

# **INFORMATION BOOKLET**

**Ph.D. DEGREE ADMISSION**

**2021-22**

**APPLICATION COMMENCES FROM 05<sup>TH</sup> APRIL, 2021**



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(INDIAN SCHOOL OF MINES)**

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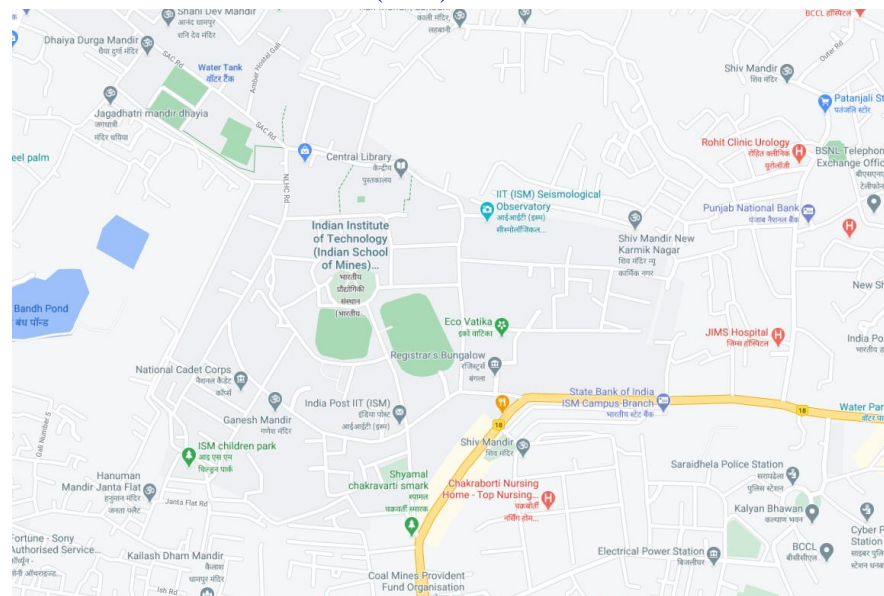
## 1. ABOUT IIT(ISM) DHANBAD

Indian Institute of Technology (Indian School of Mines) [IIT(ISM)], Dhanbad, previously known as ISM Dhanbad, is one of the prestigious institutes of the country, built on the pattern of the Royal School of Mines, England, United Kingdom (U.K.) in the year 1926. Today, it enjoys the status of an **Institute of National Importance**, fully funded by the Ministry of HRD, Govt of India (GOI) and was declared as IIT on 6<sup>th</sup> September 2016. IIT(ISM), while administering its programmes through various Departments and Centres of excellence, offers its services to several industries, especially in mining, mineral, petroleum, and metallurgy sectors. IIT(ISM) focuses its education on various engineering, science and management disciplines. The institute offers B.Tech, M.Sc., M.Sc.(Tech.), M.Tech, MBA, M.Tech. Dual Degrees, Integrated M.Tech. programmes, besides awarding Ph.D. and D.Sc. in all disciplines. IIT(ISM), a Deemed to be University, since 1967, started its programmes initially by offering degrees specialized in different earth sciences and engineering disciplines.

The Institute that aims at excellence in teaching and research benefits both academia and industry through 18 departments in various areas of **Engineering**: Civil, Computer Science & Engineering, Chemical, Electrical, Electronics, Environmental Science & Engineering, Fuel, Mechanical, Mineral, Metallurgical, Mining, Mining Machinery, and Petroleum; **Science**: Physics, Chemistry, Mathematics & Computing, Applied Geology, Applied Geophysics, besides **Management and Humanities & Social Sciences**. It has been focusing its academic and research activities on various aspects of industries ever since its inception.

IIT(ISM) has maintained its all-India character, drawing faculty and students from all across the country. It occupies a unique position around the globe and has contributed to the development of the mining, mineral, and petroleum sector substantially. The institute possesses state-of-the-art facilities for advanced studies and research in all areas of Engineering, Sciences, Management, and Humanities & Social Sciences, situated within a campus spread over an area of 220 acres.

### IIT(ISM) Dhanbad



[IIT\(ISM\)](#) located in the city of [Dhanbad](#), which is also known for its Coal Mines. Hence referred to as the Coal Capital of India. One can reach Dhanbad by rail and road. It is 259 km from Kolkata, 167 km from Ranchi, 67 km from Bokaro Steel City, and about 180 km from Jamshedpur. Trains are available from all parts of the country to reach Dhanbad via Kolkata, Delhi, and Bombay. Ranchi, Kolkata and Durgapur are the nearest airports. Deluxe and Express buses ply from Kolkata, Ranchi, Jamshedpur, and Bokaro to Dhanbad. IIT(ISM) campus is just 2.5 km from Dhanbad railway station where taxis and rickshaws ply round the clock. People arriving by train should exit from the main gate located near the platform No.1 to avail the taxis/rickshaws for the local conveyance to the institute.

## 2. ABOUT Ph.D. ADMISSION 2021-22

IIT(ISM) Dhanbad provides Institute Assistantship (IA) to the deserving and eligible candidates qualified through the institute selection procedure and, thus, providing ample opportunities for carrying out research leading to the Ph.D. degree.

IA is open to the candidates who possess the minimum eligibility criteria given in [section 3.4](#). The respective department will scrutinize the eligibility of the candidate at every stage as per the specific eligibility of the respective discipline of the Ph.D. programme ([Table 6](#)). The applicants should submit the correct information during online registration and application. The application which has incorrect/insufficient information will be rejected at any stage of admission.

