



INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD

—≡≡≡ PLACEMENT BROCHURE ≡≡≡—
2022-23

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STUDENTS & ALUMNI

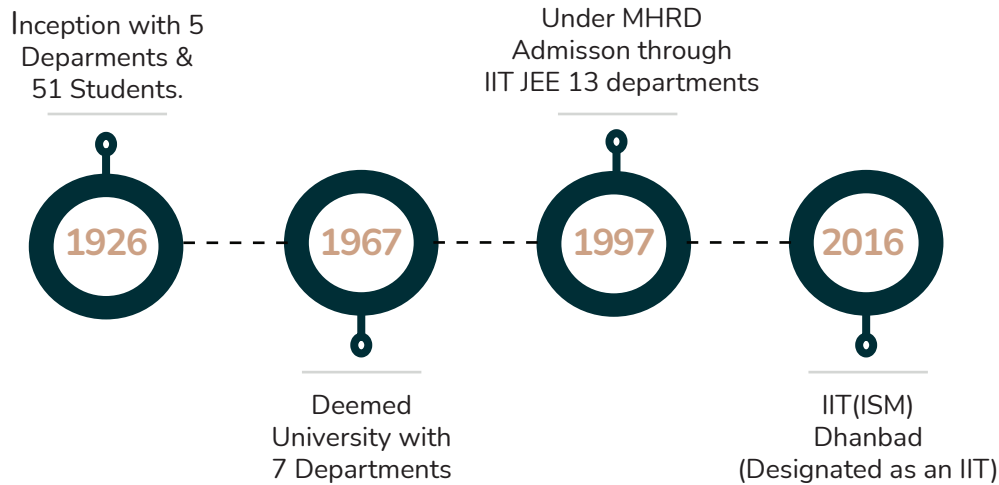
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ABOUT INSTITUTE

About IIT(ISM) Dhanbad



Indian Institute of Technology (Indian School of Mines), Dhanbad was established on 9th December 1926 by the British Government of India. The institute was formally inaugurated by His Excellency the Viceroy Lord Irwin on the model of Royal School of Mines, London. The highest quality of education imparted to the Graduates, Post-graduates and Research Scholars help them prepare to tackle all challenges and perform well in industries across the world.

Initially started as an institution to impart mining education, has now graduated into a full-fledged premier institution of international acclaim offering a host of programs such as B. Tech., Dual Degree, Integrated M. Tech, Double Major, Minor, M. Tech, MSc. Tech, MSc. and MBA. In addition, the institute also offers a full as well as part-time PhD. Programs and post-Doctoral fellowship.

11th

ranked by NIRF in Engineering schools in 2021

30th

ranked by NIRF in Management schools in 2021

26th

Globally (Engineering- Mineral & Mining) in QS World University Rankings in 2019

Our Vision

To be a nationally and internationally acclaimed premier institution of higher Technical, Research and Management education by pursual of intellectual excellence along with the social commitment to nurturing new initiatives and ideas. As one of the oldest and premier institutions of the country, its goal is to catalyze a developing society by just not technical advancement but contributing to the overall development of India.

Our Mission

To educate
and train manpower in various disciplines of engineering and technology, management, applied sciences, and applied arts at the graduate, postgraduate, and research level

To foster
the creation of new and relevant technologies in the areas of its core competency and to transfer them to the industry for effective utilization

To participate
directly in the planning and solving of engineering and managerial problems of relevance to Indian industry and to society at large

To develop
and conduct continuing education programs for practicing engineers and managers and create strong collaborative and cooperative links with private and public sector industries and government user departments

To anticipate
the technological needs of the nation, and to plan and prepare to cater to them and interact with the community/society at large with a view to inculcate in them a feel for scientific and technological thought and endeavor



MESSAGE FROM DIRECTOR, IIT (ISM) DHANBAD

Dear Recruiter(s),

It gives me immense pleasure to take this opportunity to invite you to the placement program 2022-23 at Indian Institute of Technology (Indian School of Mines), Dhanbad. The time has come again for us to exhibit our best minds to the world. Together, the talents can be gainfully utilized towards societal and nation building.

The institute has maintained an aura of culture and legacy over nine decades of innovative growth and excellence. Having stamped its class in academic and corporate circles, the alumni of IIT (ISM) Dhanbad today don the most challenging and demanding roles in the industry both in India and abroad. This is testimony to the trust and belief that the industry has bestowed in us for years.

The enlightenment of the students would not be possible but for the strong bond that IIT (ISM), Dhanbad cherishes with the industrial world. We look forward to forging stronger bonds of co-operation to traverse higher trajectories of excellence.

Best regards,

Prof. Rajiv Shekhar
Director
Indian Institute of Technology (ISM)
Dhanbad



MESSAGE FROM PROFESSOR-IN-CHARGE CAREER DEVELOPMENT CENTRE (CDC)

Welcome to the Career Development Centre of IIT (ISM), Dhanbad !

As a post-pandemic world forges ahead, we are overcoming new challenges of educating young minds, nurturing their abilities, identifying career options and helping them achieve their life goals. The focus is no longer only on searching a pay-check job, but helping them acquire knowledge and articulate both technical and soft skills to make them a significant part of the global workforce. Career development we believe is a continuous life-long process that gives opportunities to shine as people discover and pursue their interests. I take pride in our institute and its enthusiastic team of faculty and staff adapting to update in all fronts towards this goal. Strong networking with industries and universities across the country and abroad has geared a recent overhaul in our academic curriculum, research facilities, laboratories and other infrastructures. Long-term association with our alumni and their mentorship to students has been a constant support to the CDC in empowering them to learn through their experiences.

Dear recruiters, we invite you to collaborate with us to meet your HR needs and promote your brands in our institute. Please reach out to any of us at the CDC with all opportunities of internships and employment that you have in your organization. We are confident that our students have the potential to contribute in a big way to the growth and development of the enterprises and institutes they would work for. So let us join hands and build together a future for our nation.

