

Annual Report

2019-20



INSTITUTE OF CHEMICAL TECHNOLOGY, MUMBAI

| Mumbai | IOC Bhubaneswar | Marathwada Jalna
Category I Deemed to be University (MHRD/UGC)
Elite Status and Centre of Excellence, Govt. of Maharashtra

www.ictmumbai.edu.in

INSTITUTE OF CHEMICAL TECHNOLOGY

Deemed to be University under Section 3 of UGC Act 1956
NAAC A++ CGPA 3.77/4.00
NBA Accredited Programmes
NIRF Ranking(2018):
Engineering: 10, Pharmacy: 4



Elite Status and Centre of Excellence Govt. of Maharashtra
Category I Institute (MHRD/UGC) 12th FEBRUARY 2019,
State Funded Public Institute
QS (BRICKS) Ranking(2019): 115
NIRF (2018) Universities: 19; Overall: 30

with campuses at :

MUMBAI

Nathalal Parekh Marg, Matunga,
Mumbai – 400019, India;
Tel: 022-3361-1111/ 2222,
Fax: 022-3361-1020

IOC, BHUBANESWAR

ICT-IOC Odisha Centre,
Indian Institute of Technology,
Kharagpur Extension Centre,
Near Hotel Swosti Premium,
Mouza-Samantpuri, Bhubaneswar- 13

MARATHWADA, JALNA

M/s Beej sheetal Innovations Centre
Private Limited,
BT-6/7, Biotechnology Park,
Additional MIDC Area,
Aurangabad Road, Jalna- 431 203

Website: www.ictmumbai.edu.in

VISION

We shall perennially strive to be a vibrant institute with continuously evolving curricula to brighten the future of the chemical, biological, materials and energy industries of the nation, and rank amongst the very best in the world through active participation and scholarship of our faculty, students and alumni. We shall be creators of sprouting knowledge and design cuttingedge technologies that will have the greatest impact on society and benefit mankind at large.

MISSION

We shall generate and sustain an atmosphere conducive to germinating new knowledge at every available opportunity. The education we shall impart will enable our students to devise new solutions to meet the needs of all segments of society with regard to material and energy, while protecting the environment and conserving the natural resources. Our endeavours, while extending well beyond the confines of the classroom, will aim to enhance public welfare and our attempts to disseminate knowledge will spread to a greater multi- and cross-disciplinary platform to conduct research, discovery, technology development, service to industry and entrepreneurship, in consonance with India's aspirations to be a welfare state. We will team scientists and engineers with professionals in other disciplines to arrive at better solutions. We will provide all our students with a strong foundation to encourage them to be our ambassadors in the professional activities that they choose to undertake in service of society at national and international levels. Through our vision, we will serve the profession and society and strive to reach the summit as a team, and ultimately serve as role models to the younger generation.

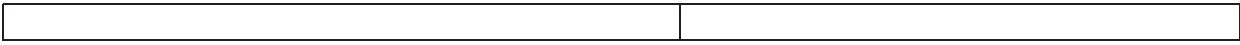
Vice Chancellor's Message

My dear present and future fellow stake holders of the Institute of Chemical Technology, I am very happy of having this opportunity to address you all. Institute of Chemical Technology, as you all know is a pioneering Institute of our nation and I am very happy to know that you all are part of this legacy. The Institute has a rich history of producing capable, competent and socially aware engineers and entrepreneurs and we all are extremely proud of their contribution to the nation building. Now, that I have been given the responsibility of heading and leading this institute, I have a fairly simple message to you all. Take pride in the work you do and find fun and enjoyment in that work. Also, feel proud of the fact that each one of you, in your own small and big way are contributing to this exciting process of nation building. ICT is committed to evolving a sustainable eco-system for the generation of new ideas to find simple implementable solutions to the industrial, agricultural and in general societal problems. Pushing the frontiers of knowledge exploiting the principles in the field of chemical sciences is the path we all have willingly and consciously chosen. Let us all give our best and also let the better not be the enemy of the best. The field of chemical sciences, which originated from the field of industrial chemistry in the past, has spread its wings exploring emerging areas of bio-technology, nano sciences, materials engineering, health and medicinal sciences (drugs, artificial organs and biological processes), agricultural sciences and many more. We all should be very happy of the fact that ICT has always been a step ahead and has been a trend setter in many of these emerging areas of chemical sciences and we all should continue to do so, as that has been our legacy since our beginning in 1933. The organic and extremely close linkages with the industry and the active participation and the involvement of our alumni has substantially contributed to this growth and also this direction of our efforts. The term chosen by our Alumni Association of Metamorphosis aptly describes our future direction and path. We should continue our efforts and address the issues of sustainability of our profession and knowledge and keep evolving and coming out even stronger. The role of innovation in this is very relevant and crucial. ICT has rightly chosen the focus on innovation; translating the fundamental and applied research carried out by its departments and centres in to sustainable process, products and services, which are beneficial to the man-kind in general. Our two new campuses, ICT Marthwada, Jalna Campus and ICT-IOC Bhuvanewar Campus have started with a clean slate and have explored innovation in education by adapting a revolutionary course structure for integrated M. Tech. programme. The students graduating from these campuses would have had significant industrial exposure and will be ready to contribute to the industry from day one. They all should feel extremely fortunate to be a part of this exciting new endeavour. To sum-up, I can assure you, that once, you are a part of this Institute as a student admitted through our admission process or a faculty or a support staff, institute is committed to your well-fare and overall development and progress and will explore every possible way to keep you happy, so that you can continue to contribute to the development of this great Institute.

Board of Management

Name of the Board of Management (BOM) member	Whether appointed by Govt. or nominated by Institute
Professor G.D. Yadav Vice Chancellor ICT From November 29, 2019 Professor A.B. Pandit	Vice Chancellor of the Institute
Mrs. Sandra Shroff Managing Director United Phosphorous Ltd.	Chancellor's Nominee who is a Distinguished Academician/ reputed industrialist
Shri S.M. Mokashi Since Jan 31, 2020 Shri J.R. Shah Director Jayvee Organics & Polymers Pvt.Ltd.	Distinguished alumni members appointed by the Chancellor in consultation with Board of Management
Shri M. B. Parekh Chairman and Managing Director Pidilite Industries Ltd.	
Shri C.V. Gogri Chairman Emeritus Aarti Industries Ltd. Since Jan 31, 2020 Shri Nitin Deshmukh CEO-Private Equity Kotak Investment Advisors Ltd.	
Shri Nikhil Meswani Executive Director Reliance Industries Ltd., Since Jan 31, 2020 Dr. Abhay Jere Chief Innovation Officer MHRD's Innovation Cell	
Shri Sitaram Kunte, IAS Additional Chief Secretary, Higher and Technical Education, Government of Maharashtra	Additional Chief Secretary/ Principal secretary/Secretary (Higher & Technical Education) Government of Maharashtra (Ex-Officio) or his nominee

<p>Professor Devang Khakhar Director, Indian Institute of Technology-Mumbai</p> <p>Since Jan 31, 2020</p> <p>Professor Manoj Kumar Tiwari Director, National Institute of Industrial Engineering (NITIE)</p>	<p>Head of academic institute/ organization of National Importance having international standing, to be decided by the remaining members of the Board.</p>
<p>Shri U. Shekhar Chairman Galaxy Surfactants Ltd.</p>	<p>One eminent industrialist to be nominated by Chancellor in consultation with Board of Management</p>
<p>Professor S.D. Samant Department of Chemistry ICT</p> <p>From January, 2019 - Professor Padma Devarajan Department of Department of Pharmaceutical Sciences and Technology ICT</p>	<p>Senior most Professor of the institute with at least one year of service left for retirement</p>
<p>Professor P.R. Vavia Dean (AP), ICT</p>	<p>Deans, not exceeding two (by rotation on seniority)</p>
<p>Professor A.B. Pandit Dean (HRD), ICT</p> <p>Since Jan 31, 2020</p> <p>Professor R.S. Singhal</p>	
<p>Shri Sanjiv Singh, Chairman, Indian Oil Corp Ltd. (As per letter sent to him on June 2, 2018)</p>	<p>Invitee</p>
<p>Professor S.S. Lele ICT (Upto 26 August, 2018)</p> <p>Professor R.R. Deshmukh ICT (From 27 August, 2018)</p>	<p>Registrar</p>



HEADS OF DEPARTMENT AND COORDINATORS OF COURSES AND CENTRES



Professor A.W. Patwardhan
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Coordinator, UGC-NRC-CE
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INSTITUTE AUTHORITIES



Professor (Dr.) Aniruddha B. Pandit

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Professor R. R. Deshmukh

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Professor P. R. Vavia, FIPA

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Professor S. P. Deshmukh

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Professor R. S. Singhal

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Professor P. V. Devarajan FMAS

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Coordinator, M.Tech. Pharma Biotech
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Prof. Anand V. Patwardhan

Chief, Industrial Training
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Professor G.D. Yadav

VICE CHANCELLOR

1. E-governance and IPC

Vice Chancellor
Dean AP
Dean, IQA
Head, IPC
System Engineer
COE
IPC Support staff - Invitee
OSD
A.R.(F&A)
Stores Suptd.
Registrar

Professor G.D. Yadav *
Professor P.R. Vavia
Professor S.S. Bhagwat
Dr. Parag Gogate
Ms. Madhuri Shete
Prof V K Rathod
Shri Yogesh Raut
Shri Deepak Jadiye
Shri Sachin B. Kadam
Dr. Satish Mane
Professor R.R. Deshmukh+

2. Finance

Vice Chancellor
A person nominated by society or trust
Two nominees of the Board of Governors, one of whom shall be a member of the Board
A representative of Central Government
A representative of the State Government.

A.R.(F&A)

Professor G.D. Yadav *
Shri Kirat Patel
Shri S. M. Mokashi
Shri C.V. Gogri

Shri Satish Tidke, Dy. Secretary, H&TED,
GoM
Shri Sachin B. Kadam +

3. Planning and Monitoring

Vice Chancellor *
7 Internal Members

Professor G.D. Yadav
Professor P.R. Vavia
Professor S.P. Deshmukh
Professor B.M. Bhanage
Professor A. B. Pandit
Professor S.S. Bhagwat
Professor A.W. Patwardhan
Professor Rekha Singhal

Outside eminent experts

Professor A. D. Sawant
Professor V.V. Khole

UGC nominee

Professor Vinod Kumar Singh
Former Director, ISSER Bhopal
Department of Chemistry
Indian Institute of Technology, Kanpur

Controller of Examinations (Invitee)
Registrar
Dean-AP

Professor V.K. Rathod
Professor R.R. Deshmukh
Professor P.R. Vavia +

4. Building and Works (suggested by UGC)

Vice - Chancellor

Professor G.D.Yadav *

A representative of the planning board of the University.

Professor B. M. Bhanage, Dean (ICD)

A representative of the User Department	Ex-officio
Two professors/Associate professors of the University nominated by the Vice – Chancellor.	Professor V.R. Gaval Professor S. P. Deshmukh
Finance Officer of the University	Shri S.B. Kadam
Principal of the Engg College or Head of Civil Engg Dept (where it exists), otherwise a person of equal status from a neighbouring University/college.	Shri K. Srinivas Head, Civil Engineering Dept BARC
Chief Engineer (civil) of CPWD or State PWD or his representative not below the rank of Superintending Engineer	Ex-officio, Chief Engineer Civil, MCGM Mumbai
A retired Chief Engineer/ Superintending Engineer (Civil) of CPWD / State PWD / Public sector undertaking.	Shri P.R. Kadam Retired City Engineer, MCGM
Superintending/Executive Engineer (Electrical) of CPWD or state PWD.	Chief Engineer, PWD, 25, Marzban Road, Fort, Mumbai 400001
Superintending/Executive Engineer (Public Health) of CPWD or state PWD	NA
University Engineer	Shri Milind Talathi
Senior most Architect of the University (where it exists), otherwise Chief Architect or person of equal status from a neighboring University or college	Shri Shivaji Patil, Shri Shivaji Patil and Associates
Chief Architect or Deputy Chief Architect or a person of equivalent status from a Centre or State Dept.	Professor Rajiv Mishra Incharge Principal, Sir J.J. School of Architect

Senior most Landscaping Expert of the University (where it exists), otherwise from some neighboring Institution/Govt Dept/Public Sector undertaking or to be hired as a consultant by the University for a limited period

As and when required

Registrar

Professor R.R. Deshmukh +

5. TEQIP

Various TEQIP Committees and TEQIP Board

*** Chairperson**

+ Member Secretary

REGISTRAR : Professor R.R. Deshmukh

a) Recruitment and promotions

Registrar	Professor R.R. Deshmukh *
Dean (HRD)	Professor A. B. Pandit
Dean (AP)	Professor P.R. Vavia
A.R. (F&A)	Shri Sachin Kadam
A.R. (Admn) / OSD	Shri Deepak Jadiye +

b) Service Books and Pension Cases

Registrar	Professor R.R. Deshmukh *
Dean (HRD)	Professor A. B. Pandit
Dean (AP)	Professor P.R. Vavia
A.R. (F&A)	Shri Sachin Kadam
A.R. (Admn) / OSD	Shri Deepak Jadiye +

c) Wardens

Registrar	Professor R.R. Deshmukh *
Hostel NO.1	Dr. A. Vijaykumar
Hostel NO. 2 (Ladies)	Mrs. Madhavi Wadkar
Hostel NO.3 (Ladies)	Dr. Jyoti Sontakke-Gokhale
Hostel NO.5 and Head Warden	Dr. P.D. Vaidya +
Dean (ICD) - Invitee	Professor B.M. Bhanage
A.R. (Admn) / OSD - Invitee	Shri Deepak Jadiye

d) Legal Cell and Tribunal

Registrar	Professor R.R. Deshmukh *
Dean (HRD)	Professor A. B. Pandit
Legal Advisor	Advt. Sandeep Chaubal
UAA President's nominee	Shri V.D. Sanghavi
A.R. (Admn) / OSD	Shri Deepak Jadiye +

*** Chairperson**

+ Member Secretary

ACADEMIC PROGRAMMES COMMITTEES
DEAN – Professor P.R. Vavia
ASSOCIATE DEAN – Professor S.P. Deshmukh