The total number of seats for the 2021-22 admission depends on the availability of funds and vacancy for the academic year 2021-22. The discipline-wise distribution of seats will be as per the requirement of respective departments. The reservation policy directed by the Government of India will be followed, and the number of positions to each category is fixed at the institute level and not for each discipline.

### 2.1 Important Dates

Table 1 gives the crucial dates for the Ph.D. admission 2021-22. Any change in date(s) will be notified through IIT(ISM)'s website. Candidates are requested to visit IIT(ISM) website frequently for any information regarding Ph.D. admission, including change of date, if any.

**Table 1: Important dates**

Details	Date(s)
Commencement of online application	<b>April 5, 2021</b>
Last date for applying through online portal	<b>May 5, 2021</b>
Extended date for applying through online portal*	<b>May 15, 2021</b>
Intimation to shortlisted candidates for interview**	<b>Will be intimated later</b>
Interview for shortlisted candidates***	<b>June 28 to July 2, 2021</b>
Declaration of the merit list	<b>July 15, 2021</b>
Online Registration of Merit list candidates	<b>July 19, 2021 to July 23, 2021</b>
Declaration of extended merit list	<b>July 27, 2021</b>
Online Registration of Extended Merit list candidates	<b>July 28, 2021 to July 31, 2021</b>
Physical Admission (in Campus) & joining of admitted students	<b>August 12, 2021</b>

**\*Dates will be intimated in due course. \*\*Appropriate academic criteria/methodology will be adopted by the respective departments for shortlisting of applications received against the Ph.D. admission. \*\*\*Tentatively, Interview may be online due to the prevailing COVID-19 situation. In normal case, the interview will be physical in the campus at respective departments.**

## 2.2 Disciplines

This scheme is currently available to only those disciplines given in [Table 2](#), with an emphasis on interdisciplinary research. IIT(ISM) encourages registration for Ph.D. in the interdisciplinary areas, which may be offered to the successful candidates.

**Table 2: List of disciplines**

Sl. No.	Department	Discipline Name	Code
1	Applied Geology	Applied Geology	AGL
2	Applied Geophysics	Applied Geophysics	AGP
3	Chemical Engineering	Chemical Engineering	CHE
4	Chemistry	Chemistry	CHY
5	Computer Science & Engg.	Computer Science & Engg.	CSE
6	Civil Engineering	Civil Engineering	CVL
7	Electronics Engg.	Electronics Engg.	ECE
8	Electrical Engg.	Electrical Engg.	ELE
9	Humanities & Social Sciences	English Language/Literature	ENG
10	Environmental Science & Engg.	Environmental Science	ENS
11	Environmental Science & Engg.	Environmental Science & Engg.	ESE
12	Fuel, Mineral & Metallurgical Engg.	Fuel, Mineral & Metallurgical Engg.	FMM
13	Management Studies	Industrial Engg. & Management	IEM
14	Management Studies	Management	MAN
15	Mathematics & Computing	Mathematics	MAT
16	Mechanical Engineering	Mechanical Engineering	MEC
17	Mining Machinery Engineering	Mining Machinery Engineering	MME
18	Mining Engineering	Mining Engineering	MNE
19	Petroleum Engineering	Petroleum Engineering	PET
20	Physics	Physics	PHY
21	Humanities & Social Sciences	Philosophy	PLY
22	Humanities & Social Sciences	Psychology	PSY
23	Mathematics & Computing	Statistics	STA

## 2.3 Institute Assistance (IA)

The Institute may provide full-time Ph. D. students who have qualified GATE or any other eligible national level examination, financial assistance in the form of teaching or research assistantships (referred to as IA). IA will also be provided for IIT graduates having CGPA greater than or equal to 8.0 after Ph.D. admission. The Ph.D. students will be awarded the assistantships for a period of **five years** based on the performance every year. The assistantship is paid at the approved rates as specified by the MHRD, GOI, time to time. Full-time Ph.D. students, financially supported by research projects, may avail IA after completion of the project, provided that she/he has qualified GATE or any other eligible national level examination and have been admitted through the Institute selection process ([Section 3 of Ph.D. Manual](#)). The maximum duration of assistantship is five years (inclusive of Project and Institute funding) from the date of admission in the Ph.D. programme. Extension of assistantship shall not be given in any case, beyond five years.

IA will not be provided for:

- a) Full-time Ph.D. candidates having external fellowship from Govt. sources, namely, CSIR, UGC, DST, etc.
- b) Part-time Ph.D. candidates
- c) Sponsored/External Ph.D. candidates

A student should devote eight hours per week towards teaching/laboratory assistantship assigned to him/her. The renewal of assistantship is contingent on the recommendation of the Doctoral Scrutiny Committee (DSC) on the good performance of the candidate in the academic programme and the discharge of assistantship duties.

A contingency grant of INR 30,000.00 per annum is allowed with prior approval from the Guide and Head of the Department and the contingency is cumulative in nature. The work performance of the research scholars would be assessed as per the Institute rules. The IA may be withdrawn/withheld/discontinued at any time if the performance is unsatisfactory.

The selected candidates will get IA, as given in [Table 3](#).