Best regards,

Professor Debjani Mitra
PIC-CDC
Indian Institute of Technology (ISM)
Dhanbad

STUDENTS at IIT(ISM)

The student community comprises the academically elite who are admitted through one of the toughest entrance examinations followed by a rigorous admission process. For undergraduates, the top 1% are selected through JEE(Advance) and Masters through GATE, CAT and JAM exams only. The confluence of a multitude of skill sets exhibited by the students helps each of them to have exponential growth in their learning curve.

The institute provides students with an environment to pursue their passions, be it sports, music, or arts. There exists a healthy amalgam of academics and extra-curricular in the institute, each given equal importance. World-class cultural, technical and sports festivals of large magnitude organized entirely by the students manifests their managerial skill set.

ALUMNI of IIT(ISM)

Since 1930 the alumni have been monumental in contributing to the country's development in the mining and petroleum industry expanding to various fields of engineering, management and research. We have borne witness to thousands of brilliant students sojourning through this college in their academic journeys and graduating from it to go on and change the world as leaders in their fields of work.

Our alumni have also been successful at their entrepreneurial works building multi-million dollar companies across the world. We unite with our alumni during Convocation and Basant - an annual cultural festival celebrating the reunion of the Golden Jubilee Alumni.

ACADEMIC PROGRAMS OVERVIEW

UNDERGRADUATE COURSES

Bachelor Of Technology (BTech) - 4 Years

The admission to these programs is carried out through the Joint Entrance Exam (IITJEE) one of the toughest examinations in the world, with a 1% average acceptance ratio into the IITs from a pool of 10 lakh students. The program's central goals are to impart fundamentals of professional engineering to the young students and inculcate a sense of original research among the students and exposure to state of the art, technology and research.

Dual Degree (BTech and MTech) - 5 Years

A unique ten semester programme, confers a B. Tech in a basic field of engineering with an M. Tech in specialized areas. Students complete additional courses in the area of specialization and a yearlong project under the guidance of a professor. There are three categories available:

CATEGORY A: B.Tech & M.Tech in same department

CATEGORY B: B.Tech in parent department & M.tech in other Department/Discipline

CATEGORY C: B.Tech in parent department and MBA in the Department of Management Studies.

Integrated MTech - 5 Years

A unique ten-semester programme confers a B.Tech within a basic field of engineering with an M.Tech in specialized areas. Students complete additional courses in the area of specialization and a yearlong project under the guidance of a professor.

Double Major - 5 Years

This is a five year academic program for B.Tech degree with MAJOR in two departments. B.Tech in parent department and SECOND MAJOR in any other department running in B.Tech program. First batch is graduating in 2024.

POST GRADUATE COURSES

M Tech - 2 Years

Students are admitted to this program through the GATE examination. This degree is aimed to provide sufficient time to students to gain deep technical knowledge of a particular subject and consequently enhance professional qualifications and industrial knowledge.

MBA - 2 Years

The Department of Management Studies IIT (ISM) offers 2 years MBA programs all admitted through Common Admission Test (CAT) in the field of Finance, Marketing, Operations, Human Resource Management and Business Analytics

MSc Tech - 3 Years

This degree is pursued over a period of 3 years after completion of B.Tech in equivalent subjects. The Admission is based on JAM Score (Joint Admission Test for MSc) held at All India Level.

MSc - 2 Years

The students qualifying Joint Admission Test for MSc (JAM) join this course for two years. Departments of Applied Chemistry, Applied Physics and Applied Mathematics offer these courses to improve student's knowledge of science and engineering.

ACADEMIC PROGRAMS OVERVIEW

RESEARCH PROGRAMMES

PhD(Doctor of Philosophy)

IIT(ISM) Dhanbad offers a great atmosphere for scholars aspiring for research activities. Research opportunities are available in different disciplines of 18 departments. Admission to PhD is accomplished through NET/ JRF/ Internal Examinations by professors. As of now, the Institute is having 1000+ regular full-time PhD scholars.

PDF(Post-Doctoral Fellowships)

The Post-Doctoral Fellowships (PDFs) are available in the Institute for a maximum period of three years, with an initial offer for a period of one year extendable on yearly basis on satisfactory progress as certified by the Performance Assessment Committee (PAC). PDFs will be assigned to regular faculty members to facilitate their research work. PDFs will be eligible to serve as co-guides for guiding students enrolled for projects/dissertation work along with their mentors.

DEMOGRAPHY BY DEPARTMENTS

Department Of Applied Geology

The Department of Applied Geology, established in 1926, the year of inception of the Indian School of Mines, is the pioneering centre of teaching, training and advanced research in Applied Geology in India. The Department offers 5-year Integrated M. Tech in Applied Geology, 3-year M. Sc. Tech in Applied Geology, 2-year M. Tech in Geo Exploration and Engineering Geology and Ph.D. programs. Besides, the department organizes conferences, seminars and workshops and provides training programs, consultancy and testing services national and international levels. The department has developed a unique and strong Industry-Institution relationship all over the country.

Department of Applied Geology	Nos.
Integrated M.Tech in Applied Geology	12
M. Tech in Geo-Exploration	9
M. Tech in Engineering Geology	7
M.Sc.Tech in Applied Geology	59
Grand total	87

Department Of Applied Geophysics

The subject of Geophysics is fascinated with the topics of earthquakes, volcanic eruptions, climate change, carbon management and geothermal energy. The Department of Applied Geophysics offers the 3-Year M. Sc. Tech in Applied Geophysics, 5-year Integrated M. Tech in Applied Geophysics and a PhD in Applied Geophysics. Also, Applied Geophysics started admitting IIT-JEE candidates from 2014-2015,

Department of Applied Geophysics	Nos.
Integrated M.Tech in Applied Geophysics	10
M.Tech in Earthquake Science & Engineering	13
M.Sc.Tech in Applied Geophysics	35
Grand total	58

DEMOGRAPHY BY DEPARTMENTS

Department Of Chemical Engineering

The Department of Chemical Engineering of Indian School of Mines was established in 2010. They started 4 year BTech program from year 2011. It also expanded to offer post-graduate and research programs M Tech and PhD from year 2014

Department of Chemical Engineering	Nos.
B.Tech	37
M.Tech	15
Grand total	52

Department Of Chemistry and Chemical Biology

In 1989, The Department of Chemistry was established as a separate department. Previously, this was as a part of the Department of Chemistry, Fuel & Metallurgy since 1926. The department offers 2 academic programme with 2 year M. Sc. through JAM examination and, 2 year M Tech. in Pharmaceutical Science and Engineering selected through GATE Examination. The department also offers Ph. D programme, for which candidates are selected through NET/GATE or IIT (ISM) Entrance Test.