1. Admissions

a) PG Admissions

Associate Dean (AP)	Professor S.P. Deshmukh *
Professor/Associate Professor**	Dr. Dr. V. N. Telvekar**
One Associate Professor/Assistant Professor (Chem Engg.)	Dr. Sachin Jadhav
One Associate Professor/Assistant Professor (Tech.)	Dr. A. P. Pratap
One Associate Professor/Assistant Professor (Pharmacy)	Dr. G.U. Chaturbhuji
One Associate Professor/Assistant Professor (Gen. Engg.)	Dr. R.S.N.Sahai
One Associate Professor/Assistant Professor (Sci.)	
A.R. (Acad)	Dr. P.M. More
Registrar	
	Shri R.B. Sawant
	Professor R.R. Deshmukh +

b) UG Admissions

Dean AP*	Professor P. R. Vavia*
Professor/Associate Professor**	Professor U.S. Annapure**
One Associate Professor/Assistant Professor (Chem Engg.)	Dr. Sachin Jadhav
One Associate Professor/Assistant Professor (Tech.)	Dr. R.D. Kale
One Associate Professor/Assistant Professor (Pharmacy)	Dr. H.K. Chaudhari
One Associate Professor/Assistant Professor (Gen. Engg./Sci)	
A.R. (Acad)	Dr. Archana Kalekar
Registrar	
	Shri R.B. Sawant
	Professor R.R. Deshmukh+

c) Handbook

Associate Dean(AP)*	Professor S.P. Deshmukh *
Professor/Associate Professor**	Dr. D. D. Sarode**
Two Associate Professors	Dr. Ajit Kumar
	Smt. K. V. Marathe
Two Assistant Professors	Dr. P.H.Salame
	Dr. J. S. Waghmare
One Hostel Warden	Dr. A. Vijaykumar
Sr. Librarian	Smt. Madhavi Wadkar
A.R. (Acad)	Shri R.B. Sawant
Registrar	Professor R.R. Deshmukh+

2. Undergraduate Programmes

Dean (AP) *
Associate Dean (AP)
HOD's (All Departments)
Course Co-ordinators

Principal of Recognised College (Ex-officio)
Professor IIT- Bombay (Ex-officio)
General Secretary, Technological Association
(Ex-officio)
Technical Secretary, Technological
Association (Ex-officio)
Registrar

Professor P. R. Vavia*
Professor S.P. Deshmukh
Professor A.W. Patwardhan
Professor R. V. Adivarekar
Dr.S.T. Mhaske
Professor Srirang Joshi
Professor U. S. Annapure
Professor G. S. Shankarling
Dr. D.D. Sarode
Professor Radha Jayaram
Dr. Mohan Narayan
Dr. Ajit Kumar
Professor R. Shinde

Professor R. Murugvel
Ex-officio

Ex-officio

Professor R.R. Deshmukh +

3. Post Graduate Programmes including Diploma Course in Chemical Tech. Management (CTM); Certificate Course in Chemical Safety and Risk Management, Corrosion Control

Associate Dean (AP)
HOD's (All Departments)
Course Co-ordinators

Principal of Recognised College (Ex-officio)
Professor IIT- Bombay (Ex-officio)
General Secretary, Technological Association
(Ex-officio)
Technical Secretary, Technological
Association (Ex-officio)
Registrar

Professor S.P. Deshmukh *
Professor A.W. Patwardhan
Professor R. V. Adivarekar
Dr. S.T. Mhaske
Professor Srirang Joshi
Professor U. S. Annapure
Professor G. S. Shankarling
Dr. D.D Sarode
Professor Radha Jayaram
Dr. Mohan Narayan
Dr. Ajit Kumar
Professor S.S. Bhagwat
Dr. Parag Gogate
Dr. Laxmi Ananthanarayan
Professor P. V. Devarajan
Dr. P.D. Vaidya
Professor R. Shinde

Professor R. Murugvel
Ex-officio

Ex-officio

Professor R.R. Deshmukh+

4. Academic Activities

- (a) Academic Calendar
- (b) Lecture Schedule/ Classroom Allocation
- (c) Visiting Faculty

Dean AP
Associate Dean (AP)
Associate Professor/Assistant Professor
Four Associate Professors/Assistant
Professors

One Hostel Warden
COE
A.R. (Acad)
Registrar

Professor P. R. Vavia*
Professor S.P. Deshmukh
Smt. Prerna Goswami **
Dr. A.S. Sabnis
Dr. Jyoti Sontakke-Gokhale
Dr. V.H. Dalvi
Dr. S.T.. More
Dr. A. Vijaykumar
Professor V.K. Rathod
Shri R.B. Sawant
Professor R.R. Deshmukh +

5. Student Diary

Dean AP
Associate Professor/Assistant Professor
Four Assistant Professors

Sr. Librarian
Registrar

Professor P. R. Vavia*
Dr. S. S. Tiwari**
Dr. P. D. Jain
Dr. P.K. Kundu
Dr. Reena Pandit
Dr. Satyajit Saha
Smt. Madhavi Wadkar
Professor R.R. Deshmukh +

6. Convocation

Dean AP
Associate Dean (AP)
VP TA
GS-TA
Controller of Examination
One Associate Professor/Assistant Professor
A.R. (Acad)
Registrar

Professor P. R. Vavia*
Professor S.P. Deshmukh
Professor P.D. Amin
Ex-officio
Professor V.K. Rathod
Dr. Ashwin Mohan

Shri R.B. Sawant
Professor R.R. Deshmukh +

7. Student Academic Interface/ Students' Feed back

Dean AP
VP-TA and Dean-SAA
Controller of Examination
One Professor
Two Associate Professors/Assistant
Professors
General Secretary, Technological Association
Invitee
A.R. (Acad)

Professor P. R. Vavia*
Professor P.D. Amin
Professor V.K. Rathod
Professor R.V. Jayaram
Dr. V. N. Telvekar
Dr. S.T. More
Ex-officio

Shri Ganesh Chiman
Shri R.B. Sawant +

8. Research Colloquium

Associate Dean (AP)
Departmental Colloquium Incharge Department
HOD or his or her nominee

Professor S.P. Deshmukh *
Departmental Colloquium Incharge –
Department HOD or his or her
nominee

9. Digital Learning Monitoring Cell (DLMC)

Nodal Officer	Dr. C.S. Mathpati *
Controller of Examination	Professor V.K. Rathod
	Dr. Parag Gogate
	Dr. Adarsh Rao
	Dr. Anagha S. Sabnis
	Dr. S. Some
	Dr. R.D. Kale
	Dr. V. Dalvi
Sr. Librarian	Smt. M.M. Wadkar
System Engineer	Smt. Madhuri Shete
Registrar	Professor R.R. Deshmukh +

10. Fee Structure

Dean, AP)	Professor P.R.Vavia *
Dean, VP-TA & Dean (SAA)	Professor P.D. Amin
Dean, (HRD)	Professor A. B. Pandit
Nodal Officer	Dr. C.S. Mathpati
Warden Hostel No. 5	Dr. P.D. Vaidya
A. R. (Admin)/ OSD	Shri Deepak Jadiye
A. R. (Acad)	Shri R. B. Sawant
A. R. (F& A.)	Shri Sachin Kadam
Student representative	To be invited appropriate to the agenda
Registrar	Professor R.R. Deshmukh +

* Chairperson

** Co-Chair

+ Member Secretary

HUMAN RESOURCE DEVELOPMENT (HRD) COMMITTEES
DEAN – Professor A.B. Pandit

1. Faculty and Support Staff Welfare (As per AICTE norms)

(a) Support Staff Educational support (Golden Jubilee Welfare Fund, Kalyanji Velji Parekh Foundation, Excel Industries, Trivenikalyan Foundation, Professor J.G. Kane, Professor V. A. Shenai Endowment etc.) (b) 2 sets of uniforms for Class IV employee, (c) Health insurance, (d) Accident insurance, (e) Training, (f) Travel Grant (Golden Jubilee/ NOCIL/ Dr. G.P. Kane), (g) Support staff magazine (Hindola)

Dean (HRD)	Professor A. B. Pandit *
Three Professors/Associate Professors	Professor Vinita D. Deshpande Professor V.K. Rathod
Two support staff members	Dr. (Smt.) Laxmi Ananthnarayan Shri Pravin Gaikwad
UAA President's nominee	Shri Yogesh Raut
A.R. (Admn) / OSD	Shri V.D. Sanghavi
Registrar	Shri Deepak Jadiye Professor R.R. Deshmukh +

2. Grievances Redressal and Disciplinary Action Cell (As per AICTE norms)

Dean (HRD)	Professor A. B. Pandit *
Faculty (Female representative)	Professor (Smt.) Radha V. Jayaram
Faculty (Male representative)	Professor P.R. Vavia
Support Staff (Female representative)	Smt. Vanita Howal
Support Staff (Male)	Shri Prabhakar Gaikwad
UAA President's nominee	Shri V.D. Sanghavi
Registrar or A.R. (Admn) / OSD	Professor R.R. Deshmukh / Shri Deepak Jadiye +

3. Committee for SC/ST (As per AICTE norms)

Dean (HRD)	Professor A. B. Pandit *
Four Professors/Associate Professors	Professor R.N. Jagtap Professor V.K. Rathod Dr. S.G. Dawande Dr. Usha Sayed <i>Ex-officio</i>
Lady Representative, Technological Association (Ex-officio)	
Registrar	Professor R.R. Deshmukh
A.R. (Admn) / OSD	Shri Deepak Jadiye +

4. Anti-ragging (As per AICTE norms)

Dean (HRD)	Professor A. B. Pandit *
Head Warden	Dr. P.D. Vaidya
Three Professors/Associate Professors	Professor (Smt.) P.V. Devarajan Professor Radha Jayaram Professor G.S. Shankarling
Support Staff	Dr. Satish Mane
Counsellor	Ms. Malini Shah
A.R. (Admn) / OSD	Shri Deepak Jadiye
VP, Technological Association (Ex-officio)	Professor P.D. Amin
GS, Technological Association (Ex-officio)	<i>Ex-officio</i>
Concerned HOD (Invitee)	
Registrar	Professor R.R. Deshmukh +

5. Anti-ragging Saud (As per AICTE norms)

Dean (HRD)	Professor A. B. Pandit *
All Hostel Wardens	Dr. A. Vijaykumar
	Mrs. Madhavi Wadkar
	Dr. (Mrs.) Jyoti Sontakke-Gokhale
	Dr. P.D. Vaidya

6. Women Cell including Cell to Eliminate Sexual Harassment / Woman Empowerment Cell / Gender Equality (As per AICTE norms)

Registrar	Professor R.R. Deshmukh *
Dean (HRD)	Professor A. B. Pandit – Co-Chair
Faculty (Female representative)	Professor J.M. Nagarkar
Faculty (Male representative)	Professor R.N. Jagtap
Two Associate Professors	Smt. K.V. Marathe
	Dr. (Smt.) Shalini S. Arya
	<i>Ex-officio</i>
Lady representative, TA	Shri R.B. Sawant +
A.R. (Admn) / A.R. (Acad)	

7. Mentoring and Counselling Cell (As per AICTE norms)

Dean (HRD)	Professor A. B. Pandit *
Head Warden (Invitee)	Dr. P.D. Vaidya
Three Professors/Associate Professors	Professor R.V. Adivarekar
	Professor Anand Patwardhan
Counsellor	Professor Padma Devarajan
A.R. (Admn) / OSD (Invitee)	Ms. Malini Shah
(Invitee)	Shri Deepak Jadiye
GS, Technological Association (Ex-officio)	Professor P.D. Amin
Concerned HOD	Invitee
Registrar	Invitee
	Professor R.R. Deshmukh +

8. Outreach activity / social responsibility

Dean (HRD)	Professor A. B. Pandit *
Professors/Associate Professors	Professor Anand Patwardhan–Co Chair
	Dr. R.D. Kale
	Professor P.A. Mahanwar
General Secretary, TA	<i>Ex-officio</i>
Cultural Secretary, TA	<i>Ex-officio</i>
Lady representative, TA	<i>Ex-officio</i>
A.R. (Admn) / OSD	Shri Deepak Jadiye +

* Chairperson

+ Member Secretary

RESEARCH CONSULTANCY AND RESOURCE MOBILIZATION (RCRM) COMMITTEES

DEAN – Professor Rekha Singhal

1. Research Collaborations, IPR and Technology Transfer

Dean (RCRM)	Professor Rekha S. Singhal *
Professor Padma Devrajan	
Professor R.N. Jagtap	
Professor A.W. Patwardhan	
Registrar	Professor R.R. Deshmukh +

2. Library

Dean (RCRM)

Sr. Librarian

Professor

Two Associate Professor/Assistant

Professor

A.R. (Admn) / OSD

Registrar

Professor Rekha S. Singhal *

Smt. Madhavi Wadkar

Professor Srirang Joshi

Dr. Ashwin Mohan

Dr. Nabanita Sadhukhan

Shri Deepak Jadiye

Professor R.R. Deshmukh +

3. Merit-cum-means and Trust Scholarships

Dean RCRM

Professor/Associate Professor**

One Associate Professor

Two Assistant Professor

Professor Rekha S. Singhal *

Professor V.K. Rathod**

Professor S. S. Sathaye

Dr. A. P. Pratap

Dr. S.G. Dawande

Vice President T. A. (Ex-officio)

UAA BOG Sr.VP (Non Faculty) (Ex-officio)

Distinguish Alumnus (Nominated by BOG UAA)

(Ex-officio)

OSD

Registrar

Professor P.D. Amin

Dr. S. V. Mehendale

Shri Dilip Udas

Shri Deepak Jadiye

Professor R.R. Deshmukh +

4. Upgradation, Evaluation and Fellowships

Dean (RCRM)

HOD of the respective Department

One Senior faculty from respective Department

One Senior faculty from another Dept or expert from industry

Principal Investigator or Co- Principal Investigator +

Professor Rekha S. Singhal *

5. Annual Report/ICT Diary/Posters

Dean RCRM

Dean IQA

Head, Department of Chemical Engineering

Head, Department of Pharmaceutical

Sciences and Technology

Nodal Officer

Professor Rekha S. Singhal *

Professor S.S. Bhagwat

Professor A.W. Patwardhan

Professor S.V. Joshi

Dr. C.S. Mathpati

* Chairperson

** Cochair

+ Member Secretary

INFRASTRUCTURE AND CAMPUS DEVELOPMENT (ICD) COMMITTEES

DEAN – Professor B.M. Bhanage

ASSOCIATE DEAN - Professor V.R. Gaval

1. Campus Development

(a) Maintenance

Associate Dean

Head, General Engg. Dept

Workshop Foreman

University Engineer

I/c Jr. Electrical Engr.