**Table 3: Institute assistance**

Sl. No.	Qualifying Degree	IA per month (INR)	
		First 2 years	3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> year
1	M.Tech. / M.Phil. / MBA / B.Tech. / M.Sc. Tech / M.Sc. or equivalent	31,000.00	35,000.00*

**\*Subject to satisfactory progress.**

#### 2.4 External Fellowship from Government sources

The candidates having external fellowship from government sources, namely, CSIR, UGC, DST, are **ELIGIBLE** for Ph.D. programmes in the disciplines of various department. The selection procedure will be same for these candidates as mentioned in [Section 3.7](#). The fellowship to such candidates will only be disbursed after completing the necessary institutional procedures and the formalities mandated by the respective funding agencies, so that, their fellowship amount and contingency grant must get credited to the institute accounts in time for subsequent disbursement of fellowship to the scholars. The research fellowship and contingency grant will be same for the named fellowship and will be co-terminus with the tenure of the fellowship as defined by the respective funding agencies. Meanwhile, the registration for the Ph.D. programme may be continued as per the existing rules.

These students should also devote eight hours per week towards teaching/laboratory assistantship assigned to him/her. The renewal of assistantship is contingent on the recommendation of the Doctoral Scrutiny Committee (DSC) on the good performance of the candidate in the academic programme and the discharge of assistantship duties.

## 2.5 Rules and Regulations

The details are given on the academic webpage of the IIT(ISM) website ([https://www.iitism.ac.in/assets/uploads/news\\_events/admin/Ph.D-Manual.pdf](https://www.iitism.ac.in/assets/uploads/news_events/admin/Ph.D-Manual.pdf)). Selected candidates are required to adhere to the prescribed rules and regulations issued through various orders by the IIT(ISM) authorities from time to time. Besides, all Ph.D. students need to complete the Ph.D. course work, including two mandatory subjects, namely, Research Methodology & Statistics and Research & Technical Communication, as per the Ph.D. rules. Research scholars may avail admissible leave as per the [Section 7 of Ph.D. manual](#).

## 2.6 Programme Fee

The details of fees required at the time of **admission** for Ph.D. programmes are given in [Table 4](#). The fee should be paid online through **SBI-epay**/or any other means of online payment. The link for payment will be made available to the selected candidates before the admission. **Payment of fees will be accepted only in online mode (Netbanking/debit card, etc).**

**Table 4: Fee structure\***

Sl. No.	Particulars	Fee (INR)
1	Fee payable at the time of admission (UR/OBC)	29,700.00
2	Fee payable at the time of admission (SC/ST/PwD)	23,700.00
3	Hostel mess fee per semester (Approx.)	15,000.00

**\*Subject to change**

Also, payment of an additional amount towards accident insurance etc., as per actual, at the time of admission is required. The fee structure is subject to change from time to time. The exact fee structure will be notified at the time of admission.

## 3. ADMISSION

### 3.1 General Information

Interested candidates may submit their application **online ONLY**, between **05.04.2021 to 15.05.2021**. The following information is also available from the institutional website at <https://www.iitism.ac.in/index.php/Admission>:

- Advertisement for Ph.D. degree admission 2021-22
- Information brochure: with details of the application and important dates
- Link for online registration and application
- Any other notifications *viz.* change in important dates, details of the interview, admission, results, etc.

The last date for submission of online application is **15.05.2021**. The hard copy of the application form or any other document is **NOT** required to be submitted at the time of application. It is the responsibility of the candidate to follow the instructions given in the Ph.D. admission brochure and on the website carefully before submitting an online application. **Any mistake/wrong information provided during**

the online application, intentionally or unintentionally, will result in cancellation of the applicant's candidature. No further information/clarification will be intimated to the candidates in such cases. Extension of the deadline will **NOT** be allowed in any case.

### 3.2 Application Fee

The application fees for Ph.D. selection are given in [Table 5](#). The application fee is to be paid online only by the appropriate payment option given to the candidate while applying. The application fee will not be refunded under any circumstances. No communication will be entertained in this regard.

**Table 5: Application fee**

Sl. No.	Category	Fee (INR)
1	General/OBC/EWS	2,000.00
2	SC/ST/PwD/Female candidate	1,000.00

### 3.3 Admission Procedure

All candidates, wishing to be admitted to the Ph.D. programme in the Institute (irrespective of whether they opt for full-time, external, sponsored, or part-time Ph.D. programmes), may apply through this online admission procedure.

#### 3.3.1 GATE/NET/DST-Inspire/CAT/GMAT/PMRF candidates

A candidate, who has qualified GATE/NET/DST-Inspire/Prime Ministers Research Fellowship (PMRF)/Appropriate National Level Examination, is **ELIGIBLE** for Ph.D. admission **ONLY** in Engineering, Science, Management Studies and Humanities & Social Sciences. In the case of candidates who apply with GATE score, the validity of GATE score is not an essential criteria. A candidate who has qualified CAT/GMAT is eligible for Ph.D. in Management.

#### 3.3.2 IIT graduates (CGPA of 8.0 or above)

IIT graduates (Masters and/or Bachelors degree holders) having a CGPA/OGPA of 8.0 or above are also eligible for Ph.D. admission at IIT(ISM) Dhanbad. For Masters and/or Bachelors degree holders from IITs only having a CGPA of 8.0 or above, the requirement of GATE/NET is waived off.

#### 3.3.3 Project candidates

This admission procedure also applies to candidates holding positions in externally/internally funded projects executing in various department at the Institute for availing IA beyond the project tenure. In such cases, the candidate must give the details in the online application portal, such as, the current position, admission number availed, project title, name of the project investigator (PI), department, date of joining, date of completion of the project.