Department of Chemistry and Chemical Biology	Nos.
M.Tech in Pharmaceutical Science & Engineering	13
M.Sc. in Chemistry	60
Grand total	73

DEMOGRAPHY BY DEPARTMENTS

Department Of Civil Engineering

Department of Civil Engineering started its first batch of 4-year B. Tech course in 2013. It currently offers 4-year B. Tech program in Civil Engineering, M. Tech and PhD program in Structural Engineering and Geo-technical Engineering. Admission for the 4-year B. Tech Civil Engineering is through IIT-JEE while admission for M. Tech Program is done through GATE exam. The Department consists of a team of talented faculty members who contribute to the development of the young minds. The Department aims to be one of the pioneering centres of teaching, training and advanced research in Civil Engineering.

Department of Civil Engineering	Nos.
B.Tech in Civil Engineering	50
M.Tech in Civil Engineering	23
Grand total	73

Department Of Computer Science & Engineering

The Department of Computer Science and Engineering was set up in the year 1997, following the resounding success of ISM Alumni in the fields of Computer Science and Information Technology. The Department boasts of highly qualified faculty who are active members of reputed National and International societies, been instrumental in the research publications and major research areas include Parallel and Distributed Algorithms, Interconnection Networks, Cryptography & Network Security, Wireless Networks, Image & Video Processing, Soft Computing Applications and Information Retrieval.

In addition, the department undertakes R&D and consultancy projects funded by various organizations (including Ministry of Information & Technology, UGS, and CSIR)

Department of Computer Science & Engineering	Nos.
B.Tech	129
Dual Degree	21
M.Tech	33
Grand total	183

DEMOGRAPHY BY DEPARTMENTS

Department Of Electrical Engineering

The Electrical Engineering department is one of the latest department in the School established in 2005. The B.Tech. course in Electrical Engineering has been started in the academic year 2006-07. The Electrical Engineering section existed in the School for over last 35 years as a part of Mining Machinery Engineering department, the Electrical Engineering Section was fully functional with teaching and R&D activities from 1975. Department includes Circuits & Measurements, Electrical Machines & Control, Electrical Drives, Power Systems, Power Electronics, Mining Electro-Technology in B.Tech course.

Department of Electrical Engineering	Nos.
B.Tech	111
M.Tech	26
Grand total	137

Department Of Electronics Engineering

Established in 1976, Department of Electronics Engineering incepted into a separate faculty department in 1998, offering B. Tech in Electronics and Communication Engineering to students admitted through IIT JEE. Strengthened with highly qualified faculty experts and in-housed with the well-equipped state-of-the-art laboratories, ample computing resources and several R&D projects, the department has established itself in significantly contributing towards academics, research and building brilliant careers for students. With a well-designed and constantly reviewed syllabus, it currently offers B. Tech in Electronics and Communication Engineering and M. Tech in various specializations

Department of Electronics Engineering	Nos.
B.Tech in Electronics & Communication Engineering	113
M.Tech	25
Grand total	138

DEMOGRAPHY BY DEPARTMENTS

Department Of Environmental Science And Engineering

The Department of Environmental Science and Engineering was created out of the existing Centre of Mining Environment in the institute in 2007 with the commencement of a regular B.Tech Degree in Environmental Engineering for JEE students. This department is also accredited with ISO 9001 and OHSAS 18001 Certificate. Besides, Department also offers regular M.Tech Program in Environmental Science and Engineering (since 1990) and Ph.D programs in both Environmental Engineering and Environmental Science and Engineering disciplines.

Department of Environmental Science & Engineering	Nos.
B.Tech	32
M.Tech	37
Grand total	69

Department Of Fuel, Minerals And Metallurgical Engineering

Established in 1976, The Department of Fuel, Minerals and Metallurgical Engineering is one of the oldest departments in the institute. The department currently offers a B Tech program in Mineral and Metallurgical Engineering, two-years M Tech and PhD programs in Fuel Engineering and Mineral Engineering. The department has sixteen fully functional laboratories with state-of-the art research facilities also supplemented by the Central Research Facility (CRF) and the Central Workshop. The department actively provides technical advisories and performs consultancy projects for a large number of international and domestic industrial partners like Tata Steel, SAIL, BHEL, CESC, Coal India, NTPC, CDE Asia, Deloitte, PwC, etc

Department of Fuel Mineral and Metallurgical Engineering	Nos.
B.Tech	29
M.Tech	13
Grand total	42

DEMOGRAPHY BY DEPARTMENTS

Department Of Humanities And Social Sciences

The Department of Humanities and Social Sciences is one of the first departments of IIT (ISM) Dhanbad to be started in 1926. This interdisciplinary department seeks to make technologists linguistically, socially and ethically conscious individuals. Following this objective, various subjects of humanities have been introduced to the technical students. The UG courses of the Department equip the graduates with linguistic skills for communicating across cultures and borders with clarity, sensitivity and success, and help them to focus on their character so that they contribute in building up a value based society. Our research programmes are characterized by interdisciplinarity which ranges from Linguistics, Western and Indian Philosophy, Ethics & Applied Ethics, Sociology, Ecological Humanities through Cultural Studies to Human Values.

