

Counselling Brochure of IIT JEE 2017 IIT(ISM)

The Indian Institute of Technology (Indian School of Mines), Dhanbad was established by the Government of India in 1926 on the pattern of Royal School of Mines, London to teach Mining Engineering and Applied Geology to provide manpower for the Indian Mineral Industry and the concerned departments of the Government. Subsequently in 1957, Petroleum Engineering and Applied Geophysics disciplines were also added. In due recognition of its vital role in the service of the mineral exploration and mining sectors of the national economy, IIT(ISM) was granted autonomy by the Government of India in 1967; and has been functioning as a Deemed University under the University Grants Commission Act, 1956. In 1996, it came under financial and administrative control of MHRD, Government of India. Subsequently in the year, 2016, Govt. of India notified Vide S.O.2870(E) of No.2173, Part II Section 3 – Sub section (ii) of the Gazette of India dated 6th September 2016, the Indian School of Mines Dhanbad was declared as Indian Institute of Technology (Indian School of Mines), Dhanbad. It has a fully residential campus consisting of graceful blend of old and new style buildings. The serene campus comprises academic buildings, separate hostels for boys and girls, faculty & staff quarters, health centre, workshop, Student Activity Centre (SAC), canteen and other infrastructural facilities for its cosmopolitan community. 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.

Departments and Academic Programmes

IIT(ISM) offers B.Tech programmes in 13 disciplines, viz. Mining Engineering, Petroleum Engineering, Mining Machinery Engineering, Mineral Engineering, Computer Science & Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Mechanical Engineering, Electrical Engineering, Environmental Engineering, Civil Engineering, Chemical engineering and Engineering Physics; in addition, five year dual degree programme in Computer Science and Engineering. It also offers five year integrated M.Tech in Applied Geology, Applied Geophysics and Mathematics & Computing. IIT(ISM) has been offering, since 1972, a number of industry-oriented M.Tech. Programmes. The Ph.D. Programmes in Engineering, Sciences, Humanities & Social Sciences and Management also attract many postgraduate students from across the country and abroad. The Institute also offers

3 year M.Sc. Tech Programmes in Applied Geology and Applied Geophysics, 2 year M.Sc. Programmes in Physics, Chemistry and Mathematics & Computing, through a separate All India Competitive Examination. A 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. Department of Mining Engineering has been granted the status of Centre for Advance Studies (CAS) in Mine Safety and Management and also a Quality Improvement Programme (QIP) Centre for higher studies (M.Tech. and Ph.D) by University Grant Commission.

Laboratories

IIT(ISM) can boast of a large number of well equipped, state-of-the-art laboratories in various departments such as Rock Mechanics, Rock Excavation, Mine Surveying, Mine Environment and Safety Engineering, Computer Aided Mine Planning & Design Laboratories in the Department of Mining Engineering; Thermal, Steam Power, Theory of Machines, CAD, Oil Hydraulics, Strength of Material, Fluid Power, Fluid Mechanics, Material Handling, Mining Machinery, Drilling Engineering Laboratories in the Department of Mechanical Engineering and Mining Machinery Engineering; Paleomagnetism, Gravity and Field Testing, Electromagnetic Models, Seismic, Geophysical Signal Processing, Advanced GPS data processing, Coal Geophysics, Computational Seismology, Rock Physics, D.C Resistivity and Instrumentation Laboratories in the Department of Applied Geophysics; Ore/Mining Geology, Engineering Geology, Photo Geology and Remote Sensing, Geochemistry, Coal Geology and Sedimentology, Petrology, Hydrogeology Laboratories in the Department of Applied Geology; Mineral Characterisation, Communion & Classification, Gravity Separation, Magnetic & Electrostatic Separation, Pyroprocessing, Fuel Technology, Bio-mineral Processing Laboratories in the Department of Fuel and Mineral Engineering; Petrophysics, Drilling Fluids, Reservoir Fluids, Reservoir Engineering, Reservoir Characterisation, Crude Oil and Product Testing and Petroleum Engineering Laboratories in the Department of Petroleum Engineering to name a few. An extensive Geological Museum, a Seismological Observatory, an Experimental-cum-Training mine at No. 26 incline Godhur Colliery of BCCL, and Longwall Training Gallery are unique instructional facilities. A state-of-the-art Central Research Facility housing high-value advanced scientific equipments has been established.

