

- Application of biotechnology for sustainability
- Synthesis of safe and benign chemicals with minimum impact on environment.
- Process equipment design and operation to achieve sustainability
- Green Technology for hazard free, benign processes and products

It is hoped that the centre emerge as a model school encompassing various disciplines of science, engineering and technology with the common goal of sustainability and environmental viability.

## S. M. MOKASHI INCUBATION CENTRE (ICT-NICE)

On the occasion of Republic Day, on January 26, 2021, Institute of Chemical Technology, Mumbai, inaugurated its Incubation Centre - S. M. Mokashi Incubation Centre for ICT NICE for Nurturing Innovations and Catalysing Entrepreneurship". In 2024, ICT-NICE Venture Incubator and Foundation, a Section 8 not-for-profit company was established to foster entrepreneurship amongst the ICT students, alumni and faculties. Incubation at ICT-NICE Venture Incubator and Foundation is governed by the ICT Innovation and Start-up Policy formulated and implemented in 2020.

ICT-NICE currently hosts 10 incubatees and 12 pre-incubatees in the areas of Chemical Engineering, Chemical Technology, Pharmaceutical Sciences and Technology, Food Technology, Biotechnology, and Green technology.

ICT-NICE Venture Incubator and Foundation has recently been awarded the prestigious Inclusive Technology Business Incubator (NIDHI-iTBI) grant by the Department of Science and Technology, Government of India, for nurturing and developing the Innovation and Entrepreneurship ecosystem, in line with National Innovation and Start-up Policy (NISP) 2019.

### Themes:

Healthcare & Biotechnology	Agriculture & Rural Development
Chemical Technology	Pharmaceuticals
Nanotechnology	Polymer Technology
Oil Technology	Fibers & Textile Processing
Food Processing	Waste management.
Clean & Portable water	Other allied technologies

### Achievements:

- Two Pre-incubatee teams emerged as Smart India Hackathon 2022 Winners
- ICT student team led by Suraj Kapale & Harshal Patil with Esha Attar, Shruti Ghadge, Lelona Pradhan, and Dnyaneshwar Doke won the Smart India Hackathon 2022 organised by AICTE and cash prize of Rs 1 lakh in the Senior hardware category at IIT Roorkee for their innovation Zero Spillage Milking Can.
- Greenshift Energy Pvt. Ltd. received BIRAC BIG Grant of 50 lakhs and Brihanmumbai Municipal Corporation (BMC) grants to explore and scaleup value addition options for agricultural, horticultural and green waste.
- Instavet Biopharm Pvt. Ltd. received BIRAC BIG grant of 50 lakhs to develop veterinary diagnostics
- Biokraft Pvt. Ltd. received total of 20.75 lakhs grants & Investments from DST-NIDHI Prayas, MeitY EIR & DST-NIDHI SSS to developing sustainable, ethical, and high-quality meat alternatives.
- Reega Industries received 25 Lakhs RAFTAR grant to develop Preservative Free Juices.
- Agrokisan LLP received 5 Lakhs RAFTAR grant for developing Zero Spillage Milking Can.
- National Bio Entrepreneurship Competition 2022 organized by C-CAMP Bangalore won by ICT team for innovation in 'Vegan Leather using Natural Fibres and Biopolymers which is completely biodegradable'. Hue and Dye team.









# PROGRAMMES OF STUDY AND CRITERIA OF ELIGIBILITY FOR ADMISSION



## STUDY IN INDIA PROGRAMME FOR FOREIGNERS AND QUOTA FOR NRI, PIO AND OTHER FOREIGN NATIONALS STUDENTS

1. The Ministry of Human Resources Development (HRD) has approved 'STUDY IN INDIA' programme to attract foreign students to pursue higher education in India. ICT, Mumbai has participated in this program for Undergraduate and Postgraduate programs and NRI, PIO and other foreign students are encouraged to apply for these programs through <https://www.studyinindia.gov.in/>.
2. ICT has decided to stay in "Study in India" program with One student per Programme.

### 3.1 PROGRAMMES OFFERED

#### BACHELOR'S PROGRAMMES [See Section 3.2 for details]

Admissions to B.Chem.Engg. and B.Tech. (seven branches) :

- a) 70% for State of Maharashtra and
- b) 30% for All India (all States and Union Territories including Maharashtra)

#### Admissions to B.Pharm.:

100% for State of Maharashtra.

#### Programmes Offered

1. Bachelor of Chemical Engineering (B. Chem. Engg.)
2. Bachelor of Pharmacy (B. Pharm.)
3. Bachelor of Technology (B. Tech.) in
  - a. Dyestuff Technology
  - b. Fibres and Textiles Processing Technology
  - c. Food Engineering and Technology
  - d. Oils, Oleochemicals and Surfactants Technology
  - e. Pharmaceutical Chemistry and Technology
  - f. Polymer Engineering and Technology
  - g. Surface Coating Technology

#### MASTER'S PROGRAMMES [See Section 3.3 for details]

#### Programmes Offered

1. Master of Chemical Engineering (M. Chem. Engg.) (Full-time 2-years)
2. Master of Pharmacy (M. Pharm.) (Full-time 2-years) in
  - Pharmaceutics
  - Pharmaceutical Chemistry
  - Pharmacology
  - Pharmacognosy
3. Master of Technology (M. Tech.) (Full-time 2-years) in
  - Dyestuff Technology
  - Fibres and Textile Processing Technology
  - Food Engineering and Technology
  - Oils, Oleochemicals and Surfactants Technology
  - Pharmaceutical Chemistry and Technology
  - Polymer Engineering and Technology
  - Surface Coating Technology
  - Green Technology
  - Perfumery and Flavour Technology
4. Master of Technology (M. Tech.) (Full-time 2-years) in
  - Bioprocess Technology

- Food Biotechnology
- Pharmaceutical Biotechnology
- 5. M. E. (Plastic Engineering) (Full-time 2-years)
- 6. M. Sc. (By Papers) (Full-time 2-years) in
  - Chemistry
  - Engineering Mathematics
  - Physics (Material Science)
  - Textile Chemistry

#### **DOCTORAL PROGRAMMES [See Section 3.4 for details]**

##### **1. Ph. D. (Tech.) and DIRECT Ph. D. (Tech.) in**

Bioprocess Technology  
 Chemical Engineering  
 Dyestuff Technology  
 Fibres and Textile Processing Technology  
 Food Biotechnology  
 Food Engineering and Technology  
 Green Technology  
 Nanotechnology  
 Oils, Oleochemicals and Surfactants Technology  
 Pharmacy@  
 Pharmaceutical Technology  
 Polymer Engineering and Technology  
 Surface Coating Technology  
 Plastic Engineering  
 Perfumery and Flavour Technology

##### **Ph. D. (Tech.) in**

Civil Engineering  
 Electrical Engineering  
 Electronics Engineering  
 Mechanical Engineering

##### **@ Ph. D. (Tech.) in Pharmacy has following four branches:**

Pharmaceutics  
 Pharmaceutical Chemistry  
 Pharmacology  
 Pharmacognosy

##### **2. Ph. D. (Sci.) in**

Biochemistry  
 Biotechnology  
 Chemistry  
 Physics  
 Mathematics  
 Food Science  
 Textile Chemistry

All Ph.D. programmes are now redesigned with course work as per UGC regulations.

**MASTER OF BUSINESS ADMINISTRATION (MBA) IN INNOVATION, ENTREPRENEURSHIP AND VENTURE DEVELOPMENT (IEV) (Two Year) [See Section 3.5.1 for details]**

**POSTGRADUATE DIPLOMA [See Section 3.5.2 for details]**

**POSTGRADUATE DIPLOMA IN CHEMICAL TECHNOLOGY MANAGEMENT**

(One and Half Years)

### HIGHLIGHTS:

1. A candidate, who fails to accept an offer of admission to any of the programmes, made by the Institute, for whatever reasons, forfeits his/her claim for admission for that academic year (1<sup>st</sup> July 2024 to 30<sup>th</sup> June 2025) and the seat may be offered to the next eligible candidate in the order of merit. The acceptance of the offer implies payment of the prescribed fees and deposit along with relevant documents by the date specified in the offer letter.
2. The Institute shall not enter into any correspondence with the candidates in the matter related to admission, such as incomplete forms, non-submission of necessary documents in given time period, non-submission of online fee of necessary application along with filled application form, absenteeism at the institutional tests for entrance tests for Master's and Ph.D. programmes, for any reason, non-acceptance of the offer of admission to any of the courses in given time period, etc.
3. No age limit is prescribed for admission to the programme.  
All Rights regarding the admissions at the ICT are reserved with the Vice Chancellor, ICT.

## 3.2 ADMISSION TO BACHELOR'S PROGRAMMES

**ADMISSION TO FIRST YEAR OF FOUR YEARS- B. Chem. Engg., B. Tech. (SEVEN BRANCHES) AND B. Pharm. DEGREE PROGRAMMES IN ICT, MUMBAI (FOR THE ACADEMIC YEAR 2024-25)**

All these admissions will be conducted by Govt. of Maharashtra.

Please Refer Govt. of Maharashtra Brochure of Admissions and their Website

FOR ALL DETAILS ([www.mahacet.org](http://www.mahacet.org))

Admission quota for B. Chem. Engg./ B. Tech. (seven branches)/ B. Pharm. courses are as follows.

- I [B. Chem. Engg. AND B. Tech. (SEVEN BRANCHES)]  
The availability of seats for these courses shall be as
  - a) 70% for State of Maharashtra and
  - b) 30% for All India (all States and Union Territories including Maharashtra)
- II [B. Pharm.] 100% for State of Maharashtra

### BACHELOR'S PROGRAMMES OF STUDIES AND INTAKE CAPACITY

All UG Programmes are post - HSC/ 12<sup>th</sup> Std. Four - Year Semesterised Degree Programmes.

1. Bachelor of Chemical Engineering (B. Chem. Engg.) : 75 Seats
2. Bachelor of Technology (B.Tech.) in
  - (a) Dyestuff Technology : 18 Seats
  - (b) Fibres and Textiles Processing Technology : 34 Seats
  - (c) Food Engineering and Technology : 16 Seats
  - (d) Oils, Oleochemicals and Surfactants Technology : 16 Seats
  - (e) Pharmaceuticals Chemistry and Technology : 18 Seats
  - (f) Polymer Engineering and Technology : 16 Seats
  - (g) Surface Coating Technology : 16 Seats
3. Bachelor of Pharmacy (B.Pharm.) : 30 Seats

### FEES, CONCESSIONS, CANCELLATIONS AND REFUND:

The candidates admitted during 2024-25 are required to pay fees as prescribed by the State government (subject to revision by the State Government).

The institutional fees to be paid by all the admitted candidates are as follows :

Sr. No.	Details	Fee for 1 <sup>st</sup> Year (Rs.)**
1.	Library Deposit	5,000/-
2.	Fees	As per Government Regulations
	TOTAL	To be Declared in Admission Notice

\*Note: Fees of candidates belonging to SC/ST/OBC/VJNT/SBC is reimbursed by Govt. of Maharashtra.

\*\*These are only indicative figures and likely to be changed.

Cancellation rules of the fees will as per MH-CET/DTE guidelines

### 3.3 MASTER'S DEGREE PROGRAMMES

#### PROGRAMMES OF STUDIES, ADMISSION CRITERIA AND CAPACITY

1. All Masters programmes listed in the Table 3.3.1 are full-time programmes of 2 years duration.
2. M. Chem. Engg., M. Pharm. and all M. Tech. Programmes are partly by papers (two semesters) and partly by thesis (two semesters) with fellowship for students who have valid GATE/GPAT Examination scores.
3. All M. Sc. Programmes are two-year programmes (four semesters) only by papers. No fellowships are available to any of the M. Sc. (by papers) Programmes.
4. For eligibility, the candidate should have passed any one of the Bachelor's degree as mentioned in required qualification for that respective programme. The candidate should have passed Bachelor's degree from ICT or any equivalent examination of a post HSC/ HSSC four-year degree programme of IIT/NIT or any university/institute recognized by UGC/AICTE. **For all the Postgraduate Programmes as listed in Table 3.3.1, the candidate should have passed required bachelor's degree with 60% marks in aggregate or equivalent CGPA. (55% marks in aggregate or equivalent CGPA for the backward class candidates)**
5. Any other equivalent degree of full four-year duration for that respective programme will be considered subject to the clearance from the equivalence recognition committee of Institute of Chemical Technology.
6. For M. Tech. programmes in Bioprocess Technology, Food Biotechnology and Pharmaceutical Biotechnology, admissions will be done through Graduate Aptitude Test – biotechnology (GAT-B) 2024 conducted by Department of Biotechnology. The internal distribution of seats, if any, will be declared at the time of admission. The detailed procedure for filling the application form, payment of application fee and uploading of required documents/certificates is given at : <https://dbt.nta.ac.in/> A non-refundable and non-transferable application fee will be charged as per DBT guidelines and the admitted candidates will receive fellowship as per DBT guidelines.
7. For four different specializations in M. Pharm. programme, candidates will have to fill option form clearly stating his/her preferences at the time of admission. The preference will be given based on merit. Only in case of seats remaining vacant, the candidate will be transferred to higher preference.
8. The selection for the AICTE/UGC/PCI fellowships, as declared by the authorities from time to time, if applicable, fellowship shall be based on valid GATE/GPAT score (Level 1 – Table 3.3.2) and the performance in the Institute's written test. (Level 2 and Level 3 – Table

3.3.2). The admissions for Level 2 and Level 3 programmes will be done on the basis of marks obtained in Institute entrance examination.

# 9. Reservation policy will be applicable as per the government norms.

**TABLE 3.3.1 : MASTER'S DEGREE PROGRAMMES**

Sr	Post Graduate Programme	Sanctioned Intake	Required qualification
1	M. Chem. Engg.	30	<p>B. Chem. Engg, B. E./B. Tech in Chemical Engineering/Biochemical Engineering.</p> <p>B. E./B. Tech./B. Sc. (Tech.) in Textile Processing/ Textile Chemistry/Textile Technology/Fibres and Textile Processing/Fiber Technology with significant emphasis on chemical processing of Textiles</p> <p>B. E./B. Tech./B. Sc. (Tech.) in Food Engineering and Technology/Food Engineering/ Food Technology/ Food Science/ Food Processing Technology.</p> <p>B. Tech/B. Sc. (Tech.) in Oils Technology/Oils, Oleochemicals and Surfactants Technology.</p> <p>B. E./B. Tech./B. Sc. (Tech.) in Polymer Engineering and Technology/Surface Coating Technology/ Technology of Plastics/Technology of Paints/ Rubber Technology/Polymer Engineering/ Plastics Engineering/Petrochemical Engineering/ Petrochemical Technology/Paints Technology/ Polymer Technology/Plastics Technology</p>
2	M. Tech. (Dyestuff Technology)	18	B. Chem. Engg./B. Sc. (Tech.)/B. Tech. in any branch of Chemical Technology/Biotechnology/ B.Pharm M.Sc. (Chemistry)
3	M. Tech. (Oils, Oleochemicals and Surfactants Technolgy)	18	B. Chem. Engg./B. Sc. (Tech.)/B. Tech. in any branch of Chemical Technology and Engineering
4	M. Tech. (Food Engineering and Technology)	18	B. E./B. Tech./B. Sc. (Tech.) in Food Engineering and Technology/Food Engineering/Food Technolgy/Food Science/ Food Process Engineering
5	M. Tech. (Polymer Engineering and Technology)	18	B. E./B.Tech./B. Sc. (Tech.) in Polymer Engineering and Technology/Plastics Technology/Plastic Processing/Rubber Technology/ Petrochemicals and Chemical Engineering/ Surface Coating/Paint Technology
6	M. Tech. (Surface Coating Technology)	18	B. E./B. Tech./B. Sc. (Tech.) in Surface Coating Technology/Paints Technology/Oils Technology/ Polymer Technology/ Chemical Engineering
7	M. Tech. (Fibres and Textiles Processing Technology)	18	B. E./B. Tech./B. Sc. (Tech.) in Textile Processing/ Textile Chemistry/Textile Technology/ Fibers and Textile Processing Technology/Fiber Technology with significant emphasis on chemical processing of Textiles