A.R. (Admn) / OSD

AR (F&A)

Professor V.R. Gaval *

Dr. D.D. Sarode

Shri V.B. Gorule

Shri Milind Talathi

Shri Prakash Jadhav

Shri Deepak Jadiye

Shri Sachin Kadam

Stores Suptd. System Engineer Registrar	Dr. Satish M. Mane Mrs. Madhuri Shete Professor R.R. Deshmukh +
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(b) **Beautification** (For Garden, Sports facilities, Ground, Classrooms, Library)

Associate Dean One Faculty (for Garden) One Faculty (for Sports Facilities and ground) One Faculty (for Classroom) Sr. Librarian University Engineer Electrical Engr. AR (Admn) / OSD AR (F&A) Stores Suptd. Registrar	Professor V.R. Gaval * Dr. P.D. Vaidya Professor Ravi Adivarekar Dr. V.H. Dalvi Smt. Madhavi Wadkar Shri Milind Talathi Shri Prakash Jadhav Shri Deepak Jadiye Shri Sachin Kadam Dr. Satish M. Mane Professor R.R. Deshmukh +
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2. Campus Security

Dean (ICD) Associate Dean Three faculty members Mrs. Madhavi Wadkar Dr. C.S. Mathpati AR (Admn) / OSD System Engineer I/c Jr. Electrical Engr. Registrar	Professor B.M. Bhanage * Professor V.R. Gaval Dr. P.D. Vaidya Shri Deepak Jadiye Mrs. Madhuri Shete Shri Prakash Jadhav Professor R.R. Deshmukh +
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3. Material Procurements and Disposal

(a) **Material Procurement Committee**

Dean (ICD) Associate Dean Head, CE Head, Pharma Head, Textiles Two Asst Professors AR (Admn) / OSD Head Warden University Engineer I/c Jr. Electrical Engr. AR (F&A) Stores Suptd. Registrar	Professor B.M. Bhanage * Professor V.R. Gaval Professor A.W. Patwardhan Professor Srirang Joshi Professor R.A. Adivarekar Dr. Sachin Jadhav Dr. S.S. Chakraborty Shri Deepak Jadiye Dr. P.D. Vaidya Shri Milind Talathi Shri Prakash Jadhav Shri Sachin Kadam Dr. Satish M. Mane Professor R.R. Deshmukh +
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(b) **Campus Safety, Disposal and Dead-stock**

Associate Dean Nominations from all Depts. Dr. R.D. Kale Dr. A. Vijaykumar Dr. Surajit Some Dr. C.S. Madankar Dr. Anagha Sabnis	Professor V.R. Gaval * Dr. V. Divya
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Dr. Lakshmi Ananthnarayan
Dr. G.U. Chaturbhuj
Dr. Ashwin Mohan
Dr. S.S Reshamwala
Mrs. Madhuri Shete
Head Warden
AR (Admn) / OSD
AR (F&A)
University Engineer
I/c Jr. Electrical Engr.
Stores Suptd.
Registrar

Dr. P.D. Vaidya
Shri Deepak Jadiye
Shri Sachin Kadam
Shri Milind Talathi
Shri Prakash Jadhav
Dr. Satish M. Mane
Professor R.R. Deshmukh +

4. Campus Accommodation :

Dean (ICD)
Head, GE Dept.
Two faculty members

Two Representatives from
Support Staff
Registrar

Professor B.M. Bhanage *
Dr. D.D. Sarode
Professor A. W. Padwardhan
Professor V.B. Patravale
Shri Yogesh Raut
Shri Prakash Jadhav
Professor R.R. Deshmukh +

5. Infrastructure Committee :

Dean (ICD)
Associate Dean
Head, GE
I/c Jr. Electrical Engr.
Stores Suptd.
Campus Architect (Invitee)
University Engineer
AR (F&A)
Registrar

Professor B.M. Bhanage *
Professor V.R. Gaval
Dr. D D Sarode
Shri Prakash Jadhav
Dr. Satish M. Mane
Shri Rahul Manohar, RMM Design
Shri Milind Talathi
Shri Sachin Kadam
Professor R.R. Deshmukh +

6. Canteen and Catering (As per NBA)

Associate Dean
One Professor
One Assistant Professor
Stores Suptd.
Student representative
Registrar

Professor V.R. Gaval *
Professor Anand Patwardhan
Dr. S.S. Chakraborty
Dr. Satish M. Mane
GS-TA (Ex-officio)
Professor R.R. Deshmukh +

7. DAE Research Centre Project Committee

Dean (ICD)
Associate Dean
Co-ordinator, Homi Sethna ICT-DAE Centre
Co-coordinator, Homi Sethna ICT-DAE Centre
University Engineer
I/c Jr. Electrical Engr.
AR (F&A)
Stores Suptd.
Project Consultant Management, Exigo
Technical Advisor to ICT, RMM Design
Registrar

Professor B.M. Bhanage *
Professor V.R. Gaval **
Professor A.B. Pandit
Professor A.W. Patwardhan
Shri Milind Talathi
Shri Prakash Jadhav
Shri Sachin Kadam
Dr. Satish M. Mane
Shri Shashank Mehendale
Shri Rahul Manohar (Invitee)
Professor R.R. Deshmukh +

DEAN – INTERNAL QUALITY ASSURANCE (IQA)

Professor S.S. Bhagwat

1. All functions

Dean IQA	Professor S S Bhagwat *
Dean (AP)	Professor P.R. Vavia
Dean (ICD)	Professor B.M. Bhanage
Dean (RCRM)	Professor R.S. Singhal
Dean (HRD)	Professor A.B. Pandit
Controller of Examinations	Professor V.K. Rathod
Associate Dean (AP)	Professor S.P. Deshmukh
Associate Dean (ICD)	Professor V. R. Gaval
One nominee of Alumni (not from faculty)	
Nodal Officer	Dr. C.S. Mathpati +

2. Administrative

Dean IQA	Prof S S Bhagwat *
Nodal Officer	Dr. C.S. Mathpati
AR(F&A)	Shri Sachin Kadam
AR(acad)	Shri R. B. Sawant
AR(adm)/OSD	Shri Deepak Jadiye
Coordinator of MIS	Mrs. Madhuri Shete
One nominee of students	TA nominee
One nominee of alumni	UAA nominee
Registrar	Prof R. R. Deshukh +

3. Academic

Dean IQA	Prof S S Bhagwat *
All HODs	
One nominee of students	TA nominee
One nominee of alumni (not from faculty)	UAA nominee
One nominee of employers/industrialists (not from alumni)	
One Senior academician from outside Institute	
Nodal Officer	Dr. C.S. Mathpati +

4. Apex Institutional Quality Assurance Cell

Dean IQA	Prof S S Bhagwat *
Dean (AP)	Professor P.R. Vavia
Dean (RCRM)	Professor R.S. Singhal
HoDs of 7 UG program departments	Professor A.W. Patwardhan
Chem Engg, Pharma, Oils, Foods, Surface Coating and Polymer, Dyes, Textiles	Professor S.V. Joshi
	Dr. Amit Pratap
	Professor U.S. Annapure
	Dr. S.T. Mhaske
	Professor G.S. Shankarling
	Professor U.S. Annapure

One nominee of students (should be from one of the above committees)

One nominee of alumni (not from faculty, should be from one of the above committees)

One nominee of Industrialists/Employers (should be from one of the above committees)

Registrar
Nodal Officer

Prof R R Deshukh
Dr. C.S. Mathpati +

5. Departmental Institutional Quality Assurance Cell

Head of the Department
Dean (IQA) OR his/her nominee
Two Senior Alumni

*

One from industry and one from research/ academia

A senior faculty member from other institute (non-alumnus)

One Alumnus who graduated within last 5 years

One senior faculty member from the Dept

One Senior faculty member from other Department in ICT

Dean (AP)/Dean (RCRM) OR his/her nominee

One student nominee each from UG and PG/PhD

One Associate Professor or Assistant Professor from the concerned Department +

6. NBA/NAAC

Dean (IQA)

Associate Dean AP

Associate Professor/Assistant Professor

AR (F&A)

Nodal Officer

Professor S.S. Bhagwat *

Professor S.P. Deshmukh

Dr. S.T. More

Dr. S. S. Tiwari

Dr. S.C. Chakraborty

Shri Sachin Kadam

Dr. C.S. Mathpati +

* Chairperson

+ Member Secretary

**VICE PRESIDENT – TECHNOLOGICAL ASSOCIATION AND
DEAN-STUDENT AND ALUMNI AFFAIRS (VP-TA and Dean-SAA)**

Professor P.D. Amin

1. Student Welfare and Mentorship

Five faculty members

Dr. A. Vijay kumar
Dr. P. R. Gogate
Dr. Anagha Sabnis
Dr. A. P. Pratap
Dr. Jyoti Sontakke-Gokhale

Ex-officio

General Secretary, Technological Association
Technical Secretary, Technological Association
Cultural Secretary, Technological Association
Registrar

Ex-officio

Ex-officio

Professor R.R. Deshmukh +

2. Cultural and co-curricular activity

Faculty representative and Co-Chair
General Secretary, Technological Association
Cultural Secretary, Technological Association
A.R. (Admn) / OSD +

Professor G.S. Shankarling
Ex-officio

Ex-officio

Shri Deepak Jadiye

3. Sports

Co-chair
Associate/Assistant Professor
General Secretary, Technological Association
Sports Secretary, Technological Association

Professor R.V. Adivarekar
Dr. H.K. Chaudhari
Ex-officio

Ex-officio

4. Publications

(a) Bombay Technologist

Co-Chair
One Professor
Bombay Technologist PG Secretary 2yr,
Technological Association
Bombay Technologist UG Secretary 1,
Technological Association
Bombay Technologist PG Secretary 1yr,
Technological Association +

Professor V. B. Patravale
Professor M. S. Degani
Ex-officio

Ex-officio

Ex-officio

(b) Spirit (ICT Patrika)

Co-Chair
Sr. Librarian

Dr. Mohan Narayan
Mrs. Madhavi Wadkar

Cultural Secretary, Technological Association *Ex-officio*
Literary Secretary, Technological Association + *Ex-officio*

5. Election

Co-chair Professor R.V. Adivarekar
Associate/Assistant Professor Professor G.S. Shankarling
General Secretary, Technological Association *Ex-officio*
Technical Secretary, Technological Association
Cultural Secretary, Technological Association *Ex-officio*
Ex-officio

6. Vortex

Co-chair Professor S.V. Joshi
Associate/Assistant Professor Dr. V.S. Dalvi
General Secretary, Technological Association *Ex-officio*
Technical Secretary, Technological Association
Cultural Secretary, Technological Association *Ex-officio*
Ex-officio

7. Media publicity

Co-chair Professor G.S. Shankarling
Two Associate/Assistant Professor Dr. Sanghamitra Chatterjee
Dr. Neetu Jha
General Secretary, Technological Association *Ex-officio*
PG Representative, Technological Association
Ex-officio

* **Chairman**
+ **Member Secretary**

Controller of Examinations
Professor V.K. Rathod

1. Undergraduate Examinations
Exam. Time-Tables

COE (Ex-officio)
Dean (AP) (Ex-officio)
One Professor
Two Assistant Professors

A.R. (Acad)
Registrar

Professor V.K. Rathod *
Professor P.R. Vavia
Professor U.S. Annapure
Dr. V. H. Dalvi
Dr. A. R. Rao
Shri R.B. Sawant
Professor R.R. Deshmukh +

Examination

COE
Four Professors

Two Associate Professors

Dean AP
Hostel Warden
A.R. (Acad)
Registrar

Professor V.K. Rathod,*
Professor R.V. Adivarekar
Professor R. V. Jayaram
Professor A. V. Patwardhan
Professor P.D. Amin
Dr. L. Ananthnarayan
Dr. Mohan Narayan
Professor P. R. Vavia
Dr. P.D. Vaidya
Shri R.B. Sawant
Professor R.R. Deshmukh +

2. Postgraduate Examinations

COE
Dean (AP)
One Professor
Two Assistant Professors

A.R. (Acad)
Registrar+

Professor V.K. Rathod *
Professor P.R. Vavia
Professor U.S. Annapure
Dr. V. H. Dalvi
Dr. S. V. Jadhav
Shri R.B. Sawant
Professor R.R. Deshmukh +

3. Unfair means in examinations and Vigilance squad

COE
Dean (HRD)
Professor
Associate Professors/Assistant Professors

Counselor
A.R. (Acad)
Registrar+

Professor V.K. Rathod *
Professor A.B. Pandit
Professor P. R. Vavia
Mrs. K. V. Marathe
Dr. Ajit Kumar
Ms. Malini Shah
Shri R.B. Sawant
Professor R.R. Deshmukh +

4. Examination Audit

COE
Dean (AP)
Two COE of outside Universities

Registrar

Professor V.K. Rathod *
Professor P.R. Vavia
Dr. V.B. Dharmadhikari, Walchand
College, Sangli
Dr. Y.N. Patil. COE, BATU
Professor R.R. Deshmukh +

