

INFORMATION BROCHURE

for

Admission to

5 Year (10 Semester) Full-Time
Integrated M.Sc. Programme in Chemistry

2022-23

at

Birla Institute of Technology, Mesra



BIRLA INSTITUTE OF TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act 1956)

MESRA RANCHI – 835215

(Jharkhand)

Website: www.bitmesra.ac.in

Contact details

Campus	Addresses and contact details
Mesra	Dean Admission & Accreditation Coordination OR Controller of Admissions OR Deputy Registrar (Admission & Accreditation Coordination) Birla Institute of Technology Mesra, Ranchi - 835215 Toll-Free:18003457057, 18003457058 Phone: PBX: 0651-2275444 / 896 / 2276496, Extn 4469, & 2275868 (Direct) E-mail: daac@bitmesra.ac.in , coa@bitmesra.ac.in , dr.aac@bitmesra.ac.in , admissions@bitmesra.ac.in

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IMPORTANT DATES

Filling of online form commences from	22.05.2022
Last date for Applying Online	14.06.2022
Online MCQ Entrance Test	26.06.2022
Declaration of FIRST shortlisted candidates for Documents Verification cum Admission	04.05.2022
Classes will commence from 2 nd week of August 2022 [Exact date will be announced at later stage]	

Note:

- All the dates mentioned above are tentative, and liable to be changed. Hence, please check Institute website periodically.
- Please fill and submit the application online only, take printout of the same and retain with you as the same will have to produce during physical verification of documents.

Sec 1. An Introduction and How to Apply

This Information Brochure covers admissions to full-time 5-year (10-semester) Integrated M.Sc. in Chemistry Programme at Mesra Campus, which will commence in August 2022.

How to Apply:

1. To fill online application form, click on the link “APPLY ONLINE” to register and create password for the application process. Do not share the password with anybody. [Please see instructions for filling online application form.](#)
2. Eligible candidates must complete and submit the application form online only [link available on the Institute website www.bitmesra.ac.in]. Pay application fee of Rs.1,500/- (General / OBC candidates) and Rs.1,000/- (SC/ST candidates) through ICICI Payment Gateway (net banking / debit / credit card of any nationalized bank) in favour of “Birla Institute of Technology” till the last date of application process. [Fee once remitted shall not be refunded under any circumstances.](#)
3. Use separate application form, in case applying for more than one Programme and pay additional application fee. Use different mobile number and email id for each application form.

Important Instructions:

1. Candidates should proceed to fill the Online Application Form only after they satisfy themselves that they fulfill all the eligibility criteria.
2. Candidate must have adequate proficiency in written & spoken English to cope with the Programme as all instruction and examinations will be in English only.
3. Please fill and submit the application online only, take printout of the same and retain with you as the same will have to produce during physical verification of documents.

Form / Application Numbers:

The Form / Application numbers on each online application form may be noted and cited in correspondence if required. [_No individual intimation will be sent to candidates.](#)

Sec 2. Eligibility Criteria

Programme	Eligibility criteria
Integrated M.Sc. in Chemistry	Pass in Class 12 / equivalent examination with English, Physics, Chemistry, Mathematics / Biology and having at least 60% (50% for SC/ST/PwD) marks in average of 4 subjects - English, Physics, Chemistry, Mathematics / Biology

Appearing students of Class XII may also apply.

Notes:

- Only those candidates whose date of birth falls on or after 1 October 1997 in case of General category and 1 October 1992 in case of SC/ST/PwD are eligible for admission. Date of Birth as recorded in the Secondary Education Board Class X (High School) certificate only will be considered as authentic.
- Candidates with foreign diplomas should see the EdCIL website for equivalence (<http://www.edcil.co.in>), and if required should obtain an equivalence certificate from the evaluation division of the AIU (website <http://www.aiuweb.org>).
- In case any Board awards grades instead of marks, the calculation of equivalent marks would be based on the procedure prescribed by the Board.
- At the time of document verification, candidates will be required to produce originals of Pass Certificate of Class X, Marksheets of Class X and Class XII showing requisite minimum marks, as well as Caste or Special Category certificates in proper format signed by appropriate authority (please see instructions).
- At any level of the studies [Class X or Class XII], a candidate / applicant must have passed all the required subjects at that level from the same Board.