Sr	Post Graduate Programme	Sanctioned Intake	Required qualification
8	M. Tech. (Pharmaceutical Chemistry and Technology)	18	B. Sc. (Tech.) in Pharmaceuticals and Fine Chemicals/ B. Tech. in Pharmaceutical Chemistry and Technology/B. Pharm. or equivalent B. Tech. with Pharmacy background only
9	M. Pharm. Pharmaceutics Pharmaceutical Chemistry Pharmacology Pharmacognosy	6 6 6 6	B. Pharm.
10	M.E (Plastics Engineering)	18	B. E./B.Tech. in Mechanical Engineering/Plastics Engineering/Polymer Engineering/Production Engineering/Chemical Engineering/Chemical Plant Engineering
11	M. Tech. (Green Technology)	30	B. Chem. Engg./B. Tech./B. Sc. (Tech.) in any branch of Chemical Technology/Biotechnology. B. Pharm. M. Sc. in Chemistry/Biotechnology/Biochemistry
12	M. Tech. (Perfumary and Flavour Technology)	18	B. Chem. Engg./B. Tech./B. Sc. (Tech.) B. Tech./B. Sc. (Tech.) in any branch of Chemical Technology/Biotechnology. B. Pharm. M. Sc. in Chemistry/Biotechnology/Biochemistry
13	M. Tech. (Bioprocess Technology)	30	B. Chem. Engg./B. Pharm. B. E./B. Tech. in Chemical Engineering/Chemical Technology/Food Engineering and Technology/ Food Engineering/Food Technology/Food Process Technology/Food Process Engineering/ Dairy Technology/Biotechnology/Biochemical Engineering/ Biomedical Engineering/Pharmaceutical Technology/ Industrial Biotechnology.
14	M. Tech (Food Biotechnology)	10	B. E/B. Tech/B. Sc. (Tech) in Food Engineering and Technology/Food Engineering/Food Technology/ Food Science/Food Process Technology/Food Process Engineering/Dairy Technology/Biotechnology/ Biochemical Engineering/Pharmaceutical Technology/Oil Technology.
15	M. Tech. (Pharmaceutical Biotechnology)	15	B. Pharm. B. E./B. Tech./B. Sc. (Tech.) in Biotechnology/ Biochemical Engineering/ Pharmaceutical Technology/Industrial Biotechnology B.E/B.Tech in Chemical Engineering /Biomedical Engineering. B.Chem.Engg
16	M. Sc. (Chemistry) By Papers	20	B. Sc. with Chemistry as major subject and and Mathematics at HSC Level

Sr	Post Graduate Programme	Sanctioned Intake	Required qualification
17	M. Sc. (Engineering Mathematics) By Papers	20	B. Sc. with Mathematics/Statistics B.E /B. Tech. with at least four mathematics courses.
18	M. Sc. (Physics) Material Science By Papers	20	B. Sc. with Physics at third year of the programme B. E./B.Tech. only if equivalence committee at ICT recommends based on syllabus.
19	M. Sc. (Textile Chemistry) By Papers	20	B. Sc. with Chemistry at the third year of programme.

### Master's Degree ( Full time, 2 years ) Programmes at ICT - IOCB Campus

Sr	Post Graduate Programme	Sanctioned Intake	Required qualification
1	M. Tech. (Food Engineering and Technology)	18	B. E./B. Tech./B. Sc. (Tech.) in Food Engineering and Technology/Food Engineering/Food Technology/Food Science/ Food Process Engineering
2	M. Tech (Pharmaceutical Technology)	18	B. Sc. (Tech.) in Pharmaceuticals and Fine Chemicals/B. Tech. in Pharmaceutical Chemistry and Technology/B. Pharm. or equivalent B. Tech. with B. Chem. Engg./B. E./B. Tech. background only
3	M. Tech. (Petrochemical Technology)	18	B. Chem. Engg./B. E./B. Tech. in Chemical Engineering/Chemical Technology/Petroleum Engineering, B. Tech. (Polymer Engineering and Technology, B. E. (Polymer Engg./Plastic Engg.), B. E. (Petrochemical Engineering/Technology)

### Master's Degree ( Full time, 2 years ) Programmes at ICT - MARJ Campus

Sr	Post Graduate Programme	Sanctioned Intake	Required qualification
1	M. Tech. (Food Engineering and Technology)	18	B. E./B. Tech./B. Sc. (Tech.) in Food Engineering and Technology/Food Engineering/Food Technology/Food Science/Food Process Engineering
2	M. Tech. (Pharmaceutical Technology)	18	B. Sc. (Tech.) in Pharmaceuticals and Fine Chemicals/B. Tech. in Pharmaceutical Chemistry and Technology /B. Pharm. or equivalent B. Tech. with Pharmacy background only
3	M. Tech. (Polymer Engineering and Technology)	18	B. E./B. Tech./B. Sc. (Tech.) in Polymer Engineering and Technology/Plastics Technology/Plastic Processing/Rubber Technology/Petrochemicals and Chemical Engineering

### 3.3.2 GRADUATE APTITUDE TEST IN ENGINEERING (GATE) AND GRADUATE PHARMACY APTITUDE TEST (GPAT) FOR THE AICTE/UGC/PCI, WHICHEVER IS APPLICABLE, FELLOWSHIPS

- (1) The candidates seeking admission to the degrees of M. Chem. Engg./M.Tech./ M. E.(Plastic Engg.) are required to qualify the Graduate Aptitude Test in Engineering (GATE)



conducted at the national level.

- (2) The candidates seeking admission to M. Pharm. are required to qualify the Graduate Pharmacy Aptitude Test conducted at the national level. GATE-qualified candidates are also eligible for admission to M. Tech. (Green Tech.), M. Tech. (Perfumery and Flavour Technology) and M. Tech. (Oils, Oleochemicals and Surfactants Technology) Programmes.
- (3) Rules for availing GATE scholarships:
  - a. The Fellowships (subject to sanction and availability) are awarded only to the candidates who have passed the GATE examination with valid score and on the basis of merit.
  - b. The student must give an undertaking to the effect that he/she would not leave the course midway in order to be eligible to receive the Fellowship. During the course of studies, such student shall not receive any other fellowship/ honorarium/ emoluments, salary, stipend, etc., from any other source. Any violation in such cases will be dealt with as per AICTE/ Funding Agency norms.
  - c. The student receiving the fellowship must secure minimum 60% marks or equivalent CGPA during the first and the second semester course work examinations to become eligible for continuation of the Fellowship at the existing rate during the second, third and fourth semesters, respectively.
  - d. Students are being cautioned that according to AICTE rules, a student who secures marks below 60% or equivalent CGPA in the first and/or second semester examination shall be eligible to get a reduced fellowship at the rate of Rs. 1,000/- p.m. only.
  - e. In case of failure at the semester I examination, the fellowship shall be discontinued during the remaining period of the course. The fellowship may also be discontinued at any kind of misconduct by the student receiving the same. The fellowship once discontinued shall not be restored, even if a student secures 60% marks or equivalent CGPA at the second semester.
  - f. The Fellowship amounts are normally disbursed every month after starting the Fellowship, subject to receiving the grant from the AICTE. The fellowship amount shall be disbursed only after receiving the appropriate grant from the AICTE.
  - g. Documents required for fellowship
    1. Valid GATE/GPAT Score card pdf copy.
    2. Reserved Category Document
      - I. Cast Certificate
      - II. Cast Validity
      - III. Non-Creamy Layer Certificate
    3. Aadhar Card

The Institute shall not be responsible for non-receipt of fellowship grant from AICTE/UGC/PCT, whichever is applicable, in time. The students will be required to give an Undertaking in writing to this effect.

### 3.3.3 ADMISSION CRITERIA

Admission to the Master's Programmes (Sr. No. 1- 15 in Table 3.3.1 and those at ICT - IOCB and ICT - MARJ Campuses in the following Tables) are available subject to the rules given below:

The first preference for admission to a Programme/ Branch will be given to the candidates qualifying Bachelor's course with valid GATE/GPAT score, as applicable from the respective discipline (Level 1 - Table 3.3.2).

Seats vacant after Level 1 will be allotted to Level 2 candidates as per the merit list. Only after

filling the vacancies by such candidates, the candidates possessing a qualifying Bachelor's degree with valid GATE/GPAT score from any other programme/ branch will be considered for admission. (Level 2 - See Table 3.3.2)

Preparation of the merit list will be done at two levels, Level 1 and Level 2 separately.

**Level 1:** Merit list will be prepared on valid GATE/GPAT score in the specified subject and no written test or interview will be conducted. Admissions through Level 2 shall be made only if any seats remain vacant after exhausting the merit list from Level 1.

**Level 2:** Merit list will be prepared on the basis of valid GATE score (in any subject) and written test (based on the syllabus specified by the Department for the course in which the candidate is seeking admission) on the basis of 70:30 weightage. In case of interdisciplinary shift of Programme/Branch, interviews will be conducted to find the suitability of the candidate. There will be an external expert on the interview committee.

**Level 3:** Merit list will be prepared on the basis of written test alone (based on the syllabus specified by the Department for the course in which the candidate is seeking admission).

**Admission to the following three courses :**

- M. Tech. (Bioprocess Technology)
- M. Tech. (Food Biotechnology)
- M. Tech. (Pharmaceutical Biotechnology)

will be based on the results of the Graduate Aptitude Test-Biotechnology (GAT-B) 2024 conducted by Department of Biotechnology. The details are given at: [www.rcb.res.in/GATB](http://www.rcb.res.in/GATB).

**Table 3.3.2: Criterion for Preparation of Merit List**

Department conducting the written test	Course in which the candidate is seeking admission	Preparation of First Merit list
Chemical Engineering	M. Chem. Engg.	Level 1 and 2
Speciality Chemicals Technology	M. Tech. (Dyestuff Technology)	Level 2
	M. Tech. (Perfumary and Flavour Technology)	Level 2
Fibres and Textile Processing Technology	M. Tech. (Fibres and Textile Processing Technology)	Level 1 and 2
	M. Sc. (Textile Chemistry)	Level 3
Food Engineering and Technology	M. Tech. (Food Engineering and Technology)	Level 1 and 2
Oils, Oleochemicals and Surfactants Technology	M. Tech. (Oils, Oleochemicals and Surfactants)	Level 2
Pharmaceutical Sciences and Technology	M. Tech. (Pharm. Chem. Tech.)	Level 2
	M. Pharm.	Level 1
Polymer and Surface Engineering	M. Tech. (Surface Coating Technology)	Levels 1 and 2
General Engineering	M. E. (Plastics Engineering)	Level 2
Chemistry	M. Tech. (Green Tech.)	Level 2
	M. Sc. (Chemistry)	Level 3
Mathematics	M. Sc. (Engineering Mathematics)	Level 3
Physics	M. Tech. (Green Tech.)	Level 3

The admission procedure for M. Chem. Engg., M. Tech. and M. Pharm. programmes will be conducted after declaration of GATE 2024/GPAT 2024 results. Candidates are requested to visit the institute website time to time for admission related matters. The candidates who are qualified with valid GATE/GPAT score and appearing for final semester examination of the



qualifying Bachelor's programme must have obtained aggregate 60% of the marks or equivalent CGPA [55% of the marks or equivalent CGPA for the backward class candidate] at the end of 6<sup>th</sup> semester of the qualifying Bachelor's course. Only a provisional admission will be offered in such cases. For confirmation of admission, at a later date, however, overall 60% of the marks in aggregate or equivalent CGPA [55% of the marks in aggregate or equivalent CGPA for the backward class candidate] are necessary at the qualifying examination. The admission of candidate not fulfilling the admission criteria may be cancelled at any time during the tenure of programme.

In case the candidate is admitted to a programme/branch other than the one in which he/she has obtained qualifying Bachelor's degree, he/she will have to undergo at least Three Make-Up Credit Courses (to be decided by the department admitting such candidate).

Preference will be given to candidates with valid GATE/GPAT score; however, Non-GATE/Non-GPAT candidates may also apply. The merit of Non-GATE candidates will be totally based on the written test designed on the basic course, the syllabus of which shall be provided by each Department and displayed on the ICT website.

Design of written test would be such that basic knowledge in the discipline in which the candidate is seeking admission is tested. The syllabus for the written test will be available on the ICT website.

The final merit lists would be prepared on the basis of the criteria given above.

The group of selected candidates, unless selected on a specific project, may be given a presentation about all research activities in the department and available projects for selection of project/guide. The final allotment of the research guides will be done by the Departmental committee based on the merit and preferences given by the candidate and admissible rules and regulations.

All these rules also apply to the candidates who will be conducting their research work leading to a Degree under any type of sponsored projects (Govt. or Private).

### 3.3.4 APPLICATION PROCEDURE FOR MASTER'S PROGRAMMES

For admission at the ICT for any of the Master's Programmes, a candidate should apply online for admission applications. (website <http://ictmumbai.edu.in>). Click on Apply online for Admission 2024-2025.

#### 3.3.4.1 ONLINE APPLICATION :

**To Fill the online application form below steps are required:**

##### **Step: 1 » Personal Information.**

Date of birth, Mobile No, Address, Caste, Category Details, Scanned colour Photo (Must be less than 40 kb, format-.jpg/.jpeg).

##### **Step: 2 » Education details starting with Xth, XIIth/ Diploma, Graduation (if applicable).**

Carefully select between options of Percent System or Grade System.

Year of Passing of each degree should be carefully specified.

Board of Examination decides the normalization factor, so specify correctly.

##### **Step: 3 » Entrance Exam Details.**

Select entrance exam in which you will appear.

Enter Application Id, Mobile Number, Roll No, Enter Grade/ Percentage/ Percentile/ score/ Rank correctly.

##### **Step: 4 and 5 » Upload Scanned Documents.**

All mark sheets and certificates.

Category/ caste document, migration, domicile certificate etc.

##### **Step: 6 » Payment details for admission form.**

You can pay application form fee with online mode by using Credit/ Debit card or by Net Banking only.

After submitting the form, students can take a print of application form for their reference.

**The candidate shall fill the appropriate application form/s, separate for each programme of choice.**

All the relevant entries in the application form must be completed. Incomplete forms will be rejected and no correspondence will be made in this regard.

**Writing contact details such as permanent address, address for correspondence, Mobile No./ Telephone No./ and email address in the application form is essential. Do not leave any space blank.**

The duly filled form along with ATTESTED PHOTOCOPIES of required certificates to substantiate the claims made in their application form should be submitted online. The Admission application fees once paid is non-refundable and non-transferable under any circumstances.

Incomplete applications shall be rejected without entering into any correspondence with the applicant.

The candidates seeking admission at the ICT must submit ATTESTED PHOTOCOPIES of all the documents as given in Table 3.3.3 below along with the application form.

Attachment of any certificates will not be accepted separately after submission of the application form.

The candidates belonging to the reserved categories will be required to submit Caste Certificate, Caste/ Tribe Validity Certificate as applicable at the time of submitting the application form, failing which the category claimed, will not be granted and the candidate will be treated as a General candidate.

The candidates shall not attach a copy of any other certificate which is not asked for, such as certificates for participation in sports, cultural activities, etc.

If the candidate produces any certificate, which is not in Marathi, Hindi or English language, authenticated Marathi, Hindi or English version of the same, duly attested by a Gazetted Officer shall also be produced.

TABLE 3.3.3 : Documents to be attached with the Application form for PG admissions

Sr. No.	Type of Candidate	Attested true copies of documents to be attached along with application form
I	All Candidates	1. SSC (Std. X) mark sheet,
		2. HSC (Std. XII) mark sheet,
		3. All Mark sheets of Bachelor's Course
		4. Bachelor's degree certificate
		5. College Leaving/ Transfer certificate
		6. Migration certificate (within one month after confirmation of admission)
		7. Industrial/Teaching experience/ Gap Certificate, if any
		8. GATE/GPAT score card.
II	Backward class Candidates belonging to SC/ ST Categories	Caste certificate, Caste/ Tribe Validity certificate, as applicable. (In addition to the documents mentioned in Sr. No. I)
III	Backward Class Candidates belonging to OBC category (Maharashtra State candidates only)	Caste certificate, Caste/ Tribe Validity certificate, Non Creamy Layer Certificate valid up to 31 <sup>st</sup> March 2024. (In addition to the documents mentioned in Sr. No. I)
IV	Backward Class Candidates belonging to OBC category (Outside Maharashtra State candidates only)	Cast Certificate issued by Central Government



### 3.3.5 RULES AND REGULATIONS ABOUT RESERVATION

Reservation in admission is only for SC/ST/OBC categories on All-India basis will be applicable to all of the Masters Programmes M. Chem. Engg., M. Pharm., M. Tech. (all branches), M. E. (Plastic Engg.), M. Sc. as per the Government norms.