*** Chairperson**
+ Member Secretary

List of Programs

Number of Undergraduate Programmes	<ul style="list-style-type: none"> • Bachelor of Chemical Engineering • Bachelor of Pharmacy • B.Tech Dyestuff Technology • B.Tech Food Engineering and Technology • B.Tech Fibres and Textile Processing Technology • B.Tech Oils, Oleochemicals and Surfactant Technology • B.Tech Pharmaceutical Chemistry and Technology • B.Tech Polymer Engineering and Technology • B.Tech Surface Engineering and Technology
Number of Postgraduate Programmes	<ul style="list-style-type: none"> • M. Chemical Engineering • M. Pharmacy • M. Tech - Dyestuff Technology • M. Tech.- Foods Engineering and Technology • M. Tech - Fibres and Textile Processing Technology • M. Tech - Oils, Oleochemicals and Surfactant Technology • M. Tech - Pharmaceutical Chemistry and Technology • M. Tech - Polymer Engineering and Technology • M. Tech - Surface Engineering and Technology • M. Tech - Food Biotechnology • M. Tech - Bioprocess Technology • M. Tech - Perfumery and Flavour Technology • M. Tech - Green Technology • M. Tech. Pharmaceutical Biotechnology • M.E. (Plastic Engineering) • M.Sc.(Chemistry) • M.Sc.(Textile Chemistry) • M.Sc.(Engineering Mathematics) • M.Sc.(Physics)
Ph.D Degree programmes offering, if applicable (Yes/No)	<ul style="list-style-type: none"> • Ph.D(Tech.) Chemical Engineering • Ph.D (Tech.) Bioprocess Technology • Ph.D (Tech.) Polymer Engineering and Technology • Ph.D (Tech.) Surface Coating Technology • Ph.D (Tech.) Nanotechnology • Ph.D (Tech.) Plastic Engineering • Ph.D (Tech.) Pharmaceutical Technology • Ph.D (Tech.) Pharmaceutics • Ph.D (Tech.) Pharmacology • Ph.D (Tech.) Pharmacognosy • Ph.D (Tech.) Pharmaceutical Chemistry • Ph.D (Tech.) Civil Engineering • Ph.D (Tech.) Dyestuff Technology • Ph.D (Tech.) Oils, Oleochemicals and Surfactant Technology • Ph.D (Tech.) Green Technology • Ph.D (Tech.) Fibres and Textile Processing Technology • Ph.D (Tech.) Food Biotechnology • Ph.D (Tech.) Food Engineering and Technology

- Ph.D (Tech.) Mechanical Engineering
- Ph.D (Tech.) Electrical Engineering
- Ph.D (Tech.) Electronic Engineering
- Ph.D (Tech.) Perfumery & Flavour Technology
- Ph.D (Sci.) Mathematics
- Ph.D (Sci.) Textile Chemistry
- Ph.D (Sci.) Biotechnology
- Ph.D (Sci.) Physics
- Ph.D (Sci.) Food Science
- Ph.D (Sci.) Chemistry
- Ph.D (Sci.) Biochemistry

ACADEMIC CALENDAR 2019 – 2020

The following shall be the Academic Calendar :

(A) DIVISION OF SEMESTERS FOR ALL COURSES

Odd Semester

First Year and Final Year (UG & PG) : August 08, 2019 (Thu.) to December 31, 2019 (Tue.)
Second (UG & PG) & Third Year (UG) : July 01, 2019 (Mon.) to November 30, 2019 (Sat.)
Ganpati Vacation (UG and PG) : September 02 2019 (Mon.) to September 07, 2019 (Sat.)
Diwali Vacation (UG and PG) : October 28, 2019 (Mon.) to November 05, 2019 (Tue.)

Even Semester

First Year and Final Year (UG & PG) : December 16, 2019 (Mon.) to May 16, 2020 (Sat.)
Second (UG & PG) & Third Year (UG) : January 01, 2020 (Wed.) to May 16, 2020 (Sat.)
December 16, 2019 (Mon.) to May 16, 2020 (Sat.)

Summer Vacation

: May 17, 2020 (Sat.) to June 30, 2020 (Tue.)

(B) EXAMINATION SCHEDULE FOR ALL COURSES

Mid Semester Examination

Odd Semester

First Year and Final Year (UG & PG) : October 19, 2019 (Sat.) to October 25, 2019 (Fri.)
Second (UG & PG) & Third Year (UG) : August 23, 2019 (Fri.) to August 30, 2019 (Fri.)
Even Semester (UG and PG) : February 07, 2020 (Fri.) to February 14, 2020 (Fri.)

(C) SEMESTER EXAMINATIONS FOR ALL COURSES

ODD SEMESTER

a) Theory

First Year and Final Year (UG & PG) : December 16, 2019 (Mon.) to December 23, 2019 (Mon.)
Second (UG & PG) & Third Year (UG) : November 11, 2019 (Mon.) to November 19, 2019 (Tue.)

b) Practical

First Year and Final Year (UG & PG) : December 24, 2019 (Tue.) to December 31, 2019 (Tue.)
Second (UG & PG) & Third Year (UG) : November 20, 2019 (Fri.) to November 30, 2019 (Mon.)

c) Evaluation & Declaration of Results

: Within 45 days after examinations

EVEN SEMESTER

a) Theory

First, Second and Final Year (UG) : April 24, 2020 (Fri.) to May 04, 2020 (Mon.)
Third Year (UG) : April 15, 2020 (Wed.) to April 22, 2020 (Wed.)
First and Second Year (PG) : May 08, 2020 (Fri.) to May 16, 2020 (Sat.)

b) Practical

First, Second and Final Year (UG) : May 05, 2020 (Tue.) to May 16, 2020 (Sat.)
Third Year (UG) : April 23, 2020 (Thu.) to April 30, 2020 (Thu.)
First and Second Year (PG) : April 24, 2020 (Fri.) to May 07, 2020 (Thu.)

c) Evaluation & Declaration of Results

: Within 45 days after examinations

Students Activities:-

- **Orientation programme for new students : Three weeks of academic session**

Ranking Details (2019-20)

- 1) NIRF Ranking 2019-2020: Pharmacy - 4, Engineering - 18, University: 18, Overall: 34
- 2) QS World University Rankings: Asia – 152, India – 22
- 3) Times higher education ranking: Asia- 92, India – 7
- 4) Atal Ranking of Institutions on Innovation Achievements: Rank 1 (Govt. and Govt. Aided Universities)
- 5) ICT has been ranked 9th in the Country by Education World (EW) in May 2020
- 6) In June, 2020, Times Higher Education Ranking has ranked ICT in the World Ranking 501 to 600, which includes many of the IIT and other European and US Universities (well known University Of Florida USA, IIT Gandhinagar, Barilan Uni, Israel etc). The same agency has also ranked ICT as 92nd in Asia, 73rd in the countries with Emerging Economies and 7th in India

ADJUNCT PROFESSORS



PROF. SURESH K. BHARGAVA
Dean of Applied Sciences,
College of Science, Engineering
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Melbourne 3001, AUSTRALIA
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Dr. AJIT SAPRE
Group President
(Research and Technology)
Reliance Technology Group
Reliance Corporate Park
7B, Gr. Fl., Thane-Belapur Road
Ghansoli, Navi Mumbai-400 701
Mob: 9987566846
Email: ajit.sapre@ril.com



Dr. ASHWINI NANGIA
Formerly Professor, School of
Chemistry,
University of Hyderabad,
Director, CSIR-National Chemical
Laboratory, Pune - 411008.
Tel:(020) 2590-2600 (O),
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Arcadia, California 91006-2112
U.S.A.
Email: raj.sardesai@gmail.com

ADJUNCT PROFESSORS



PROF. SHEKHAR GARDE
Dean of Engineering and the Elaine and Jack Parker Chaired Professor 3004 and Assistant Professor, Chemical and Biological Engineering
Rensselaer Polytechnic Institute
110 Eighth Street, Troy, NY, 518-276-6000, USA
Tel: 518-276-6298
Email: gardes@rpi.edu



PROF. KESHAVAN NIRANJAN
Professor of Food Bioprocessing
Editor, Journal of Food Engineering
Department of Food and Nutritional Sciences
University of Reading,
Whiteknights PO Box 226,
Reading RG6 6AP (UK)
Email: afsniran@reading.ac.uk
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Dr. MUKUND S. CHORGHADE
Associate of the Department of Chemistry and Chemical Biology
FAS[^]FCOR[^]CCB-Oth,
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12 Oxford St Cambridge MA 02138
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Dr. U. KAMACHI MUDALI
Chairman and Chief Executive
Heavy Water Board, Department of Atomic Energy, Government of India, Vikram Sarabhai Bhavan, Anushaktinagar, Mumbai – 400 094.
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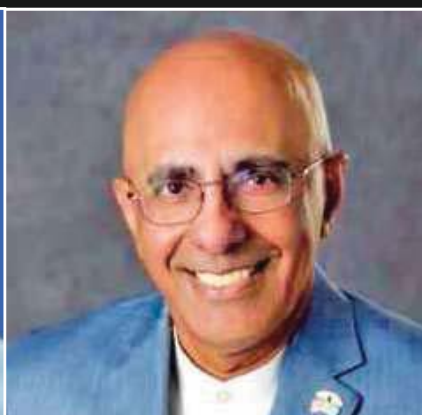
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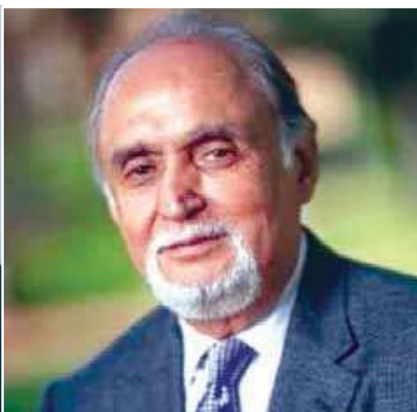
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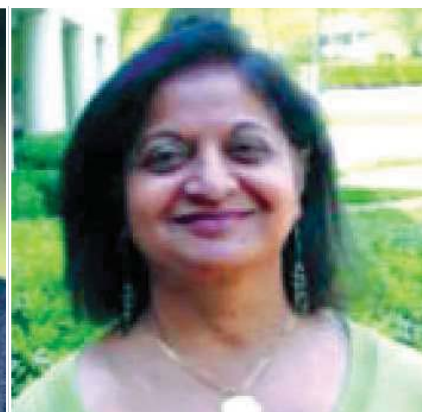
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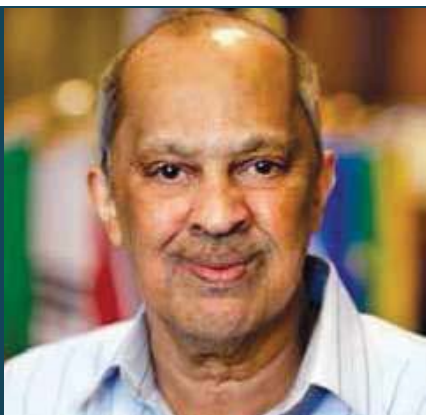
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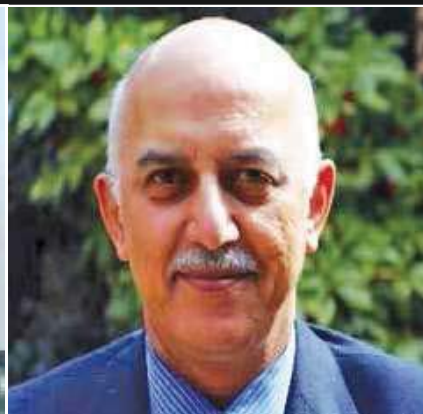
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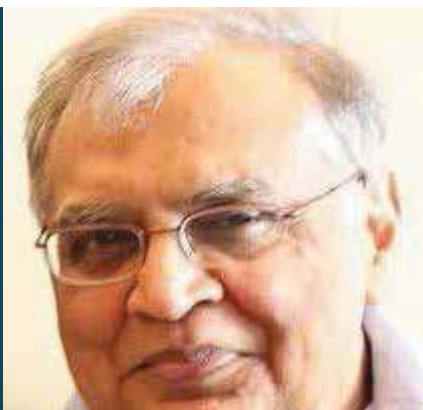


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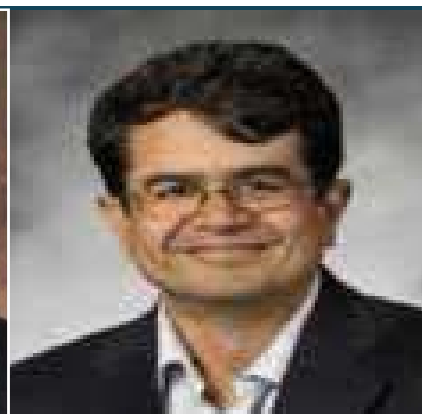
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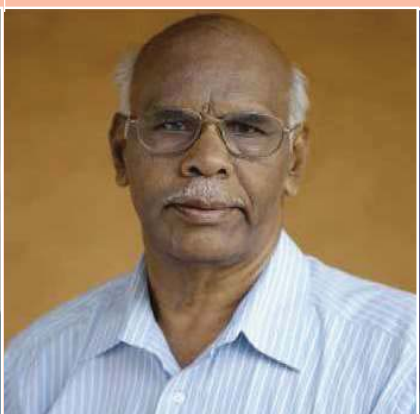
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D.SC. (HONORIS CAUSA)

Third Convocation, March 8, 2014



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National Research Professor
Linus Pauling Research Professor
& Honorary President Jawaharlal
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Research, Bangalore
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**PADMAVIBHUSHAN
Professor M.M. Sharma**
Distinguished Professor of
Eminence and Former Director of ICT
(then UDCT)

Fourth Convocation, February 16, 2015



Professor George Whitesides
Harvard University, USA
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Shri Mukesh D. Ambani
Chairman and Managing Director
Reliance Industries Ltd.

Sixth Convocation, February 8, 2017



**Nobel Laureate Professor
Jean-Marie Lehn**
Professor at Collège de
France in Paris
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supramolecular-chemistry-
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Victor and Elizabeth
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Seventh Convocation, February 23, 2018



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Head of the Department

SUBJECTS TAUGHT:

Momentum and Mass Transfer, Advanced Reaction Engineering, Material and Energy Balance Calculations, Advanced Separation Processes

RESEARCH INTERESTS:

Computational Fluid Dynamics, Transport Phenomena, Membrane Separation Processes, Liquid Extraction

Recognized Research Guide for

Ph. D. (Tech.) as well as Ph. D. (Sci.)

Guided students: Ph.D.23, Masters: 51

Total Research Publications - International: 122

Total Citations = 1900; H-Index = 21

NATIONAL AND INTERNATIONAL AWARDS:

Fellow, Maharashtra Academy of Sciences 2012; Herdillia Award of I. I. Ch. E. for excellence in Basic Research 2013. Prof. M. M. Sharma Science and Technology Award 2016, Fellow, Indian National Academy of Engineering, 2019.