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 softwares. Campus wide 4G wi-fi network for all valid users of the campus is being created.

Central Library

The Central Library of the Institute has rich collection of books, journals, conference proceedings, standards, reports, theses and dissertations on all branches of engineering, applied sciences, earth science, social science, environmental science and management. The library provides access to nearly 137,725 books and 40,360 bound volumes of journals, more than 10,967 theses and dissertations and many conference proceedings, 14 national newspapers and 35 current magazines. Different sections and services of library are automated with help of an Integrated Library Management Software called “LIBSYS”. All records of the library are accessible on Web based Online Public Access Catalogue (WEBOPAC) popularly known as internet catalogue, on the IIT(ISM) campus wide network as well as through internet. It provides access to more than 14000 electronic journals. The library has 4 servers, 32 PCs and other accessories adequate to cater to the needs of users. Four information KIOSK are meant for users to access OPAC data bases, e-books, e-journals and other e-resources. The official website of the Central Library ([http:// www.iitismlib.ac.in](http://www.iitismlib.ac.in)) provides access to 14 different data bases and e-journals viz Science Direct, AIP, APS, ACS, One Petro, ASME, ASCE,, IEL online, EBSCO, ACM Digital Library, Nature, JCCC–INDEST and Springer Link. 6000 plus e-books have been also purchased. A new Centrally Air-conditioned 8 storied library building is under construction.

Alumni Association

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 Bhubaneshwar, 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.

Training and 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.

R&D Activities and Technical Collaboration

IIT(ISM), in its various departments, is currently doing R&D and Industries sponsored projects worth more than Rs 124.00 corers sponsored by various organisations. The Institute has signed MOU for technical collaboration with CSIR laboratories, McNally Bharat Engineering. Co. Ltd, MTI (SAIL), Deptt. of Atomic Energy, GOI, BHP Billiton (Australia), CSIRO(Australia), Safety in Mines, Testing & Research Station(SIMTARS, Australia), Bosch Rexroth AG Germany etc. The Institute has signed MOUs with 25 Universities spread across the globe such as Politecnico di Torino(Italy), Arkansas State University (USA), TU Clausthal (Germany), National United University (Taiwan),Curtin University of Technology(Australia), University of Queensland (Australia), University of New South Wales(Australia), University of South Florida(USA), Politecnica De Universidade De Sao Palo(Brazil), University of Free State(South Africa), University of Western Cape(South Africa) Texas Tech University(USA), Laurentian University(Canada), Perm National Research Poytechnic University (PNRPU), Perm, University of WINDSOR(Canada), All Nations University(Ghana), University of Osijek(Croatia),Institute of Geonics(Czech Republic) and others. The Institute enjoys nine posts of Chair Professors in different departments instituted by National Mineral Development Corporation, Steel Authority of India Limited, Tata Steel, Coal India Limited (two), Uranium Corporation India Limited, Oil and Natural Gas Corporation, Sandvik and Ministry of Labour and Employment. IIT(ISM) is actively engaged in faculty and student exchange with universities in the European Union under Erasmus Mundas India 4EU II and Areas+ Projects.

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.

Games and Sports

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 centre, 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.

Financial Assistance/Scholarships

IIT (ISM) provides financial assistance / scholarship to a large number of students covering almost 40% of the student strength. Under IIT (ISM) merit – cum- means scholarship, the Institute provides scholarship to 25% of the students on roll that includes tuition fee reimbursement in full apart from financial assistance @ Rs. 1000/- per month. Ten percent of the students on roll are provided with only tuition fee reimbursement in full. Under New Central Sector Scholarship Scheme, 10 students of SC category are provided every year free boarding and lodging apart from grant-in-aid of Rs.45000/- for purchase of computer in the first year. Under New Central Sector Scholarship Scheme, 05 student of ST category are provided every year free boarding and lodging apart from grant-in-aid of Rs.45000/- for purchase of computer in the first year. Besides, there are a host of scholarships sponsored by different State Governments and Public and Private corporate sectors including endowment scholarships.

Rules for Change of Branch

The branch change rules are under review and will be notified later in due course of time.

Contact Details

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