



Joint Seat Allocation Authority 2021

IITs, NITs, IEST, IITs and Other-GFTIs for the Academic Year 2021-22



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Prof Subindu Kumar

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Indian Institute of Technology (ISM) Dhanbad

Type of the institute:

Indian Institute of Technology

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About the Institute:

Standing tall since early decades of 20th century, the Institute is steadily sailing through the millennium change and has emerged into one of the most prominent institution - Indian Institute of Technology IIT (ISM) with full bloom functioning of 18 branches of Engineering, Applied Sciences, Management Studies and Humanities. IIT (ISM) has a centenary long credentials of outperforming achievements/contributions in academia and the industry.

The Indian National Congress at its XVII Session of December 1901 passed a resolution stating that “in view of the fact that the tendency of recent legislation namely, The Indian Mines Act VII of 1901, is that all Indian mines must be kept under the supervision of mining experts, the Congress is of opinion that a Government College of Mining Engineering be established in some suitable place in India on the models of the Royal School of Mines in England, Mining Colleges of Japan and at other places in the continent”. The McPherson Committee formed by Govt. of India, recommended the establishment of an institution for imparting education in the fields of Mining and Geology, whose report, submitted in 1920, formed the main basis for establishment of the Indian School of Mines, Dhanbad.

The Indian School of Mines was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to mining activities in the country with disciplines of Mining and Applied Geology. In 1967 it was granted the status of a deemed to be university under Section 3 of UGC Act, 1956. Since its establishment, IIT (ISM) has undergone considerable expansion of its activities, and presently it can be considered as a total technology education institute.

Situated in the heart of the country's prime coking coal belt, 260 kms from Kolkata with a campus spread over an area of 393 acres, (with 218 acres of existing campus and 175 acres under acquisition and development) the fully residential IIT(ISM) has all the facilities of world class academic institute. What started as an institution to impart mining education has graduated into a full-fledged technical institution of international acclaim offering a host of programmes like B. Tech., M. Tech., M. Sc. Tech., and MBA.

IIT (ISM) is striving relentlessly to become and remain a nationally and internationally acclaimed premier institution of higher technical and scientific education with social commitment having an ethos for intellectual excellence, where initiative is nurtured, where new ideas, research and scholarship flourish, where intellectual honesty is the norm and from which will emerge the leaders and innovators of tomorrow in the realm of technology. While serving as a catalyst in a developing society, its goal as one of the premier technology education institution in the country would be to intimately involve itself not just in the technological development of the Nation but indeed in its overall development.

For more information, please visit: https://www.iitism.ac.in/index.php/pages/about_overview

Fee Structure:

[A] Total amount [in Indian Rupee (INR)] to be paid at the time of admission:

Category	Indian Nationals				Foreign Nationals (including OCI/PIO card holders)	
	General / OBC-NCL	SC / ST / PWD	General / OBC-NCL	SC / ST / PWD		
Mode	Online Mode		Offline Mode		Online Mode	Offline Mode
Tuition Fees	100000	NIL	100000	NIL	300000	300000
Other Fees	19000	19000	26470	26470	19000	26470
Total	119000	19000	126470	26470	319000	326470

[B] Total amount [in Indian Rupee (INR)] to be paid at the time of admission for Indian National students from low family income (General / OBC-NCL only)**

Category	Applicable only to Indian Nationals			
	Below 1.00 lakh	Above 1.00 lakh but below 5.00 lakhs		Above 1.00 lakh but below 5.00 lakhs
Mode	Online Mode		Offline Mode	
Tuition Fees	NIL	33333	NIL	33333
Other Fees	19000	19000	26470	26470
Total	19000	52333	26470	59803

** For tuition fee concession/waiver (Only for General/OBC-NCL) the candidate will be required to submit all requisite documents at the time of admission for verification. **Please Note: Mess fee is not included in the above payable amount. Mess fee will be added at the time of admission.**

For detail break-up of fee structure, please visit:

Indian Nationals: <https://www.iitism.ac.in/~academics/assets/Fee%20structure%20AY%2021%2022%20Detail%20with%20Links%20.pdf>

Foreign Nationals: https://www.iitism.ac.in/assets/uploads/news_events/admin/14-09-2021-03:09:14_notices.pdf

Academic Structure:

Departments: There are 18 Departments in the Institute. Details of each of the Departments – Academic programmes, Research activities, Laboratory facilities, Faculty members – can be obtained from the link: <https://www.iitism.ac.in/index.php/pages/departments>

Academic Programmes: The Indian Institute of Technology (Indian School of Mines) constituted under Institute of Technology Act, 1961 is administered through IIT Council-the apex body, Government of India under the Chairmanship of Honourable Minister, MHRD for uniform and smooth governance of Pan-IIT in our country. _The Institute offers 12 nos. of B. Tech Courses in different disciplines of Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, Electronics and Communication Engineering, Engineering Physics, Environmental Science and Engineering, Mechanical Engineering, Mineral Engineering, Mining Engineering, Mining Machinery Engineering and Petroleum Engineering. It also offers five year integrated M. Tech in Applied Geology, Applied Geophysics and Mathematics & Computing. _Admission to these courses is done by Joint Entrance Examination (Advanced) Examination – JEE Advanced at All India level.

_The Institute also offers _20_ nos. of M. Tech Courses in various streams offered by different Departments / centers. Admission to all these 2 year M. Tech Courses are done through GATE Examination conducted at All India level. The Institute also offers 3 year M.Sc. Tech courses in Applied Geology and Applied Geophysics, 2 year M.Sc. courses in Physics, Chemistry and Mathematics & Computing. Admission to these courses are based on JAM Score (Joint Admission Test for M.Sc) held at All India Level. 2 year M.B.A. Programme is also offered where the admission is based on combined scores of CAT and personal interview/group discussion of candidates. Research opportunities are available in different disciplines of 18 departments. Admission to PhD is done through NET/JRF/Internal Examinations. As of now, Institute is having 1000+ regular full time PhD scholars. The Post-Doctoral Fellowships (PDFs) and Quality Improvement Programme (QIP) opportunities are also available in the Institute. For more information, please visit: <https://www.iitism.ac.in/~academics/>

Research and Development: The Office of the Dean (Research and Development) drives strategic planning and provide guidance across academic and research programs, fostering new and interdisciplinary research initiatives and collaborations. For more information, please visit: <https://www.iitism.ac.in/deans/research/index.php>

Rules For Change Branch:

Details of Rules for Branch Change may be obtained from the following link:

https://www.iitism.ac.in/assets/pdfs/admission/jeca/Branch_Change_Rule/Branch_Change_Rules_Modified.pdf

Faculty:

Details of Faculty Members may be obtained from the following link:

<https://www.iitism.ac.in/index.php/faculty>

Facility:

Laboratories: Details of Laboratory facilities available in different Departments can be obtained from the link: <https://www.iitism.ac.in/index.php/pages/departments>

Computing and Internet facility: IIT(ISM) has a state-of-the-art Computer Centre which supports campus wide Fibre Optic Network comprising of 7000 nodes that connect all the academic departments, central library, administrative departments, each room of hostels, residences of faculties and officers. Internet access is provided to all the users through dedicated internet links and is being augmented further. Computer Centre has a number of state-of-the-art servers, LINUX and WINDOWS Labs and application software. Campus wide 4G Wi-Fi network for all valid users of the campus is being created.

Central Library: The Central Library of Indian Institute of Technology (Indian School of Mines) Dhanbad is the heart of the institute providing direct academic and research supports to all departments. The Central Library is an automated library in terms of records organization and management of all its different sections, search and discovery, information retrieval and service delivery. The whole library operations run on LIBSYS integrated library management software. Over the years the library has developed several databases of books, journals, theses/ dissertations, conference proceedings, etc. All documents have been bar-

coded. Focus has been given on collection build-up of print resources as well as licensed e-resources plus E-Shodh Sindhu sponsored resources. The library has reached all the departments, hostels, and quarters on the campus wide LAN.

The library has initiated the development of the “Institutional Digital Repository” based on DSpace open source platform. The Central Library has set up its “Research Documentation Cell” based on the research outputs which are indexed in Scopus and Web of Science. To meet the challenges of increasing number of students, research scholars and faculty members as well as ever changing information and communication technologies a G+7 centrally air-conditioned library having state-of-the-art facilities is now operational to provide top quality library services. For more information, please visit: <http://library.iitism.ac.in>

Medical Facility: Medical facilities as available at Health Centre of the Institute are provided to all students during their period of study at IIT(ISM). The Health Centre is well staffed and equipped with facilities for treatment of outdoor patients. The services of specialist visiting doctors are also available on regular basis. Important hospitals in the country have been tied up for providing medical assistance and treatment in emergency. The Institute boasts for its state-of-the-art health facilities available in the college, in addition to a 24×7 ambulance service and the campus security.

