

1. EXECUTIVE M. Tech. (e-M.Tech.) FOR INDUSTRIAL PERSONNEL

Executive MBA programmes are run working for professionals by various management institutes which typically cater to management of business, finance, and administration. This programme is distinctly different from them. The idea behind launching this programme is to train executives having at least three industrial experience with managerial experience or responsibilities who could rise to the top to become vice presidents, presidents, managing directors and the like but with training and research in technical field in an industrial setup.

1.1 TYPES OF INDUSTRIES

All processing industries where rate processes of physical, chemical or biological or combinations thereof are involved. Practically all industries are covered. For instance, oil, coal, refinery, coal, petrochemicals, minerals, materials, energy, pharmaceuticals, textiles, polymers, plastics, paints, oleo chemicals, agrochemicals, dyes, fertilizers, surfactants, biochemical, biotechnology, foods, electronics, etc.

The e-M.Tech. is thus geared at giving training in research, innovation industrial practices, law, sustainability and management to experienced and senior professionals who want to continue to work without losing continuity in the work place but still being a student while pursuing a degree. There is a subtle difference in this program in comparison with other programs. These executives are many times involved in issues related to research, innovation, business expansion, environment, law and human resources, plant operation, design and development, marketing. In many PSUs, it is found that some are transferred to R and D or plant operations, without having any idea of the field resulting into considerable loss of time and resources.

1.2 STUDY PATTERN

They will study in the class room on the campus for a short term of 4 weeks during which s/ he will undergo course work in two subjects as well as start do literature search and plan for research. The student will continue to carry out the research activities in the parent industry during alternate terms. During the parent industry term (PIT), he will continue his research work, home assignments, and other related course work. The student is continuously monitored and participates in class room discussions, home assignments and research project. The e-M. Tech. student is also supposed to mentor one-two students from the Integrated Masters degree students during their industrial internship. The syllabus is prepared in consultation with faculty from ICT and IIT-Kharagpur.

The programme is of two years duration. Refer to Section 1.7.1 in this Handbook for further details.

1.3 COLLABORATION WITH IIT KHARAGPUR FOR e-M.Tech.

IIT Kharagpur has signed an MOU for joining hands in the e-M.Tech. and research programmes allowing ICT to use its Extension Centre in Swosti Park, Bhubaneswar. The e-M.Tech. programme has another interesting aspect. It is being conducted jointly in collaboration with IIT-Kharagpur from June 2019. The syllabus for the e-M.Tech. Program has been prepared and also approved by the concerned academic bodies of both the institutes. Subjects such as industrial law, sustainability and process safety and hazard management along with research topic will also be covered. The capacity for this joint degree program is 60 in which 30 students will be from open category. The students will be thus able to spend time on ICT Mumbai IOC Bhubaneswar as well as IIT-KGP campus. There will be two guides for the students in certain cases to co-guide for the students, one from each campus. The facilities for research will be shared. Further details are given in Section

1.3.1 RELEVANT COURSES FOR EXECUTIVES

Some of the optional/additional courses including are as follows:

- Artificial Intelligence and Machine Learning for Chemical Industry
- Chemical Safety and Risk Management
- Corporate Sustainability
- Engineering and Law
- Environment Protection and Law
- Environmental laws
- Environmental Science and Sustainability
- Ethics and Industrial Practices
- Experimental Design
- Finance and Profit Management
- Green Chemistry and Engineering
- Industrial and Labour Laws in India
- Industrial Management
- Intellectual Property Rights, Valuation and Management
- Materials Management
- Operations Research
- Perspective of Global Industry
- Research and Innovation Methodology
- Research Methodology
- Sustainability

Thesis work, seminar, critical analysis of given topic, electives specific to industry of the candidate.

1.4.1 TWO YEAR REGULAR MASTERS DEGREE IN ENGINEERING AND TECHNOLOGY

This regular PG degree programme will be extended to all campuses and students distributed internally taking into account the expertise of faculty and against the sanctioned total strength on the Main Campus.

1.4.2 EXECUTIVE MASTERS DEGREE PROGRAMMES

1.4.3 APPLICATION PROCEDURE FOR EXECUTIVE MASTER'S COURSES

All these admissions will be conducted by the Institute of Chemical Technology, Mumbai Campus

FOR ONLINE ADMISSION FORM VISIT <http://www.ictmumbai.edu.in>

1.4.4 ELIGIBILITY CRITERIA FOR THE ADMISSION TO EXECUTIVE MASTERS IN PROCESS ENGINEERING (e-M.TECH.)

1. The candidate should have passed Bachelor's degree in any branch of Engineering or Technology or Masters degree in any branch of Science. Initially only a certain branches of engineering, particularly Chemical Engineering or equivalent degrees, and technology will be considered depending upon the type of industry.