Department Of Management Studies

The Department of Management Studies, formerly known as the Department of Industrial Engineering and Management was established in 1977. It has successfully completed several consultancy assignments, in-house, and off-campus executive development programmes, and specific research projects supported by AICTE, UGC, ICSSR, MHRD, DGMS, CMPFO, NHPC, Power Grid, CIMFR, CIL, and World Bank. The department has been constantly rated as an A/A+ institute by various rating agencies, including AIMA-Business Standard, Business World, Business India, and Outlook/C-fore. In 2021, the IIT ISM Dhanbad ranked 30 among business schools in India by the NIRF.

Department of Management Studies	Nos.
M.Tech in Industrial Engineering and Management	22
MBA	52
MBA in Business Analytics	18
Grand total	92

DEMOGRAPHY BY DEPARTMENTS

Department Of Mathematics & Computing

Started as Department of Physics and Mathematics, given an independent status in 1989 as Department of Applied Mathematics and further renamed as Mathematics & Computing. The Department provides an outstanding research environment complemented by excellent teaching for its students to flourish in different arena of academics and industry. The department offers academic programs like Integrated M Tech and M. Sc. in Mathematics and Computing, M. Tech (Data Analytics) and Ph. D. degree.

Department of Mathematics & Computing	Nos.
Integrated M.Tech in Mathematics and Computing	44
M.Tech in Data Analytics	4
M.Sc in Mathematics and Computing	47
Grand total	95

Department Of Mining Engineering

The Department of Mining Engineering introduced with the School's foundation in 1926 under the rule of the contemporary Viceroy, Lord Irwin. Over the past 90 years, it has developed to become the largest department of its kind in the country with excellent facilities for teaching, research and widespread activities in coal, metalliferous mining, and construction sectors. The Department is recognized as a QIP Centre for the faculties of other Mining Engineering Departments to pursue higher studies (M. Tech. and PhD). The Department has been accorded the status of "Centre of Advanced Studies" in Mining Engineering by the University Grant Commission, in recognition of its high standards of teaching, research and services to the mining industry.

Department of Mining Engineering	Nos.
B.Tech in Mining Engineering	85
M.Tech in Mining Engineering	29
M.Tech in Geomatics	8
M.Tech in Tunnelling and Underground Space Technology	11
Grand total	133

DEMOGRAPHY BY DEPARTMENTS

Department Of Mechanical Engineering

Department of Mechanical Engineering started the journey in 1999, and successfully completed 22 years with excellence. Presently, the department is the largest in the institute having 46 faculty members. The department offers two UG courses, one in Mechanical Engineering and another in Mining Machinery Engineering. Faculty members of the department have guided more than 200 PhD students so far. The UG and PG students are working with the faculties in the field of microfluidics, aero-acoustics, bubble dynamics, biomechanics, robotics, renewable energy, tribology, refrigeration, modern-manufacturing, fluid power, mining machinery along with conventional thermal engineering and machine design. Students of the department are associated with Robotics club, Smart manufacturing, ASME students' chapter and other professional bodies. The department has more than 20 R&D projects ongoing (worth INR 850 lakhs approx). The students of the department are involved in several national and international research and consultancy projects funded by several agencies and industries. Also, a good number of them complete their research internships abroad.

Department of Mechanical Engineering	Nos.
B.Tech in Mechanical Engineering	96
B.Tech in Mining Machinery Engineering	41
M.Tech in Mechanical Engineering	46
M.Tech in Mining Machinery Engineering	23
Grand total	206

Department Of Physics

In 1989, Department of Physics inculcated as a separate department. The Department of Physics and Mathematics founded in 1926 along with ISM and subsequently converted into Department of Applied Science in 1984 and restructured as Department of Physics. Department caters to the needs of under-graduate and post-graduate under different courses as such Preparatory, B. Tech, two-years M. Sc. The department also runs PhD. programme in front line areas of research.

Department of Physics	Nos.
B.Tech in Engineering Physics	20
M.Sc. in Physics	47
Grand total	67

DEMOGRAPHY BY DEPARTMENTS

Department Of Petroleum Engineering

Inaugurated in 1957, the Department of Petroleum Engineering lives with enormous dignity, producing the nation's best petroleum engineers. It is well-equipped with all the modern-day teaching curriculum, laboratory facilities, and softwares. The department has also ascertained an accord with the foundations in India and abroad. There is a provision of mandatory summer training to all the students, making them conscious of their curriculum. Not only in the petroleum sector, but the pass-outs have carved their way to the IT sector as well. With a rich alumni network, the department is recognized not only domestically but globally.

Department of Petroleum Engineering	Nos.
B.Tech	83
M.Tech	35
Grand total	118

Dual Degree

This is a five year academic program for a B.Tech + M.Tech degree. There are three categories available:

CATEGORY A: B.Tech & M.Tech in same department

CATEGORY B: B.Tech in parent department & M.tech in other Department/Discipline

CATEGORY C: B.Tech in parent department and MBA in the department of Management Studies.

Minor

In addition of the semester-wise courses prescribed in the course structure for B.Tech and Integrated M.Tech program, the students may choose those courses which are listed for completion of a Minor as an Open Elective and credits of all such courses will fulfil the Open Electives credit requirements of their B.Tech. and Integrated M.Tech.

Departments	Program Title	Nos.
Applied Geology	Exploration Geology	1
Applied Geophysics	Exploration Geophysics	2
Chemical Engineering	Separation & Purification Technology	3
Chemistry and Chemical Biology	Materials Science	2
Computer Science & Engineering	Data Science	22
Civil Engineering	Infrastructure Engineering	1
Electronics & Communication Engineering	Embedded System Design	18
Electrical Engineering	Electrical Technology	4
Environmental Science & Engineering	Environmental Management	1
Mathematics & Computing	Mathematics & Statistics	8
Mining Engineering	Mining Methods & Safety	8
Mechanical Engineering	Computational fluid mechanics	15
Mechanical Engineering	Manufacturing	2
Mechanical Engineering	Robotics	11
Mechanical Engineering	Material Handling Engineering	3
Management Studies	Marketing	10
Management Studies	Operations Management	11
Management Studies	Financial Management	10
Petroleum Engineering	Petroleum Production Operations	13
Physics	High Energy Physics	1
Physics	Nanotechnology	7
Grand total		153

RESEARCH & DEVELOPMENT

IIT (ISM) Dhanbad is continuously updating in research fields with our esteemed professors working on cutting-edge technologies. Most of the IIT ISM professors are working on some industrial projects and sponsored research. The patents filled by our professors are continuously increasing. Many departments of IIT ISM Dhanbad have active collaboration with various CSIR Labs which helps in various aspects of research projects.

