



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		INSTITUTE OF CHEMICAL TECHNOLOGY
Name of the head of the Institution	Prof. A. B. Pandit	
Designation	Vice Chancellor	
Does the Institution function from own campus	Yes	
Phone no/Alternate Phone no.	02233611001	
Mobile no.	9820408037	
Registered Email	vc@ictmumbai.edu.in	
Alternate Email	dean.iqa@ictmumbai.edu.in	
Address	ICT, Nathalal Parekh Marg, Matunga	
City/Town	Mumbai	
State/UT	Maharashtra	
Pincode	400019	
2. Institutional Status		

University	Deemed
Type of Institution	Co-education
Location	Urban
Financial Status	state
Name of the IQAC co-ordinator/Director	Prof. S. S.Bhagwat (Dean-IQA)
Phone no/Alternate Phone no.	02233611019
Mobile no.	9322303480
Registered Email	dean.iqa@ictmumbai.edu.in
Alternate Email	iqa.office@staff.ictmumbai.edu.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.ictmumbai.edu.in/uploaded_files/ICTMumbai_AQAR_report_2018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.ictmumbai.edu.in/uploaded_files/Academic-calendar-19-20.pdf

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A++	3.77	2017	27-Nov-2017	26-Nov-2022

6. Date of Establishment of IQAC

21-Jan-2017

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Lab Upgradation Project	05-Aug-2019 365	18

Regular Meetings of IQAC	04-Nov-2019 1	9
Participation in NIRF	04-Nov-2019 30	6
Solar Rooftops	01-Jul-2019 365	2572
Student Loan for Fees	01-Jul-2019 365	21
Mentorship Academic Support	01-Aug-2019 365	55
Certificate Course in Practice of Chemical Technology	24-Apr-2020 120	46
Advance Excel Training	01-Dec-2019 5	10
Personality Development and time management	27-Feb-2020 2	10
Interchangeable Job Work Training	01-Aug-2019 3	4
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
DBT ICT Centre for Energy Biosciences	Bioenergy	DBT, India	2013 2555	18000000
Department of Pharmaceutical sciences and technology	Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	UGC	2018 365	70000000
Institute	TEQIP III	NPIU	2018 365	70000000
Institute	TEQIP III Co-EP	NPIU	2018 365	30000000
Dept of Food Engineering and Technology	DST-FIST	DST	2018 1825	8000000
Department of Oils, Oleochemicals And Surfactants Technology	DST-FIST	DST	2018 1825	8400000
Dept of Pharmaceutical	UGC-CAS	UGC	2018 1095	500000

Science and Technology				
Department of Physics	DST-FIST	DST	2018 1825	10200000
Dept of Food Engineering and Technology	UGC-CAS	UGC	2018 1095	600000
Dept of Chemical Engineering	UGC-CAS	UGC	2018 365	16600000
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9. Whether composition of IQAC as per latest NAAC guidelines:	No
Upload latest notification of formation of IQAC	No Files Uploaded !!!
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	No
Upload the minutes of meeting and action taken report	No Files Uploaded !!!
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Approved a manual for academic audit of a department 2. Implemented Chemical Safety Procedures 3. Applied to International ranking frameworks such as QA ranking and Times Higher Education (THE) ranking. 4. Set up system for feedback from staff, students, faculty for various administrative stories. 5. Restructuring of Institutes Organogram

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Organise institutional Programs on quality in higher education	Participation of faculty in programs on quality in higher education has created awareness in them about benchmark in quality education and has helped set up a benchmark in the same.

Promote Research oriented activities in the institute	Encourage faculty to pursue research in basic and applied technology. To publish research articles in reputed National and International Journals. Apply for Patents and IPRs
Conduct Survey of Faculty Member, Support Staff and Students	Successfully conducted online survey for ten various administrative services beside faculty feedback
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Internal Quality Assurance Core Committee	09-Dec-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2020
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Date of Submission	28-Feb-2020
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>1. Admission Institute's MIS admission modules help to conduct the online admission process in a highly structured and accurate manner. All the UG PG students fill up the online admission forms as required and complete the admission formalities. The MIS module helps in collecting the programwise information of the admission process and further assists in the preparation of the merit list as per the institute norms. The student's admission is strictly based on the marks obtained and the merit list criteria. 2. Entrance Examination for PG students The Institute conducts an online entrance examination for all of its PG programs. The applicant students appear for the online examination at the Institute and receive their exam scores immediately at the end of the</p>
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examinations. The final admission procedure is completed based on the scores and merit list . 3. Examinations - This module takes care of the exam activities such as the appointment of external and internal examiners, collection of the question papers, a compilation of continuous evaluation and end semester marks, and declaration of results using CGPA system. 4. Administration This module monitors the attendance of all the faculties (regular as well as temporary), administrative staff, support staff, and other employees of the Institute. It also helps in salary payment activities for all the employees of the institute. 5. Academic Activities - This module includes roll numbers of students, their course details, and other related information 6. Stores Management This module helps in various activities related to the procurement of consumables and equipment as well as repair and maintenance of the Institutes infrastructure. The activities include vendor registration, tendering process, preparation of comparative statements, placement of orders, and other necessary administrative approvals for the procurement. 7. Time Table This module helps in the preparation and display of the academic calendar and timetable. 8. Attendance This module helps record the online attendance of all lectures and practicals conducted for UG and PG programs. It determines the list of students who do not qualify the minimum attendance criteria of the Institute. 9. Appointment of Examiners This module takes care of the evaluation of the final Year thesis work of UG, PG, and Research students and helps in the appointment of examiners based on preferences from internal guides. 10. Thesis submission and Approval The uploaded thesis, colloquium, and synopsis reports of the UG, PG, and research students are part of this module. It also includes the academic approval of the thesis by academic authorities. 11. Leave Management This module helps faculty members to raise leave applications and seek necessary approvals for the same while maintaining the record of the total leaves consumed by the faculty and the

balance leaves available with the faculty. 12. Faculty service records Maintains service records of all the faculties. 13. Fee Payment Students pay their annual tuition, exam, and other fees through this module. 14. Accounts and Finance Takes care of all activities related to the Institute's accounts and finance

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	UG-2d	Pharmaceutical Chemistry and Technology	30/06/2020
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
Mtech	Executive M.Tech in Chemical Engineering	13/07/2019	eM1	13/07/2019
BE	Chemical Project Economics	13/07/2019	CHT2603	13/07/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	UG-1	01/07/2009
BTech	UG- 2a to 2g	01/07/2009