#### 3.3.5.1 CASTE CERTIFICATE AND CASTE/ TRIBE VALIDITY CERTIFICATE.

- Caste Certificate: The candidates belonging to the backward class category will be required to submit the Caste Certificate at the time of admission, failing which the category claimed will not be granted and the candidate will be treated as a General Candidate.
- Caste Validity Certificate: The candidates belonging to the SC/ST/OBC category will be required to submit the Caste/Tribe Validity Certificate at the time of admission, failing which the category claimed will not be granted and the candidate will be treated as a General Candidate.

### 3.3.6 FEES, CONCESSIONS, CANCELLATIONS AND REFUND

#### 3.3.6.1 FEES PRESCRIBED:

The candidates admitted during 2024-2025 are required to pay fees as prescribed by the State government (subject to revision by the State Government).

The institutional fees to be paid by all the admitted candidates are as follows.

**These are only indicative figures and likely to be changed :**

#### POSTGRADUATE (M. CHEM. ENGG., M. Tech., M. PHARM., M. E. (PLASTIC ENGG.))

Sr. No.	Details	Fee for 1 <sup>st</sup> Year (Rs.)
1.	Library Deposit	5,000/- (One Time)
2.	Academic Fees	45,000/-
3.	Other Fees	42,000/- (Including Contingency)
	TOTAL	92,000/-

Second Year Fees : Rs. 1,00,000/-

\*Note: Contingency amount for Masters students admitted under various fellowships will be as per the norms of respective sponsoring funding agencies.

Fee structure for M.Sc. (Physics/Chemistry/Textile Chemistry) Courses at ICT for the academic year 2024-2025.

Sr. No.	Details	Fee for 1 <sup>st</sup> Year (Rs.)
1.	Library Deposit	5,000/-
2.	Fees	40,000/-
3.	Other Fees	25,000/-
	TOTAL	70,000/-

Second Year Fees : Rs. 76,500/-

Fee structure for M.Sc. (Mathematics) Courses at ICT for the academic year 2024-2025.

Sr. No.	Details	Fee for 1 <sup>st</sup> Year (Rs.)
1.	Library Deposit	5,000/-
2.	Fees	40,000/-
3.	Other Fees	20,000/-
	TOTAL	65,000/-

Second Year Fees : Rs. 71,000/-

Notes:-

- a) For confirmation of seat allotted, all candidates have to submit Demand Draft in favour of 'INSTITUTE OF CHEMICAL TECHNOLOGY, Mumbai', payable at Mumbai, of appropriate values as shown in above TABLE.
- b) Hostel Fees shall be charged additionally in case of candidates opting for hostel accommodation (the details are given in Section on Hostels).
- c) Vide letters no. जा.क्रं./स.आ.स.क/मु.श./व्या.प.आ./अ.जा.फ़ि.स्कॉ/2015-16@5012 dated 17th August, 2015 received from Assistant Commissioner, Social Welfare Department, Mumbai city and जा.क्रं./सकआ/शिक्षण/रतंस/2015-16 पुणे 2164 dated 11th August, 2015 received from Joint Director, Social Welfare Department, Pune, "All reserved category students for Master and Ph.D. who are getting any fellowship are not entitled to get Freeship/Scholarship from Government of Maharashtra."

### 3.3.6.2 LIBRARY DEPOSIT:

Library deposit received from the students shall be refunded after successful completion of the programme or after cancelling the admission, subject to producing Original Receipt. Unless there is any recovery, no deduction shall be made from the Library deposit. However, the amount of Library deposit shall be credited to institute, if the candidate does not apply for refund, within 3 complete financial years after the student actually leaves the institution; or, within 3 complete financial years after the date of successful completion of the course, whichever is earlier.

### 3.3.6.3 REIMBURSEMENT OF TUITION FEE:

Candidates claiming concession under the categories of EBC and sons and daughters for teaching and non-teaching staff of primary, secondary and higher secondary schools shall pay entire fee as applicable at the time of admission and subsequently candidates have to apply to the respective authorities for reimbursement of tuition fees. The quantum of reimbursement received by the institute from the concerned authorities shall be disbursed to the candidate.

### 3.3.6.4 CANCELLATION OF ADMISSION AND REFUND OF FEES:

Candidate who has been admitted to ICT may cancel admission by submitting an application in duplicate, in the prescribed Proforma - E and request for refund of fees. The refund of fees as applicable shall be made in due course of time. It is made clear that such application for cancellations will be considered if and only if the admission has been confirmed by paying the prescribed tuition fee and other fees in full and by submitting all the necessary original documents. Refund shall be made after deduction of cancellation charges as shown below -

**All Rights regarding the admissions at the ICT are reserved with the Vice Chancellor, ICT.**

Sr. No.	SITUATION	REFUND
1	Request received on or before 15 calendar days from the Date of Admission (including the Admission Day)*	Entire fee less Rs.2000/-
2	Request received between 16 to 30 calendar days from the Date of Admission (including the Admission Day)*	50% of entire fee
3	Request received after 30 calendar days from the Date of Admission (including the Admission Day)*	No refund except library deposit

\* Admission cancellation request must be received on or before the last day of the PG Admission 2024-25, which will be announced in a separate notice on ICT Website. Admission cancellation request received after the last day of PG Admission 2024-25, irrespective of



the No. of days from the Date of Admission will not receive any refund (Except library deposit). These Rules will be applicable across all campuses of ICT Mumbai

## 3.4 DOCTOR OF PHILOSOPHY (Ph. D.) PROGRAMMES

### 3.4.1 PROGRAMMES OF DOCTORAL STUDIES

As per the UGC directives the minimum period of Ph.D. shall be three years. Table 3.4.1 shows various doctoral programmes (by research) in various disciplines in Science and Technology. Apart from original research, all Ph. D. programmes have a course work component effective from September 2009.

TABLE 3.4.1: DOCTORAL DEGREE PROGRAMMES

No.	DEGREE	COURSE
1.	Ph. D. (Tech.) in Technology	Bioprocess Technology
2.		Chemical Engineering
3.		Speciality Chemical Technology
4.		Fibres and Textile Processing Technology
5.		Food Biotechnology
6.		Food Engineering and Technology
7.		Green Technology
8.		Nano Technology
9.		Oils, Oleochemicals and Surfactants Technology
10.		Perfumery and Flavour Technology
11.		Pharmacy@
12.		Pharmaceutical Technology
13.		Polymer Engineering and Technology
14.		Surface Coating Technology
15.		Plastic Engineering
16.		Civil Engineering
17.		Electrical Engineering
18.		Electronics Engineering
19.		Mechanical Engineering
20.	Ph. D. (Sci.)	Biochemistry
21.		Biotechnology
22.		Chemistry
23.		Food Science
24.		Mathematics
25.		Physics
26.		Textile Chemistry
27.	Ph. D. (Tech.)	Petrochemical Engineering

**Intake Capacity:** There is no prescribed intake capacity for any of the Doctoral Programmes/ branches since the number of available fellowships and the requirement by the research supervisors varies every year. Several research projects, either funded by various government agencies or private industries, have provisions for fellowships.

**Ph.D. (Tech) in Pharmacy** is offered in four different branches:

(i) Pharmaceuticals, (ii) Pharmaceutical Chemistry, (iii) Pharmacology and (iv) Pharmacognosy. Separate written tests will be conducted for each of the above branches. Candidates may appear

for written tests in one or more of these and a separate merit list will be prepared for each.

Candidates admitted to Ph.D. (Tech.) in Technology (Sr. No. 1 - 14) conduct research under the recognized faculty from the Department of Chemical Engineering, all Departments of Chemical Technology, DBT-ICT Centre for Energy Bio-sciences and ICT-DAE Centre for Chemical Engineering Education and Research.

Candidates admitted to Ph.D. (Tech.) in Technology Sr. No. 15-19 conduct research under the recognized faculty from the Department of General Engineering.

There will be combined entrance test for (Sr. No. 21) and Ph. D. (Sci.) (Biochemistry) in Biochemistry (Sr. No. 20). Shortlisted Candidates will be eligible for admission to Ph.D. Science Biotechnology (Sr No. 21) and Ph. D. (Sci.) (Biochemistry) depending upon availability of fellowship.

Candidates admitted to Ph. D. (Sci.) in Food Science (Sr. No.23) conduct research under the recognized faculty from the Department of Food Engineering and Technology. [See Section 3.4.3.1]

Candidates admitted to Ph. D. (Sci.) in Mathematics (Sr. No. 24) conduct research under the recognized faculty from the Department of Mathematics.

Candidates admitted to Ph. D. (Sci.) in Physics (Sr. No. 25) conduct research under the recognized faculty from the Department of Physics.

Candidates admitted to Ph. D. (Sci.) in Textile Chemistry (Sr. No. 26) conduct research under the recognized faculty from the Department of Fibres and Textile Processing Technology. [See Section 3.4.3.1]

**Note:** A Single form has to be filled for Ph. D. (Sci.) (Biotechnology) (Sr. No.21) and Ph. D. (Sci.) (Biochemistry) (Sr. No.20). Candidates should mention Biotechnology/ Biochemistry on the Form.

### 3.4.2 FELLOWSHIPS FOR DOCTORAL PROGRAMMES

Candidates receiving fellowships from any source and doing Ph.D. are required to work for 8 hrs/week to carry out administrative, supervisory and teaching assistantship as directed by Guide, Head of the Department and Institute Authorities.

#### 3.4.2.1 INSPIRE FELLOWSHIP FROM DEPARTMENT OF SCIENCE AND TECHNOLOGY (GOI)

First Rank holders in Bachelor's degree or Master's degree in Engineering/ Technology/ Pharmacy/Science of any UGC/ AICTE recognized Indian University or Institute/ Statutory Body in India can apply for award of INSPIRE FELLOWSHIP, a scheme of the Government of India to avail research grants for a period of five years for doing research leading to Ph.D. degree. The Bachelor's degree holders with INSPIRE FELLOWSHIP need to register for Integrated Ph.D. degree from the beginning of the research. Application format and necessary documents for application are available on the website <https://online-inspire.gov.in/> Eligible candidates should apply directly to DST and after getting provisional acceptance, they may be considered for admission at ICT, subject to fulfillment of other criteria.

### 3.4.3 ELIGIBILITY CRITERIA FOR THE ADMISSIONS:

#### 3.4.3.1 (A) ELIGIBILITY CRITERIA FOR ADMISSION TO Ph. D. (Tech.)/Ph. D. (Sci.)

For **Ph. D. (Tech.)** Programme at Sr. No. 1 in Table 3.4.1 must have passed

- i) Bachelor degree (12+4) in Engineering/Technology/Pharmacy or equivalent thereto AND
- ii) Master's degree examination in the Chemical Engineering/Bioprocess Technology/ Chemical Technology (any branch at ICT)/Pharmacy/ Biotechnology/ Biochemical Engineering/ or any other UGC recognized university as equivalent there to with 60% marks or equivalent CGPA (55% marks or equivalent CGPA in case of reserved category.

- iii) From the academic year 2022-23, ICT is following the rule of having 60% or 6.5 out of 10 GPA at both Bachelor's and Master's levels while admitting doctoral students. CSIR or any other national level JRF will get relaxation of 5%.

For **Ph.D. (Tech.)** course at Sr. No. 2 in Table 3.4.1, the candidate must have passed the Master's degree examination in the Chemical Engineering/ Chemical Technology (any branch at ICT)/ Pharmacy/ Plastic Engineering of ICT/ [(M.E in Petrochemical Engineering/ Environmental Engineering) (Provided Bachelor Degree in Chemical Engineering)] or any other UGC recognized University as equivalent thereto with 60% marks or equivalent CGPA (55% marks or equivalent CGPA in case of reserved category). iii) From the academic year 2022-23, ICT will follow the rule of having 60% or 6.5 out of 10 GPA at both Bachelor's and Mater's levels while admitting doctoral students. CSIR or any other national level JRF will get relaxation of 5%.

For **Ph.D. (Tech.)** courses at Sr. No. 3, 4 and 7 -15 in Table 3.4.1, the candidate must have passed the Master's degree examination in the Chemical Engineering/ Chemical Technology (any branch at ICT)/ Pharmacy/ Plastic Engineering of ICT or any other UGC recognized University as equivalent thereto with 60% marks or equivalent CGPA (55% marks or equivalent CGPA in case of reserved category).

For **Ph.D. (Tech.)** Programmes at Sr. No. 5 in Table 3.4.1 must have passed the

- i) Bachelor's degree (12+4) in Food Engineering and Technology or Biotechnology/ Food Biotechnology of any UGC recognized University as equivalent thereto with 60% marks or equivalent CGPA (55% marks or equivalent CGPA in case of reserved category) AND
- ii) Master's degree in Food Engineering and Technology/ Food Technology/ Biotechnology/ Food Biotechnology/ Food and Biochemical Engineering/ Chemical Technology (any branch at ICT)/ Chemical Engineering of any UGC recognized University as equivalent thereto with 60% marks or equivalent CGPA 55% marks or equivalent CGPA in case of reserved category.

For **Ph.D. (Tech.)** Programmes at Sr. No. 6 in Table 3.4.1 must have passed the

- i) Bachelor's Programmes (12+4) in Food Engineering and Technology or equivalent thereto AND
- ii) Master's degree in Food Engineering/ Food Technology/ Food and Biochemical Engineering/ Chemical Technology (any branch at ICT)/ Chemical Engineering of any UGC recognized University as equivalent thereto with 60% marks or equivalent CGPA 55% marks or equivalent CGPA in case of reserved category

For **Ph.D. (Tech.)** Programmes at Sr. No. 16-19 in Table 3.4.1, the candidate must have passed the Master's degree examination from any UGC recognized university as equivalent thereto with 60% marks or equivalent CGPA (55% marks or equivalent CGPA in case of reserved categorie).

Plastic Engineering/Material Science/ Civil/ Structural/ Environmental/ Civil and Water management/ Transportation Engineering/ Construction/ Construction Management/ Geotechnical/ Water Resources/ Electrical Engg/ Power Systems/ Control Systems/ Instrumentation and Control/ Power Electronics/ Electrical Machines and Drives/ Power and Energy systems/ Electronics/ Micro Electronics/ VLSI Design/ Embedded systems/ Electronics and Communication/ Mechanical/ Production/ Industrial/ Thermal/ Machine Design/ Machine Tols/ Automobile

For **Ph. D. (Sci.)** Programmes at Sr. No. 20 and 21 in Table 3.4.1, the candidate must have passed the Master's degree examination in any biological faculty of science of any university recognized by UGC with minimum of 55% marks or equivalent CGPA (50% MARKS OR EQUIVALENT CGPA in case of reserved category)

For **Ph.D. (Sci.)** Programmes at Sr. No. 22, 24 and 25 in Table 3.4.1, the candidate must have passed the Master's degree examination in the respective Subject of any University recognized by UGC with minimum of 55% marks or equivalent CGPA (50% marks or equivalent CGPA in



case of reserved category).

For **Ph.D. (Sci.)** Programmes at Sr. No. 23 in Table 3.4.1, in Food Science the candidate must have passed the M. Sc examination in Food Science, Food Processing, Nutrition, Home Science, Post harvest Technology, Horticulture, Dairy Science, Biochemistry, Microbiology, Organic Chemistry of any UGC recognized University as equivalent thereto with 60% marks or equivalent CGPA (55% marks or equivalent CGPA in case of reserved category).