HIGHLIGHTS

229 & 148

Ongoing & Recently Completed sponsored Research & Development projects

76 & 70

Ongoing & Recently Completed Industry sponsored projects

30

International Recent Projects and mobility programs

20

Instruments with state-of-the-art facilities

CENTRAL RESEARCH FACILITY

Central Research Facility has been established at the Indian Institute of Technology (ISM), Dhanbad as a Centre of National Importance for Research and Creation. The constellation of high-quality equipment enabled with cutting-edge technologies at a single location provides a scientific arena for researchers. Sophisticated analytical instruments are vital for pursuing high-end research in areas of modern science and technology.

Objectives:

- To establish state-of-the-art research facilities and instruments to support advanced research under one umbrella.
- To support and promote inter-and multi-disciplinary research in contemporary and frontier areas.
- To enable Faculty members and research scholars of IIT (ISM) to access facilities of the most advanced class of instruments.

Research Laboratories established under CRF

- Electron Probe Micro-Analyzer
- Field-Emission Scanning Electron Microscope
- Advanced Rheometer
- US-VIS-NIR
- Scanning Probe Microscopy
- Multi-Angle Light Scattering Spectrometer
- Single Crystal XRD
- Gas Sorption Analyser

NEWLY LAUNCHED SCHEMES TO PROMOTE R&D

To induce a vibrant research environment on campus and to constantly advance the bounds of scholarship, innovation, and knowledge research, the R&D Cell has introduced certain reformist schemes, accentuating strong support for individual researchers as well as research groups of the Institute.

Following strategic research schemes have been introduced for the community to engage in high impact and leading-edge research within and across disciplines:

Faculty Research Scheme(FRS): FRS, a seed grant to newly joined faculties for initiating research, is awarded for exceptional proposals that have been peer reviewed and defended in presence of Eminent Academicians of IITs/IIMs/IISc.

Faculty Mobility Programme (FMP): FMP is designed to encourage faculty members to spend two weeks in an industry leading to an industry sponsored project.

Sandwich PhD Programme: designed for PhD Students to provide them an opportunity to improve research abilities, and to establish and/or increase work opportunities in an international context where they can spend a minimum of six months in a top university or laboratory utilizing their contingency and Institute Support.

One Publication in Q1/Q2 of Web of Science Database is a prerequisite to PhD Thesis submission.

Plagiarism Check for all PhD Thesis submission through Turnitin acceptable limit is within 10%.

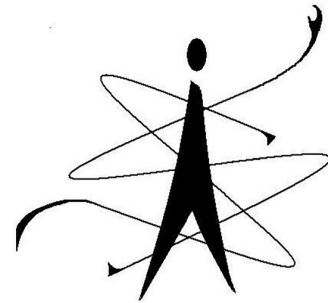
Evaluation of PhD Thesis by Examiners from the Top 200 QS ranked universities

STUDENTS & ALUMNI

CO-CURRICULAR ACTIVITIES

STUDENTS GYMKHANA

The objective of a Students' Gymkhana (SG) is to give students a role in the administrative and academic governance of the Institute and help them develop leadership and administrative skills. SG activities will be subordinate to academic activities. First-year students of all programs will be devoted primarily to academics. The SG shall function through the Students' Senate (hereafter referred to as the Senate) and its Executive wing.



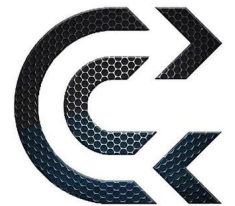
The Senate shall be the Central Representative, Legislative and Supervisory body of the students. It shall:

1. Serve as the main forum for the expression of student opinion.
2. Be in continuous touch with the General Body (GB), consult the students, and act as a feedback system.
3. Act as the central policy-making body of the SG.
4. Guide and check the functioning of the Executive Wing of the SG.

The Senate shall comprise of Senators representing students from all academic programs. The number of Senators representing a batch shall be at the rate of one Senator for every 200 students in the batch (or group of batches as given in 3.3), rounded up to the next integer.

CONCETTO

Concetto, the Annual techno-management festival of IIT (ISM) DHANBAD, is the conjugation of some of the finest technical minds in the country with a platform for them to promulgate their skills and aim to reach the pinnacle of their talents. This fest is known for hosting a variety of events that include competitions, exhibitions, guest lectures as well as workshops. It gives the students a platform to learn and improve their skills as well as contribute to the field of technology.



SRIJAN

"SRIJAN" is the biggest socio-cultural festival of eastern India held in IIT (ISM) DHANBAD which has been in the limelight since 1977. It attracts an annual footfall of over 30,000 from more than 200 colleges across the country every year and having prize money worth more than INR 7.5 lakhs. It offers a wonderful platform where participants from different parts of the country get a chance to interact, enhance and demonstrate their creativity, personality, and talents.



EXCELSIOR

Excelsior The Annual Literary Fest | IIT (ISM) Dhanbad Literature is written emotions and a book is a collection of papers carrying the story of almost every man. The story may be fabricated by a single brilliant, or not so brilliant mind but it resonates with every man who reads it. Excelsior is an avenue to be comforted from routine life and to embrace the fun and frolic embedded with tantalizing professional performances from India and abroad along with an address to the social responsibility with its underlying social theme.