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**Co-ordinator - PGDCTM, Centre of Excellence-
Process Intensification, Dean IQAC**

SUBJECTS TAUGHT :

Chemical Engineering Thermodynamics I, Chemical Engineering Thermodynamics II, Interfacial Science and Engineering.

RESEARCH INTERESTS :

Interfacial Science and Engineering, Microemulsions, Energy and Exergy Engineering, Absorption Cycles, Utilization of lowgrade energy, applications of artificial neural networks

Recognized Research guide for

Ph.D. (Tech.) in Chemical Engineering, Bioprocess Technology,

Ph.D. (Science) in Chemistry

Guided students: Ph.D. 39, Masters: 80;

Total Research Publications:

National: 03, International: 76

Patents: 11, H-Index: 12, Citations: 510

NATIONAL AND INTERNATIONAL AWARDS:

IICHe NOCIL Award for excellence in design or Development of Process Plant or Equipment in 2012

Bry-Air asia award for the HVAC 2013

INSA Best teacher award, 2016

UDCT Alumni Association Distinguished Alumnus Award 2019



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SUBJECTS TAUGHT:

Mathematical methods in Chemical Engineering, Chemical Engineering Laboratory, Advanced Mass Transfer, Chemical Process Control, Industrial Engineering and Chemistry, Simulation Laboratory, Data Analysis

RESEARCH INTERESTS :

Molecular Simulations, Process Simulations, Solar Thermal Systems, Statistical Thermodynamics, Anaerobic Digestion, Energy Engineering.

Recognized Research guide for

Ph.D. (Tech) in Chemical Engineering

Guided students: Ph.D. : 2(coguided) + 5 (ongoing)

Masters: 10 + 4 (ongoing)

Total Research Publications: International: 17

Patents: 2 (Granted) 3 (Under Review)

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SUBJECTS TAUGHT:

Process Development and Engineering, BioReaction Engineering, BioSystem Engineering, Chemical Process control Advanced Separation Processes

RESEARCH INTERESTS :

Renewable Energy Resources, Reactive Separation Processes, Molecular Simulation for Reactive Sorption and Metal Ion Complexation, Interfacial Science and Engineering and Hydrotrophy, Complex Fluid Behaviour, Synthesis of nanoparticles and development of applications.

Recognized Research guide for Ph.D. (Tech.) in Chemical Engineering, Bioprocess Technology, Ph.D. (Science) in Chemistry, Green Technology.

Guided students: Ph.D. 49, Masters: 78

Total Research Publications: National: 04, International: 183

Patents: 11, H-Index: 28, Citations: 2602

NATIONAL AND INTERNATIONAL AWARDS:

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- UAA Distinguished Alumnus Award, ICT (2016)
- IChE - D.O.S.T. Dr. S.K. Sharma Medal (2014)
- IChE - CHEMCON Distinguished Speaker Award (2014)
- IChE - Herdillia Award for Excellence in Basic Research in Chemical Engineering (2004),
- Best Teacher Award, University of Mumbai (2002)
- UGC Carrer Award, 1994,
- INSA Young Scientist, Indian National Science Academy (1992), Young Associate, Indian Academy of Sciences.(1992)



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SUBJECTS TAUGHT:

Innovations in Chemical Technology (UG), Industrial and Engineering Chemistry (Inorganic Chemicals) (UG), Renewable Energy Sources (PG); Safety and Risk Management (PG)

RESEARCH INTERESTS:

Salt and Marine Chemicals; Membrane-based processes; Green Chemistry; Renewable Energy; Chemical Technology; Analytical Studies

Recognized Research Guide for:

ICT (Chem. Engg. and Green Technology); AcSIR, New Delhi

Guided students: Ph.D. 8, Masters: 2

Total Research Publications:

National: 4, International: 85

Citation Index: 4701; H-Index: 35, Patents: 19

NATIONAL AND INTERNATIONAL AWARDS:

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Co-ordinator Information Processing Centre

SUBJECTS TAUGHT:

Chemical Reaction Engineering, Cavitation for Green Processes, Process Calculations, Engineering Applications of Digital Computers

RESEARCH INTERESTS:

Sonochemistry, Hydrodynamic Cavitation, Process Intensification, Water and Wastewater Treatment, Enzymatic Reactions, Polymer Chemistry, Advanced Oxidation Processes

Recognized Research Guide for: Ph.D. (Tech.) in Chemical Engineering, Green Technology, Bioprocess Technology; Masters in Chemical Engineering, Green Technology, Bioprocess Technology

Guided students: Ph.D. 16, Masters: 50

Total Research Publications: National: 17, International: 253,

Citations as per Scopus: 14400+ H-index : 64

NATIONAL AND INTERNATIONAL AWARDS:

Anil Kumar Bose Medal of the Indian National Science Academy (INSA), 2011; Young Associate of Indian National Academy of Engineering, 2012; Chartered Engineer and Member, Institution of Chemical Engineers, UK, 2013; The SCEJ Award for Outstanding Asian Researcher and Engineer given by The Society of Chemical Engineers, Japan, 2013; Hindustan Lever Biennial Award for the Most Outstanding Chemical Engineer of the Year Under The Age Of 45 Years of Indian Institute of Chemical Engineers, 2013; Fellow, Maharashtra Academy of Sciences, 2014; Outstanding Professor Award given by Indian Specialty Chemicals Manufacturing Association, 2015. Maharashtra State National Award for Best Research work done by teachers of engineering colleges, Indian society for technical education, New Delhi - 2016. Prof. M M Sharma award for Science and Technology given by Marathi Vidnyan Parishad, Mumbai, 2017; Most Outstanding Faculty Research Award in the Chemical Engineering Discipline, Careers 360, 2018





Dr. SACHIN JADHAV

Ph.D. (Tech.) in Chemical Engineering

Assistant Professor in Chemical Engineering

SUBJECTS TAUGHT:

Chemical Engineering Laboratory

RESEARCH INTERESTS:

Water and Wastewater Treatment, Membrane-based Separation, Nanomaterials Synthesis and their Applications, Adsorption-based Separation, Waste Valorization, Petrochemicals, Chemical and Enzymatic Kinetics, Process Modeling and Simulation, Drying Technology, Industrial Crystallization

Recognized Research Guide for:

Guided students: Ph.D. 0, Masters: 0

Total Research Publications-

National: 01, International: 09

Citation : 184; H-Index: 05

Dr. RATNESH JAIN (AVHUMBOLDT FELLOW)

M.Pharm, Ph.D.(Tech) Pharmaceutics

UGC Assistant Professor and Ramalingaswami Fellow

SUBJECTS TAUGHT:

Biopharmaceutical Engineering, Introduction to Biopharmaceutical Manufacturing, Research Methodology, Biomaterials

RESEARCH INTERESTS:

Biosimilar/Biologics Characterization, Biopharmaceutical/ Pharmaceutical Product Development using Traditional, Microfluidics and 3D Printing Technology, Nanomedicine, Cell Culture engineering

Recognized Research Guide for Ph.D. (Tech.) in Pharmaceutics, Green Technology

M.Tech in Bioprocess Technology, Green Technology; M Chem Engg in Chemical Engineering

Guided students: Ph.D. 5, Masters: 21

Total Research Publications-

National:2, International: 71

Citations: 965, H-Index: 18, Cumulative impact factor: 102

Patents (granted in last 5 years) None, Filed: 8

NATIONAL AND INTERNATIONAL AWARDS:

Gandhian Young Technological Innovation Award/Appreciation 2015, N. R. Kamath Book Award for book entitled 'Nanoparticulate Drug Delivery: Perspectives on the Transition from Laboratory to Market', (Woodhead Publishing Series in Biomedicine), Woodhead Publishing (Elsevier), 2014





PROFESSOR A. M. LALI
B. Chem., M. Chem., Ph.D. (Tech.) (Chem. Eng.)
Professor of Chemical Engineering

SUBJECTS TAUGHT:

Bioprocess Simulation Modeling and Bioreactor Design, Instrumentation and Process Control, Adsorptive Separations Statistical Methods.

RESEARCH INTERESTS :

Bioenergy, Biofuels and biomass to other chemicals, Purification of Proteins, nucleic acids and other Biomolecules, natural and synthetic APIs high value organic/inorganic chemicals, Continuous chromatography, Modeling and Adsorptive separations, Biocatalysis and Bio transformations, Bioreactor design, Mixing and dynamics of solid liquid fluidized bed, Dynamics of gas-solid circulating fluidized bed, Process integration and intensification, Process development, characterization and scale up.

Recognized Research guide for Ph.D.(Tech.) in Chem. Engg., Bioprocess Technology, Ph.D.(Sci.) in Chemistry, Biotechnology.

Guided students: Ph.D. Guided: 60, Masters: Guided: 75

Total Research Publications-

International: 72

Patents (granted in last 5 years): 26 so far

PROF. LAKSHMI KANTAM MANNEPALLI
B.Sc., M.Sc., Ph.D. (Chemistry), FNA, FNASc, FRSC
Dr. B.P. Godrej Distinguished Professor of
Green Chemistry and Sustainable Engineering
(Former Director, CSIR-IICT Hyderabad)

SUBJECTS TAUGHT:

Nanotechnology, Green chemistry

RESEARCH INTERESTS:

Catalysis, Materials and Process Chemistry, Nanotechnology. Recognized Research Guide for: Chemistry and Chemical Engineering

Guided students: Ph.D. : 40,

TOTAL RESEARCH PUBLICATIONS-

National: 22, International: 332

Citations (last 5 yrs): 14672; H-Index: 65

Patents (granted in last 5 years): 52

NATIONAL AND INTERNATIONAL AWARDS :

2018-TWAS Fellow, 2015- Dr. Burjor P. Godrej Distinguished Professor of Green Chemistry and Sustainability Engineering; 2015- J.C.Bose Fellow; 2015- Eminent Scientist Award – Catalysis Society of India; 2014-Fellow of the Indian National Science Academy; India, 2013 – Fellow of The Royal Society of Chemistry, UK; 2011- Vasvik Award; 2011 - Lifetime Achievement Award, Indian Chemical Society; 2010 - Platinum Jubilee Lecture Award, ISC-2010; 2008 – Fellow of National Academy of Sciences, India; 2006- Fellow of Andhra Pradesh Academy of Sciences, Hyderabad





Mrs. K. V. MARATHE
B E and M Tech in Metallurgical Engg
Associate Professor in Metallurgical Engg.

SUBJECTS TAUGHT:

Material technology, Advanced Materials, Ind. Engg. Chem.

RESEARCH INTERESTS:

Waste water treatment, membrane separation, ground water treatment, membrane bioreactor, electrochemical membrane bioreactor, sustainability assessment, exergy analysis.

Recognized Research Guide for Ph.D in Chemical Engineering and Green Technology

Guided students: Ph.D. 03, Masters: 32

TOTAL RESEARCH PUBLICATIONS-

National: 06, International: 37

H Index: 7, Total Citations: 182,

Impact factor (Scopus): 39.644

Dr. C. S. MATHPATI
B. Chem. Eng., M. Chem. Eng., Ph.D. (Tech.)
Associate Professor of Chemical Engineering,
Nodal Officer



SUBJECTS TAUGHT:

Multiphase Reactors, Process Simulation Laboratory, Bioreactor Design and Control, Advanced Flow Visualization Techniques.

RESEARCH INTERESTS:

Computational Fluid Dynamics, Multiphase Flow, Reactor Design, Interface Heat and Mass Transfer

Recognized Research guide for

Ph.D. (Tech) in Chemical Engineering

Guided students: Ph.D, 03; Masters: 12

TOTAL RESEARCH PUBLICATIONS-

International: 25

**Dr. PARAG R. NEMADE***B. Chem. Eng., M. S. and Ph.D. (University of Colorado)***UGC Assistant Professor,****Department of Chemical Engineering and Department of Oils, Oleochemicals and Surfactants Technology****Deputy Director, Infrastructure and Lab Development, ICT, Mumbai, Marathwada Campus, Jalna (on deputation)****SUBJECTS TAUGHT:**

Advanced Membrane Separations, Nanotechnology, Advanced Momentum Transfer, CE Lab

RESEARCH INTERESTS:

My group works on membrane separation processes, on development of new polymeric and graphene based materials for membranes, catalysts, and sensors applications. We also work on sustainability engineering, in areas such as sustainable sanitation, development of new applications for industrial wastes, etc.

Recognized Research Guide for

Guided students: Ph.D. 4, Masters: 28

Total Research Publications: International: 16, Cumulative Impact Factor: 42.236; Impact Factor per publication: 4.693;

H-Index: 11; Citations: 608

Patents (granted in last 5 years): 0, (Applied for: 3)

National and International Awards: 3

PROF. ANIRUDDHA B. PANDIT*Ph.D.(Tech.), B. Tech. (Chem.)**(FTWAS, FNA, FASc, FNAE, FNASc, FMASc)***Professor, UGC Research Scientist, "C" (Professor's Grade)****J. C. Bose National Fellow (DST, Govt. of India)****Vice Chancellor****SUBJECTS TAUGHT:**

Environmental Engineering and pollution control Chemical Project Economics, Design of Multiphase Reactors

Research Interests:

Physical and Chemical Processing applications of Cavitation phenomena, Sonochemistry, Ballast Water Treatment, Mixing in Mechanically agitated contactors: Experimental and CFD Investigations, Modeling of Stoves, Use of non-conventional energy sources, Synthesis of Nanomaterials Biotechnology: Protein modification, Cell disruption and Microbial fuel cell.