### 3.3.4 Steps of admission process

The admission procedure consists of (i) shortlisting and (ii) interview. Appropriate shortlisting criteria will be adopted by the department for the shortlisting of applications received against the Ph.D. admission 2021-22. This includes fixing appropriate cut-off (a) GATE/CAT score and/or (b) CGPA/OGPA/percentage in the qualifying degree which will be decided by the respective department.

The interview of the shortlisted candidates will be conducted between **28.06.2021 to 02.07.2021**.

**Candidates must ensure their eligibility to the Ph.D. programme in various disciplines of the respective department from the [Table 6](#) before filling the online application form.**

### 3.4 Eligibility Criteria for admission

For admission to Ph.D. programmes of different disciplines, an applicant possessing qualifications mentioned against the subjects mentioned in [Table 6](#) are eligible to apply:

Candidates in the final year of the qualifying degree may be considered for provisional admission, provided that they give an undertaking that the results will be made available to the Institute on or before the date of admission (**12.08.2021**). The provisional admission of such candidates will stand canceled if they fail to produce the result by the specified date or fail to obtain the required class/division or CGPA/% of marks.

It is the responsibility of the candidate, to ensure that he/she satisfies all eligibility criteria for a particular programme, as mentioned in this information brochure, and submit complete and correct information in the Institute admission portal accordingly.

#### 3.4.1 Essential criteria for Ph.D. in Engineering

- An applicant must have a Masters degree in Engineering in the relevant subject with first class/division or a minimum of 60% marks/CGPA of 6.0 (on a 10 point scale),
- OR**
- An applicant must have a Bachelors degree in Engineering with a minimum of 70% marks/CGPA of 7.0 (on a 10 point scale),
- OR**
- An applicant must have a Masters degree in Science or an allied area with first-class/division or a minimum of 60% marks/CGPA of 6.0 (on a 10 point scale).

#### 3.4.2 Essential criteria for Ph.D. in Science

- An applicant must have a Masters degree in the relevant subject with first class/division or a minimum of 60 % marks/CGPA of 6.0 (on a 10-point scale),
- OR**
- An applicant must have a Bachelors degree in Engineering with a minimum of 70% marks/CGPA of 7.0 (on a 10 point scale),
- OR**
- An applicant must have a Masters degree in Science or an allied area with first-class/division or a minimum of 60% marks/CGPA of 6.0 (on a 10 point scale).

**3.4.3 Essential criteria for Ph.D. in Humanities and Social Sciences**

- An applicant must have a Masters degree in the relevant subject, Arts, Commerce, Humanities and Social Sciences with first class/division or a minimum of 60% marks/CGPA of 6.0 (on a 10 point scale),

**OR**

- An applicant must have a Bachelors degree in Engineering with a minimum of 70% marks/CGPA of 7.0 (on a 10 point scale).

**OR**

- An applicant must have a Masters degree in Engineering / Technology/Science/ Commerce / Management with first class/division or a minimum of 60 % marks/CGPA of 6.0 (on a 10 point scale),

**3.4.4 Essential criteria for Ph.D. in Management**

- An applicant must have a Masters degree or equivalent in Management or allied areas or Engineering / Technology with first class/division or a minimum of 60% marks/CGPA of 6.0 (on a 10 point scale),

**OR**

- An applicant with a Bachelors degree in Engineering with a minimum of 70% marks/7.0 CGPA,

**OR**

- An applicant must have a Masters degree in Science/Arts/Commerce with first-class/division or a minimum of 60% marks/CGPA of 6.0 (on a 10 point scale),

**OR**

- An applicant who has qualified for CA/ICAI/ICMA/CS, with first-class/division or a minimum of 60% marks/CGPA of 6.0 (on a 10 point scale) in Bachelors degree.

**Note: Bachelors degree in Engineering means regular fulltime Bachelors degree. A candidate with AMIE or similar degree is not eligible for admission.**

**3.4.5 Language proficiency**

The medium of instruction, the publication of research paper, and reporting will be in English. Therefore, scholars are required to possess adequate knowledge of English.

**3.4.6 Age**

Age limit for various categories as on **the last date of online application (15.05.2021)** are:

- ❖ For male candidate (General/EWS category) : 30 years
- ❖ For male candidates Other categories (OBC, PwD, SC & ST) : 35 years
- ❖ For female candidates (All categories) : 35 years

Age relaxation, as above, will be allowed for candidates with valid documents. The original documents will be scrutinized before the interview, and, if found incorrect/insufficient, the candidature will be canceled.

**3.4.7 Special cases**

- Colour blind candidates are not eligible for admission in **Applied Geology, Mining Engineering and Petroleum Engineering** disciplines.
- Physically challenged candidates with any form of the physical challenge will **NOT** be considered for **Mining Engineering and Petroleum Engineering** disciplines.

### 3.4.8 Qualifying degree

- ❖ The disciplines for Ph.D. admission are given in [Table 2](#).
- ❖ The candidates' qualifying degree and subject should match with the discipline, degree, and specialization detailed in [Table 6](#).
- ❖ For all disciplines, applicants with B. Tech. degree from IITs with minimum CGPA/OGPA 8.0, are eligible to apply. The concerned department will shortlist such undergraduate candidates for interview by adopting appropriate shortlisting criteria.
- ❖ Candidates appearing for their final semester exams are **ELIGIBLE** to apply under Result Awaiting (RA) category.