For **Ph.D. (Sci.)** Programme at Sr. No. 26 in Table 3.4.1, in Textile Chemistry, the candidate must have passed the M. Sc. examination in Textile Chemistry/ Textile Clothing/ Life Sciences/ Biochemistry/ Microbiology/ Chemistry of ICT or of any University recognized by UGC with minimum of 55% marks or equivalent CGPA (50 % marks or equivalent CGPA in case of reserved category).

For **Ph.D. (Tech.)** Programmes at Sr. No. 27 in Table 3.4.1, the candidate must have passed the Master's degree examination in the Chemical Engineering / Chemical Technology (any branch at ICT)/ Plastic Engineering of ICT/ [(M.E in Petrochemical Engineering) (Provided Bachelor Degree in Chemical Engineering)] or any other UGC recognized University as equivalent thereto with 60% marks or equivalent CGPA (55% marks or equivalent CGPA in case of reserved category).

The candidates who have passed the Master's degree by Research of any University recognized by UGC may be considered for admission only if they hold fellowship from any recognized funding agency.

In addition, the candidates must undergo institutional written test and interview to qualify for admission through merit.

The candidates qualified in National Level Qualifying Examinations, as per UGC Guidelines, or other equivalent examinations and holding valid fellowship will be preferred.

**Apart from regular full time on- campus candidates, following candidates are also eligible for admission to Ph.D. (Tech.)/ Ph.D. (Sci.):**

- (i) Permanent full time teachers of College/ Institute (See 3.4.3.1.B for details)
- (ii) Employees of National laboratories/ Government Institutions (See 3.4.3.1.C for details)
- (iii) Employees of Industry (See 3.4.3.1.D for details)

**NOTE: The selection of all the candidates for Ph.D. (Tech.) shall be based on the score in the qualifying examination and interview conducted by the Institute. The entrance examination score conducted by ICT will remain valid for two academic years. The academic year in which the candidate had appeared for entrance examination and the next academic year.**

The exemption from ICT Entrance Test for admission to Ph.D. programmes will be as per the UGC Guidelines issued from time to time. The relevant information can be found on ICT website ([www.ictmumbai.edu.in](http://www.ictmumbai.edu.in)) throughout the academic year 2024-25.

### **3.4.3.1 (B) ELIGIBILITY CRITERIA FOR TEACHERS FOR ADMISSION TO Ph. D. (Tech.)/ Ph. D. (Sci.)**

Following are the requirements in addition to the criteria mentioned under heading 3.4.3.1. A above.

- a) The candidate should be a permanent teacher having full time teaching experience of at least two years in Degree College or five years in Junior college/ Diploma College/ Polytechnics (affiliated to statutory bodies). Candidate will have to submit No Objection Certificate from respective college/institute . Please see **ANNEXURE 1**
- b) Teachers who have been in the service of any Engineering and Technology College approved by the UGC/AICTE are entitled for registration for Ph. D. (Tech.) with the faculty of the ICT.

- c) Teachers who have been in the service of any Science College approved by the UGC are entitled for registration for Ph. D. (Sci.) with the faculty of the ICT.
- d) The college management should undertake the responsibility of releasing the candidate for course work, experimental work or discussions with the concerned research guide from time to time. A proper time table should be prepared by the concerned teacher and his supervisor, which will be approved by the Head of Department/ Centre Co-ordinator. A bond in this regard should be signed and approved by the Vice Chancellor, ICT.
- e) Teachers can work in the ICT laboratories during vacations and holidays and after their office hours if they come from colleges in the city or nearby. They must indicate on which date they will avail of the research facilities in ICT. A proper log book must be maintained by the candidate duly signed by his supervisor which will be authenticated by the Head of Department/ Centre Co-ordinator.
- f) A maximum period of 5 years extendable by 1 year will be allowed in case of teachers who carry out research part time but put in at least 3 months full time work in a year in the ICT labs. In such cases, part of the experimental work could be allowed to be done in their premises for which their management will provide them with necessary facilities. The characterization and other sophisticated analysis must be done in ICT. Exclusive theoretical work should be discouraged as much as possible to give the teachers a hands-on experience and to bring them into an environment of research. However, this will be left to the individual supervisor's discretion, who should take abundant precaution to avoid unethical practices.
- g) The registered candidates will be required to publish or patent some part of their work within two years of the registration otherwise this registration will not be continued. The publication must be done in peer reviewed international journals. Multi-authored papers without much input from the teacher should be avoided. Conference proceedings which are not peer reviewed will not be considered as publications.
- h) Teachers registering themselves as Ph.D. student of ICT should not register any Masters students with themselves in his/her own college to avoid research by proxy. The candidate as well as his/her supervisor must give an undertaking, with a counter signature of the concerned principal to this effect to avoid degeneration of this novel concept into a Ph.D. by unscrupulous means.
- i) If the teacher intends to join the ICT on leave without pay for a period of three years, then the candidate may be eligible for the UGC fellowship under our SAP programme, provided he/ she successfully clears the Institutional entrance tests.
- j) All regular admissions criteria are applicable to these candidates and they must also do the course work required for Ph.D. programme.
- k) The candidates will have to submit affidavit as given in **ANNEXURE 2**

#### **3.4.3.1 (C) ELIGIBILITY CRITERIA FOR CANDIDATES WORKING IN NATIONAL LABORATORIES/ GOVERNMENT INSTITUTIONS FOR ADMISSION TO Ph. D. (Tech.)/ Ph. D. (Sci.)**

Following are the requirements in addition to the criteria mentioned under heading 3.4.3.1. A above. Ph.D. candidate sponsored by industry should have total industrial experience of minimum two years after completion of Master's degree with GPA more than 7.

- a) The candidate should be a permanent employee working in National Laboratories/ Government Institutions having minimum 2 years of service. Candidate will have to submit No Objection Certificate from respective laboratory or government institution . Please see **ANNEXURE 1**
- b) The management of the organisation should undertake the responsibility of releasing the

candidate for course work, experimental work or discussions with the concerned research guide from time to time. A proper time table should be prepared by the concerned candidate and his supervisor, which will be approved by the Head of Department/ Centre Co-ordinator. A bond in this regard should be signed and approved by the Vice Chancellor, ICT.

- c) Such candidates can work in the ICT laboratories during vacations and holidays and after their office hours if they come from organisation in the city or nearby. They must indicate on which date they will avail of the research facilities in ICT. A proper log book must be maintained by the candidate duly signed by his supervisor which will be authenticated by the Head of Department/ Centre Co-ordinator.
- d) The registered candidates will be required to publish or patent some part of their work within two years of the registration otherwise this registration will not be continued. The publication must be done in peer reviewed international journals. Multi-authored papers without much input from the teacher should be avoided. Conference proceedings which are not peer reviewed will not be considered as publications.
- e) All regular admissions criteria are applicable to these candidates and they must also do the course work required for Doctoral programme.
- f) The candidates will have to submit affidavit as given in **ANNEXURE 4**

#### **3.4.3.1 (D) ADMISSION FOR INDUSTRY -SPONSORED IN-HOUSE CANDIDATES TO Ph.D. (Tech.)/ Ph.D. (Sci.)**

Following are the requirements in addition to the criteria mentioned under heading 3.4.3.1. A above.

Total industrial experience of minimum two years after his/her master's with GPA more than 7. It is not necessary that the experience is from the same industry who is sponsoring the candidate. However it should be an approved research laboratory as per ICT's procedure. Such candidate should be selected based on ICT's entrance test in the respective subject.

1. The candidate should have minimum 2 years of industrial experience. The candidate will have to submit No Objection Certificate from respective organisation. Please see **ANNEXURE-1**
2. Industry should have a well-equipped Research and Development and Quality Control laboratory with at least one Ph.D. employee working in the set up in the relevant area.
3. Industry is required to get recognition from ICT by the following procedure:
  - i. After receiving request from an industry, a Committee appointed by the Vice Chancellor, ICT will make a visit to the industry laboratory. The ICT appointed Committee will consist of Dean (RCRM) as Chairman with a Professor nominated by the Vice Chancellor and the Head of the Department in the area of proposed research.
  - ii. The committee will evaluate the activities and the competence of the R and D of industry following the guidelines of similar to those proposed by DSIR. All the expenses in connection with the visit will be borne by the industry concerned. The ICT committee will make recommendations to the Vice Chancellor, ICT for approval. The industry R and D will be recognized by the approval of the Vice Chancellor, ICT. In case the laboratory is already recognized by DSIR, the visit by ICT committee will not be necessary.
  - iii. Once the R and D laboratory is recognized by the ICT, the industry is required to pay Rs. 5 lakhs for first four years (typical duration of Ph.D. work) and necessary contingency amount of Rs. 50,000/- per candidate per year (in the name of ICT, to be utilized by the Research Guide) for the conduction of the research activity. After



four years, the renewal of the recognition will continue by payment of Rs. 1 lakh per year. Further, the industry should try to get recognition for their R and D set up from DSIR, based on the recommendation of the ICT appointed Committee.

4. During a year, an industry may nominate up to two employees (with required qualification) for registering for the doctoral degree at ICT under the supervision of ICT faculty.
5. The candidate is required to pay all the Ph.D. fees (over and above laboratory eligibility fees) as proposed by the ICT at appropriate time and will not be eligible for any fellowship. Also, the other requirements, like eligibility criteria, qualifying institutional tests (score is valid for two years for Industry -sponsored candidates), completion of course work, etc. need to be fulfilled by the industry candidate.
6. The candidates will have to submit affidavit as given in **ANNEXURE 3**

### **3.4.3.1(E) RULES AND ELIGIBILITY CRITERIA FOR ADMISSION TO DIRECT Ph.D. (Tech.)**

Institute of Chemical Technology (ICT) has a proven track record in training high quality manpower and in conducting research in Chemical Engineering, Chemical Technology, Pharmacy and Allied sciences. In view of the need of attracting talented graduates to Research career in Engineering and Technology, and for enhancing the number of quality Ph.D.s, ICT has initiated a programme of Direct Ph.D. (Tech.) in Chemical Engineering, Chemical Technology. This programme is not available for Direct Ph. D. (Tech.) in Pharmacy.

The Direct Ph.D. (Tech.) Degree Programme is designed to identify candidates with strong potential for a career in Research and to Develop Human resources for the India's future needs in Chemical Engineering and Chemical Technology. The programme has the following objectives:

- (i) To provide avenues for Doctoral degrees to candidates with talent and aptitude for carrying out advanced research and development activities in Technology.
- (ii) To furnish a multidisciplinary, flexible and innovative Doctoral research programme with special emphasis on
  - (a) Acquisition of proficiency in research, knowledge, data generation and analysis, mathematical modelling, and management with sharpening skills in innovative experimental methods and problem-solving capabilities.
  - (b) Creation of a pool of young talented, dedicated and committed individuals with passion and involvement in pursuing research and development as a career.
  - (c) Inculcation of attitude, temper and outlook for developing social commitment as well as high level of scientific ethics and integrity.
- (iii) To disseminate the new knowledge in the form of publications, patents, theses, seminars and conferences. Efforts will also be made to help the society and the industry and hence the economy of the country.

#### **Selection of Candidates:**

- i. The candidate, applying for the Direct Ph.D. (Tech.) programme, must have a Bachelor's degree in Chemical Engineering or Chemical Technology with more than 65% marks or equivalent CGPA (60% marks or equivalent CGPA for candidates from reserved category) of ICT or from any accredited or AICTE recognized Engineering and Technology Institute. A valid GATE score is mandatory.

#### **Selection Process:**

- i. The candidates will be selected on the basis of an Institute level written test and an Interview.
- ii. The candidate must score a minimum of 50% in the written examination of the Institute to qualify for the interview.

- iii. The selection of the candidates shall be strictly on merit and on the basis of performance in the written test and interview conducted by the ICT.
- iv. The list of qualifying candidates will be prepared on the basis of marks in written test and Interviews in 70:30 ratio.

**Course Work and Registration for Direct Ph.D. (Tech.):**

- a) The registration of the candidate of Direct Ph.D. (Tech.) shall be initially for Master's degree in the same discipline until he/she completes the Course work.
- b) If CGPA of 7 is not achieved, the candidate will have to reappear for the exam. This is applicable for candidates admitted directly to the program and receiving NDF, national doctoral fellowship. Students will get the both degrees, master's as well as Ph.D. after completion of Ph.D. The candidates will have to complete the course work of Master's degree in the same discipline with a minimum CGPA of 7.0 before change of registration to Ph.D. (Tech.) degree. Since the programme has an objective of developing best human resources in Research, it is essential that the selection of the candidates is done with utmost care. They are also emphasized about successful completion of the course work.
- c) The candidate may be permitted to carry the credits of equivalent course, work of at least two semesters, if it is completed in IITs/NITs/HBNI, or any other reputed Government/AICTE recognized Institution that has signed an MoU with ICT for transfer of credits, provided as the course work is certified by the competent authority of that Institution. Such candidates may be exempted from taking the respective course work required for the Ph.D. (Tech.) programme. These candidates should be encouraged to take 4 audit courses related to their own research topic.
- d) Direct Ph.D. (Tech.) candidates shall first register for Master's degree and only after successful completion of course work for Master's and in the month of April of second year their registration will be changed to Doctoral degree. The certificate for completion of course work will be mandatory for this.
- e) The Registration and review of progress of these candidates will follow the same procedures as for other Ph.D. (Tech.) candidates registered in the Institute.
- f) Any candidate who completes the course work as specified above and completes minimum of 1 year of Research project will be awarded the Master's degree in respective discipline, if he/she wishes to discontinue further research or fails to acquire requisite CGPA of 7.0 in Master's programme.
- g) Candidate having poor performance in the Master's course work (as given above) will not be registered for Ph.D. (Tech.) degree and may be allowed to submit a thesis on the basis of one year of research work to get Master's degree.
- h) On successful completion of the entire programme the candidate will be awarded both the degrees, respective Master's and Ph.D. (Tech.)(Dual Degree) at the end of the programme.
- i) Direct Ph.D. (Tech.) INSPIRE fellows will be given master's fellowship till 31<sup>st</sup> March of the second year. They will be given Provisional master's degree certificate to become eligible for the Ph.D. (Tech.) fellowship from April, 01 of the second year.

**Course Work for Ph.D. (Tech.)/ Ph.D. (Sci.):**

As per the UGC directives and the Ph.D. reforms initiated at ICT, following are the rules governing the course work for a Ph.D. degree programme:

- 1. All candidates registered at ICT for the Ph.D. degree will have to complete the requisite course work, preferably within the 1st year of Ph.D. Program.
- 2. Every Ph.D. candidate is required to complete course work of 18 credits from post graduate level courses. It includes mandatory 4 credit course in research methodology and a 2 credit course in research and publication ethics.
- 4. All the course work must be completed before submission of synopsis for the thesis.

5. The selection of the credit courses will be by mutual consultation between the Candidate and the Research Supervisor.
6. The candidate can select any courses offered by ICT that he/ she had not undergone earlier at ICT or elsewhere, either as credit courses by filling up appropriate form.
7. The candidate may choose to take the courses at Institute(s) other than ICT, provided there is an MOU signed between the Institute and ICT for transfer of credits.
8. The candidate may take online MOOC courses with specific prior approval from research guide and Dean, Academic Programmes by filling up the appropriate form.

### 3.4.4 APPLICATION PROCEDURE FOR Ph.D. PROGRAMMES

For admissions at the ICT for any of the Ph.D. courses, a candidate should apply online for admission applications. (website <http://ictmumbai.edu.in>). Click on Apply online for Admission 2024-2025.

#### 3.4.4.1 ONLINE APPLICATION :

**To Fill the online application form below steps are required:**

##### **Step: 1 » Personal Information**

Date of birth, Mobile No, Address, Caste, Category Details, Scanned colour Photo (Must be less than 40 kb, format-.jpg/.jpeg).

##### **Step: 2 » Education details starting Xth, XIIth/ Diploma, Graduation (if applicable)**

Carefully select between options of Percent System or Grade System

Year of Passing of each degree should be carefully specified

Board of Examination decides the normalization factor, so specify correctly

##### **Step: 3 » Entrance Exam Details**

Select entrance exam in which you will appear

Enter Application Id, Mobile Number, Roll No, Enter Grade/ Percentage/ Percentile/ score/ Rank correctly

##### **Step: 4 and 5 » Upload Scanned Documents**

All mark sheets and certificates

Category/ caste document, migration, domicile certificate etc.