ENTREPRENEURSHIP ACTIVITIES

150+ Startups by IIT(ISM)
Dhanbad Students
And Alumni

**Startups that have emerged as companies
from IIT(ISM) Dhanbad so far**

mCaffeine

Webengage

Novopay

LoginRadius

NVCTI

With an objective to encourage, inspire and nurture young creators, IIT (ISM) Dhanbad has established Naresh Vashisht Centre for Tinkering and Innovation (NVCTI) with the generous financial support of our distinguished alumnus of the 1967 batch of Petroleum Engineering, Shri Naresh Vashisht. In an endeavor to provide an enabling physical environment for young creators to transform ideas into product leading to successful entrepreneurship, the centre is equipped with state of the art “Tinkering and Innovation Laboratory” consisting of a mechanical & rapid prototyping unit; Gaming and Animation Design Unit; Electronic circuit and IOT unit; Battery-Pouch Cell Assembly unit and Robotics and Automation Unit. The centre intends to build a positive innovation ecosystem to generate creative solutions to local and global societal importance problems.



NVCTI, IIT (ISM) DHANBAD

ACIC

Indian Institute of Technology (Indian School of Mines), Dhanbad [IIT (ISM) Dhanbad] has been entrusted for the establishment of Atal Community Innovation Centre (ACIC) under the Atal Innovation Mission (AIM), NITI Aayog, Govt. of India to encourage a spirit of entrepreneurship.

It focus towards creating opportunities for the entrepreneurs by offering an incentive to explore unique and incentivized solutions. It believe that the companies, whether they are start-ups, micro, small, medium or large, are the backbone of the country. Hence, it is important to provide them equitable opportunities, especially by reducing the lab to land distance and creating a space for pre-incubation of ideas/solutions. It is our good fortune that we are helping the nation builders.



CIIE

Centre for Innovation, Incubation and Entrepreneurship (CIIE) is a Not for Profit Centre at Indian Institute of Technology (Indian School of Mines), Dhanbad, dedicated to promote innovation and Entrepreneurship. It is a pedestal to help knowledge driven enterprises to establish and prosper under organized scientific guidance. It also facilitates swift commercialization of a product based on sophisticated technology. The main objective of the CIIE is to produce successful firms that will leave the program financially viable and free-standing. It thrives hard to complete it's mission.

ALUMNI UNDERTAKING

A NOTEWORTHY ACHIEVEMENT IN ENTREPRENEURSHIP

mCaffeine

Founders: Tarun Sharma(2011), Vaishali Gupta(2015), Mohit Jain(2016) & Saurabh Singhal(2014)



In 2015, Tarun Sharma had a swollen eye and his roommate suggested he put a tea bag over it to help reduce the puffiness. And then curiosity took over to build mcaffeine. Presently, Mcaffeine is India's 1st caffeinated personal care brand with an exciting range of Caffeinated products for young and aspiring millennials. It's an extension of the hyperactive lifestyle and individualistic identity. mCaffeine's range of personal care products is positioned in the premium category with a very unique proposition - Energized Personal Care comprising of hair and skincare products. They are redefining the age-old notions of beauty associated with color. Over the last four years, the company has managed to sell 2.8 million products amounting to ₹100 crores.

WebEngage

Founders: Avlesh Singh(2005 batch) & Ankit Utreja



Beginning its journey in 2011, WebEngage is a customer data platform and marketing automation suite that makes user engagement and retention simplified and highly effective for consumer tech enterprises and SMBs. The platform helps brands drive more revenue from their existing customers and anonymous users through highly contextual, hyper-personalized engagement campaigns across 10 communication channels. Presently, WebEngage powers the user engagement for thousands of brands worldwide, working across several industries like E-Commerce, Edtech, Fintech, Foodtech, Media & Publications, Gaming, BFSI, Healthcare, Online Retail.

Codingal

Founders: Satyam Baranwal(ISM Dhanbad 2009 batch) & Vivek Prakash(IIT Roorkee 2013 batch)



Today, schools and traditional education systems are not equipped to provide the proper coding education to children. Codingal is here to change that and empower every student with the tools, content, competitions, and live coding classes to start learning to code and build anything they imagine. Codingal is the #1 coding platform for school kids, with a mission to inspire school students to fall in love with coding at a young age. Launched in September 2020, Codingal has already empowered 40,000+ students by motivating them to start learning coding via competitions and high-quality coding education. All classes are taught live 1:1 by vetted and trained teachers who are experts at programming and only from a Computer Science background. The coding curriculum is based on a standardized K-12 Computer Science Framework, which students find very fun & engaging.

Tachyus

Founders: Pallav Sarma(2000 batch)



Tachyus creates technology to optimize energy production for the oil and gas industry. The platform unites analytics software and sensors that measure real-time data to increase production, decrease lease operating expenses, and boost profits. The team has deep software engineering, hardware design and data science experience from building OpenGov, California Common Sense, Tesla's battery safety system, the world's most advanced neutrino detector, and Visual Studio. They have accomplished to achieve up to a 20% increase in production and upto a 40% decrease in injection cost.

OUR DISTINGUISHED ALUMNI



Shri. B P Singh Batch of 1989, Mining Machinery Engg. has been appointed the Director in-charge of SAIL's Burnpur and Durgapur Steel Plants. Shri Singh will be the first Director in-charge of SAIL's Burnpur and Durgapur Steel Plants as the Ministry of Steel had restructured the Management of SAIL.



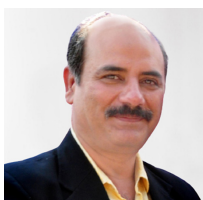
Gulshan Lal Tandon was a pioneer in the Indian Mining Industry, the former Chairman of Coal India Limited who played a major role in the establishment of Coal India. Gulshan Lal Tandon received his B Tech degree in Mining from Indian School of Mines, Dhanbad in 1951. He served as the Chairman of Neyveli Lignite Corporation and Coal India Ltd.



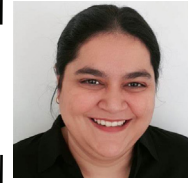
Deblina Sarkar is an Indian scientist and inventor. She is an Assistant Professor at Massachusetts Institute of Technology and the AT&T Career Development Chair Professor of the MIT Media Lab.