Sec 3: List of documents to carry at the time of reporting for Physical verification of documents

1. One recent colour photograph [same as uploaded on the form]
2. Original of the following documents / certificates: Candidates must carry the originals of the following documents along with one set of photocopies at the time of reporting for physical verification of documents:
 - a) Pass certificate of Class X (for age proof)
 - b) Marksheet of Class X
 - c) Marksheet of Class XII / Intermediate or equivalent
 - d) School Leaving Certificate
 - e) Migration Certificate
 - f) Caste certificate (if applicable), which **should be in proper format and signed by appropriate authority of rank not less than SDO.**
 - g) Candidates belonging to other special categories (Persons with Disability [PwD] / Kashmiri Migrant) must provide photocopy of certificate in proper format from appropriate authority.
 - h) Photo identification: (Driving license, Passport, PAN Card, Voter ID, Aadhaar Card, School / College ID, are acceptable)

Sec 4: Selection Procedure

- **Online MCQ Entrance Test.** However, candidates must meet the age criteria and other minimum academic requirements (see Eligibility Criteria).
- The provisional selection list will be published on the Institute website only.

Cancellation of Admission Offer:

- The admission of a candidate will be automatically cancelled
 - (a) if any information provided in the application form is found incorrect or missing.
 - (b) those who fail to submit the marksheet of Class XII or equivalent qualifying examination in time as stipulated.

Note: *Eligible SC/ST, OBC, PwD students admitted to above Programme at the Campus should submit their scholarship form in the Scholarship Section of the Campus for the academic year by February for processing scholarship to SC/ST, OBC, PwD students each year, as per UGC guidelines.*

Sec 5. Total number of Seats, Reservations and Distribution of seats

The number of seats to be offered in 2022 for the following Programme, as given below:

Programme	No. of seats to be offered
Integrated M.Sc. in Chemistry	30

Reservations:

1. For all Programme at the Institute which are supported by the State Governments, the reservation criteria for the state quota are as per the norms of the State Government.
2. For all other Programme the reservation criteria for SC & ST are as per the statutory norms of Central Govt. (SC -15% & ST - 7.5%)
3. The Institute observes statutory reservation for Persons with Disability (5%).
4. Upto 1 seat may be allotted to candidates who are Sons or Daughters of Kashmiri Migrant who otherwise have qualified for admissions.
5. 50% of the total seats are reserved for candidates who have passed their qualifying examination (Class 12) from Jharkhand State. (The "State of Eligibility" of a candidate for the purpose will be determined based on location of his/her School / College where she/he has passed the qualifying examination (Class 12).

[In case sufficient numbers of suitable candidates from any group are not available, the Institute reserves the right to fill the seats from the other group].

However, the final reservation proportion will depend on notification, if any, issued by competent authority and as accepted by the Institute.

Notes:

1. The Institute reserves the right to lower the intake in a Programme without showing any reason.
2. The Institute also reserves the right not to offer a particular Programme in case the number of students found to be eligible / admitted is less than 30% in number.
3. Please see our website <http://www.bitmesra.ac.in>. for course syllabus / any other matters related to admission procedures.

Examples for selecting the name of State while filling the application form:

	State of Eligibility
Qualifying examination (Class XII) from Jharkhand	Jharkhand
Qualifying examination (Class XII) from Rajasthan	Rajasthan
Qualifying examination (Class XII) from West Bengal	West Bengal
Qualifying examination (Class XII) from Uttar Pradesh	Uttar Pradesh
Qualifying examination (Class XII) from Delhi	Delhi

Sec 6. Fee Structure

Fees payable [in INR] for the full-time Integrated M.Sc. Programme for the 2022 Batch

Fee payable at the time of admission and in each subsequent semester

Particulars	1 st Sem	2 nd Sem	3 rd Sem	4 th Sem	5 th Sem	6 th Sem	7 th Sem	8 th Sem	9 th Sem	10 th Sem
Tuition Fee	47500	47500	52000	52000	58000	58000	64000	64000	71000	71000
Development Fee	4000	4000	4500	4500	4500	4500	5000	5000	6000	6000
Institute Exam Fee	6500	6500	7000	7000	7500	7500	8000	8000	8500	8500
Total	58000	58000	63500	63500	70000	70000	77000	77000	85500	85500
Hostel Seat Rent*, Electricity and Transport etc.	19000	19000	21000	21000	23000	23000	25000	25000	27000	27000
Grand Total	77000	77000	84500	84500	93000	93000	102000	102000	112500	112500