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
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Value education	01/07/2009	129
Communication skills	01/07/2009	155
Perspectives of Society, Science and Technology	01/07/2009	89
Safety and Risk management	01/07/2009	141
Industrial Psychology and Human Resource Development	01/07/2009	134
Sociology and Ethics	01/07/2009	27
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Chemical Engineering	74
BTech	Dyestuff Technology	17
BTech	Food Engineering and Technology	14
BTech	Oils, Oleochemicals and Surfactants Technology	18
BTech	Pharmaceutical Chemistry and Technology	16
BPharm	Pharmacy	15
BTech	Polymer Engineering and Technology	19
BTech	Surface Coating Technology	13
BTech	Fibers and Textile Processing Technology	31
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	No
Alumni	No
Parents	No

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
The Institute conducts an online student feedback survey at the end of every semester examination. The survey is related to all the theory and practical courses taught in the respective semesters. The general assessment points of

the feedback are based on the adequacy of the syllabi, organization of lectures concerning coverage of syllabus, assessment of answer books, teaching methodology, teacher's approach-ability, and ability to teach, command and control the class, and, use of modern tools of Pedagogy, etc. The feedback system is designed on a 0-5 point scale with the number 5 meaning excellent and zero meaning poor performance. According to the Institute's policy, if any teacher is graded less than 2.5, he/she is informed about the same by the institute authorities such as Dean Academic, Registrar, or the Vice-chancellor and instructed to improve their performances. The Alumni feedback survey is conducted whenever alumni programs such as Foundation Day, Technology Day and Alumni Meet are organised in the Institute during the academic year. The feedback from alumni is drawn for evaluation of subject knowledge of the program, level of meeting expectation, progress of Alumni in his/her career after graduation, the impact of training and motivation at Institute on personality, maturity, social skills, presentation skills, ability to make decisions and manage finances at the workplace. The feedback is taken on a 1- 5 point scale with 1 at a satisfactory level and 5 on excellent level. The employees feedback highlights evaluation parameters in the form of subject knowledge, attitude, behavior, regularity, punctuality, maturity, motivation, creativity, presentation skills, and ability to get along with others. The analysis of the feedback survey helps the institute in reframing the course content and various skill development training programs. It also helps in determining overall employability of our students at various organizations and levels. The feedback from the parents immensely helps the Institute in reorienting the administrative functionality, hostel accommodation and general ambiance, suitability of the courses for career growth of the ward and skill development of the ward, etc.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	Master of perfumery and flavour Technology	18	158	18
Mtech	Master of Oils, oleochemicals and surfactants Technology	18	75	18
Mtech	Master of Green Technology	30	70	26
Mtech	Master of Food Engineering and technology	18	123	17
Mtech	Master of Polymer Engineering and Technology	18	76	18
Mtech	Master of	18	36	15

	Fibres and Textile Processing Technology			
Mtech	Master of dyestuff Technology	18	37	15
Mtech	M.Tech. Pharma. Tech. (Sponsored 3 Years)	10	0	0
ME	Master of Plastic Engineering	18	23	11
ME	Master of Chemical Engineering	30	233	30
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1033	877	136	136	136

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
136	136	8	31	31	15

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The Institute has a well-defined policy for mentoring newly admitted undergraduate students. The Institute admits students from various socio-economical backgrounds, students from rural, urban, and metropolitan regions, and various states of the country. The institute has a 70 quota for students from Maharashtra State and the rest 30 quota is for students from other states of the nation. As a result, there is a vast diversity amongst the students admitted to the institute at the UG level. The Institute has five hostels that accommodate most of the freshers from outside Mumbai and its suburban areas. The fresher students face many issues related to emotional and behavioral changes, economical status, etc., and need proper mentoring to be able to gain confidence and face such situations bravely. The Institute has employed a full-time counselor who helps these fresher students to overcome language, emotional, behavioral, and other difficulties during the first 2 to 3 months of their stay at the Institute. An induction program is organized for the fresher students wherein they are made aware of the counselor and the type of help the counselor can provide them. This induction program is organized during the first two weeks of their first semester at the Institute. On the very first day of the program, the students are

addressed by the Honorable Vice-chancellor giving them the basic information about the Institute, various courses conducted in the Institute, relevance of the courses in the industrial sector, various career opportunities after completion of graduation, etc. The students are also briefed about individual departments, courses offered by departments, laboratories, major research projects, and research facilities and opportunities for the students by the respective Head of Departments. Every teaching faculty is assigned the role of mentor to the newly admitted students and this way each faculty is allotted with 3 to 4 students of the 1st year undergraduate program for a complete year. The students meet their respective mentors frequently and get the required support in overcoming their emotional stress and other difficulties. A team of the elected representatives of the Technological Association which comprises senior student representatives engages in the extra and co-curricular activities of the Institute and these senior students representatives also mentor the fresher students as well encourage and guide them to participate in various activities. The TA organizes several programs for freshers such as freshers, socio and fresher's game to welcome and acclimatize them with the Institute's culture in general and environment in particular. Such programs which are specifically for fresher students help them enormously in rebuilding their emotional and other social barriers.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1910	136	1:14

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
133	104	29	4	132

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Professor G.D. Yadav	Vice Chancellor	Honorary Doctorate of Engineering at NIT
2020	Professor R.R. Deshmukh	Registrar	Fellow of the Indian Chemical Society
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BPharm	UG-3	Sem II	15/07/2020	21/07/2020
BPharm	UG-3	Sem IV	15/07/2020	20/07/2020
BPharm	UG-3	Sem VI	15/07/2020	21/07/2020
BPharm	UG-3	Sem VIII	01/07/2020	07/07/2020
MSc	PG-16 M.Sc. Textile Chemistry	Sem II	15/07/2020	21/07/2020

MSc	PG-16 M.Sc. Textile Chemistry	Sem IV	01/07/2020	07/07/2020
MSc	PG-17 M.Sc. Engineering Mathematics	Sem II	15/07/2020	21/07/2020
MSc	PG-17 M.Sc. Engineering Mathematics	Sem IV	01/07/2020	07/07/2020
MSc	PG-18 M.Sc. Physics	Sem II	15/07/2020	21/07/2020
MSc	PG-18 M.Sc. Physics	Sem IV	01/07/2020	06/07/2020
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	1790	0