Recognized Research guide for

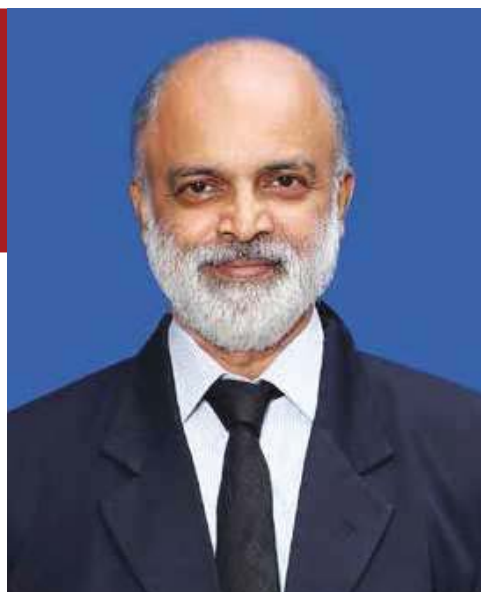
Ph.D. (Tech.) in Chemical Engineering, Bioprocess Technology, Green Technology, Ph.D. (Science) in Chemistry

Guided students: Ph.D. : 50, Masters : 68**Total Research Publications : 360**

National/International : Total Publications: 338, Citations: 10978, H-Index: 56

Patents (granted in last 5 years): 16**National And International Awards:**

Indian National Academy of Science (INSA), Best Teacher Award, 2012; Sir J. C. Bose Fellow of the Department of Science and Technology, Government of India, 2015; Vishwakarma Medal, Indian National Academy of Science (INSA), 2015; Fellow The World Academy of Sciences (TWAS), 2015



**PROF. ANAND VINAYAK PATWARDHAN***Ph.D. (Tech.)***Professor of Chemical Engineering****Chief, Industrial Training and Placement****SUBJECTS TAUGHT:**

Transport Phenomena, Chemical Reaction Engineering, Chemical Engineering Operations, Advanced Momentum Transfer, Green Technology, Advanced Membrane Separations

RESEARCH INTERESTS:

Membrane separation (separation/recovery of chemicals/metals from industrial streams; development of ceramic membranes for industrial applications), Green Technology (ionic liquids for solvent extraction/reactions; value-added chemicals from non-edible oils; greener organic chemical process development), Bioprocess Technology (synthesis of chemicals and microbial colorants / pigments), Heterogeneous reactions

Recognized Research Guide for: Ph.D. (Tech.)

Chemical Engineering, Ph.D. (Tech.) Bioprocess Technology, Ph.D. (Science) Chemistry

Guided students: Ph.D.: 13, Masters: 44**Total Research Publications :** National: 58, International: 64

H-Index: 19; Citations: 1454

PROF. V. K. RATHOD*B. Tech., M. Tech., Ph.D. (Tech.)***Professor of Chemical Engineering****Controller of Examination****SUBJECTS TAUGHT:**

Heat Transfer, Advance heat transfer, separation processes, Fluid flow and Heat transfer, Multiphase Reactor, Material and Energy Balance calculation, pharmaceutical Engineering, Chemical Engineering Laboratory

RESEARCH INTERESTS :

Separation process, Extraction of Natural ingredients, Enzyme catalyzed reactions, Waste Treatment, Nuclear reprocessing, Separation of biomolecules, Enzyme Preparation and separation

Recognized Research guide for Ph.D. (Tech.) in Chemical Engineering, Bioprocess Technology, Green Technology, Perfumery and Flavour Technology, Ph.D. (Science) in Chemistry

Guided students: Ph.D. 27, Masters: 94;**TOTAL RESEARCH PUBLICATIONS-**

National : 01 International: 140

NATIONAL AND INTERNATIONAL AWARDS:

Fellow, Maharashtra Academy of Sciences 2015

Hindustan Lever Biennial Award for the Most Outstanding Chemical Engineer of the Year Under The Age of 45 Years of Indian Institute of Chemical Engineers, 2018;

Outstanding Professor Award given by Indian Specialty Chemicals Manufacturing Association, 2019.

Prof. M M Sharma award for Science and Technology given by Marathi Vidnyan Parishad, Mumbai, 2019



**PROF. B. N. THORAT**

B.Chem.Eng., M.Chem.Eng., D.H.S.T., Ph.D. (Tech.)
Director of ICT-Mumbai Indian Oil Odisha Campus,
Bhubaneswar and Professor of Chemical Engineering
(on deputation)

SUBJECTS TAUGHT:

Chemical Engineering Operations, Perspectives of Society, Science & Technology, Communication Skills, Separation Processes in Chemical Engineering, Foundation Course in Entrepreneurship and Advanced Entrepreneurship

RESEARCH INTERESTS :

Drying Technology and Particle Handling, Process Development, Multiphase Reactors, Industrial Crystallization and Filtration, Food Processing etc.

Recognized Research guide for

Ph.D. (Tech.) in Chemical Engineering, Bioprocess Technology,
Ph.D. (Science) in Chemistry.

Guided students: Ph.D. 27, Masters: 74;

TOTAL RESEARCH PUBLICATIONS-

National: 03, International: 88

Patents: 15

H-Index: 22, Citations: 1719

NATIONAL AND INTERNATIONAL AWARDS:

- Gunther Oertel Startup Innovation Award for Microbutor Innovation, Covestro, (Former Bayer Material Science, Germany), 2017.
- Millennium Alliance Award by UKAID (DFID) and FICCI: Solar Conduction Dryer Scale-up in Nepal, 2016
- Millennium Alliance Award by UKAID (DFID) and FICCI: CassavaTech scale up in Kenya, 2016
- Lifetime Achievement Award for Outstanding Contribution to Drying and Dehydration, given by at ADC-2019.
- NOCIL AWARD for excellence in design of new equipment and process, 2015.
- The VASVIK Award for the year 2012 in the field of Chemical Sciences and Technology, 2015.
- Bill and Melinda Gates Foundation Award of USD 100,000 (One Lakh US Dollar) each for Innovative Cassava Dryer, and Solar Grain Dryer 2013.
- Dell Social Innovation Award of USD 60,000 (Sixty thousand US Dollar) for developing "Solar Conduction Dryer", 2013.
- Vocational Excellence Award, for his valuable contribution to Science and Society for making Solar Conduction Dryer for the Agricultural Sector, Rotary Club of Mumbai Cuffe Parade, 2013.

**Dr. PRAKASH D. VAIDYA**

B.E. (Chem.), M.Chem. Engg., Ph.D. (Tech.) in Chem. Engg.
Rashtriya Chemicals and Fertilizers
Associate Professor of Chemical Engineering,
Course co-ordinator Green Technology,
Co-ordinator Certificate course on Chemical Safety and
Risk Management, Head Hostel Warden

SUBJECTS TAUGHT:

Chemical Reaction Engineering, Industrial and Engineering
Chemistry, Design and Analysis of Experiments, Fuels
Engineering, Instrumentation and Process Control

RESEARCH INTERESTS:

Bio-energy, carbon capture and recycling, wastewater
treatment

Recognized Research Guide for:

M.Chem. Engg., M.Tech. (Green Tech.), Ph.D. (Tech.) in
Chem. Engg., Ph.D. (Tech.) in Green Tech., Ph.D. (Sci.) in
Chemistry

Guided students: Ph.D. 24 , Masters: 40

TOTAL RESEARCH PUBLICATIONS -

International: 88, H-Index: 22, Citations: 2800

Patents (granted in last 5 years): 01

NATIONAL AND INTERNATIONAL AWARDS:

University of Liverpool (UK) India Fellowship Award (2015)
Bioenergy - Award for Cutting Edge Research (B-ACER)
Fellowship (2017)

**DR. MANISH YADAV**

B. Chem. Engg., M.Tech., Ph. D. (Tech.) in Chemical Engg
Assistant Professor in Chemical Engineering

SUBJECTS TAUGHT:

Transport Phenomena, Chemical Engineering
Laboratory

RESEARCH INTERESTS:

Chemical Reaction Engineering, Nanotechnology,
Crystallization

Recognized Research Guide for:

Guided students: Ph.D. 0, Masters: 0

TOTAL RESEARCH PUBLICATIONS-

National: 01, International: 09

Citation: 65; H-Index: 05



Department of DYESTUFF TECHNOLOGY



PROF. GANAPATI S. SHANKARLING

*B. Sc. (Hon), B. Sc (Tech.), M. Sc (Tech.),
Ph.D. (Tech.)*

Professor of Dyestuff Technology,
Co-ordinator Perfumery and Flavour Technology
Professor of Chemical Engineering

Head of the Department

**PROF. GANAPATI SUBRAY SHANKARLING***B. Sc. (Hon), B. Sc. (Tech), M. Sc. (Tech), Ph.D. (Tech.)***Professor of Dyestuff Technology,****Co-ordinator, Perfumery and Flavor Technology.****Head of the Department****SUBJECTS TAUGHT:**

B.Tech Course: Chemistry and technology of benzene intermediates I and II, Chemistry and technology of specialty organic intermediates and fine chemicals, Chemistry and technology of dyes and pigments, Chemistry of functional dyes, Introduction to green chemistry, Analysis of intermediates, dyes and fibres, Tinctorial chemistry lab, Experimental dyeing; Master of Technology: Chemistry of functional colorants, Chemistry and technology of agro chemicals, Analysis and development of green industrial processes, Chemistry of perfumes and flavors

RESEARCH INTERESTS:

Green Chemistry and Technology (Homogeneous catalysts, green solvents and alternative cost effective energy sources like concentrated solar radiation and cavitation technology) Oxidation Chemistry, Functional colorants: Thermo and Photochromic, Metal sensors, Chemosensor for anions, Cucurbiturils chemistry, Process developments in Intermediates, dyes and specialty chemicals.

Recognized Research Guide for Ph.D. (Tech) in Dyestuff Technology, Green Technology, Perfumery and Flavours; Ph.D. (Sci) in Chemistry and Biotechnology

Guided students: Ph.D.20, Masters: 30

Total Research Publications:

National: 20, International: 96

H-Index: 25, Citation : 2237

Patents (granted in last 5 years) : 19

Dr. NABANITA SADHUKHAN*Ph.D.***UGC-FRP Assistant Professor****SUBJECTS TAUGHT:**

- Technology of Intemediates - I
- Technology of Intemediates - II
- Chemistry of Functional Dyes
- Analysis of Inorganic Raw Materials used in Dyestuff Industries
- Fluorescent Colorants
- Chromatography Techniques and Preparation of Intermediates and dyes.

RESEARCH INTERESTS:

Synthesis functional amphiphilic based on of monodisperse polyethylene glycols and their application in biology, Biological important functional colorants, Coordination chemistry, Synthesis of organometallic molecules for functional application like OLED, Synthesis of molecular motor based fluorescent dyes for biological application namely suppression of protein aggregation and protein folding, Low molecular weight Poly Ethylene Glycols based gel for functional application and exploiting underlying supra-molecular interaction for the gelation.

Recognized Research Guide for: Science (Chemistry)

Guided students: Master : 02

Total Research Publications : National : 02 International: 15

H-Index: 10; Citations : 314

NATIONAL AND INTERNATIONAL AWARDS:

DST -Young Scientist Start-Up Research Grant, 2014.



Dr. SATYAJIT SAHA*Ph.D. (Chemistry)***UGC-Assistant Professor****SUBJECTS TAUGHT:**

- Color Chemistry;
- Chemistry of Agrochemicals;
- Chemistry and technology of acid, direct and sulphur dyes;
- Preparation of dyes and intermediates;
- Analysis of intermediates, dyes and fibres;
- Chemistry and Technology of Pigments;
- Preparation, analysis of dyes, intermediates, optical brighteners and functional colorants;
- Chemistry and Technology of Benzene Intermediates-II;
- Unit Process and TLC Techniques.

RESEARCH INTERESTS:

Asymmetric Organocatalysis-Employing chiral organocatalysts for efficient synthetic strategies of useful chiral synthons by exploiting supramolecular interactions. Other domains are transition metal catalyzed diversity oriented synthesis of annelated N-heterocycles of biological importance and synthesis of novel functional materials and their applications as Dye Sensitized Solar Cells, Organic Light Emitting Diodes, etc,

Recognized Research Guide for: Science (Chemistry)

Guided students: Ph.D. : 1

Total Research Publications:

International: 13, H-Index: 11; Citations data: 670

NATIONAL AND INTERNATIONAL AWARDS:

FWO Visiting Postdoctoral Fellowship from Belgium, 2011

**Dr. SURAJIT SOME***Ph.D (IIT-Kharagpur)***UGC-FRP Assistant Professor****SUBJECTS TAUGHT:**

Chemistry of Heterocycles, Color Chemistry – An Introduction, Use of Analytical Instrument in Synthetic Organic Chemistry, Chemistry of Agrochemicals, Mechanism of Organic Reactions, Chemistry and Technology of benzene intermediate-1, Experimental Dyeing, Analysis of inorganic Raw Materials, Preparation of Intermediates, Preparation of Dyes

RESEARCH INTERESTS:

Synthesis of graphene derivatives and their applications: Semiconductor materials, Energy storage materials, Flame retardant, Bio-probes, Sensors, Anticancer materials, Surfactants, Advanced catalysts.

Recognized Research Guide for Guided students: Ph.D.: 3

Total Research Publications- International: 41

H-Index :20, Citations: 1624

Patents (granted in last 5 years): 8

NATIONAL AND INTERNATIONAL AWARDS:

SERB Young Scientist Award 2016; Research Fellow Award 2013 from National Research Foundation (NRF), South Korea; Dr. D. S. Kothari Fellowship Award 2008.

**PROF. N. SEKAR**

*B.Sc (Hon), B.Sc (Tech), Ph.D (Tech),
B. A. (Music), M.A. (German). M.Music*

Professor of Tinctorial Chemistry

SUBJECTS TAUGHT:

Ph. D. / M. Tech. (Course Work): Fluorescent Colorants in Bio-imaging, Chemistry and Technology of Agrochemicals, Chemistry and Technology of High Performance Pigments Chemistry and Technology of Functional Dyes, Proton Transfer Reaction. B. Tech.: Mechanisms of Organic Reactions, Chemistry of Substrates, Color Chemistry: an Introduction, Chemistry of Heterocyclic Compounds, Chemistry and Technology of Direct, Acid, and Sulphur Dyes, Analytical Instruments in Colorant Industry. Research Interests: Computational colour chemistry (DFT and TD-DFT computations), greener synthesis of multistep heterocyclic and fused heterocyclic compounds, process development of intermediates, fluorescent colorants for bio-sensors, security applications, molecular imprinting, synthesis of perfumery and flavor compounds, laser colorants, NIR absorbing, fluorescing and reflecting colorants, tinctorially strong photostable disperse dyes, colorants for DSSCs.