* Hostel fees are subject to revision in future

Additional amount to be paid at the time of admission: (i) Admission Fee (One time only) =Rs. 17,500.00 and (ii) Caution Money (One time only-Refundable)=Rs. 10,000.00	Total Rs.27,500.00
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Notes:

- Hostel mess charges will range from approximately Rs.2,500/- to Rs.3,000/- per month. In addition to the above, students will be required to deposit Hostel Caution Money* (One Time only - Refundable) of Rs.5,000/- and also to pay suitable mess advance at the beginning of each semester, which will be adjusted against their mess charges. For the session July 2022, this mess advance* will be Rs.20,000/- [total of Rs. 25,000/-]
*Hostel Caution Money (One Time only - Refundable) and Hostel Mess Advance (each semester) are payable through SBI Collect in favour of "BIT Welfare Society".
- All payments must be made online using ICICI Payment Gateway through debit / credit card and net banking of any nationalized bank.
- Students will be expected to provide themselves with stationery and textbooks, etc, as prescribed for different subjects.
- The Institute reserves the right to revise the fees and other charges at any stage.
- For rules regarding refund of fees on withdrawal, please see separate Notice on Notice Boards.

Sec 7 Profiles of the Departments

Department of Chemistry

Department of Chemistry was established in 1955, offers undergraduate, postgraduate & Ph.D. Programme in chemistry. The Department has received support under “Fund for Improvement in Science & Technology Infrastructure” (FIST-2012) Programme of the Department of Science and Technology, New Delhi for NMR and Computational Chemistry facility. The Department is actively involved in promoting environmental awareness amongst the tribal and rural population in Jharkhand. The Department is committed to high quality research Programme supported by UGC, DBT, CSIR, AICTE, UNICEF and World Bank in major thrust areas like Fuels & Energy, Nonlinear Chemical Dynamics, Frontal Polymerization, Electrochemical Machining, Organic and Molecular Synthesis, Environmental controls and monitoring, Nanotechnology and Computational Chemistry.

Programme Offered	Course Duration	Sanctioned Intake
M.Sc. in Chemistry	2 Year (4-Semesters)	15
Integrated M.Sc. in Chemistry	5 years (10- Semesters)	30
Ph.D. Programme		

Vision of the Department:

To become a recognized centre of excellence for teaching, research and innovations and make significant contribution for producing academic professionals and entrepreneurs in frontier area of chemical sciences.

Mission of the Department:

- To impart quality education and fundamental concepts of chemical sciences to students & scholars through our state of art laboratory, teaching and research facilities
- Building a scientific environment and motivation towards innovation with quality research in chemical sciences and interdisciplinary areas

Programme Educational Objectives

- To impart high quality education and research to develop future academicians, scientists and technocrats for national needs
- To nurture professional graduates to develop capability in analysing real life problems of chemical sciences
- To foster attitude towards continuous learning for improving the talents for research, academia and industry
- To improve professional skills for achieving the academic goal

Programme Outcomes

- Ability to explore knowledge in solving the practical problems of chemical science independently
- Ability to compete national level Tests such as UGC-CSIR NET, GATE, etc., for higher studies and research
- Ability to explore academic acquaintancy at par with global standards
- Comprehending the technological challenges and advancements in the subject of chemistry through continuous learning process
- An ability to write and present problems and findings their solution through scientific approaches

Research Facilities

- The Department is equipped with state - of - art instruments and research facility to meet the requirement of modern day chemistry
- The Department has a unique research facility of Nuclear Magnetic Resonance (NMR) spectroscopy, 400 MHz, JEOL which fulfil the requirements of solution-state analytical needs for both students and researchers.
- Advanced equipment such as AUTOLAB workstation, Electrochemical Analyzer (CHI), Microwave Reactor, UV/VIS/NIR Spectrophotometer, Solar Simulator, Rotational Viscometer, Ultra Low Immersion Chiller, Digital Osmometer, XYT Chart Recorder, Millipore, Refractometer, Ultra Low etc., are available for training and research.
- Department has a computational lab facility for conducting training and research in the area of theoretical and computational chemistry.

Sec 8. Discipline, Rules & Regulations (including UGC Regulations on Ragging) and Medical Examination

Institute Rules & Regulations: For details of Institute rules and regulations, please see booklet provided at the time of admission.