**Table 6: Eligibility and Qualifying degree for various departments' #**

Sl	Department	Discipline	Code
1	<b>Applied Geology</b>	<b>Applied Geology</b>	<b>AGL</b>
	M.Sc./M.Sc. Tech in Geology / Applied Geology or M.Sc./M.Sc. Tech. in Geology/Applied Geology with specialisation in Marine Geology / Oceanography / Hydrogeology / Geochemistry/ Applied Geochemistry / Environmental Science / Geoinformatics / Natural Hazards & Disaster Risk Management / Remote Sensing and GIS / Geophysics / Petroleum Geosciences. <b>OR</b> Integrated M.Sc.Tech/M.Tech. in Geology/Applied Geology or M. Tech. in Geological Technology. <b>OR</b> M.Tech in Mineral Exploration/Engineering Geology/Petroleum Exploration/Geo-exploration/ Exploration Geosciences / Remote Sensing / Remote Sensing and GIS applications / Geoinformatics/ Petroleum Geosciences/ Marine Geosciences having M.Sc./M.Sc. Tech in Geology/Applied Geology or Integrated M.Sc. Tech./ M.Tech. in Geology/Applied Geology or M. Tech. in Geological Technology. <b>OR</b> B. Tech/M. Tech in Mining Engg/Mineral Engg./Civil Engg.		
2	<b>Applied Geophysics</b>	<b>Applied Geophysics</b>	<b>AGP</b>
	M.Sc./M.Sc. Tech/Integrated M. Sc. Tech./ Integrated M. Tech. in Applied Geophysics/ Exploration Geophysics/ Geophysics, M.Sc./M.Sc. Tech in Marine Geophysics, M.Tech in Geophysical Technology/Petroleum Exploration/Geoexploration/Earthquake Disaster, Hazards and Mitigation (EHM)/ Earthquake Science & Engineering.		
3	<b>Chemical Engg</b>	<b>Chemical Engg</b>	<b>CHE</b>
	M.Tech or equivalent in Chemical Engineering or its related discipline <b>WITH B Tech/B.E</b> in Chemical Engineering.		
4	<b>Chemistry</b>	<b>Chemistry</b>	<b>CHY</b>
	M.Tech. / M.Phil. / M.Sc. or equivalent in Chemistry / Applied Chemistry / Industrial Chemistry.		
5	<b>Computer Science &amp; Engg.</b>	<b>Computer Science &amp; Engg.</b>	<b>CSE</b>
	M.Tech or equivalent in Computer Science & Engg. / Information Technology / Computer Application / Software Engineering / Electronics Engg. / Electronics and Communication Engg. / Electrical Engg. <b>WITH B. Tech.</b> or equivalent in Computer Science & Engg. / Information Technology / Electronics Engg. / Electronics and Communication Engg. / Electrical Engg.		
6	<b>Civil Engg.</b>	<b>Civil Engg.</b>	<b>CVL</b>
	M.Tech. / M.E. in Civil Engg. with B.Tech. / B.E. in Civil Engg./ Env. Engg. having specialization in their M.Tech./M.E. as Structural/ Geotechnical/ Water Resources/ Environmental/ Transportation Engg/ Remote Sensing & GIS/ Env. Sci. & Engg.		
7	<b>Electronics Engg.</b>	<b>Electronics Engg.</b>	<b>ECE</b>