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://www.ictmumbai.edu.in/uploaded_files/ICT-CO_PSO_PO.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG-2e	BTech	Dyestuff Technology	17	17	100
UG-2a	BTech	Fibres and Textile Processing Technology	31	26	84
UG-2b	BTech	Food Engineering and Technology	14	13	93
UG-2c	BTech	Oils, Oleo chemicals and Surfactants Technology	18	18	100
UG-2d	BTech	Pharmaceutical Chemistry and Technology	17	17	100

UG-2f	BTech	Polymer Engineering and Technology	19	17	89
UG-2g	BTech	Surface Coating Technology	13	13	100
UG-1	BE	Chemical Engineering	75	74	100
UG-3	BPharm	Pharmaceutical	15	14	93
PG-16	MSc	M.Sc. Textile Chemistry	13	12	92
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://www.ictmumbai.edu.in/uploaded_files/SSS_2019-20.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. S.T. Mhaske	Fellow	03/06/2019	Maharashtra Academy of Sciences
International	Professor Rekha Singhal	Fellow	02/05/2019	International Bioprocessing Association- An International Forum on Industrial Bioprocesses at Miri, Malaysia
National	Professor Parag Gogate	Fellow	22/08/2019	Indian National Academy of Engineering.
National	Professor R.R. Deshmukh	Fellow	11/09/2019	Maharashtra Academy of Sciences.
National	Professor P.D. Vaidya	Fellowship	11/09/2019	Maharashtra Academy of Sciences.

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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution

enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
SRF	2018	DAE-ICT
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	365	STARS/Dr.V.Dalvi	1729000	1729000
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3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Workshop On Literature Survey to train the PG and PhD students on how to do a literature survey and review it	Department of Oils and Oileochemicals Technology	05/05/2019
RASAYANAM 2020 Exciting events Institute Tech feast	Department of Chemistry	16/01/2020
Workshop On Decoding Cyber Security Crimes	ICT All Department	19/08/2019
The Asian And Mideast Institute of Chemists (AMIC) organised Refresher course in Chemical Engineering for chemists	Department of Chemical Engineering	13/09/2019
Workshop: LiteratureSurvey :How to use e sources effectively	Department of Dyestuff Technology	16/11/2019
One day seminar on Green technology	Department of Chemical Engineering	16/11/2019
Informative seminar on Applications of Cytation 5 (Cell imaging multimode reader from Bio Tech Instruments) for cellular studies	Department of Pharmaceuticals Science and Technology	02/12/2019
Arranged a small celebration as a part of celebration of Worlds pharmacist day on 25th Sept. 2019.	Department of Pharmaceuticals Science and Technology	25/09/2019
Workshop on Statistics	Department of Fiber	19/12/2019

with Statecraft	Textile Processing Technology	
Workshop titled Emerging Trends I Organic (Chemistry) synthesis	Department of Chemistry	27/12/2019
Workshop on Advanced computer Aided Drug Design and computational Biology	Department of Pharmaceuticals Science and Technology	13/07/2019
Symposium: 8th Indian Chitin and Chitosan Society	Department of Pharmaceuticals Science and Technology	19/09/2019
Six days workshop on PyCT2019: Python and Machine Learning	Department of Chemical Engineering	27/08/2019
Awareness Session on BIRAC's Biotechnology Ignition Grant (BIG)	DBT ICT CEB	16/07/2019
Youth Empowerment and Skills 4-day continuous program	ICT	04/08/2019
Two days workshop Analysis of Basics chemicals Textile Auxiliaries colourants	Department of Fiber Textile Processing Technology	21/08/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
e-IDEALOGY: Let your idea Speaks	Sukhada Shevade	Institution Innovation Council of Vivekannad Education Society's College of Pharmacy	16/05/2020	e-IDEALOGY: Let your idea Speaks
Point of Care Visual Serum Calcium Detection Test Kit for Livestock	Raaquib Memon	Marathi Vidnyan Parishad (MaViPa)	02/02/2020	Smt. Leela Parshuram Agashe Vidnyan Sanshodhan Puraskar 2019
NSTA-NANO-AmB A simple , affordable revolutionary technology for Amphotericin B nanotherapy"	Pooja Todke	National Bio entrepreneurship Competition	08/12/2020	Top 20 best teams from all over India for Innovation
NSTA-NANO-AmB	Esha Attar	National Bio	08/12/2020	Top 20 best

A simple , affordable revolutionary technology for Amphotericin B nanotherapy"		entrepreneurship Competition		teams from all over India for Innovation
NSTA-NANO-AmB A simple , affordable revolutionary technology for Amphotericin B nanotherapy"	Saugandha Das	National Bio entrepreneurship Competition	08/12/2020	Top 20 best teams from all over India for Innovation
NSTA-NANO-AmB A simple , affordable revolutionary technology for Amphotericin B nanotherapy"	Sukhada Shevade	National Bio entrepreneurship Competition	08/12/2020	Top 20 best teams from all over India for Innovation
PREG-?-DET" A Kit for Visual Early Pregnancy Detection in Cattle from Urine"	Amit S. Lokhande	AICTE MHRD Innovation Cell	02/02/2020	INNOVATION AMBASSADOR"
Nano_Gr_Det-Point of Care Blood Group Detection Kit	Pooja A. Todke	AICTE MHRD Innovation Cell	02/02/2020	INNOVATION AMBASSADOR"
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Department of Chemical Engineering	21
Department of Polymer and Surface Engineering	6
DBT-ICT CENTRE FOR ENERGY BIOSCIENCES	30
Department of Chemistry	36
Department of Food Engineering and Technology	13
Department of Mathematics	2
Department of Fibres and Textile Processing Technology	13

Centre for Green Technology	8
Department of Pharmaceutical Sciences and Technology	35
Department of General Engineering	1
Department of Physics	1
Department of Oils, Oleochemicals and Surfactants Technology	3