##### **Step: 6 » Payment details for admission form**

You can pay application form fee with online mode by using Credit/ Debit card or by Net Banking only.

After submitting the form, students can take a print of application form for their reference.

The candidate shall fill the appropriate application form/s, separate for each course of choice.

All the relevant entries in the application form must be completed. Incomplete forms will be rejected and no correspondence will be made in this regard.

**Writing contact details such as permanent address, address for correspondence, Mobile No./ Telephone No./ and email address in the application form is essential. Do not leave any space blank.**

The duly filled form along with ATTESTED PHOTOCOPIES of required certificates to substantiate the claims made in their application form should be submitted online. The Admission application fees once paid is non-refundable and non-transferable under any circumstances.

Incomplete applications shall be rejected without entering into any correspondence with the applicant.

The candidates seeking admission at the ICT must submit ATTESTED PHOTOCOPIES of all the documents as given in Table 3.4.4.3 below along with the application form.



Attachment of any certificates will not be accepted separately after submission of the application form.

The candidates belonging to the reserved categories will be required to submit The Caste Certificate, the Caste/ Tribe Validity Certificate as applicable at the time of submitting the application form, failing which the category claimed, will not be granted and the candidate will be treated as a General candidate.

The candidates shall not attach a copy of any other certificate which is not asked for, such as certificates for participation in sports, cultural activities, etc.

If the candidate produces any certificate, which is not in Marathi, Hindi or English language, authenticated Marathi, Hindi or English version of the same, duly attested by a Gazetted Officer shall also be produced.

For admissions at the ICT for all the Ph.D. Programmes, a candidate should fill appropriate application form(s) for the course to which he/she is seeking admission.

(Refer time schedule for each of the following stages displayed on ICT Notice Board and website [www.ictmumbai.edu.in](http://www.ictmumbai.edu.in)).

**TABLE 3.4.4.3: DOCUMENTS TO BE ATTACHED WITH THE APPLICATION FORM FOR Ph.D. ADMISSIONS**

Sr. No.	Type of Candidate	Attested true copies of documents to be attached along with application form
I	All Candidates	1. SSC (Std. X) marksheet
		2. HSC/HSSC (Std. XII) marksheet
		3. All marksheets of Bachelor's Course
		4. Bachelor's degree certificate
		5. All marksheets of Master's Course
		6. Master's degree certificate
		7. College Leaving/ Transfer certificate
		8. Gap certificate
II	Backward class Candidates belonging to SC/ ST Categories	Caste certificate, Caste/ Tribe Validity certificate, as applicable. (In addition to the documents mentioned in Sr. No. I)
III	Backward class Candidates belonging to VJ/ DT (NT(A))/ NT(B)/ NT(C)/ NT(D)/OBC/ SBC categories (Maharashtra State candidates only)	Caste certificate, Caste/ Tribe Validity certificate, Non Creamy Layer Certificate valid up to 31 <sup>st</sup> March 2024. (In addition to the documents mentioned in Sr. No. I)
IV	Backward Class Candidates belonging to OBC Category	Caste Certificate issued by Central Government

Candidates are requested to visit the institute website for a detail time table as well as updates for the same. List of the eligible candidates for written test will be displayed on the website. Only eligible candidates will be allowed to appear for the written exam. Depending upon the required number of candidates, institute reserves right to call specific number of candidates for interview. A merit list will be generated on the basis of written test.

### 3.4.5 RULES AND REGULATIONS ABOUT RESERVATION

Reservation in admission for SC/ST categories is applicable to all Ph.D. Programmes (all branches) as per the Maharashtra government norms (**APPLICABLE FOR WRITTEN TEST ONLY.**)

#### 3.4.5.1 CASTE CERTIFICATE AND CASTE/ TRIBE VALIDITY CERTIFICATE.

- a) Caste Certificate: The candidates belonging to the backward class categories will be required to submit the Caste Certificate at the time of admission, failing which the category claimed will not be granted and the candidate will be treated as a General Candidate.
- b) Caste Validity Certificate: The candidates belonging to the SC/ST category will be required to submit the Caste/Tribe Validity Certificate at the time of admission, failing which the category claimed will not be granted and the candidate will be treated as a General Candidate.

### 3.4.6 FEES, CONCESSIONS, CANCELLATIONS AND REFUND

#### 3.4.6.1 FEES PRESCRIBED:

**Fee structure for Ph.D. Programmes at ICT for the academic year 2024-25**

Sr. No.	Details	Fee for 1 <sup>st</sup> Year (Rs.)
1.	Library Deposit	5,000/-
2.	Fees	50,000/-
3.	Other Fees	40,000/- (Including Contingency)
	TOTAL	95,000/-

Fees: Second Year Onwards Rs. 1,03,000/- p.a.

**\*Note: Contingency amount for Ph.D. Students admitted under various fellowships will be as per the norms of respective sponsoring funding agencies. These are only indicative figures and likely to be changed.**

**Notes :**

- a) For confirmation of seat allotted, all candidates have to submit Demand Draft/ Pay Order in favour of 'Institute of Chemical Technology, Mumbai', payable at Mumbai, of appropriate values as shown in above TABLE.
- b) Hostel Fees shall be charged additionally in case of candidates opting for hostel accommodation (the details are given in Section on Hostels).
- c) Vide letters no. जा.क्रं./स.आ.स.क/मु.श./व्या.प.आ./अ.जा.फ्रि.स्कॉ/2015-16@5012 dated 17th August, 2015 received from Assistant Commissioner, Social Welfare Department, Mumbai city and जा.क्रं./सकआ/शिक्षण/रतंसं/2015-16 nwUo 2164 dated 11th August, 2015 received from Joint Director, Social Welfare Department, Pune, "All reserved category students for Master and Ph.D. who are getting any fellowship are not entitled to get Freeship/Scholarship from Government of Maharashtra."

#### 3.4.6.2 LIBRARY DEPOSIT

Library deposit received from the students shall be refunded after successful completion of the course or after cancelling the admission, subject to producing Original Receipt. Unless there is any recovery, no deduction shall be made from the Library deposit. However, the amount of Library deposit shall be credited to institute, if the candidate does not apply for refund, within 3 complete financial years after the student actually leaves the institution; or, within 3 complete financial years after the date of successful completion of the programme, whichever is earlier.

#### 3.4.6.3 REIMBURSEMENT OF TUITION FEE:

Candidates claiming concession under the categories of EBC and sons and daughters for teaching and non-teaching staff of primary, secondary and higher secondary schools shall pay entire fee as applicable at the time of admission and subsequently candidates have to apply to the respective authorities for reimbursement of tuition fees. The quantum of reimbursement received by the institute from the concerned authorities shall be disbursed to the candidate.

#### 3.4.6.4 CANCELLATION OF ADMISSION AND REFUND OF FEES:

Refund of tuition fee, development and other fees after cancellation of admission secured at ICT. Candidate who has been admitted to ICT may cancel admission by submitting an application in duplicate, in the prescribed Pro forma - E and request for refund of fees. The refund of fees as applicable shall be made in due course of time. It is made clear that such application for cancellations will be considered if and only if the admission has been confirmed by paying the prescribed tuition fee and other fees in full and by submitting all the necessary original documents. Refund shall be made after deduction of cancellation charges as shown below -

SR. NO.	SITUATION	REFUND
1	Request received within 15 days from the Date of Admission	Entire fee less Rs.1000/-
2	Request received between 16-30 days from the Date of Admission	Entire fee less one month fees

No refund after 30 days.

ALL RIGHTS REGARDING THE ADMISSIONS AT THE ICT ARE RESERVED WITH THE VICE CHANCELLOR, ICT.

### 3.5.1 TWO-YEAR MASTER OF BUSINESS ADMINISTRATION (MBA) IN INNOVATION, ENTREPRENEURSHIP AND VENTURE DEVELOPMENT

#### Introduction

The Institute is offering a master's programme in Innovation and Entrepreneurship from Academic Year 2024-25, in line with the All-India Council for Technical Education (AICTE) recommendation. The programme is called Master of Business Administration in Innovation, Entrepreneurship and Venture Development (MBA IEV). This is a two-year programme consisting of four semesters. All the courses will be credit based and the evaluation will be grade based.

The course is being introduced with the following Program Outcomes –

1. The graduates will learn management of innovation, entrepreneurship and venture development from foundation to advanced stages.
2. The graduates will learn to apply their entrepreneurial skills in real life situations.
3. The graduates will be able to validate ideas, build innovations, identify markets and build successful ventures.

The Program Specific Outcomes include –

1. Graduates will be equipped with key concepts of entrepreneurship, innovation and new venture development.
2. Graduates will know how to take an idea, build a prototype, and launch in the market.
3. Graduates will be able to demonstrate how to market an idea/prototype which is already launched.
4. Graduates will be imparted all-round training to start their own business ventures.

#### Course Objectives:

**Nurturing Technocrats:** Train the next generation of technocrats to harness the power of technology, innovation, and enterprise.

**Leading Change:** Equip students to lead change effectively in their respective fields.

**Delivering Impact:** Focus on creating measurable impacts, particularly through projects and initiatives that demonstrate real-world applications of learned skills.

**Social Entrepreneurship:** Special emphasis on developing business models that contribute to social change and benefit society at large.

#### Program Highlights:

**Duration:** Two years, full-time.



**Curriculum:** Designed in accordance with AICTE guidelines, blending theoretical knowledge with practical application (Capstone Projects, Action Learning Segments)

**Learning Modules:** Include Technology Management, Venture Creation, Financial Management in New Ventures, Social Impact Strategy, Corporate Law, Business Management, Social Immersion, etc.

**Hands-On Experience:** Opportunities for Start-up/Incubation Residency, Venture Establishment at ICT-NICE Venture Incubator and Foundation, etc..

**Mentorship:** Access to a network of industry leaders, academic experts, and entrepreneurs.

**Career Opportunities:** Preparation for roles such as Technology Manager, Innovation Lead, Entrepreneur, Venture Developer, Social Impact Consultant, etc.

**Eligibility criteria:** Graduate in Engineering /Technology streams  
Successfully Qualified MAH MBA CET 2024 Test

### 3.5.2 POSTGRADUATE DIPLOMA IN CHEMICAL TECHNOLOGY MANAGEMENT

The ICT has a rich tradition of first generation entrepreneurs as its graduates. In order to groom our Ph.D. students into etiquettes of business management, a certificate course in Chemical Technology was started for the ICT students. This popular course is now converted into a PG Diploma Chemical Technology Management to give Ph.D. research students and industry personnel, an orientation in business and technology management of chemical industry and to sharpen entrepreneurship skills.

The course covers topics such as Chemical Technology Management, Product/Process Design and Development, Finance Management, Marketing management, Intellectual Property Rights (IPR) and other laws, Communication, HRD, Project Management, Team and Organization Management.

The course is run with the assistance of the UDCT Alumni Association, with several alumni and other experts from within and outside ICT, having vast experience. This is a one and a half year programme conducted on Saturdays and Sundays. The course commences in January, every year and the admission procedure may commence from October, every year (see website [www.ictmumbai.edu.in](http://www.ictmumbai.edu.in)).

Type No.	ELIGIBILITY AND TYPE OF CANDIDATE	SEATS
1.	Candidates registered for Ph.D. (Tech.)/ Ph.D. (Sci.) in ICT, and have spent at least a year in their Ph.D. programme	10
2.	Candidates registered for Ph.D. (Tech.)/ Ph.D. (Sci.) in any other University/ Institute of repute, and have spent at least a year in their Ph.D. programme	10
3.	Industry- sponsored candidates working for not less than 3 years, having Master's degree in Chemical Technology/ Chemical Engineering/ Science/ Pharmacy/ Mathematics or any other equivalent course	10

Admission will be conducted on the basis of written test and interview (equal weightage).

In case the candidates from a particular type are not available, the seats may be transferred to other type of candidature on the basis of merit. Fees once paid shall not be refunded.

The **Postgraduate Diploma in Chemical Technology Management** (30 seats) is meant for candidates registered for Doctoral degree from the ICT or other institutes/Universities as well as for industry personnel.

PG Diploma in Chemical Technology Management	
Ph.D.- Registered Candidates	Industry Sponsored Candidates
Rs. 15,000/-	Rs. 45,000/-

All Rights regarding the admissions at the ICT are reserved with the Vice Chancellor, ICT.

### 3.5.3 CERTIFICATE COURSE IN SAFETY AND RISK MANAGEMENT

This course is designed for all post-graduate researchers in Engineering, Technology and Pharmacy in the Institute of Chemical Technology. It is also suitable for young professionals employed by the chemical and allied industries. It was started in 2015 for the benefit of the student community. Lectures are held in every semester on Saturdays only. Four eminent visiting faculty from industry /research / academia teach this course: Dr. L. M. Gantayet, Mr. Vijay Bhujle, Dr. S. A. Nadgouda and Prof. Kiran Kondabagil.

This course is subdivided into two levels: I (Basic) and II (Advanced). Basic Level I is mandatory in the first year, whereas Advanced Level II is optional. Students who score 80% or above in the Level I examination are eligible to study for Level 2.

At the Basic level, the topics taught are: Introduction to Safety and Risk Management; Material hazard - GHS MSD - physical hazard, toxic hazard and eco-toxicity; PSM elements; Hazard Evaluation Techniques – What-If, Checklist, HAZOP, FEMA; Hazard identification and assessment (Basic); Flammability and fire safety-extinguishers; SHE regulations in India-Factories act, water and environment act; Human elements in safety-behaviour safety; Laboratory safety; Basic OSH; Compliance to statutory safety audits; Biosafety.

Topics taught at the Advanced level are: Plant layout based on process safety & fire safety-fire hydrant system design; Management Practice in SHE in Plant Operation; Hazard assessment (Process safety, thermal safety, dust explosion); Safety in utilities; Storage, handling and transportation of hazardous substances; Environmental Impact Assessment; Emergency response plan. In the end, students will present a case study on relevant topics.

**Eligible students will be awarded certificates upon course completion.**

## 3.6 EXAMINATION PATTERN

### 3.6.1 SEMESTER EXAMINATIONS

#### 3.6.1.1 EXAMINATION SCHEDULE:

All the courses at Bachelor's and Master's level are Semesterised and credit based from 2009-10. There is a continuous evaluation of the students on grade basis through internal assessment. For B.Chem.Engg./ B.Pharm./ B.Tech./ M.Chem.Engg./ M.Pharm./ M.Tech./ M.E.(Plastic Engg.)/ M.Sc. (by papers), the Odd semester (Semester-I, III, V and VII) examinations shall be held in the month of December/ January and Even. Semester (Semester-II, IV, VI and VIII) examinations in the month of April/May every year.

Students are advised to read the Regulation R-9, given below, carefully.

#### 3.6.1.2 APPLICATION FORMS:

The application form for appearing the examination/s, must be submitted to the Accounts Section along with prescribed fees before the specified dates, which are notified well in advance on the ICT Notice Board. Examination forms will be accepted after the last date only up to one week with late fees. Thereafter, it is not obligatory for the institute to accept the forms.

#### 3.6.1.3

No examination form shall be accepted unless the examination fee is fully paid in cash.

#### 3.6.1.4

Master's courses (Regular 2 years) have theory courses in Semester-I and II.

#### 3.6.1.5

Students will have to follow the same procedure of applying for admission to the examination in the subjects selected by them for credit courses during the respective examination schedule.

Doctoral students are therefore required to submit the list of their choice of Credit and Audit courses with clear mention of course, semester and subject code within 15 days of their admission to the Academic Office. The form may be downloaded from ICT intranet.

Candidate can apply for change of credit/ audit course(s) through his/her Ph. D. supervisor and the Head of the Department to Dean (AP) within the first two weeks of start of academic session. Decision taken by Dean (AP) will be binding on student.