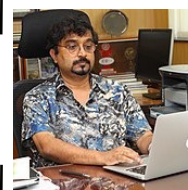
Rabi Narayan Bastia is an Indian geoscientist and the Global Head of Exploration at Lime Petroleum, Norway, known for his contributions in the hydrocarbon explorations at Krishna Godavari Basin (2002), at Mahanadi Basin (2003) and at Cauvery (2007). A non-executive director of Asian Oilfield Services Limited and the President at OilMax Energy.



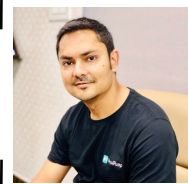
Mr. Pankaj Kumar Satija, Batch of 1994, Mining Engg, Indian School of Mines, Dhanbad has been appointed as the MD of Tata Steel Mining. He has played a key role in strategic planning, mining operations, and other critical areas.



Krishna Agarwal received her B.Tech degree from the ISM Dhanbad in 2003. She received the "Distinguished Alumna Award" from IIT (ISM), Dhanbad India for the year 2020. She was awarded the Marie Skłodowska-Curie Actions Individual Fellowship for the year 2017-2019 and is currently an Associate Professor at UiT-The Arctic University of Norway.



Mrinal Kanti Sen received his BSc and MSc degrees in applied geophysics, Indian School of Mines, Dhanbad, India in 1977 and 1979 respectively. He obtained his PhD in theoretical seismology from the Hawaii Institute of Geophysics, University of Hawaii at Manoa. He is an Indian-American geophysicist.



Ashish Gupta is an alumni of Indian Institute of Technology (Indian School of Mines) Dhanbad (2007 batch), is the co-founder of MyPetrolPump. He is an experienced CEO with a deep business background of Petroleum Industry, also he has a great experience of managing engineering & business development teams around the globe.



SHRI SHASHI SHANKER (PE, BATCH OF 1982) has been appointed as the Additional Director (Non-Executive, Independent) of Adani Gas on 04 May, 2022. Shri Shanker served as the Chairman -cum-Managing Director of Oil and Natural Gas Corporation Limited (ONGC).



Mr Subhasis Das has been appointed as Managing Director, Alfa Laval India Private Limited with effect from December 1st, 2020. He had previously served as President & Managing Director at Sandvik Mining and Rock Technology India Private Limited. Subhasis brings to Alfa Laval, 28 years of experience at Coal India, Shell and Reliance Industries.

NEWS HIGHLIGHTS



Team Urjaffinity declared as International Switch Energy Case Competition 2021

A team of four students from IIT (Indian School of Mines-ISM) Dhanbad has bagged the first place in the International Switch Energy Case competition 2021. The teams had to propose a solution to address the economic challenges and implications of working to address energy poverty based on their scenario



Team ISMITE declared as Tata Crucible Hackathon 2021

We are delighted to share with you that our team ISMITES have emerged as the national winners in the Tata Crucible Hackathon by competing against 3000 teams all over India. The team emerged as a North zone winner on 14th June, 2021. Later, on 25th June, 2021 the team emerged as the National Winner.



Team CARBON 6 emerged as Runners Up in KPMG India Finals 2021.

Team CARBON 6 made it to Runners Up in KPMG India Finals held on 02 April, 2022. After a tight fight with seven teams from IIT Bombay, IIT Kharagpur, IIT Roorkee, IIM Kozhikode, NMIMS Mumbai & WeSchool Mumbai, Indian Institute

of Technology (ISM) Dhanbad team just missed the chance to made it to National Winners. The theme of the competition was - To achieve Net zero in any community, industry or economy. The team prepared a platform to accelerate Net-Zero emissions in Indian households, by incentivizing global carbon consciousness.

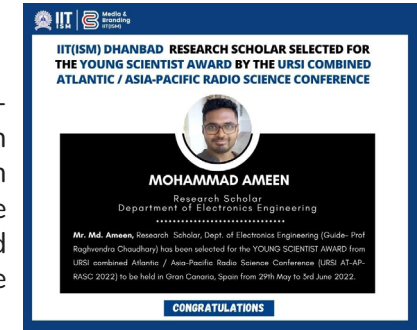
Big initiative for the farmers of Jharkhand to get the maximum price for their products.

IIT (ISM) Dhanbad is developing a mobile application and a web portal through which the farmer would be able to share a photo of their product and sell their products anywhere. Prof. Shashank Bansal, Department of Management Studies, and Prof. Ruchika Sehgal, Department of Mathematics and Computing, who developed the platform, said that they have equipped it with blockchain technology. The platform will also have traders, organizations, and experts working in the interest of the farmer.



Mohammad Ameen selected for the YOUNG SCIENTIST AWARD

Mohammad Ameen, Dept. of Electronics Engineering, (Guide- Prof. Raghvendra Chaudhury) has been selected for the YOUNG SCIENTIST AWARD from URSI combined Atlantic / Asia-Pacific Radio Science Conference (URSI AT-AP-RASC 2022) to be held in Gran Canaria, Spain from 29th May to 3rd June 2022.



IIT (ISM) Team won first prize of Industrial and Research Conclave 2022

The team consist of three students - Smarjeet Singh (B.Tech, Mining Engineering), Aman Raj (B.Tech, Mining Engineering), and Kasina Jyothi Swaroop (B.Tech, Electrical Engineering). Prof. L.K.Behera, IIT-Kanpur, and Prof. Sidhartha Agarwal, Dept. of Mining Engineering, IIT (ISM) Dhanbad, kept the team motivated and guided as they worked on the project "Unmanned Ground Vehicle For UG Mine Inspection."



CAREER DEVELOPMENT CENTRE

Career Development Centre (CDC) is dedicated towards shaping career of students by providing them favourable placement opportunity and expose them to avenues towards their better preparation by conducting various training sessions/interactive workshop to maximize students' participation and to facilitate them for better placement, entrepreneurship and towards career growth.