	M. Tech. / M.E. / MS in Electronics/Electronics & Communication/ Electronics & Tele-communication/ Electronics & Instrumentation/ Instrumentation/ Instrumentation & control/ Electronics & Electrical Engineering/ Computer Science Engg/ Information Technology or related field <b>WITH</b> B. Tech./B.E. or equivalent degree in Electronics / Electronics & Communication /Electronics & Tele-communication / Electronics & Instrumentation/ Instrumentation/ Instrumentation & control/ Electronics & Electrical Engineering/ Computer Science Engg/ Information Technology		
8	<b>Electrical Engg.</b>	<b>Electrical Engg.</b>	<b>ELE</b>
	M.Tech. or equivalent in Electrical Engg. / Control System Engg. / Power System Engg. / Electrical Machines / Power Electronics and Drives / High Voltage Engg. / Instrumentation Engg. / Power Apparatus & Devices / Electronics <b>WITH</b> B.Tech or equivalent in Electrical/Electrical & Electronics Engg.		
9	<b>Humanities &amp; Social Sciences</b>	<b>English Language/Literature</b>	<b>ENG</b>
	M.A. / M.Sc. / M.Litt. / M.Phil. or equivalent in English Language & Literature / Applied Linguistics & Language Teaching / English Language Teaching.		
10	<b>Environmental Science &amp; Engg.</b>	<b>Environmental Science</b>	<b>ENS</b>
	M.Phil. / M.Sc. / M.Sc. Tech. or equivalent in Atmospheric science/ Botany / Microbiology / Biotechnology / Chemistry / Physics / Environmental Science / Environmental Science & Management / Geology / Hydrology / Soil Science / Remote sensing and GIS / Forestry.		
11	<b>Environmental Science &amp; Engg.</b>	<b>Environmental Science &amp; Engg.</b>	<b>ESE</b>
	M.Tech. / M.E. or equivalent in Environmental Science & Engineering / Biotechnology / Civil / Chemical / Water Resource Engg / Mining / Atmospheric Science.		
12	<b>Fuel, Mineral &amp; Metallurgical Engg.</b>	<b>Fuel, Mineral &amp; Metallurgical Engg.</b>	<b>FMM</b>
	M.Tech. or equivalent in Mineral / Fuel / Chemical / Environmental/Ceramic/ Energy/Metallurgical/Mining Engg or its related discipline with B.Tech or equivalent in Mineral / Chemical / Environmental/ Ceramic/Energy/Metallurgical/Mining Engg or its related discipline. <b>OR</b> M.Tech. or equivalent in Mineral / Fuel / Chemical / Environmental/ Energy/ Metallurgical/Mining Engg or its related discipline <b>WITH</b> B.Tech or equivalent in Mineral / Chemical / Environmental/ Energy/ Metallurgical/ Mining Engg or its related discipline.		
13	<b>Management Studies</b>	<b>Industrial Engg. &amp; Management</b>	<b>IEM</b>
	Postgraduate Degree in Industrial Engg. and Management / Industrial Engg. / Production Engineering / Mechanical Engg/Electrical Engg/Civil Engg or equivalent.		
14	<b>Management Studies</b>	<b>Management</b>	<b>MAN</b>
	MBA Degree / Postgraduate Degree or Diploma recognized as equivalent to Postgraduate in Management by AICTE / UGC / AIU / Postgraduate Degree in Economics / Commerce / Psychology / Professional qualifications like CA / CS / ICWA / Postgraduate Degree in Industrial Engg. and Management / Industrial Management / Industrial Engg. / Production Engg.		
15	<b>Mathematics &amp; Computing</b>	<b>Mathematics</b>	<b>MAT</b>
	M.Phil/ M. Tech. / M.Sc. or equivalent in Mathematics/ Applied Mathematics/ Mathematics & Computing/ Operations Research/ Software Engineering/ Computational Fluid Dynamics.		
16	<b>Mechanical Engg.</b>	<b>Mechanical Engineering</b>	<b>MEC</b>
	M.Tech. or equivalent degree with specialization in Mechanical /Production / Manufacturing / Industrial Production / CAD/CAM / Machine Design / Mechatronics / Thermal / Heat Power / Energy / Power Plant Engg / Automobile / Maintenance Engg./ Tribology/Welding Technology/Mechanical Science/Hydro and renewal Energy/Renewal Energy/Energy Environment and Management/ Applied Mechanics/Engineering Mechanics/Stress and Vibration Analysis/Aerospace Engineering/Robotics/Nano Technology/Fluid power and Control/Mechanical Engg with Thermal/Fluid Mechanics as major or in Aerospace Engineering with aerodynamics as Major or in Civil Engineering with Fluid Mechanics/Hydraulics as Major/MME or any combinations of these specializations. <b>WITH</b> B. E. / B.Tech./B.Sc. in Engineering or equivalent degree in Mechanical / Production / Manufacturing / Aerospace / Energy Engineering/MME/Power Plant Engineering/Automobile Engineering/Mechanical Science		
17	<b>Mining Machinery Engg.</b>	<b>Mining Machinery Engineering</b>	<b>MME*</b>
	M.Tech/ME/MSc Engg. in Mining Machinery Engg./Mechanical Engg/ Mining Engg./ Maintenance Engg & Tribology/ Machine Design/ CAD-CAM/ Material Science/Automobile Engg./ Applied Mechanics/ Electrical Engg./Mine Electrical Engg/ Power Electronics/ Power System Engg./ Electrical Machines/ Instrumentation <b>WITH</b> BE/ B.Tech/ B.Sc Engg. in Mining Machinery Engg./ Mechanical Engg./ Electrical Engg./Mining Engg;		

18	<b>Mining Engg.</b>	<b>Mining Engineering</b>	<b>MNE</b>
	M.Tech. or equivalent in Mining Engg. / Opencast Mining / Mine Planning & Design / Rock Excavation Engg. / Geomatics / Underground Space Technology / Rock Mechanics/Civil Engg. / Engineering Geology; <b>OR</b> B.Tech or equivalent in Mining Engg. / Civil Engg. / Opencast Mining/Mining Machinery/Environmental Engg; M.Sc. Tech. (Applied Geology); M.Sc. (Geospatial Science).		
19	<b>Petroleum Engg.</b>	<b>Petroleum Engineering</b>	<b>PET</b>
	M. Tech. in Petroleum, Chemical, Petroleum & Petrochemical, Mechanical, Civil, Computer Science & Engineering and M.Sc. in Chemistry, Mathematics, Geology and Geophysics and B. Tech. in Petroleum Engineering\$		
20	<b>Physics</b>	<b>Physics</b>	<b>PHY</b>
	M.Sc./Integrated M.Sc./M.Phil or equivalent in Physics/Applied Physics or B.Tech./M.Tech./Integrated M.Tech. or equivalent in Engineering Physics/Material Science/Nanoscience and Technology/Optoelectronics or equivalent.		
21	<b>Humanities &amp; Social Sciences</b>	<b>Philosophy</b>	<b>PLY</b>
	M.A. / M.Sc. / M.Com / MBA or equivalent degree or Master's in Engg. / Technology or equivalent degree or M.A. / M.Phil. in Philosophy or equivalent.		
22	<b>Humanities &amp; Social Sciences</b>	<b>Psychology</b>	<b>PSY</b>
	M.A. / M.Sc. / M. Com / MBA or equivalent degree or Master's in Engg. / Technology or equivalent degree or M.A. / M.Phil. in Clinical/Counselling/Rehabilitation Psychology or equivalent		
23	<b>Mathematics &amp; Computing</b>	<b>Statistics</b>	<b>STA</b>
	M.Phil/M.Sc. or equivalent in Statistics/ Applied Statistics/ Statistics/ Statistics & Computing/ Statistics & Operations Research.		