(a) Eligibility,

Admission

procedure and

Results Eligibility

- Only Industry sponsored candidates with minimum three years of industrial experience
- B.Tech./BE in Chemical Engineering / Chemical Technology / Polymer Engineering/ Petroleum Engineering / Biotechnology / Food Technology/Environmental Engineering / equivalent of 4 yr B.Tech. / M.Sc. in Chemistry, Physics, Bio-Sciences
- Minimum 60%, or 6.5 CGPA in a 10 point scale in the qualifying examination. If the CGPA is on a different scale, eligibility shall be calculated corresponding to the equivalence of above.

The prospective candidate shall have to clear a test and/or an interview by a committee that may be formed from time to time.

2. This course is meant only for recognised industry sponsored candidates.
3. The candidate should be full time industrial/ R and D employee with at least three years experience in a chemical or allied industry.

4. All processing industries where rate processes of physical, chemical or biological or combinations thereof are involved. Practically all industries are covered. For instance, oil, coal, refinery, coal, petrochemicals, minerals, materials, energy, pharmaceuticals, textiles, polymers, plastics, paints, oleo chemicals, agrochemicals, dyes, fertilizers, surfactants, biochemicals, biotechnology, foods, electronics etc. Kindly note expertise exists in all areas for teaching and research.
5. The industry should undertake the responsibility of releasing the candidate for course work (Theory Classes), experimental work (Laboratory 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 Director.
6. A bond in this regard should be signed and approved by the Dean (Academic Programmes) or Director of the Concerned Campus in consultation with the Dean. The Institute is not responsible for the internal mechanism of the concerned industry for selection of the candidates of this program.
7. This is a two-year full time programme where the student has the privilege of working in his own parent industry on a research problem supervised by two supervisors from ICT Mumbai (from all three campuses) and IIT Kharagpur. One of the ideas is also to mentor, if possible, the interns of the Integrated M. Tech. degree students during their work term in their industry. The research project is decided in the very first month of admission.

1.7 COLLABORATION WITH INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR

The e-M.Tech. programme has another interesting aspect. It is being conducted jointly in collaboration with IIT-Kharagpur from June 2019. The syllabus for the MTech Program has been prepared and also approved by the concerned academic bodies of both the institutes. Subjects such as industrial law, sustainability and process safety and hazard management along with research topic will also be covered.

The capacity for this joint degree program is 60 in which the general category students it is 30. The students will be thus able to spend time on ICT Mumbai IOC Bhubaneswar as well as IIT- KGP campus. There will be two guides for the students in certain cases to co-guide for the students, one from each campus. The facilities for research will be shared.

1.7.1 e-M. Tech. COURSE DELIVERANCEFEATURES

- Two year program comprising of 8 quarters
- Each quarter : 3 months
- On campus classroom teaching: 2 courses during first 4 weeks of quarters 1-6
- Remaining period of quarter in parent organisation when the student performs research work, home assignments and other related course work assignments
- Classes at IIT Kharagpur preferably in the quarter covering the summer vacation of the Institute
- Classes at ICT in remaining quarters where IIT faculty to co-teach with ICT faculty members - weekend contacts / NKN /video recording with weekend contacts.
- Quarter 7 and 8 – project work of 12 credits in each quarter
- Project work - in either of the two Institutes / Parent Industry / Recognized Laboratories / Industry approved by the Institutes
- Project work supervision by at least one faculty member from either Institute
- In Q1-6, continuous evaluation system - class room discussions, class tests/quizzes, home assignments, presentations, group or individual projects and mid semester examination of 70% weightage and end quarter examination of 30%weightage
- Mid quarter examination per quarter – to be conducted within class room session and end term examination at the end of each quarter (in the weekend proceeding the nextquarter)
- End of quarter examinations of 2 hour duration for 3 credit subject and 3 hour duration for 4 credit subject
- Appearing and passing in end quarter examination mandatory for completing a quarter
- Minimum credit requirement for degree – 88.

1.7.2 FEES, CONCESSIONS, CANCELLATIONS AND REFUND:

COURSE FEES PRESCRIBED:

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

Sr. No.	Type of Fees	Nonrefundable Fee for entire course (Rs.)
1.	Library Deposit	Rs. 5,000/-
2.	Fees (2 years)	Rs. 16,00,000/- (Fees 7.5 Lakh per year + 1 Lakh Accommodation per Year)
	TOTAL	Rs. 16,05,000/-*

* The total fee to be paid at the time of admission.

* One time Nonrefundable in case of admission cancellation.