Existing Placement Process

- **Internship & Training:** As part of the curriculum, pre-final year B.Tech., Dual/Integrated and MBA Degree students undergo summer internships in various leading organizations. Students from other programs also take up internships to add on to their educational experience. Such industrial exposure provides student with adequate working experience of industrial entity. Students are also regularly exposed to the latest industrial practices through several industry vis-its. Many second-year students also gain valuable experience through intern-ships in the industry. Students also pursue internships and projects in various national and international academic institutions.
- **Campus Placement:** CDC is trying to make students well equipped on all aspects of career development with good adaptability index that would help them get placed in companies.
- **Hard & Soft Skills Development:** CDC, IIT (ISM) is providing facilitation in developing hard & soft skills leveraging faculties from institute and outside

Career Development Centre has initiated efforts towards overall enhancement of life process of students through engaging them in different activities. Campus placement is not the only objective of the institute, but to add on to the human capital pool who can contribute in development of society/ nation. In this regard, CDC is trying to give vital inputs to students and move them towards entrepreneurship/ R&D/Education/ social avenues etc.

1. Interaction sessions:

A. Interaction with IIT (ISM) Alumni: Career Development Centre facilitates inter-active sessions where Alumni share their experience/wisdom with students for personality development, industry requirements and nurturing compatibilities in organization etc.

B. Interaction with industry professionals: CDC is also arranging interactive sessions on weekends where industry professionals share their experience on soft skill and make them aware about industry environment, professional ethics, etc.

2. Museum of Resurrection

CDC is looking to form a museum of resurrection for unplaced students. Museum of resurrection will facilitate students about how they can traverse beyond the traditional. The museum will encourage students towards Research/innovation & entrepreneurship.

A. Research: Museum of resurrection will facilitate students about developing research projects, patent publication, content writing, journal publications etc.

Dean (Research & Development)/Coordinator, CUE may facilitate students and engage students in projects that enhance knowledge and concept.

B. Entrepreneurship: Museum of resurrection will facilitate students to move into entrepreneurship arena through Centre of Innovation Incubation & Entrepreneurship (CIIE) arm of the institute. CIIE reviews entrepreneurship activities in the campus and help students in nurturing the seed of entrepreneurship. CDC in association with

3. Employability by enhancing on soft power counts

In addition, training done by students (in 2nd year) be strictly monitored by departments/CDC to help them prepare better at the time of personal interview (PI) during campus recruitment. Department faculties to visit industry representatives during campus visit and otherwise also to develop recruitment possibilities and apprise it to CDC for furthering it up.

INTERNSHIPS & STATISTICS

INTERNSHIPS IN RESEARCH

Students take up internships to gain firsthand experience of the professional world, generally during their second year and third year of their academic program. Some students also pursue research interns under different fields in esteemed institute universities worldwide.

100+

students interned at different universities worldwide
in different fields in the past three years

20+

prominent universities worldwide where our stu-
dents have interned

Few universities where our students accomplished their internships :

Machine Learning & Deep Learning

UiT - The Arctic University of Norway
Athabasca University
University of Winnipeg
IIIT Allahabad
Université Laval
Queens' University
University of Calgary
Bhabha Atomic Research Center(BARC)
Mila University of Montreal
CMU Robotics Institute
University of Waterloo

Core Electronics Engineering

IISc Bangalore
IIST Thiruvananthapuram
ISRO
IIRS
IIT (BHU) Varanasi
IIIT Allahabad
IIT Gandhinagar

Robotics
IISc Bangalore
QUT, Queensland, Australia
CMU Robotics Institute, Pittsburgh

Core Mechanical Engineering

The University of British Columbia, Vancouver
IIT Hyderabad

Applied Science

University of Regina
Indian Institute of Astrophysics, Bangalore

Applied Geology

Wadia Institute of Himalayan Technology, Dehradun
University of Regina
Bhabha Atomic Research Center(BARC)
University of College London
University of Northern British Columbia(UNBC)
University of British Columbia, Kelowna
University of Saskatchewan

INTERNSHIPS IN INDUSTRY

Students take up internships to gain firsthand experience of the professional world, generally during their second year and third year of their academic programme. The duration of the internship varies from 8 weeks during summer break for normal bachelor's students and 6 months for integrated M. Tech students. Recruiters include core engineering firms, leading banks, analytics companies, FMCGs and startups.

527

Students received internship from different companies under different roles

131

Students received pre placement offers(PPOs) from companies after completing their internship

88

Companies visited campus for internship recruitments

PROMINENT RECRUITERS



PLACEMENTS & STATISTICS

250+

Companies visited for full time hiring

1062+

Students received full time offers till June 2022(Including PPOs)

20+

International offers

103 L

Highest CTC offered (Amazon, Dublin)

17.3 L

Average CTC offered

PROMINENT RECRUITERS

Top Companies



Leading Banks, Analytics & Consulting companies



Core engineering firms



FMCGs, Startups & Unicorns



Public Sector Undertakings(PSU) Companies



PLACEMENT & INTERNSHIP PROCEDURE

1

INVITATION

Career Development Centre (CDC), IIT(ISM) Dhanbad invites companies/organizations for full time hiring/ internship hiring of the students

2

FILLING JNF & INF

CDC provides the link to download the Job Notification Form (JNF) & Internship Notification Form (INF) that needs to be filled by the company and sent through email to cdc@iitism.ac.in.

/* Companies not receiving invitation from the CDC may also follow the above mentioned procedure for submission of JNF /INF*/

3

ASSIGNING A COORDINATOR

A student of IIT(ISM) is assigned to every company as Point Of Contact(POC) to coordinate with HRs and students for smooth conduct of hiring process.

4

PRE-PLACEMENT TALK & ONLINE TEST

On receipt of JNF/INF , CDC invites the companies to visit the campus for a Pre-Placement Talk (PPT) either before the selection process or during the final recruitment process.

5

FINALIZING DATE

CDC finalizes a suitable date for the selection process and communicates to the company. Dates are allotted on the basis of students perception of the job/internship offered viz, job profile and growth prospects, CTC/Stipend offered by company, past record recruitment.

6

FURNISH FINAL LIST

After completion of the selection process, the company is requested to furnish the final list of selected and/or wait-listed students.

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