Recognized Research guide for Ph.D. (Tech.) in Dyestuff Technology, Green Technology, Ph. D. (Science) in Chemistry, Ph.D in Textile Chemistry

Guided students: Ph.D. 24, Masters: 23

Total Research Publications : National : 16 International: 191

Cumulative impact factor: 155, H-Index: 16, Citations: 3282

Patents (granted in last 5 years): 07

NATIONAL AND INTERNATIONAL AWARDS:

- Fellow of Society of Dyers and Colourists, (UK)
- Fellow of Association of Chemical Technologists, India
- Fellow of Indian Chemical Society
- Fellow of Society for the Advancement of Electrochemical Science and Technology
- Member of Indian Membrane Society
- Fellow of Maharashtra Academy of Sciences

DR. SUBRAHMANYAM V. GARIMELLA

B. Sc., B. Tech, MS., PhD (Engineering)

UGC-Assistant Professor

SUBJECTS TAUGHT:

Formulations in Fine Chemicals Industry (currently teaching), Materials Chemistry, Advanced Applications of Nanotechnology, Composites and Nanocomposites, Non-Ferrous Materials Technology, Introduction to Nanotechnology, Advanced Materials Technology, Materials Science, Micro and Nano Material Characterization, Engineering Materials

RESEARCH INTERESTS:

Matter Under Extreme Conditions of Pressure, Temperature and other fields; Synchrotron Sciences and Engineering; Materials Sciences and Chemical Technology

Recognized Research Guide for: Sciences & Engineering

Guided students: PhD (01)

Master : Nil

Total Research Publications : National : Nil International: 11

H-Index: 5 Citations: 117







Department of
**FIBRES &
TEXTILE
PROCESSING
TECHNOLOGY**



PROF. (DR.) RAVINDRA ADIVAREKAR

B.Sc., B.Sc. (Tech.), M. Sc. (Tech.), Ph. D. (Tech.)

Professor in Fibres Chemistry

Head of the Department



PROF. (Dr.) RAVINDRA V. ADIVAREKAR
B.Sc., B.Sc. (Tech.), M. Sc. (Tech.), Ph.D. (Tech)
Professor in Fibres Chemistry and
Head of the Department

SUBJECTS TAUGHT:

Technology of Printing, Theory of Textile Colouration, Biotechnology in Textiles, Pretreatment of Textiles, Water and Energy Conservation in Textile Processing, Sustainable Processing of Textiles, Technology of Dyeing, Management of Textile Process House, Advanced Textile Processing.

RESEARCH INTERESTS:

Textile colouration, Green Processing of Textiles, Medical Textiles, Enzyme manufacturing and application, Natural dyes for textiles and cosmetics, Textile composites, Novel Processing Techniques. Microbial Colourants, Multi-functional finishing of textiles.

Recognized Research Guide for Ph.D (Tech.) Fibres and Textile Processing Technology, **Ph.D (Sci.)** Biotechnology, **Ph.D (Sci.)** Textile Chemistry.

Guided students: Ph.D. : 19, Masters : 45

Total Research Publications: 180

National: 54 International: 70, H-Index : 13 Citations : 553
 Patents: 03

PROF. RAVINDRA D. KALE
Ph.D. (Tech.)

Professor of Textiles Chemistry

SUBJECTS TAUGHT:

Technology of Textile Polymers, Polymer Chemistry, Testing and Analysis of Fibres, Testing of Textile Materials, High tech and Industrial Fibres, Technology of non-wovens, Dyeing of Natural and Synthetic fibres, Lab Testing of Textiles and Garments, Fastness Lab

RESEARCH INTERESTS:

Effluent treatment using nanoparticles, Application of nano emulsions in Textiles, Synthesis and application of nanoparticles, Use of Polyelectrolytes Multilayers for imparting Novel Properties to Textile Polymers, Green Composites Self Reinforced Composites, Biodegradable packaging films and foams, Functional Finishes for Natural and Synthetic Fibres, Processing of Polyester fibres at room temperature, Modification of Synthetic Fibres by Melt Spinning, Hydrophilic polyester using natural biopolymers, Green Synthesis of nanoparticles, Effluent treatment using natural materials.

Recognized Research Guide for Ph.D (Tech.) Fibres and Textile Processing Technology, **Ph.D (Sci.)** Textile Chemistry.

Guided students: Ph.D.: 5, Masters: 29

Total Research Publications:

National: 08 International: 52

H-Index: 09 Citations: 224

Patents (Filled in last 5 years): 3





Dr. KEDAR S. KULKARNI
*B.Sc. (Chemistry), B.Sc. (Tech.),
 M. Sc. (Tech.), Ph. D. (Tech)*
Assistant Professor (Temporary)

SUBJECTS TAUGHT:

Textile wet processing machinery

RESEARCH INTERESTS:

Textile colouration, Finishing, Green Processing of Textiles, Natural dyes for textiles, Development of Textile wet processing machinery.

Total Research Publications:

National :0 International : 03

Dr. ARANYA MALLICK
B.Tech., M.Tech., Ph. D. (Tech.)
Assistant Professor (Temporary)

SUBJECTS TAUGHT:

Basics of Colouration Technology, Yarn and Fabric Formation Technology, Testing of Textile Materials, Garment Processing Technology, Textile Printing, Evaluation of Textile Chemicals

RESEARCH INTERESTS:

Chemical Modification of Bipolymers, Dyeing and Finishing with Natural Colourants, Sustainable Wet Processing, Waste Water Treatment

Total Research Publications:-

National :10 International : 04
 h-Index: 3; Citations: 16



PROF. (Dr.) ASHOK R ATHALYE
B.Sc., B.Sc. (Tech.), M. Sc. (Tech.), Ph. D. (Tech)
Professor in Textile Chemistry

Subjects Taught:

Theory of Textile Colouration, Wet Processing of Textiles, Laboratory Management Systems, Advanced Textile Processing, Finishing and Evaluation of Textiles

Research interests:

Sustainable textile processing, automotive textiles, Recycling and upcycling of textile waste material.

Total Research Publications: 81

National: 67 International: 14





Dr. SANDEEP MORE
B.Sc., M.Sc. (Organic Chemistry), Ph.D.
DST INSPIRE Faculty

SUBJECTS TAUGHT:

Chemistry and Applications of Textile Auxiliaries, Smart Textile, Chemistry of Colorants and Its Applications, Environmental Aspects and Advances in Textile Processing, Chemistry of Textile Auxiliaries, Green Chemistry in Textile, Advanced Textile Characterization Techniques, Synthesis and Analysis of Dyes and Intermediates, Testing and Applications of Auxiliaries, Evaluation of Dyes and Specialty Chemicals.

RESEARCH INTERESTS:

Molecular Machines, Singlet Fission, Organic Electronics, Smart Textile, Novel Auxiliaries

Recognized Research Guide for Ph.D. (Sci.) Chemistry.

Guided students: Ph.D.: 04, Masters: 13

Total Research Publications:

International : 14

H-Index : 09, Citations : 340

NATIONAL AND INTERNATIONAL AWARDS:

DST INSPIRE Faculty Award

Early Career Research Award

Dr. USHA SAYED
BSc (Hons), BSc (Tech.), MSc (Tech.) Ph.D Tech.
Associate Professor of Textiles Chemistry

SUBJECTS TAUGHT:

Introduction to Technical Textiles, Chemistry and Application of Textile Chemicals, Technology of Dyeing and Printing, Technology of Wet Processing Machineries, Technical textile, Technology of Garment Processing, Chemistry of Textile Auxiliaries, Textile Machineries.

RESEARCH INTERESTS:

Textile Processing, Dyeing, printing, Bleaching, Finishing, Recycling and Reuse of Dyes and Chemicals, Surfactants, Synthesis of Specialty Chemicals, Laundry Chemicals, Enzyme technology, Polymers, Fibre science, Technical textiles, natural dyes and polymers on natural fibres, leather processing, super absorbent, processing of hosiery, garment processing, technical textile, processing of non-woven, processing of wipes, shoe technology, Nano silicon finishing.

Recognized Research Guide for Ph.D (Tech.) Fibres and Textile Processing Technology, Ph.D (Sci.) Textile Chemistry

Guided students: Ph.D. : 03, Masters: 42

Total Research Publications:

National: 26, International: 55

H-Index : 7, Citations : 117.







Department of **FOOD ENGINEERING AND TECHNOLOGY**



PROF. UDAY S. ANNAPURE

B.Sc. (Tech.), M.Sc. (Tech.), Ph.D. (Tech.)

Professor of Food Chemistry

Head of the Department



PROF. UDAY S. ANNAPURE
B. Tech., M.Sc. (Tech.), Ph.D. (Tech.)
Professor of Food Chemistry
Head of the Department

SUBJECTS TAUGHT:

Food Chemistry, Technology of Fruits, Vegetables and Tubers, Principles of Food Preservation.

RESEARCH INTERESTS:

Extrusion Processing, Non-thermal processing of food-Cold Plasma Processing, Carbohydrate Chemistry and Technology - Plant Gums, Traditional Foods, Nutraceuticals, Fermentative production and downstream processing of industrially important secondary metabolites.

Recognized Research Guide for: Ph.D. (Tech.) in Food Engineering and Technology, Food

Biotechnology, Bioprocess Technology, Ph.D. (Sci.) in Food Science, Biotechnology

Guided students: Ph.D: 15, Masters: 69

Total Research Publications:

National: 07, International: 81

H-Index: 24, Citations: 1308

NATIONAL AND INTERNATIONAL AWARDS:

Fellow of Maharashtra Academy of Science (2017)

BOYSCAST Fellow (DST Govt. of India) – 2010

Recipient of the Best Teacher Award (Professor D.V. Rege–AFST Mumbai Chapter–2011 Endowment) 2014 and 2016.

PROF. LAXMI ANANTHANARAYAN
B.Sc., B.Sc. (Tech.), M.Sc. (Tech.), Ph.D. (Tech.)
Professor of Applied Biochemistry and
Co-ordinator in Food Biotechnology

SUBJECTS TAUGHT :

Chemistry of Food Constituents; Nutrition; Food Packaging; Current Topics in Food Science and Technology; Basics of Human Nutrition, Advances in Nutrition; Enzymes in the Food Industry.

RESEARCH INTERESTS :

'Fermented Foods, Traditional Foods, Nutritional Food Product Development, Extruded Foods, Food Allergens, Bioactive Peptides, Novel Food Preservation Techniques, Problems of Small Scale Food Industries, Plant Biochemistry and Fruit Ripening, Natural Pigments, Protein Purification, Enzyme Production and Downstream Processing, Protein Hydrolysates, Detection of Adulteration/ Contamination, Food Safety, Nutritional Biochemistry'

Recognized Research guide for Ph.D. (Tech.) in Food Engineering and Technology, Food Biotechnology, Bioprocess Technology, Ph.D. (Sci) in Food Science, Biochemistry, Biotechnology

Guided students: Ph.D. 13 (awarded), 4 (ongoing), Masters: 81 (completed) 7 (ongoing)

Total Research Publications:

National: 08, International: 51

NATIONAL AND INTERNATIONAL AWARDS:

"Dupont NutriSchorls Award" Most Nutritious Food Idea 2017



**DR. SHALINI S. ARYA**

*B.Tech. (Marathwada, 2002), M.Tech. (Mumbai, 2004),
Ph.D. (Tech) (Mumbai, 2008)*

Assistant Professor of Food Technology

SUBJECTS TAUGHT :

Food Microbiology, Chemistry of Food Constituents, Technology of Cereals, Legume and Pulses, Technology of Plantation Crops, Basics of Food Science and Technology, Technical Analysis I and II(P) , Food Microbiology (P), Food Chemistry (P), Food Analysis (P), Food Processing I (P)

RESEARCH INTERESTS :

Indian Traditional Foods, Chemistry and Preservation of Foods, Product Development and Processing, Staling Studies in Cereal and Cereal products, Starch Chemistry and Technology, Preservation of Foods, application of newer technologies in preservation of traditional foods, Food Biotechnology, production and Downstream Processing of Biomolecules, Fermented Foods, Diabetic Foods, Functional Foods, Nutraceuticals, Fruit and Vegetable Preservation and Processing, Indian Flat Breads.

Recognized Research guide for Ph.D. (Tech.) in Food Engineering and Technology, Food Biotechnology, Bioprocess Technology, Ph.D. (Sci.) in Food Science

Guided Students: Ph.D. 4 (awarded) 4 (ongoing), Masters: 40

Total Research Publications: National: 15, International: 62
H-Index 17, Citations: 1024

NATIONAL AND INTERNATIONAL AWARDS:

CNPq-TWAS post Doctoral Fellowship (2019),
Global Young Academy (GYA), Halle, Germany member award (2018),
Young Scientist award, AFST, India (2017), best paper award, Elsevier, Florida (2017), Malaspina international scholar award, ILSI, USA (2016),
Innovative Research Idea award, CAS TWAS, China (2014).

DR. SNEHASIS CHAKRABORTY

B. Sc., B. Tech., M. Tech., Ph.D.

Assistant Professor of Food Technology

SUBJECTS TAUGHT:

Introduction to Food Systems, Principles of Food Preservation, Food Engineering, Food Process Engineering, Advances in Food Technology, Advances in Food Engineering, Experimental Design and Optimization in Food Processing

RESEARCH INTERESTS:

Food Process Engineering, Non-thermal processing of food, Kinetics modeling, Shelf-life extension, Sensory analysis, Process optimization and Product development

Recognized Research Guide for: Ph.D (Tech) and M. Tech in Food Engineering and Technology, Food Biotechnology.