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Chemical Engineering	162	44.85
International	Chemistry	37	42.67
International	DBT ICT Centre for Energy Biosciences	16	14.62
International	FIBRES AND TEXTILE PROCESSING TECHNOLOGY	32	15.12
International	FOOD ENGINEERING AND TECHNOLOGY	57	30.68
International	GENERAL ENGINEERING	5	4
International	MATHEMATICS	8	8.5
International	OILS, OLEOCHEMICALS SURFACTANT TECHNOLOGY	3	12
International	PHARMACEUTICAL SCIENCES AND TECHNOLOGY	63	22.66
International	PHYSICS	16	16.31
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Department of Pharmaceuticals Science and Technology	1
Department of Chemistry	1
Department of fibers and Textile Processing Technology	1
Department of Chemical engineering	1
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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
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FLOATING INSULATING FLY ASH CERAMICS	Published	IN201921011917A	02/10/2020
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Ruthenium(II) Catalysed Highly Regioselective C-3 Alkylation of Indolizines and Pyrrolo[1,2-a]quinolines	Jadhav P.P., Kahar N.M., Dawande S.G.	European Journal of Organic Chemistry	2019	0	Institute of Chemical Technology, Mumbai	0
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Ruthenium(II) Catalysed Highly Regioselective C-3 Alkylation of Indolizines and Pyrrolo[1,2-a]quinolines	Jadhav P.P., Kahar N.M., Dawande S.G.	European Journal of Organic Chemistry	2019	29	0	Institute of Chemical Technology, Mumbai
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	13	53	59	7
Presented papers	10	34	44	0
Resource persons	2	12	10	4
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Department of Food Engineering and Technology	Process/Product Development	M/s. Marico Limited	40000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Department of Chemical Engineering	Chemical Engineering for Plant Personnel	BPCL	1200000	48
Department of Chemical Engineering	Industrial Crystallization Training	CIPLA	75600	25
ICT IOC Bhubaneswar off Campus	Executive M. Tech for Industrial Personnel	Executive M. Tech for Industrial Personnel	1600000	2
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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Industry Academic Interaction	Dr. Narayana Darapaneni, Rises Analytics	1	49
Intellectual Property Rights	Dr. Gopakumar Nair , Director of Gopakumar Nair Associates, Mumbai	1	46
Youth Empowerment and Skills	Art of Living Programs	2	85
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Best innovation for the year 2019	National level first prize	AICTE-MHRD- Government of India	1
Best innovation for the year 2019	Among top 10 Innovations	AICTE-MHRD- Government of India	1

National Bio Entrepreneurship Competition (NBEC) 2020	Novozyme award	National Bio Entrepreneurship Competition (NBEC) 2020	1
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
E Cell and TEQIP-III	Hariyali Foundation	Post-Tree-Plantation site of Hariyali Drive	2	100
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Research	A joint project with Dr. A. S. Sabnis (ICT Mumbai), Dr. Gautam Sarkhel (BIT Mesra) and Indian Institute of Natural Resins and gums, Namkum.	TEQIP-III	15
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industrial Research	In Plant Training	Cipla Limited	13/05/2019	13/08/2019	Harmit Desai
Industrial Research	In Plant Training	Emcure Pharmaceuticals Ltd	20/05/2019	20/08/2019	Dattaprasad Santosh Jadhav
Industrial Research	In Plant Training	Nivea India Pvt Ltd	13/05/2019	13/08/2019	Anushka Badge
Industrial Research	In Plant Training	Croda Chemicals	15/05/2019	14/08/2019	Ankit Bagde
Industrial Research	In Plant Training	USV Pvt Ltd	06/05/2019	27/07/2019	Aneesh Deshmukh

Industrial Research	Job training	Deccanchemicals	01/07/2019	31/12/2021	Darshana Malusare
Industrial Research	In Plant Training	Millennium Chemi Pharma (Mysore) Pvt Ltd	10/06/2019	10/08/2019	Saurabh
Industrial Research	In Plant Training	Anthem Biosciences Pvt Ltd	07/05/2019	07/06/2019	Karthik Iyer
Industrial Research	In Plant Training	Cipla Limited	17/06/2019	01/08/2019	S. Kirti
Industrial Research	In Plant Training	Vital Laboratories Pvt Ltd	06/05/2019	15/06/2019	Jaishish Bajaj
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3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Usak University, Turkey	01/07/2019	Mevlana Exchange Programme - Student exchange programme	1
Aspectech International Development Research Foundation, Mumbai	01/07/2019	Collaborative programme	1
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
668.41	668.41

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Seminar Halls	Existing
Laboratories	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
No file uploaded.	

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Libsys	Fully	4	2001
Koha	Fully	18.05	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	2744	1839710	56	34209	2800	1873919
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
All Teachers	Learning Management System	https://ictmediasite.ictmumbai.edu.in/mediasite/manage	15/07/2017
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	941	3	4	2	4	2	1	1100	0
Added	0	0	0	0	0	0	0	0	0
Total	941	3	4	2	4	2	1	1100	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Recorded lectures	https://ictmediasite.ictmumbai.edu.in/mediasite/manage

E-library in campus	http://ictlibrary.firststray.in/
E-library off campus	https://elibraryict.remotexs.in/user/login

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
1698.73	1698.73	2548.1	2548.1

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The Institute has a precise strategy for maintenance and utilization of all its physical, academic, and support facilities. The Institute has precise protocols a) for use of equipment in central facility as well as departmental laboratories, b) for use of e-library facility, c) to access to e-journals of the Institute through internet login and password, use of computers the Information Processing Centers (IPC) and departmental laboratories. The Institute has hired external agencies for the maintenance of the computers and these agencies take care of software installations of software and operating systems and other related applications on all the computers of the Institute.

The annual maintenance contract (AMC) for the computers includes the replacement of faulty hardware and or addition of the hardware or augmenting the system configurations. The equipment in all the laboratories is also maintained through annual maintenance contracts provided either by the manufacturers or their agents. All the classrooms, seminar halls, hostel buildings, residential buildings, and the overall campus areas are maintained under the supervision of Dean Infrastructure and Campus Development and University Engineer. The Institute has appointed Dean Student Affairs, who is also the Vice President of The Technological Association of the Institute and takes care of the utilization of the sports complexes and facilities. The Dean Student Affairs also looks after the extra and co-curricular activities conducted at the Institute for the students throughout the year. The Technological Association body including VPTA and General Secretary of the students defines policies for the use of the sports complexes and facilities every year. Students are encouraged to participate in Institutional sports as well as extra and co-curricular activities and in other national and international competitions.

https://www.ictmumbai.edu.in/uploaded_files/ICT -Ordinances Regulations and rules.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	B. Chem. Engg., B. Tech and B. Pharma Merit-cum- means scholarships	27	121500
Financial Support from Other Sources			

a) National	M. S. Patel Trust Merit-cum-Means Scholarship	3	15000
b) International	Smt. Badamidevi Chiranjilal Murarka Charity Trust Merit- cum-Means Scholarship	1	3600
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Soft skill development	16/08/2019	48	English language by Prof. Anwekar
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	TEQIP-III	835	835	626	138
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
4	4	2