*# Equivalence degrees for B.Tech will be BE/BSc Engg. (4 years) and for M.Tech will be ME/M.Sc. Engg.*

*\* Applicants from MEC/ELE can opt for MME for interdisciplinary research at the time of interview.*

*\$ An OGPA should be  $\geq 8.0$  is required for applicants having B. Tech. Petroleum Engg from institutes other than IITs.*

### 3.5 Reservation Policy

**Table 7: Categories**

Sl. No.	Code	Category
1.	GE	General
2.	PwD	Persons with disabilities
3.	OBC	Other Backward Class - Non-Creamy Layer
4.	SC	Scheduled Caste
5.	ST	Scheduled Tribe
6.	EWS	Economically Weaker Section (General)

- Reservation for EWS/ PwD /OBC/SC/ST candidates will be as per GOI directive/guidelines.
- There shall be a horizontal reservation of 5% of the sanctioned strength, across all categories, for applicants belonging to persons with disabilities (PwD).
- For Other Backward Class - Non-Creamy Layer (OBC) candidates:
  - 1) Certificate in the Central government format
  - 2) Certificate issued for admission/position to state governments will not be considered.
  - 3) The certificate should be issued **on or after 12<sup>th</sup> August 2020**.
  - 4) The original certificate should be produced at the time of the physical interview and physical admission.
  - 5) Candidates **NOT** having valid OBC-Non-Creamy Layer certificate will not be considered for Interview or admission for the Ph.D. programme.
- Candidates selected for interview should submit appropriate self-attested PwD /OBC/SC/ST/EWS category documents (central government format) in support of their claim

along with a hard copy of their application or registration form at the time of the interview. Application forms without self-attested supporting documents will not be considered.

### 3.6 Medical Fitness

A candidate selected for the Ph.D. programme will be offered admission, only if she/he is found fit as per the norms and standards of medical fitness set by IIT(ISM). An overview of the standards of medical fitness set by IIT(ISM) is presented below.

#### 3.6.1 General requirements

The selected candidates shall submit the medical certificate in the prescribed proforma at the time of admission which will be intimated to the candidates. However, candidates may be further examined by a medical board set by IIT(ISM) before the admission, whose decision for medical fitness will be final. A candidate should have good general physique with:

- Chest measurement: Not less than 70 cms with a satisfactory limit of expansion and contraction.
- Vision: Should be normal. In the case of defective vision, it should be corrected to 6/9 in both eyes or 6/6 in the better eye.
- Hearing: Should be normal. A defective hearing should be corrected.
- Heart & Lungs: Should not have any abnormality and
- No history of mental diseases or epileptic fits.

Besides the above, some special restrictions apply for the following disciplines:

- Colour blind candidates are not eligible for admission in (i) Applied Geology, (ii) Mining Engineering and (iii) Petroleum Engineering disciplines ([See Section 3.4.7](#)).
- Physically challenged candidates with any form of physical disability is not considered for (i) Mining Engineering and (ii) Petroleum Engineering disciplines ([See Section 3.4.7](#)).

### 3.7 Application Procedure

#### 3.7.1 Registration and online application

Interested candidates should register their name using valid email id and phone number and submit their application online from **05.04.2021 to 15.05.2021**. Details on the application along with information brochure containing eligibility criteria can be downloaded from the IIT(ISM) website <https://www.iitism.ac.in/index.php/Admission> from **05.04.2021** onwards. Application fee of Rs. **2000/-** (Rs. **1000/-** for SC/ST/PwD/Female candidates) for the Ph.D. selection is to be paid online, by the available mode of payment supported. The candidates will be guided through the application process during registration and online application. It is advised to read the on-screen instructions very carefully while filling online application. The candidates are advised to take utmost care while filling and **NOT** to give any false information or conceal any information. If the claim by the candidate is found **WRONG** at any stage of the Ph.D. selection process, their candidature stands canceled, and no communication will be made in this regard. Candidates will be responsible for any mistake that occurred during the filling and consequent submission of online application. For any other queries, please feel free to contact the Ph.D. Admission office through [jrf@iitism.ac.in](mailto:jrf@iitism.ac.in).

### 3.7.2 Submission of hard copy of application form

Hardcopy of the completed application is **NOT** required to be submitted. However, candidates must download the softcopy of the application after the successful submission in the online application portal and should submit the hardcopy of the application form along with self-attested testimonials at the time of the physical appearance for interview/admission, whichever is earlier.

### 3.7.3 Selection process

The selection depends on the number of vacancies and performance of the candidate. The department may adopt an appropriate criteria for shortlisting the candidates applied for the Ph.D. programme in the respective discipline. The interview will be conducted for all the shortlisted candidates for the selection to the Ph.D. programme. The list of shortlisted candidates for the interview will be displayed in IIT(ISM) website as per [Table 2.1](#). The medium of examination will be English.

