminathan R. (Electrical Engineering)**

**Dr. Pavan Kumar Kankar (Mechanical Engineering)**

**Dr. Abhinav Raghuvanshi (Chemistry)**

**Dr. Sudip Chakraborty (Physics)**

**Dr. Sanjeev Singh (Mathematics)**

**Dr. Sharad Gupta (Biosciences and Biomedical Engineering)**

**Dr. Saurabh Das (Astronomy, Astrophysics and Space Engineering)**

**Dr. Akshaya Kumar (Humanities and Social Sciences)**

**Dr. Kaustav Bakshi (Civil Engineering)**

**Dr. Hemant Borkar (Metallurgical Engineering & Material Science)**

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