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Asain Paints	30	1	STEP consulting Pvt. Ltd., Mumbai	1	1
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
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2019	2	MSc Physics	Physics	Joint-PhD at Indian Institute of Technology- Bombay (IIT Bombay) and Monash University, Australia.	Ph.D
2019	2	Master of Chemical Engineering	Chemical Engineering	University of pennesste	Ph.D
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	29
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
One \$ Venture, Teams have to maximise Rs 100 capital given to each team by means of setting up a business.	State	50
E-Summit ICT 2020, Flagship festival of ICT Entrepreneurship Cell	State	500
E-Quiz, Entrepreneurship based quiz	State	50
Marketing Box, Participants need to decorate a box given to them as a packaging for a product of their choice.	State	20
Revive and Survive, Case study of failed start-ups	State	20
120 seconds, Participants have to come up with a business plan for a star-up in a randomly allocated sector in a short time frame and have to present it within 2 min.	State	30
Pitchers, Business Plan pitching competition.	State	25
Entrepreneurship based	State	150

Lecture Series, Lectures of Eminant personalities held to help students gain new perspectives.		
Business Plan Workshop	Inter College	75
Stock Market Simulator Game	Intra College	30
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	BSE Hackthon	National	1	Nil	18TXT109, 18OIL103, 18TXT110, 18FET117, 18DYE105	Sahil Ghuge, Chahat Vashodia, Ruchi Thakur, Vaibhav Vishwanath and Divyaxa Agnihotri
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The Student Council of the Institute is the Technological Association (TA), headed by the General Secretary who is a student representative. The TA has a dedicated wing that functions for the Student Affairs headed by the Technical Secretary. The Technical Secretary has two independent student representatives from UG and PG who head their team of Branch Representatives (BR) and Class Representatives (CR). The prominent positions of the TA have representation in the committees of the Institute. The list of the committees on which the student representatives are included are as follows: 1) General Secretary Undergraduates Programmes Post Graduate Programmes Convocation Student Academic Interface/Students Feedback Anti-Ragging Outreach Activity/Social Responsibility Student Welfare and Mentorship Cultural and Co-curricular Activity Sports Election Media Publicity 2) Technical Secretary Undergraduates Programmes Post Graduate Programmes Student Welfare and Mentorship Election 3) Cultural Secretary Outreach Activity/Social Responsibility Student Welfare and Mentorship Cultural and Co-curricular Activity Election 4) Lady Representative SC/ST Cell Women cells including cells to eliminate sexual harassment Outreach Activity/Social Responsibility The student representatives are involved in activities like the setting of the Academic and Exam Timetables, and helping the faculties to improve lecture quality through constructive feedback from students at the end of every semester. A team of 80 BRs and CRs headed by their course representatives (UG and PG) form an excellent system that works very efficiently in coordinating with professors, deans, and the management committees of the Institute to improve the overall system.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Year of Establishment - 11/05/1989 President - Prof. Padma V. Devarajan, Sr.
Vice President - Mrs.MaharukhRustomjee Vice President - Mr.DilipUdas Secretary -
Dr.ParagGogate Treasurer - Mr. Rajeev Panse Imm. Past President - Mr. Ravi
Raghavan

5.4.2 – No. of registered Alumni:

7146

5.4.3 – Alumni contribution during the year (in Rupees) :

3447200

5.4.4 – Meetings/activities organized by Alumni Association :

10 Meetings of Board of Governors, Mentorship Programme, Certificate Course,
Lab Upgradation Programme, Agatya - Freshers Welcome, Tete - e - Tete with DA
awardees.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Technological Association - The Institute has established a Technological Association with the honorable Vice-Chancellor as its President and Dean Student Affairs as the Vice President. This association with both faculty and student representatives is actively involved in carrying out extracurricular, co-curricular, cultural, and technical events, personality development, and sports activities for the Institutes students. The Technological Association (TA) organizes several events for the students throughout the year. The Vice President of the TA (VPTA) takes the responsibility of organizing these events with the help of faculty convenors for each activity along with the student representatives of the Institute. The VPTA and convenors of the respective events encourage students for organizing these events by making special provisions in the academic calendar for a schedule of events and providing adequate financial support for the events. The students are also encouraged to generate sponsorship for the successful completion of these events. Generation of sufficient funds and timely organization of all the events is conducted by the students body with well-timed advice from the concerned convenors and VPTA. There is minimum interference of the President, Vice President, and convenors of the TA in any of the above-mentioned activities. The students are guided in the overall scheduling, planning, and financial needs of these events.

Accreditation of the program/ Institute by various agencies- All the academic activities of the Institute are the responsibility of the Dean Academic Program of the Institute. Accreditation of the various programs and Institute is one of the important activities entrusted with the Dean Academic Program. The Dean Academic Program with the help of the Nodal officer as well as the teaching and support staff of the Institute ensures that all the programs of the Institute are accredited by the agency such as NBA and NAAC. The Dean Academic Program makes the required initiatives in this regard by collecting the relevant information and data and further applying for the accreditation as per the UGC/ AICTE mandate for the Institute. The whole process is conducted by the team of the Dean Academic Program with time to time updates and information about the same to the Vice-Chancellor.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	? Admission of Students - For UG admissions, the Institute admits students through the State Common Admission process and also through the National quota. For PG students admission takes place based on the criteria of entrance exams such as GATE, GPAT, UGC NET SET, and Institutes written tests.
Industry Interaction / Collaboration	? Industry Interaction / Collaboration - The Institute has established industry interaction cells that help in promoting research activity, training, projects, and collaborative research culture between industries and the Institute. Every student of the Institute undergoes mandatory industrial training of three months in industries located in and around Mumbai. Industries willingly participate in collaborative research programs under industry-sponsored and Prime Minister's research fellowship programs and also sharing their equipment and other resources with the faculty and students of the Institute.
Human Resource Management	? Human Resource Management - Institute has well-defined administrative and academic sections to look after the employees and students. The Institute maintains service and leaves records of all its employees. The Dean Human Resource with the help of various grievance redressal committees addresses the complaints raised by the employees. The Institute has a grievance redressal committee, staff welfare committees, women's harassment committee, and committee to take care of the weaker sections of the society. Dean Students Affairs takes care of solving the day-to-day concerns and/or difficulties of the students. The Institute has appointed a doctor and nurses to provide medical attention to faculty and students whenever required. All faculty and students are insured for the accidents through group insurance policies. Every employee and