Discipline

The Institute places a very high emphasis on discipline of students both inside and outside the campus. Students must abide by the Institute and agree to conform to the rules and regulations enforced from time to time. They must not do anything either inside or outside the Institute that will interfere with its orderly governance, discipline and image. Students must attend lectures, tutorials and practical classes regularly. A minimum attendance of 75% in lectures, tutorials and sessionals for each subject is essential for appearing in the Semester Examinations. Thus, students should attend all theory and laboratory classes from the first day of the academic year. In case of absence due to unavoidable circumstances, students are advised to take prior permission from the Dean / Head. In case of absence due to illness, students will have to produce a Medical report signed by attending Physician / Surgeon with an application from their parents or guardians. In such a case, parents/guardians should inform the authorities immediately. Students should strike a proper balance between extracurricular activities and academic requirements. A student's participation in extra-curricular activities should not be allowed to interfere in his/her academic schedule.

During teaching hours, the main lobby, the library, the corridors of the Institute and the area surrounding the Institute are to be observed as silence zones. Students must not cause any disturbance / obstacle in these zones. Students must not indulge in any kind of misconduct or indiscipline or anti-social activities within or outside the campus. Students must not form a group causing any hindrance to the academic and administrative activities of the Institute. Those found doing so will be punished and strict disciplinary action will be taken by the authorities. Students shall not damage the property of the Institute. Cost of such damage will be recovered from students, parents/guardians of the students.

Students must always carry their Identity Card and produce it on request. In case of loss or damage of Identity Card, the concerned authorities should be informed immediately.

Students are not permitted to enter and use the laboratory / workshop / sports ground if they do not wear appropriate dress. For example, they should enter the laboratory only with apron, cap or mask as instructed. Students should park their cycles in an orderly manner at the cycle stands. Students should follow the rules of the Canteen. Students are advised to read the Notice Boards regularly.

Students are strictly prohibited from possessing or consuming spirits, tobacco products and narcotic drugs either within or outside the campus, and if found violating this will be rusticated immediately, without warning.

Ragging in any form inside or outside the campus is strictly prohibited by law. Any students found ragging other students will be summarily expelled from the Institute and dealt with as per the directive of Hon. Supreme Court/Hon. High Court.

Each student must read the "UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009" on the UGC website. Each student admitted to any of the Institute's Programme must submit the two completed affidavits [one from candidate and one from parents] at the time of admission. [for details please see Sec-9 of this Information Brochure].

Hostel

Hostel facilities are provided at BIT Mesra. All students admitted are required to reside in one of the Institute hostels, to which they are allotted and must take food along with other inmates of the hostel in the common mess. There are separate hostels for girls students.

Medical

All selected students will be required to undergo medical examination by a Medical Officer of the Institute and their admission is subject to being found medically fit for the Programme. Therefore, candidates, for their own satisfaction, are advised to get themselves examined by a registered medical practitioner.

Applicability of Regulations for the time being in force, Disclaimer and Legal Jurisdiction:

In Force

Notwithstanding the nature of a Programme spread over more than one academic year, the regulations in force at the time a student joins a Programme shall hold good only for the examinations held during or at the end of the semester. Nothing in these regulations shall be deemed to debar the Institute from amending the regulations subsequently and the amended regulations, if any, shall apply to all students old or new, as specified therein.

Disclaimer

The statements made in this Information Brochure and all other information, contained herein are believed to be correct at the time of publication. However, the Institute reserves the right to make at any or without notice, changes in and additions to the regulations, conditions governing the conduct of students, requirements for degree, fees and any other information, or statements contained in this Information Brochure. No responsibility will be accepted by the Institute for hardship or expense encountered by its students or any other person for such changes, additions, omissions or errors, no matter how they are caused.

Legal Jurisdiction

All disputes will be subject to jurisdiction of the Civil Courts at Ranchi city only.

Annexure - I
Procedure for submission of Anti-ragging Affidavit [during admission]

Step 1:

A student should submit his/her details on the following below mentioned websites

1. www.antiragging.in OR
2. www.amanmovement.org

Read and confirm that you and your parents/guardians have read and understood the AICTE regulations on curbing the menace of ragging. You should then confirm & agree that you will not engage in ragging in any form.

Step 2:

You will receive an e-mail with your registration number and a web link. You have to forward the link to the Institute Nodal Officer in the below mentioned email ID.

Please note that you will not receive any pdf affidavits and you are not required to print & sign it as used to be the case earlier.

BIT Mesra Nodal Officer: [Rahul Rai](#)

Email Id: antiragging@bitmesra.ac.in