### **3.6.1.6 REPEAT SEMESTER EXAMINATIONS (REGULATION R-14):**

To provide an avenue to improve the performance of the students, a provision of repeat semester examination is made. These examinations for Bachelor's and Master's courses are generally held within a month after declaration of the results of regular semester examinations. Those who want to take repeat examinations should apply for the same with the necessary fee in a stipulated period; notice for the same shall be displayed on the ICT Notice Board.

### **3.6.1.7**

There is a provision of amendment of result of an examination (Regulation R-13). For these, separate applications should be submitted to the office within the prescribed time.

### **3.6.1.8**

The students undergoing theory courses at all levels (UG, Master's and Ph.D.) may please note that a provision exists for them to see their assessed answer books for Continuous Evaluations, Mid-Semester and Final Semester examinations. They may discuss their marks obtained with the concerned teacher within 3 days after a notice is put up by the teacher displaying the marks awarded, with prior appointment at the convenience of the teacher.

## **3.6.2 REGULATION RELEVANT TO EXAMINATION**

### **R.9 Credit System and Mode of evaluation**

#### **1. Introduction**

All the courses at ICT are credit based and the evaluation is grade based.

Credit system is a systematic way of describing an educational programme by attaching credits to its components. The definition of credits may be based on different parameters, such as student workload, learning outcomes and contact hours. It is a student-centric system based on the student workload required to achieve the objectives of a programme. It should facilitate academic recognition of the courses and mobility of the students. Credits assignment is based on the principle that Credits can only be obtained after successful completion of the work required and appropriate assessment of the learning outcomes achieved. As per the AICTE norms 2L/ week of lectures are 2 credits, while 2h/week of practicals/tutorials are 1 credit. This may be taken as the basis.

Student workload consists of the time required to complete all prescribed learning activities such as attendance at lectures/practicals, seminars, projects, etc. Credits are allocated to all the educational components of a study programme and indicate the quantity of work each component requires to achieve its specific objectives.

Evaluation is an important component of any teaching-learning process. The Institute gives emphasis on continuous evaluation with considerable freedom to the teacher in deciding the mode of evaluation of the students. The performance of the student is documented by a grade at the end of the semester. The grading scale ranks the students on a statistical basis. Therefore, statistical data on student performance is a prerequisite for applying the grading system.

#### **2. Course Credits**

In general a certain quantum of work measured in terms of credits is laid down as the requirement for a particular degree. The student acquires credits by passing courses every semester, the amount



of credit associated with a course being dependent upon the number of hours of instruction per week in that course.

There are mainly two types of courses in the Institute - lecture courses and laboratory courses. Lecture courses consist of lecture (L) and tutorial (T) hours. Laboratory courses consist of practical (P) hours. The credit (C) for a course is dependent on the number of hours of instruction per week in that course, as given below:

- (1) 1h/week of lecture (L) or tutorial (T) = 1 credit
- (2) 2h/week of Practicals (P) = 1 credit
- (3) Credit (C) for a theory course = No. of hours of lectures per week + No. of hours of tutorials per week = L + T
- (4) Credits (C) for a Laboratory course =  $\frac{1}{2} \times$  No. of hours of laboratory course per week

Credits will be assigned to In-plant, Seminar, Projects and other mandatory course requirements also and these will be mentioned in the respective syllabi. There may be some non-credit requirements. A student is required to earn credits as mentioned in the syllabus.

### 3. Evaluation

#### 3.1 Weightages of different modes of assessments shall be as under.

##### Credit System and Mode of Evaluation\*

	In-Semester evaluation		End-Semester-Exam	Components of continuous mode
	Continuous mode	Mid Semester-Exam		
Theory	20%	30%	50%	Quizzes, class tests (open or closed book), home assignments, group assignments, viva voce assignments, discussions
Practicals	50%	-	50%	Attendance, viva -voce, journal, assignments, project, experiments, tests

\* Subject to change

#### 3.2 In-Semester Evaluation:

- a. It is expected that the teacher would conduct at least two assessments under the continuous mode in a Semester.
- b. The teacher will announce at the beginning of the respective course the method of conducting the tests under the continuous mode and the assignment of marks
- c. In-semester performance of all students should be displayed and sent to the academic office by the teacher at least 15 days before the end-semester examination.
- d. For the theory courses, there will be one mid-semester test for each course to be held as per the schedule fixed in the Academic Calendar.
- e. For mid -semester examinations in theory papers, duration of examination will be 1 hour for 3 credit courses and 2 hours for 4 credit courses.

#### 3.3 End-Semester examination:

- a. The End- semester examination will cover the full syllabus of the course and will be conducted as per the Institutional time table at the end of each semester.
- b. For End- semester examinations in theory papers, duration of examination will be 1 hour for 3 credit courses and 2 hours for 4 credit courses

#### 3.4 Passes and Failures

- a. The candidates who obtain 40% and more marks of the total marks of a subject head shall

be deemed to have passed the respective subject head.

- b. The candidates who obtain marks less than 40% of the total marks of a subject head shall be deemed to have failed in the respective subject head (Grade FF).

### 3.5 Grades:

- a. The performance of a student shall be documented by a Letter grade. Each letter grade has a Grade point associated with it. The Grades and Grade points shall be assigned to each head of passing and both will be indicated in the mark-list of the semester examination.
- b. The total marks (in-semester + end-semester) of a candidate in a subject head are converted into a letter grade, based on the relative (and sometimes the absolute) performance of the student.

Letter Grade	Grade Point
AA	10
AB	9
BB	8
BC	7
CC	6.5
CD	6
DD	5.5
EE	5

- c. In view of our elite status 6 out of 10 CGPA will be first class. Thus (CGPA x 10) formula will be used to calculate % and class Repeat examination in Practicals subject is permitted to the students in the following cases:
  1. Candidate has obtained 50% marks in Continuous Assessment and appeared for regular End semester practical examination and Failed. (Continuous Assessment here means attendance, submission and evaluation of journals, assignments).
  2. Candidate has obtained 50% marks in Continuous Assessment and could not appear for regular End Semester practical examination due to valid Medical reason and or family bereavement. (Continuous Assessment here means attendance, submission and evaluation of journals, assignments).
  3. The candidates not fulfilling above two criteria will be given year drop.  
Distinction, (70%)  
First Class (60-69.99)  
Second Class (50-59.99)  
will be used like old ICT cut-out marks.
- d. The grades to be allotted in the case of students who fail or do not appear at the end-semester examination shall be as under.

Letter Grade	Grade Point	Explanation
FF	0	The candidate fails in subject head. The candidate will be allowed to take end-semester repeat or subsequent examinations as per rule.
XX		The candidate has not kept term for the subject head due to attendance less than requisite. Further see 3.5(h) below. In the above cases, the candidate has to repeat the respective course by paying the fees.

Letter Grade	Grade Point	Explanation
I	0	The candidate has kept term for the subject head, has taken all the internal examinations with satisfactory performance, but has failed to take the end-semester examination or repeat examination due to genuine reasons. The candidate will be allowed to take end-semester repeat or subsequent examinations as per rule.
FR	0	The candidate has exhausted all the permissible chances to clear the end semester examinations. The candidate has to register for the respective semester again for all the subject heads or will be out of the respective degree course as per the rules.
DR	0	(i) The candidate hasn't participated in academic programme. (ii) The candidate has taken a drop for the subject head; - provided he/she intimates the same (i or ii) at least 7 days in advance of the commencement of the end-semester examination for the respective year.

- e. Grades FF and I are place-holders only and do not enter into CPI/SPI calculations directly. These grades get converted to one of the regular grades after the end-semester examination.
- f. A candidate with an FR grade is not eligible for any repeat examination in that course and has to re-register for that semester by paying the appropriate fees.
- g. The grade I will not be continued beyond the permissible number of end-semester/repeat examinations [Refer to current Regulation R.9 (9) and R.9 (10)]. In the six consecutive exams conducted by the institute, irrespective of whether the candidate fails to take any of these exams.
- h. 'XX' Grade: The grade XX in a course is awarded if - (i) candidate does not maintain the minimum 75% attendance in the Lecture/Tutorial/Practical classes, (ii) candidate receives less than 20% of the combined marks assigned for continuous assessment and mid-semester examination, and (iii) candidate indulges in a misconduct/uses unfair means in the examination, assignments, etc., of a nature serious enough to invite disciplinary action in the opinion of the teacher.  
(Note: Award of the XX grade in the case of h (iii) above shall be done by Disciplinary Action Committee (DAC)).
- i. The names/roll numbers of students to be awarded the XX grade should be communicated by the teacher to the Academic office as per academic calendar before the last date of submission of the application for end-semester examination.

### 3.6 Awarding the Grades

The grading scale ranks the students statistically on the basis of the overall performance of the students of a given class in the given subject head. Therefore, statistical data on students' performance is a prerequisite for applying the grading system. While assigning grades in a given subject head, it is essential to know the average marks (AM) obtained by the students who have passed the subject head and the highest marks (HM) obtained in the same subject head.

1. If the average marks (AM) obtained by the students who have passed the subject head is <60%, the interval AM shall be awarded grade CC and the other grades shall be decided as follows:
  - i. AA, AB, BB, and BC grades shall be decided between the AM and HM by dividing the range in equal intervals.
  - ii. CD, DD and EE grades shall be decided between the AM and minimum marks required for passing the head (i.e. 40%) by dividing the range in equal intervals.



2. If the average marks (AM) obtained by the students who have passed the subject head is such that  $60\% \leq AM < 70\%$ , the interval AM shall be awarded grade BC and the other grades shall be decided as follows:
  - i. AA, AB, BB grades shall be decided between the AM and HM by dividing the range in equal intervals.
  - ii. CC, CD, DD and EE grades shall be decided between the AM and minimum marks required for passing the head (i.e. 40%) by dividing the range in equal intervals.
3. If the average marks (AM) obtained by the students who have passed the subject head is  $\geq 70\%$ , the interval AM shall be awarded grade BB and the other grades shall be decided as follows:
  - i. AA and AB
  - ii. BC, CC, CD, DD and EE grades shall be decided between the AM and minimum marks required for passing the head (i.e. 40%) by dividing the range in equal intervals.
4. SPI and CPI
  - a) Semester Performance Index (SPI): The performance of a student in a semester is indicated by Semester Performance Index (SPI), which is a weighted average of the grade points obtained in all the courses taken by the student in the semester and scaled to a maximum of 10. (SPI is to be calculated up to two decimal places.)  
 A Semester Grade Point Average (SGPA) will be computed for each semester as follows:  
 Where  
 'n' is the number of subjects for the semester,  
 'ci' is the number of credits allotted to a particular subject, and  
 'gi' is the grade-points awarded to the student for the subject based on his performance as per the above table.  
 SGPA will be rounded off to the second place of decimal and recorded as such.
  - b) Cumulative Performance Index (CPI): An up to date assessment of the overall performance of a student from the time he entered the Institute is obtained by calculating Cumulative Performance Index (CPI) of a student. The CPI is weighted average of the grade points obtained in all the courses registered by the student since he entered the Institute. CPI is also calculated at the end of every semester (upto two decimal places).  
 Starting from the first semester at the end of each semester (S), a Cumulative Grade Point Average (CGPA) will be computed as follows:  
 Where  
 'm' is the total number of subjects from the first semester onwards up to and including the semester S,  
 'ci' is the number of credits allotted to a particular subject, and  
 'gi' is the grade-points awarded to the student for the subject based on his performance as per the above table.  
 CGPA will be rounded off to the second place of decimal and recorded as such.
  - c) The CGPA, SGPA and the grades obtained in all the subjects in a semester will be communicated to every student at the end of every semester/ beginning of the next semester.
  - d) When a student gets the grade 'FF' or 'I' in any subject head during a semester, the SGPA and CGPA from that semester onwards will be tentatively calculated, taking only 'zero' grade point for each such 'FF' or 'I' grade. When the 'FF' grade(s) has/

have been substituted by better grades after the repeat examination or subsequent semester examination, the SGPA and CGPA will be recomputed and recorded.

5. Repeat End-Semester Examination

- 5.1 For those candidates who fail in a subject head or are eligible for appearing at the repeat examination, Repeat End-Semester Examination will be conducted within one month from the declaration of the results of regular end-semester examination, as per Regulation R.14.
- 5.2 The marks obtained by candidates in the in-semester examinations (continuous assessment and periodic test) will be carried forward in such cases.
- 5.3 Grading the performance in the Repeat Examination: The grades will be assigned as per 3.5 and 3.6 above. However, for a candidate taking any repeat examination or subsequent regular semester examination or performance improvement examination shall be awarded one grade lower than that decided on the basis of the actual marks obtained; provided 'EE' grade obtained in such an examination shall remain 'EE'. For reference see the table below.

Grade obtained in repeat or subsequent end-semester examination	Grade to be assigned	Grade point
AA	AB	9.0
AB	BB	8.0
BB	BC	7.0
BC	CC	6.5
CC	CD	6.0
CD	DD	5.5
DD	EE	5.0
EE	EE	5.0

- 5.4 End-semester and repeat examination: Candidate's performance in these examinations will be displayed on proper notice board and after 3 days of such display the marks will be sent to the Academic Office. No revaluation of these examinations will be allowed.

6. Passing of a Semester examination

A candidate shall be declared as 'PASSED' any semester examination if he/she has

- a. Cleared all heads of passing by securing grades EE or higher in all the heads;
- b. Passed all the heads of passing such as project, seminar, training, etc as per the rules;
- c. Satisfactorily completed all the mandatory requirements of the course;
- d. Paid all the Institute dues;
- e. No case of indiscipline pending against him/her.

7. Eligibility for the Award of a Degree

A candidate shall be declared eligible for the award of a degree, if he/she has cleared all the semester examinations as given in (6) above.

8. Allowed to keep terms (ATKT)

- 8.1 A candidate who has I grade in one or more heads of passing of an odd semester of an academic year shall be allowed to keep terms for the respective even semester.
- 8.2 A candidate shall be allowed to keep terms for the subsequent academic year if he/she has FF or I grades in not more than two heads of passing from all the heads of passing of the two terms of the previous academic year taken together. Such a candidate shall be declared as FAILED, ATKT.
- 8.3 A candidate who has not cleared Semester-I and II as per clause 6 above shall not be eligible to register for semester-V and VI.

- 8.4 A candidate who has not cleared Semester-III and IV as per clause 6 above shall not be eligible to register for semester-VII and VIII
9. Repeating a course
  - 9.1 A student is required to repeat the course of a subject head under the following situations:
    - (a) A student who gets an XX, FR, or DR grade in a course; or
    - (b) A student has exhausted all permissible chances to clear the subject head.
  - 9.2 A candidate from second, third and fourth years who remains absent for the regular end-semester examination of a semester and the corresponding repeat examination for ALL SUBJECTS shall have to take fresh admission for the corresponding year; unless the candidate has dropped out/ terminated from the course.
  - 9.3 If a candidate at the Second, Third or Fourth year fails to pass any semester examination in not more than 4 consecutive examinations, including the repeat examinations, from the date of registering for the respective year, the candidate shall have to take readmission for the corresponding year again in which the failure has occurred, provided the course is not changed.
10. Improvement of performance
 

A candidate will be allowed to appear at the entire examination after the regular end-semester examination as per the respective rules to improve the performance. In such a case if the result of the examination repeated -

  1. Is better than the previous one, the previous result shall be declared null and void; and
  2. Is worse than the previous one, the result of the subsequent examination shall not be declared.
  3. However, awarding of final grade will be made under the provision of sub clause 5.3 above.
11. Exit Rules for poorly performing students
 

A candidate shall be excluded from a course under the following conditions:

  - a. If he/she does not keep two consecutive terms without giving any reasonable justification (as prescribed by the institute) for doing so.
  - b. If he/ she fails to fulfill all the requirements of his/her respective degree within the prescribed period from the date of taking admission to the course.
12. Miscellaneous
  - c. Although CPI will be given in the Semester grade report, the final degree certificate will not mention any Class whatsoever.
  - d. Notwithstanding anything said above, if a course is revised/restructured then transient provisions applicable at the time of revision/restructuring shall be applicable.