	<p>student gets non-refundable financial help for their treatment in private hospitals in case of a medical emergency.</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>? Library, ICT and Physical Infrastructure / Instrumentation - Central Library of the Institute has more than 76,000 volumes of scientific and technical books. Institute also has a subscription for hard copies of more than 300 technical journals. The Library also subscribes to e-journals provided by Science Direct, Elsevier, and other reputed international publishers of scientific and technical journals. All students, faculty, Alumni, well-wishers, industry, visiting, and retired faculty of the Institute have access to all library resources throughout the year. Every department of the Institute has developed different research laboratories equipped with Ultra-modern equipment and facilities for the UG students.</p>
<p>Research and Development</p>	<p>? Research and Development: Institute admits full-time research fellows in more than 25 disciplines of different branches of science and technology. Faculties are encouraged to apply for government and industry-funded research projects. The TEQIP program I, II, III of the world bank has immensely helped in building infrastructure for RD at the Institute. 99 of the faculties are Ph.D. by degree and are approved research supervisors. All PG research students along with faculty publish research findings either through patents or publications in the internationally renowned scientific and technical journals. They are also encouraged to present their findings at National and International conferences.</p>
<p>Examination and Evaluation</p>	<p>? Examination and Evaluation: Students are evaluated throughout the year for each course with continuous assessment, mid and end-semester examinations. The respective course teachers follow the academic calendar schedule for conducting examinations and maintain proper records of the same. The end semester examination is conducted at the end of the academic semester and results are declared at the earliest after collecting the marks of continuous evaluation, mid and end</p>

	<p>semester examination. The Institute offers repeat examinations to the students who fail within one month of declaration of the result. This helps students to clear the examination before the start of the new semester.</p>
Teaching and Learning	<p>? Teaching and Learning: Several committees are formed under the leadership of the Dean Academic Program to ensure the use of proper teaching and learning techniques for all the UG and PG classes. Every classroom is equipped with a Wi-fi-enabled projection system, audio-visual facilities, and a biometric attendance system. All the lectures of each of the faculties are recorded during the lecture hours and are used by the slow learners and absent students whenever they miss their classes.</p>
Curriculum Development	<p>? Curriculum Development: Institute has a policy of curriculum development for all UG and PG programs every four years. A detailed survey is conducted among the alumni and the industry where the Institute students have been employed. Faculties from other Institutes of repute are also involved in the curriculum development. The syllabi from the renowned Universities from abroad are also considered. The syllabus committee finally designs the course content and the examination scheme as per the broad guidelines provided by the Dean AP. The same is further approved in UGPC and PGPC committee meetings and finally discussed and approved in Academic Council.</p>

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	<p>? Planning and Development - The MIS modules of the Institute helps in planning academic activities which include Timetable, Recording of Lectures and attendance, and feedback by the students. This MIS helps in distributing students in batches through batch management, faculty subject allocation, allotting subject-wise infrastructure. It allows students to select Choice Based Electives. At postgraduate levels, the allotment of research topics, research guides, research seminars, and critical reviews are done using the MIS system. This MIS</p>

	system has students and Employee Grievance modules which helps in the overall development of the Institute.
Administration	? Administration - Administrative MIS modules of the Institute helps in keeping service records of all the employees, maintaining their service books, promotion records, seniority, etc., and their total emoluments as well as records of their provident fund.
Finance and Accounts	? Finance and Accounts - Functions of the finance and accounts are precisely defined and are strictly followed with proper accounting practices making a record of each of the financial transactions using an e-governance mechanism. This helps in keeping records of receipt of funds, projects, consultancy income, donations, staff salary, and all types of purchases and payment of various utility bills and taxes.
Student Admission and Support	? Student Admission and Support - Students who desire to take admission for UG and PG programs of the Institute are required to make a formal application online on the Institute's MIS system by registering themselves. The data collected through this process is further used for making merit lists and admission lists of the eligible candidates and for online payment of the necessary fees
Examination	? Examination - MIS of the institute has well-defined modules for collecting the data related to marks of continuous evaluation, mid-semester, and end-semester marks, collection of question papers, the appointment of examiners, collection of the thesis, and declaration of final results. The mark sheets of all examinations are printed using examination modules.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. V. H. Dalvi	FUNMOLSIM 2019	IIT Kanpur	14000

[View File](#)

6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Statistical Design of Experiments	Nil	01/02/2019	02/02/2019	11	Nil
2019	Nil	Personal Reengineering for Professional Development Training	11/01/2019	13/01/2019	Nil	30

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Learn the electronic structure theory and quantum mechanical corruption	1	14/01/2019	19/01/2019	6

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
4	4	2	2

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
4	8	5

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Institute has a Accounts and Finance department headed by the Assistant Registrar. This administrative department controls the data related to all financial and monetary transactions of the Institute and conducts yearly budget allocation. The Institute has a separate finance committee chaired by the Vice-chancellor and this committee allocates finances for yearly and day-to-day activities of all academic and administrative departments. The Institute

prepares yearly audited statements and income expenditures statements by hiring services of the government-certified auditors. As a mandate, the Institute also completes audits of its finances by government-appointed auditors.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
B. Pharm (Batch of 1993)	160000	Pharma Scholarship Endowment
No file uploaded.		

6.4.3 – Total corpus fund generated

18384609

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Null	No	Null
Administrative	No	Null	No	Null

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

NA

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

<p>1. Parents actively participated in feedback survey and provided their feedback to NBA team whenever they were asked to do so 2. Parents were present when student had to chose for career options related to PG programmes and job opportunities. Besides, they also helped students for planning their abroad travels for education purpose. 3. Parents attended award functions and convocations and ensured to meet the faculties 4. Many parents who are alumni also join during the annual meet 5. Many parents who represents respective industries also offered internships and job opportunity to students.</p>

6.5.4 – Development programmes for support staff (at least three)

<p>(i) Training programmes were conducted to improve motivation and performance ability (ii) Support staff is supported for higher studies to enhance their qualification and CV. (iii) Workshops and programmes are conducted in various domains such as stress management, physical fitness. Special training programmes are organised which have specific relevance to the nature of the work such as administration, accounts, secretarial work. (iv) Personal Reengineering workshop for professional development training: The workshop was conducted to help individual support staff to cultivate a physically and mentally fit body and mind to enhance self-development. The workshop encompassed the following: 1. Aspects of personal reengineering and its importance in self development 2. Self-development and enhanced productivity 3. Tools and Techniques for enhanced well-being</p>
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6.5.5 – Post Accreditation initiative(s) (mention at least three)

<p>1. Formation of IQAC committee of the Institute 2. Formation of departmental IQAC committees 3. Syllabus revision with outcome based technique 4. Definition of course outcomes, program educational outcomes and program outcomes of all</p>
--

the programs of the institute. 5. Use of MIS academic and administrative functions. 6. Biometric of attendance of all the subjects. 7. Setting up E-Studio in the Institute. 8. Lecture recording system. 9. Wifi connectivity of all classrooms. 10. Academic and Administrative Audit of the Institute.