Student Life at Institute:

The campus life at IIT (ISM) never comes to a halt. With over seven thousand students from around the country and dozens of variegated fests around the year, one shall invariably have something or the other to experience or look forward to. Hop in to discover how enterprising the life at IIT Dhanbad can be. For details of campus life, please visit: <https://www.iitism.ac.in/campuslife/campus.php>

Experience IIT (ISM): To have a real-life experience of IIT (ISM), please visit: <https://www.youtube.com/watch?v=Tp9iD7YAcKo>

Financial Assistance:

Education must never succumb to mere finances. A big portion of IIT (ISM) students avail scholarships of one kind or the other, provided by the government or by the Institute's Alumni Associations, so that no student misses off a chance to knowledge due to economic shackles. IIT (ISM) provides financial assistance / scholarship to a large number of students. Under IIT (ISM) merit – cum- means scholarship, the Institute provides scholarship to a number of the students which includes tuition fee reimbursement in full, apart from some amount of financial assistance per month. Under New Central Sector Scholarship Scheme, few students belonging to SC and ST category are provided every year free boarding and lodging. Besides, there are a host of scholarships sponsored by different State Governments and Public and Private corporate sectors including endowment scholarships. For further information, please visit:

<https://www.iitism.ac.in/~dsw/siw.html>

Training & Placement:

The training and placement cell of the Institute, headed by a senior faculty member, maintains active association and excellent contacts with industries and the corporate sectors to secure jobs in various organizations of the country and abroad. The placement cell coordinates the placement activities to match the needs of the industry with the aspirations of the students. For detailed information, please visit: <https://cdc.iitism.ac.in>

Industry And Alumni Relations:

IIT(ISM) is proud of its alumni. Traditionally, IIT(ISM) alumni are holding top positions in industries and government offices. Graduates of this Institute are heading public and private sector companies and also holding key positions in the areas of academics and research both in India and abroad (USA, Canada, Australia etc). IIT(ISM) PVS (ISMAA) is extremely active and vibrant in meeting its objective of enabling the alumni to keep in touch with the Alma mater, to promote and foster spirit-de-corps amongst the past and present students and the teachers of the Institute and to contribute towards furtherance of science and technology through its seven national and one international chapters located respectively in Bhubaneswar, Dhanbad, Delhi, Ranchi, Kolkata, Mumbai, Nagpur, and North America. IIT(ISM) PVS (ISMAA) actively promotes various annual awards to students and teachers for academic/research excellence in IIT(ISM). The association also provides international travel grants for students to present papers in various technical forums abroad.

Recreational/Extra Curricular activities:

The Institute has unique infrastructural facilities on campus for indoor/ outdoor games and sports. The upper and lower grounds constitute beautiful arena for outdoor games and annual sports. The Sports Complex comprises infrastructure for tennis, basketball, volleyball, and badminton. A Student Activity Centre equipped with a state-of-the-art gymnasium, yoga center, indoor sports facilities and Olympic size swimming pool provide ample facility for building and toning up of physical and mental health. Srijan, the biggest cultural-management festival of Eastern India is organized by ISS body of students every year which draws nationwide participation from different institutes. A number of student societies and hobby clubs functioning on IIT(ISM) campus are the potential avenues to unleash students' creativity and imagination in constructive events. For more information, please visit: <https://www.iitism.ac.in/~dsw/sa.html>

Location and Accessibility:

The Institute is situated about 3 km north of Dhanbad Railway Station on the Grand Chord of Eastern Railway. IIT(ISM) being situated at the core of the industrial base of the region covering mines, steel plants, fertilizer plants, refractories, heavy machine building plants etc. derives locational advantage in learning and teaching process in terms of keeping abreast with changing technology in the industry. Google map to

locate IIT (ISM), Dhanbad: <https://goo.gl/maps/OpsHm6cLPps2hJ3W9>

Academic Program wise Breakup:

Institute Code	Program Code	Academic Program Name	State/All India Seats	Seat Pool	OPEN	OPEN-PwD	SC	SC-PwD	ST	ST-PwD	OBC-NCL	OBC-NCL-PwD	GEN-EWS	GEN-EWS-PwD	Total(includes Female Supernumerary)	Program-Total	
																Seat Capacity	Female Supernumerary
114	4107	Chemical Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	17	1	6	1	3	0	11	1	4	0	44	49	6
				Female-only (including Supernumerary)	4	1	1	0	1	0	3	0	1	0	11 (including "6" Supernumerary)		
114	4109	Civil Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	21	1	7	1	4	0	14	1	5	1	55	61	8
				Female-only (including Supernumerary)	5	1	2	0	1	0	4	0	1	0	14 (including "8" Supernumerary)		
114	4110	Computer Science and Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	42	3	15	1	8	1	28	2	10	1	111	124	15
				Female-only (including Supernumerary)	10	1	4	0	2	0	7	1	3	0	28 (including "15" Supernumerary)		
114	4111	Electrical Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	37	2	14	1	7	1	25	1	9	1	98	114	9
				Female-only (including Supernumerary)	9	1	4	0	2	0	6	1	2	0	25 (including "9" Supernumerary)		
114	4114	Electronics and Communication Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	38	2	14	1	7	1	25	1	9	1	99	116	8
				Female-only (including Supernumerary)	10	1	4	0	2	0	6	0	2	0	25 (including "8" Supernumerary)		
114	4117	Engineering Physics (4 Years, Bachelor of Technology)	All India	Gender-Neutral	10	1	4	0	2	0	6	0	2	0	25	29	2
				Female-only (including Supernumerary)	2	0	1	0	0	0	2	0	1	0	6 (including "2" Supernumerary)		
114	4119	Environmental Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	15	1	5	0	3	0	9	1	4	0	38	47	1
				Female-only (including Supernumerary)	4	0	1	0	1	0	3	0	1	0	10 (including "1" Supernumerary)		
114	4125	Mechanical Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	40	2	15	1	7	1	27	2	9	1	105	111	20
				Female-only (including Supernumerary)	10	1	4	0	2	0	6	1	2	0	26 (including "20" Supernumerary)		
114	4130	Mining Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	38	0	14	0	7	0	25	0	10	0	94	103	14
				Female-only (including Supernumerary)	9	0	4	0	2	0	6	0	2	0	23 (including "14" Supernumerary)		
114	4131	Mining Machinery Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	18	0	7	0	3	0	12	0	5	0	45	47	9
				Female-only	4	0	2	0	1	0	3	0	1	0			

				(including Supernumerary)											11 (including "9" Supernumerary)		
114	4134	Petroleum Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	28	1	10	1	5	0	19	1	7	0	72	79	11
				Female-only (including Supernumerary)	7	0	3	0	1	0	5	0	2	0	18 (including "11" Supernumerary)		
114	4189	Mineral and Metallurgical Engineering (4 Years, Bachelor of Technology)	All India	Gender-Neutral	14	1	5	0	3	0	9	1	3	0	36	37	8
				Female-only (including Supernumerary)	3	1	1	0	1	0	2	0	1	0	9 (including "8" Supernumerary)		
114	5305	Mathematics and Computing (5 Years, Integrated Master of Technology)	All India	Gender-Neutral	17	1	6	1	3	0	11	1	4	0	44	52	3
				Female-only (including Supernumerary)	4	1	1	0	1	0	3	0	1	0	11 (including "3" Supernumerary)		
114	5306	Applied Geology (5 Years, Integrated Master of Technology)	All India	Gender-Neutral	7	0	2	0	1	0	5	0	2	0	17	19	2
				Female-only (including Supernumerary)	1	0	1	0	0	0	1	0	1	0	4 (including "2" Supernumerary)		
114	5307	Applied Geophysics (5 Years, Integrated Master of Technology)	All India	Gender-Neutral	7	0	2	0	1	0	5	0	2	0	17	19	2
				Female-only (including Supernumerary)	1	0	1	0	0	0	1	0	1	0	4 (including "2" Supernumerary)		
				Total Seats	432	24	160	8	81	4	289	15	107	5	1125	1007	118

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