**The selection committee of the respective department approved by the competent authority will interview the shortlisted candidates, and marks will be awarded based on the performance of the candidate in the INTERVIEW ONLY. The merit list will be prepared from the above list by applying the reservation policy (as mentioned in [Section 3.5](#)).**

### 3.7.4 Physical Interview procedure

All candidates shortlisted for the interview have to appear for personal interview on the scheduled date (**28.06.2021 and 02.07.2021**) at IIT(ISM), Dhanbad. No separate communication will be sent to these candidates. The shortlisted candidates are required to bring all the necessary documents, especially the following while coming for the interview:

- a. A print out of your **REGISTRATION SLIP** duly self-attested (downloaded online application form).
- b. One self-attested copy of all the supporting documents.
- c. All necessary documents **IN ORIGINAL** in support of their claim as given in the application form, especially the ones mentioned below:
  - i. Age proof.
  - ii. Educational qualifications.
  - iii. Eligibility of qualifying examination.
  - iv. Proof of **FIRST CLASS**/the minimum prescribed percentage or grade point average as stipulated in [Section 3.4](#).
  - v. Proof for category [EWS/OBC/SC/ST/PwD].
  - vi. Valid OBC certificate by the competent authority in the format as per the Central Educational Institutions (CEIs) under GOI given in Annexure I of Information Brochure for Ph.D. Admission 2021-22, issued on or after **12<sup>th</sup> August, 2020**.
  - vii. For PwD candidates, proof of the same along with certificate of their respective category.
  - viii. GATE certificate
  - ix. NET certificate for NET candidates.

Only the shortlisted candidates will be interviewed if they are eligible after the verification of their original documents. Those who do not possess required documents during scrutiny will not be interviewed, and their candidature stands canceled. No further communication will be sent to the

candidate. No TA/DA will be provided for the candidates appearing for the interview. Candidates have to make their own arrangements to attend the interview in the scheduled date and time.

Additional instructions, if any, will be published in the institute website (<https://www.iitism.ac.in/index.php/Admission>) and candidates are requested to visit the link, as and when required.

### 3.7.5 Final admission

All admissions to the Ph.D. programme will be made from the consolidated merit list on the approval of the Chairman, Senate on the recommendations of the Departmental Post Graduate Committee (DPGC) and the Admission Committee. On approval by the Chairman, Senate, the Academic Section will issue the admission letters to the candidates who will be required to accept the offer of admission by depositing the prescribed fee on or before the specified date.

In case, a candidate does not accept the offer by paying the prescribed fee by the specified date, the offer of admission will stand withdrawn, and the admission may be offered to the candidates in the waiting list, if any, in order of merit. The offer of admission may also stand withdrawn if the candidate, who has accepted the offer, fails to register by the date for late registration.

All such provisionally selected candidates will be invited to take admission on a scheduled date (**12.08.2021**) at the time and venue mentioned in the offer letter. The original documents will be scrutinized again before physical admission. Selected candidates are required to bring all the **ORIGINAL** documents, including the final grade sheet, while coming for admission on the said date. No extension will be given under any circumstances. All research scholars will be governed by the IIT(ISM)'s [Ph. D. Manual](#) prevailing at that time

### 3.7.6 Withdrawal and Refund of Admission fee

After the admission/provisional admission, a candidate may withdraw his/her admission. Withdrawal may be requested to DR (Exam & Acad) at [dr\\_acad@iitism.ac.in](mailto:dr_acad@iitism.ac.in) by e-mail and will be processed by academic section.

The refund rules for the Ph.D. admission is also followed in conformity with the UGC guidelines issued in October 2018 as per the directive received from the MHRD. Following are the details of refund amount to be provided at different points in time as approved by competent authority.

Sl. No.	Percentage of Refund of fees*	Point of time when the notice of withdrawal of admission is received in the institute
1	100% (after deducting 5% of the fee paid, subject to a maximum of Rs. 5000/-, as processing charge).	15 days or more before the formally notified last date of admission
2	90 %	Less than 15 days before the formally notified last date of admission
3	80 %	15 days of less after the formally notified last date of admission.



4	50 %	30 days or less, but more than 15 days after the formally notified last date of admission.
5	Zero %	More than 30 days after the formally notified last date of admission

\*Caution money and security deposit, which are not part of the fees chargeable, shall be refunded in full.

After the commencement of classes for the semester, fees will not be refunded except the applicable caution money, and security deposit.

## **4. DISCLAIMER**

The website mentioned in this document has been launched to provide the candidates and public-at-large, information about the IIT(ISM) Ph. D. Admission. If you do not agree to the terms and conditions below, kindly do not access this site or any pages thereof.

### **4.1 Terms and Conditions**

#### **4.1.1 No warranty**

The information and materials contained in the site, including text, graphics, links or other items - are provided on an "As Is" and "As Available" basis. Although Ph.D. Admission Committee which organizes and conducts the examination, interview, and admission to the Ph.D. programme tries to provide information accurately, it disclaims liability for errors or omissions in this information and materials.

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#### **4.1.2 Limitation of liability**

In no event, IIT(ISM) will be liable for any damages, including without limitation, direct or indirect, special, incidental, or consequential damages, losses, or expenses arising in connection with this site or use thereof or inability to use by any person, or in connection with any failure of performance, error, omission, interruption, defect, delay of operation or transmission, computer virus or line or system failure, even if IIT(ISM), or representative thereof, are advised of the possibility of such damages, losses or expenses.

#### **4.1.3 Network services**

The Ph.D. Admission committee cannot be held responsible for reduced access speeds due to bandwidth overloads, especially close to the application submission date.

## **5. JURISDICTION**

In case any claim or dispute arises in respect of Ph.D. Admission, it is now made clear that the Courts in Dhanbad and Dhanbad alone shall have the exclusive jurisdiction to entertain and settle any such dispute or claim.