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	Yes

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Remedial Lecture for weak students	18/03/2019	18/03/2019	23/03/2019	12
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
'Women Empowerment in Science and Technology' in collaboration with NASI, Mumbai	13/05/2019	13/05/2019	43	34
Self Defence Workshop'	25/03/2019	25/03/2019	100	29

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Percentage of power requirement of the University met by the renewable energy sources 15 Installing PV modules of the rooftops of the Institute buildings.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	7
Provision for lift	Yes	7
Ramp/Rails	Yes	7
Braille Software/facilities	No	0

Rest Rooms	Yes	5
Scribes for examination	No	0
Special skill development for differently abled students	No	0
Any other similar facility	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
No Data Entered/Not Applicable !!!							
No file uploaded.							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Ordinances, Regulations and Rules	02/06/2008	June 2008
STATUTES	01/04/2014	April 2014

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Orientation Programme Art of Living	09/08/2019	30/08/2019	212
Induction cum Orientation Program	26/08/2019	26/09/2019	66
No file uploaded.			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Installation of PV Panels for harnessing solar energy 2. Using kitchen waste making compost 3. Using garden waste for making compost 4. Effluent treatment of laboratory drain and reuse of the same of gardening. 5. Paper less approvals for institute purchases. 6. Rain water harvesting.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

The institute believes in providing quality education and is committed to the implementation of best practices to achieve its vision of academic excellence. The best practices that the institute follows are: 1. SMART LEARNING/ SMART CLASSROOM TEACHING The institute believes in advanced pedagogy practices with a major focus on enhancing the performance of students. • Lecture Recording System Not all students are the same, few are slow learners and take a little more time than others to understand certain topics. Also sometimes, students

tend to mentally stay away from the lectures because of several distractions and this affects their performance. To improve understanding of the course content of students the institute has built and installed custom-made lecture recording systems in all the classrooms. The recorded lectures are available on the institute website and students can revisit these recorded lectures and clear their doubts at their convenience. These lectures are also available to the outside students who are willing to take credit and audit courses from ICT.

- **Use Of Smart Board To Teach Engineering Drawing** Engineering drawing is one of the most important subjects for engineering and technology students. Some students find it difficult to understand engineering drawings. The concept of smart boards is introduced in teaching to demonstrate several simulation software and engineering drawings for a better understanding of the subject.
- **Use Of Wi-Fi Connected LCD In All Class Rooms** The Institute emphasizes the use of modern teaching tools like PowerPoint presentations, demonstrative videos, and other e-files for a better understanding of the subjects. All classrooms are equipped with Wi-Fi-enabled LCD projectors to show PowerPoint presentations, videos, etc. during classroom teaching. At a time five laptops can be connected to one LCD. This connectivity helps in conducting interactive and problem-solving teaching practices wherein the faculty can ask students to project their laptops on the screen and present their work.
- **Use Of e-Books and e-Journals** The library is open from 8.30 am to 8.30 pm during the day and is also accessible beyond working hours through an electronic platform (E-Library). The e-library platform helps to check the availability of particular books on the shelf anytime and easier record management. The institute has electronic access to world-class leading research journals.
- **E-Attendance system** The institute has developed a custom-made biometric attendance system for student's attendance and to ensure delivery of the content. The main objective of having such a system was to attract students who tend to stay away from the lectures because of several distractions in terms of internet surfing and mobile apps. The system is based on wireless transmission of the attendance to a central server. Each class has a safe biometric lock which is opened only by the faculty member. The faculty initiates the lecture by selecting his/her course and class in a drop-down menu using the app on a tablet. A biometric machine is circulated amongst the students with preregistered fingerprints, so that each student, present in the class gets registered on the machine. At the end of the class when the app is closed, the names of registered students are sent to the central server. The names of the absent students are flashed on the tablet for a double check by the faculty. This new system has not only has ensured the attendance of the students but also helped in conducting timely lectures by the faculty. Students have the provision of giving feedback at the end of the class which is noted by teachers. The average attendance post-implementation of the E-system has improved from 50-60 to more than 90. Besides, students performance is enhanced as now they do not miss out on the continuous assessment tests that teachers conduct, sometimes as surprise tests.

2. MANAGEMENT INFORMATION SYSTEM (MIS) The Institute has adopted a new Management Information System (MIS) which takes care of all the activities related to academics, research, students, library, employees life cycle analysis, regulatory bodies compliance and accreditation, back-office work related to salaries, maintenance of leave musters, inventory stock, hostels, mess, library, etc. with a single database. The MIS system has been implemented for faculty recruitment, official documentation, attendance system, examination process, thesis approvals and submission formalities, grievances, counseling, admissions, appointment procedures, Internal quality assessment, etc. There are many modules of this system that have helped in streamlining and transparent functioning of various activities at the Institute. The MIS helps declare results of the Masters and Ph.D. entrance exams on the same day. The store inventory management including order placement, collaboration with the finance department has become much streamlined and sorted. The complete information of

different modules and respective data in those modules including the feedback surveys is available 24x7 as the entire campus is Wi-Fi enabled. The information is also available on the cloud and can be accessed through a mobile application.

3. ENVIRONMENT CONSCIOUSNESS Environment consciousness is enshrined in the mission of the Institute and irrespective of its urban surroundings, the Institute has a lush green campus. Tree plantation is the major concern to maintain the pristine purity and beauty of the institute and provide a congenial atmosphere for academic and non-academic pursuits. Even though no formal green audit is conducted, a lot of dedicated effort is put in to make the campus eco-friendly. There are 25 gardeners to carry out the horticulture work and the Institute has won the best garden award for several years. Informal green audit of the campus is carried out by the staff periodically by supervising the maintenance of the existing trees and locating places for planting new trees. Nurturing plants is one of the non-academic pursuits that develop eco-concern among the students. Efforts are made to make the Institute a polythene-free zone by removing plastic covers periodically from the campus.