### 3.6.3 REGULATION R-13 (AMENDMENT OF RESULTS)

In rare cases the result of a candidate might be wrongly represented due to errors inadvertently committed by the persons involved in the preparation of the results. Such a wrong representation is also possible due to intentional tampering with the results. The regulations below are meant for correcting the results under such conditions, when revealed.

- (A) Amendment of result with errors
  - (1) In case where it is found that the result of an examination has been affected by errors, the Controller of Examination shall have the power to amend such result in such a manner as shall be in accordance with the true position and to make such declaration as is necessary,



with the necessary approval of the Dean (Academic Programmes), Provided the errors are reported/detected within 6 months from the date of declaration of results. Errors detected thereafter shall be placed before the UGPC or PGPC, as the case may be.

- (2) Error means-
  - i) Error in computer/date entry, printing or programming and the like
  - ii) Clerical error, manual or machine, in totaling or entering of marks on ledger/register
  - iii) Error due to negligence or oversight of examiner or any other person connected with evaluation, moderation and result preparation.
- (B) Amendment of result affected by fraud, malpractices, etc.

In any case where the result of an examination has been ascertained and published and it is found that such result has been affected by any malpractices, fraud or any other improper conduct whereby an examinee has benefited and that such examinee, and in the opinion of the UGPC or PGPC, as the case may be, been party of privy to or connived at such malpractice, fraud or improper conduct, the UGPC or PGPC shall have the power at any time notwithstanding the issue of the Certificate or the award of a Prize or Scholarship, to amend the result of such examinee and to make such declaration as the UGPC or PGPC considers necessary.

### 3.6.4 REGULATION R-14 (REPEAT SEMESTER EXAMINATION)

Repeat semester examination is a special feature of the examinations at the Institute. It provides an avenue for the students, who do not perform well in the main semester examination. A repeat examination therefore should be conducted immediately after the main examination.

- (1) For each regular semester examination, one repeat semester examination shall be provided.
- (2) A repeat semester examination shall be equivalent in all respect to the corresponding regular semester examination.
- (3) A repeat semester examination should commence after 15 days from the date of declaration of the results of verification of marks; preferably within one month from the date of declaration of the semester examination results.
- (4) The time tables for the repeat examinations shall be put up immediately after the declaration of the results of the regular semester examinations.
- (5) The candidates who have failed, or have got ATKT, or have obtained less than 50% marks in one or more subject heads and desire to improve the performance may be permitted to appear at the repeat examination.
- (6) The last date of submission of application forms for the repeat examination shall be minimum two days after the declaration of the results of the verification of marks.
- (7) The rules for the conduct of the repeat examination shall be the same as the regular semester examination.
- (8) The result of a repeat examination of a candidate shall override the respective result of the regular examination.

#### Repeat Practical Examination

Repeat examination in practical subject is permitted to the students in the following cases:

- (1) Candidate has obtained 50 % marks in Continuous Assessment and appeared for regular End Semester practical examination and Failed. (Continuous Assessment here means attendance, submission and evaluation of journals, assignments).
- (2) Candidate has obtained 50 % marks in Continuous Assessment and could not appear for regular End Semester practical examination due to valid Medical reason and/ or family bereavement. (Continuous Assessment here means attendance, submission and evaluation of journals, assignments).
- (3) The candidates not fulfilling the above two criteria shall get a Year Drop.

### 3.6.5 WORK PRACTICE OR IN-PLANT TRAINING

The Regulations require that the B. Chem. Eng. and B.Tech. students work for at least twelve weeks, while the B. Pharm. Students work for at least four weeks, in approved industries at the end of the third year of the respective courses (i.e. at the end of the sixth semester) and to submit a satisfactory report to the Head of the department. The Heads of Department normally arrange for the placement of the students for the works practice.

### 3.6.6 MALPRACTICE AT THE EXAMINATION (REGULATION R-16)

Very strong action will be taken against students using, attempting to use, aiding, abetting, instigating or allowing using “unfair means” at the examination. This will be reported to the Unfair Means Inquiry Committee and the action taken by the Vice Chancellor shall be final.

## 3.7 ELIGIBILITY, ENROLLMENT AND TRANSFER/ LEAVING/ MIGRATION CERTIFICATES

(Applicable only to the candidates who have been offered seats)

### 3.7.1 TRANSFER CERTIFICATE

A student admitted to the ICT is required to submit within a month from the commencement of the term, a Transfer Certificate/ Leaving Certificate/ Migration Certificate from the Principal of the College last attended by him/ her.

### 3.7.2 PROVISIONAL STATEMENT OF ELIGIBILITY

No student from other University/ Board can be admitted to any of the ICT courses without submission of a “Provisional Statement of Eligibility” to be procured from the ICT office. An application for a provisional statement of eligibility may be made only when a student is informed that he/ she is allotted a seat in the ICT. However, candidates should keep all the necessary documents, such as statement of marks, passing certificate, migration certificate, etc., ready for obtaining the provisional statement of eligibility. The provisional eligibility will be confirmed only after due verification of the statement of marks and passing certificate from the candidate’s parent University/ Board. The charges levied by the parent University of the Student for this purpose will have to be borne by the concerned candidate. The information regarding equivalence of examinations may be obtained from the Assistant Registrar (Academic) of the ICT.

### IMPORTANT INSTRUCTIONS

The ICT does not recognize degrees from overseas Universities/ Boards, on a regular basis. However, candidates desirous of seeking admission to the ICT, on the basis of qualifications obtained in overseas Universities/Boards may be considered for the admission on the merits of each individual case. For this purpose, passing certificates, transcripts of record and a copy of the syllabus, containing the details of the courses of studies pursued in the various subjects at the examination passed by the applicant (duly countersigned by the High Commissioner of India in the country or the officer authorized by him) and standard of passing laid down at the examination should be forwarded to the office well in advance. In case the certificates or transcripts are in a language other than English, these certificates and the English translation of the same, duly certified by a competent authority, should be sent. The candidate should enclose all the permissions stipulated by the concerned Government Departments.

### 3.7.3 ENROLLMENT CERTIFICATE

The students admitted after passing the XII standard (HSC/HSSC) Examination are required to submit to the ICT the duly filled in enrollment form, along with a copy of Statement of Marks and the prescribed fee at the time of admission. The enrollment form can be obtained from the office of the ICT.

## 3.8 ACADEMIC YEAR, CODE OF CONDUCT AND DISCIPLINE

### 3.8.1 COMMENCEMENT OF ACADEMIC YEAR\*

The date of commencement of the first semester of the academic year 2024-2025 shall be as per academic calendar 2024-2025.

The academic calendar for all the Bachelor's and Master's courses is divided into two semesters.

### 3.8.2 ACADEMIC CALENDER 2024-25\*

INSTITUTE OF CHEMICAL TECHNOLOGY, MUMBAI				
ACADEMIC CALENDER 2024-2025				
			Start Date	End Date
A) ODD SEMESTER				
	UG1 (B Chem Engg), UG2a-g (B Tech 7 branches), UG3 (B Pharm)	Sem I*	Monday, August 19, 2024	Saturday, December 28, 2024
		Sem III	Monday, July 1, 2024	Saturday, November 23, 2024
		Sem V	Monday, July 1, 2024	Saturday, November 23, 2024
		Sem VII- IPT of 12 weeks	Wednesday, May 1, 2024	Monday, August 5, 2024
		Sem VII	Monday, August 12, 2024	Saturday, December 28, 2024
	PG1-14 & 19 (15 MTech Courses)	Sem I*	Monday, August 19, 2024	Saturday, December 28, 2024
		Sem III	Monday, July 1, 2024	Saturday, December 28, 2024
	PG15-18 (4 MSc)	Sem I*	Monday, August 19, 2024	Saturday, December 28, 2024
		Sem III	Monday, July 29, 2024	Saturday, December 28, 2024
Diwali Vacation: 28 October 2024 to 09 November 2024				
MID-SEMESTER EXAMINATIONS				
	UG1 (B Chem Engg), UG2a-g (B Tech 7 branches), UG3 (B Pharm)	Sem I*	Monday, October 14, 2024	Saturday, October 19, 2024
		Sem III	Friday, August 30, 2024	Friday, September 6, 2024
		Sem V	Friday, August 30, 2024	Friday, September 6, 2024
		Sem VII	Monday, October 14, 2024	Saturday, October 19, 2024
	PG1-14 & 19 (15 M Tech Courses)	Sem I*	Monday, October 14, 2024	Saturday, October 19, 2024
	PG15-18 (4 MSc)	Sem I*	Monday, October 14, 2024	Saturday, October 19, 2024
		Sem III	Monday, September 23, 2024	Saturday, September 28, 2024
END-SEMESTER EXAMINATIONS				
a) Theory				
	UG1 (B Chem Engg), UG2a-g (B Tech 7 branches), UG3 (B Pharm)	Sem I*	Monday, December 16, 2024	Saturday, December 21, 2024
		Sem III	Monday, November 18, 2024	Saturday, November 23, 2024
		Sem V	Monday, November 18, 2024	Saturday, November 23, 2024
		Sem VII	Monday, December 16, 2024	Saturday, December 21, 2024
	PG1-14 & 19 (15 M Tech Courses)	Sem I*	Monday, December 16, 2024	Saturday, December 21, 2024
	PG15-18 (4 MSc)	Sem I*	Monday, December 16, 2024	Saturday, December 21, 2024

	Sem III	Monday, December 16, 2024	Saturday, December 21, 2024
b) Practical including Projects			
UG1 (B Chem Engg), UG2a-g (B Tech 7 branches), UG3 (B Pharm)	Sem I*	Monday, December 23, 2024	Saturday, December 28, 2024
	Sem III	Monday, November 11, 2024	Saturday, November 16, 2024
	Sem V	Monday, November 11, 2024	Saturday, November 16, 2024
	Sem VII	Monday, December 23, 2024	Saturday, December 28, 2024
PG1-14 & 19 (15 M Tech Courses)	Sem I*	Monday, December 23, 2024	Saturday, December 28, 2024
	Sem III	Monday, December 16, 2024	Tuesday, December 31, 2024
PG15-18 (4 MSc)	Sem I*	Monday, December 23, 2024	Saturday, December 28, 2024
	Sem III	Monday, December 23, 2024	Saturday, December 28, 2024
c) Evaluation & Results			
		Within 28 Days after examinations	
<b>B) EVEN SEMSTER</b>			
UG1 (B Chem Engg), UG2a-g (B Tech 7 branches), UG3 (B Pharm)	Sem II*	Monday, December 30, 2024	Friday, May 9, 2025
	Sem IV	Monday, December 2, 2024	Wednesday, April 30, 2025
	Sem VI	Monday, December 2, 2024	Wednesday, April 30, 2025
	Sem VIII	Monday, January 13, 2025	Friday, May 9, 2025
PG1-14 & 19	Sem II*	Monday, January 6, 2025	Friday, May 9, 2025
	Sem IV	Wednesday, January 1, 2025	Monday, June 30, 2025
PG15-18 (4 MSc)	Sem II*	Monday, January 6, 2025	Friday, May 9, 2025
	Sem IV	Monday, January 6, 2025	Friday, May 9, 2025
<b>MID-SEMESTER EXAMINATIONS</b>			
UG1,UG2a-g, UG3	Sem II*	Monday, March 3, 2025	Saturday, March 8, 2025
	SemIV	Monday, February 10, 2025	Saturday, February 15, 2025
	Sem IV	Monday, February 10, 2025	Saturday, February 15, 2025
	Sem VI	Monday, February 10, 2025	Saturday, February 15, 2025
	Sem VIII	Monday, March 3, 2025	Friday, March 8, 2024
PG1-14 & 19 (15 M Tech Courses)	Sem II*	Monday, March 3, 2025	Saturday, March 8, 2025
PG15-18 (Msc)	Sem II	Monday, March 3, 2025	Saturday, March 8, 2025
	Sem IV	Monday, March 3, 2025	Saturday, March 8, 2025
<b>END-SEMESTER EXAMINATIONS</b>			
a) Theory			
UG1 (B Chem Engg), UG2a-g (B Tech 7 branches), UG3 (B Pharm)	Sem II*	Monday, April 28, 2025	Saturday, May 3, 2025
	SemIV	Monday, April 21, 2025	Wednesday, April 30, 2025
	Sem IV	Monday, April 21, 2025	Wednesday, April 30, 2025
	Sem VI	Monday, April 21, 2025	Wednesday, April 30, 2025
	Sem VIII	Monday, April 28, 2025	Saturday, May 3, 2025
PG1-14 & 19 (15 M Tech Courses)	Sem II*	Monday, April 28, 2025	Saturday, May 3, 2025
PG15-18 (4 MSc)	Sem II*	Monday, April 28, 2025	Saturday, May 3, 2025
	Sem IV	Monday, April 28, 2025	Saturday, May 3, 2025
b) Practical including Projects			



UG1 (B Chem Engg), UG2a-g (B Tech 7 branches), UG3 (B Pharm)	Sem II*	Monday, May 5, 2025	Friday, May 9, 2025
	SemIV	Tuesday, April 15, 2025	Saturday, April 19, 2025
	Sem IV	Tuesday, April 15, 2025	Saturday, April 19, 2025
	Sem VI	Tuesday, April 15, 2025	Saturday, April 19, 2025
	Sem VIII	Monday, May 5, 2025	Friday, May 9, 2025
PG1-14 & 19 (15 M Tech Courses)	Sem II*	Monday, May 5, 2025	Friday, May 9, 2025
	Sem II*	Monday, May 5, 2025	Friday, May 9, 2025
PG15-18 (4 MSc)	Sem IV	Monday, May 5, 2025	Friday, May 9, 2025
		Within 28 Days after examinations	
c) Evaluation & Results			
d) Student events and Non Academic Days (continues on following Saturday)			
1. Funtech - Day 1		Monday, Dec 30, 2024*	
2. Vortex Day 1		Thursday, Jan 23, 2025*	
3. Manzar Day 1		Friday, Feb21, 2025*	
4. Sports Saga Day1		Tuesday, March 11, 2025*	
* "Tentative"			
<b>SUMMER VACATION FOR FACULTY ONLY: 16 May 2025 till 30 June 2025</b>			

### 3.8.3 REQUIREMENT OF ATTENDANCE

The attention of the students is drawn to the Regulation R-1 regarding the attendance of the student and Grant of Term. Biometric attendance system is adopted for all classrooms and lectures are recorded. An auto-generated message is sent to the student and his/her registered parent/guardian at 9.00 pm if the student has missed any lecture. Thus, a record is available to ICT authorities on real time basis.

As per R-1(2), the minimum attendance necessary for granting a term (Semester) in each subject shall be minimum of 75% of the lectures and practicals, taken separately, out of the total number of lectures and practicals conducted in a semester. The students shall be deemed to have submitted the undertaking about the attendance after the admission has been secured at the ICT.

**Note:** Students are supposed to inform concern HOD, Dean (AP) and CoE, about their leave and the reason for absentee by letter or email. In case of illness student is suppose to inform authorities with in the first three days of illness (via email) and submit final medical certificate after joining the institute.

### 3.8.4 IDENTITY CARD

At the beginning of each academic year, a regular bonafide student is issued a smart Identity Card with his/her latest photograph printed it, on payment of the necessary charges. The students must wear the I-card while on campus. I-card is also necessary for appearing at all tests and examinations. If a student leaves the course halfway, after taking admission, he/she must surrender the I-Card in the Academic office.

### 3.8.5 WORKING HOURS

- Academic Timings: The academic working hours of the institute are between 8.30 a.m. to 5.30 p.m., with lunch break from 12.35 to 1.30 p.m.
- Office Hours:  
10.30 a.m. to 6.00 p.m., with lunch break from 1.15 to 1.45 p.m. - on all working days. Cash Counter: 11.00 a.m. to 1.15 p.m. and 1.45 p.m. to 4.00 p.m.

The office will remain closed on second and fourth Saturdays of a month, in addition to Sundays and public holidays.

### 3.8.6 GENERAL

The medium of instruction for all courses is English.