4. ENERGY CONSERVATION: The Institute is committed to energy conservation and focuses on measures that help conserve energy.

- The energy consumption in the premises is closely monitored by the superintendents.
- The notices displayed near the switchboards prevent wastage of energy.
- All departments have timer introduced air conditioners
- All the motor pumps have a sensor-based switch on and off mechanism.
- All incandescent bulbs have been replaced with high efficient CFL and LED bulbs.

5. USE OF RENEWABLE ENERGY:

- The installation of 730 kW solar panels has led to a reduction of power bills of up to Rs. 20 lakh per month.
- The High-performance computational lab has Solar-powered air-conditioners
- Hostels have solar water heaters installed for the hot water supply.
- Research groups work on innovative concepts in the area of renewable energy such as solar-powered lights, cookers, dryers and, have received recognition from industrial and agricultural fields.

6. WATER HARVESTING: The Institute has two rainwater harvesting structures for the reuse of rainwater in washrooms and other purposes. A concept of eco-campus incorporating treatment and reuse of greywater, rain-water harvesting is being worked out to manage water usage.

7. EFFORTS FOR CARBON NEUTRALITY: The institute believes in maintaining a pollution-free campus and undertakes several measures to reduce carbon emissions. Various types of trees are planted inside and outside the campus which help maintain the ecosystem and reduce carbon emissions. Planting of saplings by the chief guests of various functions evinces the eco-consciousness inherent in the institute practices. Natural fertilizers are used for gardening on the campus. Circulars are sent through emails for minimizing the use of paper and the Institute is gradually moving towards a paperless system. The use of vehicles is discouraged inside the campus to maintain a pollution-free campus.

8. WASTE MANAGEMENT The institute encourages the management of waste generated within the campus and conducts regular workshops and seminars on waste disposal, their source, classification as well as pest control. Kitchen waste disposal The Institute practices efficient waste management of kitchen waste from hostel messes and, canteens which serve meals to around 1000 students per day. The cooked and uncooked waste generated from these messes is treated in the waste disposal and management plant set up on the campus and is converted to biogas and manure. The Biogasis used for running kitchen stoves and the manure is used as a fertilizer supplement in gardening. Hazardous waste management The institute has prohibited the use of plastic bags within the campus premises.

E-waste management

- Electronic goods are put to optimum use, repaired, and reused until completely out of order. The staff and laboratory assistants are well trained to perform minor repairs while professionals are hired for major repairs.
- The UPS batteries are recharged/repaired/exchanged by the suppliers.
- The obsolete computers and other wastes generated from the electronic equipment are auctioned to authorized e-waste dealers and the hazardous

materials are removed and disposed of as per norms. • The Institute in collaboration with the Waste to Energy Research and Technology Council India (WTERT- India), hosted the fourth annual conference on waste management of industrial, construction/demolition, municipal solid, and e-wastes as an uninterrupted resource for recovery of the valuables and energy on November 26 and 27, 2015 at ICT.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://www.ictmumbai.edu.in/uploaded_files/Best_Practices_2019-20.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Established on 1st October 1933 as a Department of Chemical Technology of the University of Mumbai, with a noble intention of advancing India's knowledge reserves in chemical science and technology, the Institute of Chemical Technology has grown to become a premier (deemed) university devoted to education, training, research and industrial collaboration in Chemical Engineering, Chemical Technology, Applied Chemistry, Pharmaceutical Sciences, Biotechnology, and Allied Sciences. It is a vibrant and invigorating institute, a symbiosis of academic excellence, culture, ethos, value systems, and an architect of new and useful knowledge in frontier areas of Chemical Engineering and Technology that is put in industrial practice over the past 86 Years. It is one of the top-performing institutions of the country in terms of Ph.Ds produced/year, refereed publications in reputed international journals, patents, output per faculty, PG/UG Ratio, and cost-effectiveness of its outcome. ICT has shown exceptional performance in curriculum Pedagogy, Technology, Research, Employability, and Institutional Social Responsibility, industry and academic collaborations (national and international). Based on its stellar performance and national and international accolades, the ICT was declared as an Elite Institute and Centre of Excellence by the Government of Maharashtra on 20th April 2012 in the State Assembly, on par with national institutes of importance such as IITs, IISc, and IISERs. This is a unique distinction for a state-owned university of any kind and speaks volumes about the sagacity of the government. The Padma Bhushan (8), Padamshree (8), and Padma Vibhushan (3) awards bestowed by the President of India on the Institutes faculty and alumni speak volumes about the Institutes performance. India has a total of six fellows of Royal Society in Engineering of which two are Chemical Engineers and both of them are from the ICT: Padma Vibhushan Prof. M.M. Sharma and Padma Vibushan Dr. R.A. Mashelkar. ICT has emerged as the topmost biotech School in India in the 10th Bio Spectrum top BT Schools Survey done in April-May 2013. A survey published by Professor Jude Sommerfeld of Georgia Tech., USA has shown ICT as the number one Institute in India far ahead of several others including IITs, and number four in the world in Chemical Engineering. The Melinda and Bill Gates Foundation USA has awarded FOUR grants to ICT Projects recently which Speaks volumes of ICT's Standings Internationally. The institute promotes Industry academia interaction and has been able to enhance its revenue generation and brand image due to multiple industrial projects. The ICT has produced an average of 4.5 papers per faculty at an average expense of 22 lakhs per faculty in the last couple of years. This is a record for a State-owned institute/university whose performance is exceptionally outstanding. Besides, ICT has filed/acquired 362 patents in the last 10 Years. ICT has produced more than 500 entrepreneurs to date and in a majority of the cases, most of them did not have any family background in business and have created empires out of nothing

Provide the weblink of the institution

https://www.ictmumbai.edu.in/uploaded_files/Performance_ICTMumbai_Distinctive_to_vision_priority_thrust.pdf

8.Future Plans of Actions for Next Academic Year

1. To encourage highly qualified faculty from India and abroad to apply and join the Institute. 2. To increase IPR and technology transfer output. 3. To create infrastructure in the two new campuses at Bhubaneswar and Jalna to run the innovative Programme. 4. To sign MOUs with industries for internship and Ph.D. fellowships. 5. To complete digitalization and to improve teaching and teaching pedagogy.