**Physical fitness:** The Vice Chancellor at his discretion may refer any candidate to the appropriate medical authority for ascertaining the physical fitness of the candidate to undergo the requirements of the course. The report of medical authority and the action taken by the Vice Chancellor shall be submitted to the Regional Head of Technical Education for information. It is to be noted that physically handicapped candidates are not provided with any additional facilities as far as the academic activities pertaining to the course is concerned.

The Vice Chancellor may verify the antecedents of any candidate through the appropriate police authority. The report received from police authority and the action taken by the Vice Chancellor shall be submitted to the Regional Head of Technical Education for information.

Not with standing anything contained in these Rules, if the Govt./ Institute takes any policy decision pertaining to F.Y. admissions, the same shall be brought in to effect at that point of time.

### 3.8.7 CONDUCT AND DISCIPLINE FOR ALL STUDENTS:

Students while studying at ICT, if found indulging in any anti-national activity contrary to the provisions of Acts and Laws enforced by Government or in any activity contrary to Rules of discipline, will be liable to be expelled from the Institute without any notice by the Vice Chancellor of the Institute.

**Action against ragging:** Maharashtra Prohibition of Ragging Act 1999 which is in effect from 15th May 1999 has the following provisions for Action against Ragging.

- a) Ragging within or outside of any educational institution is prohibited,
- b) Whosoever directly or indirectly commits, participates in, or propagates ragging within or outside any educational institution shall, on conviction, be punished with imprisonment for a term up to 2 years and/ or penalty, which may extend to ten thousand rupees.
- c) Any student convicted of an offence of ragging shall be dismissed from the educational institution and such student shall not be admitted in any other educational institution for a period of five years from the date of order of such dismissal.
- d) Whenever any student or, as the case may be, the parent or guardian or a teacher of an educational institution complains, in writing, of ragging to the head of the educational institution, the head of the educational institution shall, without prejudice to the foregoing provisions, within seven days of the receipt of the complaint, enquire into the matter mentioned in the complaint and if, prima facie, it is found true, suspend the student who is accused of the offence, and shall, immediately forward the complaint to the police station having jurisdiction over the area in which the educational institution is situated, for further action. Where, on enquiry by the head of the educational institution, it is found that there is no substance, prima facie, in the complaint received; he/ she shall intimate the fact, in writing, to the complainant. The decision of the head of the educational institution shall be final.
- e) If the head of the educational institution fails or neglects to act in the manner specified in section “d” above when a complaint of ragging is made, such person shall be deemed to have abetted the offence and shall, on conviction, be punished as provided for in section “b” above.

If any of the statement made in application form or any information supplied by the candidate in connection with his or her admission is later on at any time, found to be false or incorrect, his or her admission will be cancelled, fees forfeited and he or she may be expelled from the Institute by the Vice Chancellor.

**Note:** The orders issued by the Hon’ble Supreme Court/High Court/Government regarding Prohibition of Ragging Act, will be made applicable as and when issued. The same shall be binding on all concerned. **See detailed booklet appended in this Handbook.**

### 3.9 VARIOUS GOVERNMENT CONCESSIONS IN FEES AND THEIR REQUIREMENTS

Following are the category-wise/ concession-wise requirements to be fulfilled by the students at the time of admission to the ICT.

The various types of application forms will have to be procured by the students at the time of admission and the duly completed forms along with necessary documents **MUST BE SUBMITTED TO THE GENERAL OFFICE WITHIN FIFTEEN DAYS**, failing which, the ICT will not be held responsible for not getting the sanction of relevant concessions from the Govt.

#### A. Govt. of Maharashtra Freeship/ Govt. of India Scholarship

Reserved Category students from SC/ST/VJ/DT (A)/NT-B/NT-C/ NT-D/OBC/SBC can apply for Govt. of Maharashtra Freeship/ Govt. of India Scholarship.

##### RULES:

**Govt. of India Scholarship** - Annual Income limit for VJ/DT(A)/ NT-B/ NT-C/ NT-D/ OBC/ SBC students should be below Rs.1,50,000/- p.a. and for SC students below Rs. 2,50,000/- and for ST students below Rs.2,50,000/- p.a. to submit claim for Govt. of India Scholarship.

**Govt. of Maharashtra Freeship** - Annual Income limit for VJ/DT(A)/ NT-B/ NT-C/ NT-D/ OBC/ SBC students should be above Rs.1,00,000/- p.a. and for SC students above Rs. 2,00,000/- and for ST students above Rs.2,50,000/- p.a. to submit claim for Govt. of Maharashtra Freeship.

**All the rules issued by the Govt. will be applicable to Post Graduate Students with Fellowship have less/ no freeships.**

The Application Form should be filled up Online by the HSC/HSSC Board students. Such students should take out print of the filled form along with attested photocopies of the following documents and submit to the Academic Office (Scholarship section/Staff)). Students from other than HSC/ HSSC Board should fill up paper version of the application form.

1. Income Certificate of the parents for year 2023-24.  
For Freeship - Income Certificate of the parents for year 2023-24 from Tehasildar OR latest Form 16 A of the parents obtained from the employer.  
AND  
\*Non Creamy Layer Certificate for the current year (Only for VJ/DT(A)/NT-B/NT-C/ NT-D/ OBC/SBC, Not for SC/ ST) - valid up to 31<sup>st</sup> March 2024. (\* N. A. for Scholarships)  
For Scholarship - Income Certificate of the parents for year 2024-25 from Tehasildar.
2. For Fresh ST students other than Mumbai Board - Change of District Certificate (Zilla Badal Dakhala)
3. Caste Certificate - signed by Special Executive Magistrate.
4. Caste Validity Certificate
5. Ration Card
6. Mark sheet of the last annual examination passed.
7. Admission Fee receipt of 2024-25.
8. In case of GAP period in education GAP CERTIFICATE must be submitted.
9. Hosteller claiming Govt. of India Scholarship should submit Hostel Certificate for the academic year 2024-25.

#### B. Hostel Allowance

Reserved Category candidates of SC/ ST/ VJ-NT/ SBC categories, staying in Hostel and applying for Govt. of India Scholarship can apply for Hostel allowance online on E-Scholarship Website of Samaj Kalyan.

After admission to hostel, students should contact Academic Office.

The attested copies of the following documents should be attached with the Application Form.

1. Income Certificate of the parents for year 2023-24 from Tehasildar.
2. Caste Certificate - signed by Special Executive Magistrate.
3. Caste Validity Certificate.
4. Mark sheet of the last annual examination passed.
5. Admission Fee receipt of 2024-25.
6. Hostel Certificate and Hostel fee receipt for the academic year 2024-25.

**C. Govt. of Maharashtra Freeship to Sons and Daughters of Primary and Secondary School Teacher**

The Application Form, should be obtained from the Academic Office at the time of candidate's admission and attested photocopies of the following documents must be attached while submitting the claim form.

1. Service Certificate of parent should be countersigned by Education Inspector with Date of Retirement mentioned therein.
2. Ration Card.
3. Mark sheet of the last annual examination passed.
4. Admission Fee receipt for the academic year 2024-25.

**D. Freeship to Economically Backward Class (EBC) Students**

Income Limit for the EBC Students to claim this freeship is Rs. 1,00,000/- p.a.

The Application Form, should be obtained from the Academic Office at the time of candidate's admission and attested photocopies of the following documents must be attached while submitting the claim form.

1. Income Certificate of the parents for year 2023-24 from Tehasildar.
2. Ration Card.
3. Mark sheet of the last annual examination passed.
4. Admission Fee receipt for the academic year 2024-25.

**E. Freeship to Sons and Daughters of Ex-Servicemen**

The Application Form, should be obtained from the Academic Office at the time of candidate's admission and attested photocopies of the following documents must be attached while submitting the claim form.

1. Ex-Serviceman Certificate.
2. Ration Card.
3. Mark sheet of the last annual examination passed.
4. Admission Fee receipt for the academic year 2024-25.

**F. Merit-cum-Means Based Scholarship of Government of India**

Please visit <https://dte.maharashtra.gov.in/scholarship-for-students-of-minority-communities-pursuing-higher-and-professional-courses/> for relevant information. Contact Academic Office for further information and formalities.

**G. Government of Maharashtra Scholarship for the Minority Communities Students Pursuing Technical and Professional Education**

Please visit <https://dte.maharashtra.gov.in/scholarship-for-students-of-minority-communities-pursuing-higher-and-professional-courses/> for relevant information. Contact Academic Office for further information and formalities.





# INFRASTRUCTURE LIBRARY, HOSTELS, COUNSELLING



## 4.1 PROFESSOR M. M. SHARMA LIBRARY

### INTRODUCTION:

Established in the year 1934, Prof. M M Sharma Library functions as the central library of the institute and can be called one of the best special libraries in the country. It performs a dual role of an Academic Library as well as a Research Library, catering to the information needs of the in-house students and faculty, in particular, and, the academic and research community, in general. It is housed in a separate Ground Plus two-storied building and follows a completely open-access concept. It has a specialized collection in Chemical Engineering, Chemical Sciences, Chemical Technology and Pharmacy and its allied fields. The library can boast of rich heritage collection of old classic books and bound volumes dating back to 1930s. But along with the traditional collection it has a significant digital collection as well. Currently has access to more than 500 electronic journals. Has access to databases such as Reaxys, Sci-Finder, Scopus, Web of science, etc. The library is fully computerized using the library management software called Koha. It can be termed as a hybrid library with best collection of printed and digital documents. The library is also a member of E-Shodh Sindhu Consortium.

### LIBRARY TIMINGS:

On Working days : 8:30 a.m. – 8:30 p.m.

On 2<sup>nd</sup> and 4<sup>th</sup> Saturdays, Sundays and holidays : 11.00 a.m.– 6.00 p.m.

Throughout the year the library remains closed only on four days, viz. Independence day, Republic day, Ganesh Chaturthi, and Dassera.

### LIBRARY LAYOUT:

The Library is a ground plus two storied building. The layout is as follows:

First Floor	Book Collection and Circulation counter
Second Floor	Current Journals (latest issues), Reference Book Section, Theses Section, Book Bank Section
Ground Floor	Bound volumes (Back Issues) of Journals, Photocopying Section

### MEMBERSHIP:

The bonafide students and faculty of the institute have book lending facility. Book borrowing facility can be availed against ID card.

### LIBRARY PORTAL:

Library portal is hosted on the internet at <http://ictlibrary.firstray.in/>

### LIBRARY COLLECTION:

#### Printed Resources

##### • Books:

The library has a very rich collection of books. The spectrum of the book collection ranges from as old as dating back to 1930s to the latest. The collection has few rare and classic books which is regularly updated with the latest updated books in the area of Chemistry, Applied Chemistry, Chemical Technology, Chemical Engineering, Pharmacy, Energy and Environmental Engineering, Biotechnology, Food Technology and Fermentation, Polymer Science and Technology, Textile Science and Technology, Oils and Surfactants, Speciality Chemical Technology.

**Book Bank** collection is a special collection of Text Books which are issued to students for a longer period.

**Access:** Books can be searched through the computerized catalogue at

<http://ictlibrary.firstray.in/>

Also two terminals are available on every floor to search through the computerized catalogue.



- **Printed Journals:**

The library subscribes to a number of scholarly journals in different specialized areas from various renowned publishers like Elsevier, Wiley, Sage, Thieme, RSC, ACS, Springer, etc.

**Access:** Journals can be searched through the computerized catalogue at <http://ictlibrary.firstray.in/>. Also two terminals are available on every floor to search through the computerized catalogue.

- **Theses:**

A collection of all the Theses submitted by Ph.D. and Master's students are stored in the library and are available for reference to students.

**Access:** Theses can be searched through the computerized catalogue at <http://ictlibrary.firstray.in/>. Also two terminals are available on every floor to search through the computerized catalogue.

- **Reports:**

This collection comprises of Bios, Cios and Fiat reports and various other research reports.

**Access:** Reports can be searched through a computerized catalogue. Two terminals on every floor are available to search through the computerized catalogue.

- **Bound Volumes:**

The older issues of journals are bound into volumes and are available for reference.

**Access:** Printed catalogue of all the bound volumes is available at the ground floor in the Bound Volume section.

## DIGITAL RESOURCES

- **Databases**

The Library subscribes to a number of indexing and abstracting and informative databases

**Scopus:** Scopus is the largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings. Delivering a comprehensive overview of the world's research output in the fields of science, technology, medicine, social sciences, and arts and humanities, Scopus features smart tools to track, analyze and visualize research.

**Access:** IP based access is available throughout ICT campus. Registration is not mandatory for access. Link is accessible through the library portal. <https://www.scopus.com/>

**Reaxys:** Reaxys is a web-based tool for the retrieval of chemistry information and data from published literature, including journals and patents. The information includes chemical compounds, chemical reactions, chemical properties, related bibliographic data, substance data with synthesis planning information, as well as experimental procedures from selected journals and patents. It is licensed by Elsevier.

**Access:** IP based access is available throughout ICT campus. Registration is not mandatory for access. Link is accessible through the library portal. <https://www.reaxys.com/>

**Sci-Finder:** SciFinder is a research discovery application that provides unlimited access to the world's most comprehensive and authoritative source of references, substances and reactions in chemistry and related sciences. SciFinder offers a one-stop shop experience with flexible search and discover options based on user input and workflow.

**Access:** IP based access is available throughout ICT campus. Registration is mandatory for access. For registration you require email id of the institute. Link is accessible through the library portal. <http://www.cas.org/products/scifinder>

**Web of Science:** Web of Science is an online subscription-based scientific citation indexing service now maintained by Clarivate Analytics that provides a comprehensive citation search. It gives access to multiple databases that reference cross-disciplinary research, which allows for in-depth exploration of specialized sub-fields within an academic or scientific discipline.



**Access:** IP based access is available throughout ICT campus. Registration is not mandatory for access. Link is accessible through the library portal. <https://login.webofknowledge.com>

- **eJournals**

The library subscribes to a number of electronic journals from renowned publishers like Elsevier (Science Direct), Wiley, Thieme, Springer, Taylor and Francis, RSC, ACS, Begell, Bentham Science, Springer Nature, etc. Also has access to a huge number of ejournals through Infilbnet eShodhsindhu consortium.

**Access:** IP based access to all the ejournals is available throughout ICT campus. Registration is not mandatory for access. Link is accessible through the library portal.

- **eReference Sources**

**eReference Module in Chemistry, Molecular Sciences and Chemical Engineering**

Elsevier Reference Modules include thousands of cross-references and links to the related book chapters and journal articles available to you on ScienceDirect, providing the full spectrum of the subject on one easy platform.

**Access:** IP based access to the eReference Module is available throughout ICT campus. Registration is not mandatory for access. Link is accessible through the library portal.

**Begell Heat Exchanger Design Handbook (HEDH) – Multimedia edition**

Reference source for heat exchanger design and associated technologies. The print edition has been converted to a fully searchable interactive web-based multimedia product. The content is presented in an exciting interactive HTML format with in-text unit conversion and references, widgets for key heat transfer calculations, wizards to guide heat exchanger selection and 3D interactive visualization of equipment.

**Access:** IP based access to multimedia handbook is available throughout ICT campus. Registration is not mandatory for access. Link is accessible through the library portal.

- **eBooks**

Access to a collection of electronic Books published by RSC, ACS, Elsevier, Begell, T&F and Pearson eTextbooks is available.

**Access:** IP based access to all ebooks is available throughout ICT campus. Registration is not mandatory for access. Link is accessible through the library portal.

- **eVideo Journal**

Access to eVideo Journal published by Jove is available.

**Access:** Link is accessible through the library portal. <https://www.jove.com/journal>

- **eTheses**

The eTheses of ICT as well as other universities are available on infilbnet consortia eShodhganga.

**Access:** Link is accessible through the library portal. <http://shodhganga.infilbnet.ac.in/>

- **ePatent Database**

Library subscribes to electronic patent database called Derwent Innovation (DI).

**Access:** Contact the library to access this database.

- **Plagiarism check facility**

Similarity check or plagiarism check through software is available for PG students.

- **eWriting Assistant**

Access to Grammarly is available which assists you in writing and checking grammar and with better vocabulary.

**Access:** For access registration is mandatory. For registration write an email to library@ictmumbai.edu.in. The details for registration and how to use would be sent through email. You require institutional email id for registration.