Guided students: Ph.D: 6 (ongoing), Masters: 6

Total Research Publications: National: 01, International: 25
H-Index: 09, Citations: 372

NATIONAL AND INTERNATIONAL AWARDS:

Best PhD thesis in Agricultural Engineering by ICAR, 2017,
DAAD Fellowship under Re-invitation program of former
DAAD scholarship holders 2018





Dr. JYOTI SONTAKKE-GOKHALE
Ph.D. in Bioprocess Technology
Assistant Professor

SUBJECTS TAUGHT:

Food Biotechnology; Waste Management in Food Processing; Design and Analysis of Experiments; Biotechnology of Fermented Foods; Fermentation Technology; Nutraceuticals and Functional Foods; Technical Analysis Lab; Biochemistry lab; Microbiology Lab

RESEARCH INTERESTS:

Biocatalysis; Chiral Technology; Waste management; Fermentation Technology; Biofuels; Thermal and Non-thermal processing of Foods; Green Technology; Nutraceuticals

Recognized Research Guide for Ph.D. (Tech.) in Bioprocess Technology and Food Biotechnology

Guided students: Ph.D.: 2 (ongoing), Masters: 7

Total Research Publications:

International: 7 Book chapters 4

H-Index: 4; Citations: 77

PROF. S. S. LELE

*B.Chem.Engg. M.Chem.Engg., Ph.D. (Tech.)
 Fellow, Maharashtra Academy of Sciences
 Fellow, Biotech Research Society of India (BRSI),
 Fellow, Asso. of Food Sc. and Tech. (AFST)*

Professor of Biochemical Engineering

Director of ICT-Marathwada Campus Jalna (on deputation)

SUBJECTS TAUGHT:

Introduction to Food System, Food Engineering, Food Process Engineering, Fundamentals of Food Process Engineering, Bioprocess Engineering and Technology, Advances in Food Engineering.

RESEARCH INTERESTS:

Food product/process development, fruit and vegetable processing to reduce post-harvest losses, fruit wines, holistic utilization of fruit and vegetable wastes, food allergy

Recognized Research Guide for Ph.D. (Tech.) in Food Engineering and Technology, Food Biotechnology, Bioprocess Technology, Ph.D. (Sci) in Food Science, Biotechnology

Guided students: Ph.D. : 32 (awarded), 6 (ongoing), Masters: 71

Total Research Publications:

National: 11, International: 131

H-Index: 29, Citations: 3791

Patents Granted: 03

NATIONAL AND INTERNATIONAL AWARDS :

VASVIK award (2018), "Uncha Maza Zoka" Zee Marathi, (2016), Distinguished Alumnus Award of UAA under Academics (2015).



**PROF. REKHA S. SINGHAL***Ph.D (Tech) (Food Technology)*

**Professor of Food Technology and
Dean (Research, Consultancy and Resource
Mobilization)**

SUBJECTS TAUGHT:

Food Additives and Ingredients, Principles of Food Analysis, Technology of Dairy, Animal and Plantation Products, Advances in Food Technology, Comprehensive Techniques in Food Analysis, Food Safety and Toxicology

RESEARCH INTERESTS:

Food Science and Technology, Carbohydrate Chemistry and Technology, Fermentative Production and Downstream Processing of Biomolecules, Supercritical carbon dioxide Extraction of Biomolecules, Food Biotechnology

Recognized Research Guide for Ph.D (Tech) (Food Engineering and Technology), Ph.D (Tech) (Food Biotechnology), Ph.D (Tech) (Bioprocess Technology),

Ph.D (Biotechnology), Ph.D (Food Science)

Guided students: Ph.D. 37, Masters: 99

Total Research Publications:

National: 44, International: 375

H-index as per scopus/google scholar: 49/64;

Citations as per scopus: 10713/16914

Patents (granted in last 5 years) 01

NATIONAL AND INTERNATIONAL AWARDS:

Fellowship, Biotech Research Society of India, for the year 2011; Malaviya Memorial Award (senior faculty), Biotech Research Society of India, for the year 2011; C. G. Memorial Award, XVIII Carbo Conference, Forest Research Institute, Dehradun, December 20, 2014; ISCMA Award for the year 2013-2014 instituted for 'Outstanding Professor', September 2, 2014; Prof. Man Mohan Sharma Award for the year 2015, 2016. Fellow (FIBA) award of the International Bioprocessing Association- An International Forum on Industrial Bioprocesses, for the block years 2017-2018, conferred on May 2, 2019.



Department of
**OILS,
OLEOCHEMICALS
AND
SURFACTANTS
TECHNOLOGY**



PROF. A. P. PRATAP

B.Sc. (Tech.), M.Sc. (Tech.), Ph.D. (Tech.)

Professor of Oils, Fats and Waxes
Technology

Head of the Department

**PROF. A. P. PRATAP***B.Sc. (Tech), M.Sc. (Tech), Ph.D. (Tech.)***Professor of Oils, Fats and Waxes Technology****Head of the Department****SUBJECTS TAUGHT :**

Technology of Oil and Fat Production, Processing of Oil Bearing Materials, Processing of Oils, Fats and Waxes, Fat Based Products, Cosmetics and Perfumery, Processing of Oleochemicals and Cosmetics, Processing of Soaps, Detergents, Oleochemicals and glycerine, Triboapplication Laboratory, Waxes, Lubricants and Greases, Technology of Fat Based Products, Analysis of Oils, Fats and Waxes

RESEARCH INTERESTS :

Tribo applications of oils and fats, structural modifications of oils, fats and fatty acids, Petroleum products, lubricants, Additives and specialty products, microbial Bio surfactants etc.

Recognized Research guide for Ph.D. (Tech.) in Oils, Oleochemicals and Surfactants Technology, Ph. D. Tech. in Green Technology, Ph. D. (Sci.) in Chemistry, Ph. D. Tech. in Bioprocess Technology, Ph. D. (Science) in Biotechnology

Guided students: Ph.D. 13, Masters: 60;

Total Research Publications:

National: 11; International: 46, H-Index: 10, Citations: 510

PROF. R. D. KULKARNI*B.Sc.(Tech), M.Tech., Ph.D. (Tech.)***Professor of Oil Technology****Pro-Vice Chancellor, Mumbai University****(on deputation)****SUBJECTS TAUGHT:**

Surface Active Agents, Production and Applications of Surfactants, Soaps and Detergents, Chemistry of Oleochemicals and Surfactants, Chemistry of Oils and Fatty Acids

RESEARCH INTERESTS:

Green Surfactants, Surfactant mediated synthesis and Microheterogeneous Systems, Chemical Modification of Lipids, Biolubricants, Lipid Excipients, Utilisation of Vegetable Oil Refinery Byproducts, Nanopigments and Polymer Nanocomposites, UV cure Multifunctional Monomers and Polymers, High Performance and Functional Coating Systems, Reaction Engineering and Nanocatalysis

Recognized Research Guide for Ph.D. (Tech.) in Oils, Oleochemicals and Surfactants Tech., Ph. D. (Sci.) in Chemistry

Guided students: Ph.D. : 12, Masters: 44

TOTAL RESEARCH PUBLICATIONS :

National: 18, International: 45

(H-Index 15, Citations : 544,

Patents (granted): 2





Dr. PINTU K. KUNDU
B.Sc. (Science), M.Sc. (Science), Ph.D. (Science)
UGC Assistant Professor

SUBJECTS TAUGHT:

Supramolecular Chemistry of Nanomaterials; Structural Elucidations by Advanced Spectroscopy; Chemistry of Oils and Fatty Acids; Technology of Perfumery Chemicals; Organic Reactions; Principles of Environmental Science.

RESEARCH INTERESTS:

Azobenzene- and spiropyran-based functional molecules, materials and gels; Organic molecular switches; Organic photochromism and acidochromism; Photoswitchable catalysis; Synthetic organic chemistry; Nano-structured materials; Dynamic materials, etc.

Recognized Research Guide for: Ph.D. (Science, Chemistry) in Oils, Oleochemicals and Surfactants Technology

Guided students: Ph. D: 2 (ongoing),

Masters: 1, B. Tech: 2 (ongoing)

Total Research Publications:

International: 16, H-Index: 10; Citations: 514

Research Projects (Govt. and Private Industry Sponsored) and Awards:

Early Career Research Award (ECRA) by Science and Engineering

Research Board (SERB) (status - ongoing)

Personal Website: <https://sites.google.com/site/kundupintu09122014/home>

Dr. CHANDU S. MADANKAR
M. Tech, Ph.D.

**J.G. Kane Assistant Professor in Oils,
 Oleochemicals and Surfactants Technology**

SUBJECTS TAUGHT:

Chemistry and Technology of Castor and Nonconventional oils; Cosmetics Science II; Technology of Oleochemicals; Chemistry of Oils and Lipids; Essential Oils Natural products and their Applications; Chemistry of oils, lipids, essential oils and their applications; Cosmetics Science, Microbiology and biochemistry lab I; Microbiology and biochemistry lab II.

RESEARCH INTERESTS:

Biolubricants, Supercritical fluids

Recognized Research Guide for: Oils, Oleochemicals and Surfactants Technology

Guided students: Masters: 04

Total Research Publications:

National:, 03, International: 05

Citations-154, H Index- 4

NATIONAL AND INTERNATIONAL AWARDS :

S.R. Bhatnagar Memorial Research award, 2013 by the Oil Technologist Association of India

Canadian Commonwealth Scholarship by the Canadian Bureau for International Education (CBIE) on behalf of Foreign Affairs and International Trade Canada (DFAIT) in Department of Chemical Engineering, University of Saskatchewan, 2011-12.



**Dr. PARAG R. NEMADE***B. Chem. Eng., M. S. and Ph.D. (University of Colorado)***UGC Assistant Professor,****Deputy Director, Infrastructure and Lab Development, ICT, Mumbai, Marathwada Campus, Jalna (on deputation)****SUBJECTS TAUGHT:**

Advanced Membrane Separations, Nanotechnology, Advanced Momentum Transfer, CE Lab, Introduction to Chemical Engineering, Materials and Energy Balance Calculations, Chemical Engineering Thermodynamics I

RESEARCH INTERESTS:

My group works on membrane separation processes, on development of new polymeric and graphene based materials for membranes, catalysts, and sensors applications.

We also work on sustainability engineering, in areas such as sustainable sanitation, development of new applications for industrial wastes, etc.

Recognized Research Guide for Guided students: Ph.D. 4, Masters: 28

Total Research Publications:

International: 15, H-Index: 11; Citations: 608

NATIONAL AND INTERNATIONAL AWARDS:

3. DAE Young Scientist Award, 2013, Reinvent the Toilet Challenge 2013 (Bill and Melinda Gates Foundation) Chevening Rolls - Royce science, Innovation and Leadership Fellowship 2016, Newton-Bhabha Fellowship 2017.

Dr. J. T. WAGHMARE*B.Sc. (Tech), M.Sc.(Tech), Ph. D.***Associate Professor of Oils, Fats, and Waxes Technology****SUBJECTS TAUGHT :**

Analysis of oleochemicals and surfactants, Analysis of oils, fats and waxes, Technology of edible fat production, Evaluation and testing of soaps and detergents, Analysis of raw materials of Oils, Science and Technology of essential Oils, Advances in Technology of Oils and Fats Production, Nutraceuticals.

RESEARCH INTERESTS :

Nutraceuticals, oxidation studies, structural lipids, designer lipids. application of surfactant, Cosmetics, perfume, flavor and fragrances, enzymology.

Recognized Research guide for Ph.D. (Tech.) in Oils, Oleochemicals and Surfactants Technology

Guided students: Ph.D 4 (completed) 2 (ongoing), Masters: 30

TOTAL RESEARCH PUBLICATIONS-

National: 05, International: 55





NOVEMBER	
SUN	2 9
MON	3 10
TUE	4 11
WED	5 12
THU	6 13
FRI	7 14
SAT	8 15



Department of
**PHARMACEUTICAL
SCIENCES AND
TECHNOLOGY**



PROF. SHREERANG V. JOSHI

B.Sc., B.Sc. (Tech.), Ph.D., D.I.M.

Professor of Pharmaceutical Chemistry
Head of the Department



PROF. SHREERANG V. JOSHI
B.Sc., B.Sc. (Tech.), Ph.D., D.I.M.
Professor of Pharmaceutical Chemistry
Head of the Department

SUBJECTS TAUGHT:

Pharmaceutical Organic Chemistry, Spectroscopy, Chemistry of Natural Products, Retrosynthesis, Catalysis and Catalytic processes

RESEARCH INTEREST:

Synthesis of Natural Products of Biological Importance, Process Development of Drugs, New Methodologies in Organic Synthesis, Synthesis of Drug-Polymers Conjugates
 Guided Students: Masters: 04,
 Recognized Research Guide for: M.Tech., M. Pharma, Ph.D (Sci.), Ph.D (Tech).

Total Research Publications:

International : 06
 Patents: 31
 H-Index : 4 Citations: 42

PROF. P. D. AMIN
B. Pharm. (Mumbai, 1982), M. Pharm. (Mumbai, 1984), Ph.D. (Tech.) (Mumbai, 1988)
Professor of Pharmacy
Dean Vice President Technological Association & Dean Student Affair

SUBJECTS TAUGHT :

Pharmaceutics, Pharmaceutical Technology, Dispensing Pharmacy, Hospital Pharmacy.

RESEARCH INTERESTS :

Exploration of Hot Melt Extrusion Technology in Innovative Drug Delivery system, Development and evaluation of Fixed Dose Combinations, Improvisation Techniques for Manufacture and Evaluation of Solid Dosage Forms, Release modification designs for drug delivery system Design and Fabrication of Pharma machinery (Rand D Models), Development of Added Functionality Excipients, ophthalmic drug delivery systems, modification in excipients, exploring the use of excipients.
 Recognized Research guide for Ph.D.(Tech) in Pharmaceutics, Pharmaceutical Technology, Bioprocess Technology

Recognized Research Guide for

Guided students: Ph.D. 27; Masters: 64;
 Patents : Granted - 4

Total Research Publications:

National: 5, International: 51

NATIONAL AND INTERNATIONAL AWARDS:

Fellow of Maharashtra Academy of Sciences
 H-Index :13, Citations : 502.





PROF. GANESH U CHATURBHUUJ
M. Pharm. Sc., Ph.D. (Pharmaceutical Chemistry)
Professor of Pharmacy

SUBJECTS TAUGHT:

Pharmaceutical Analysis

RESEARCH INTERESTS:

Design, Synthesis and evaluation of the new chemical entities as Anti-inflammatory, Anti-diabetic and anti-cancer agent through rational drug design. Development of various bronsted and Lewis solid acid catalyst for chemical reactions. Development of synthetic route for the API, Agrochemicals and fine chemicals and intermediates thereof. Synthesis and spectral characterization of impurities of the API, Agrochemicals and fine chemicals.

Recognized Research Guide for M. Pharm., M. Tech. (Pharma), M. Tech. (Bioprocess Technology, Ph.D. (Pharmaceutical Chemistry) Ph.D. (Sci.)

Guided students: Ph.D. : 02, Masters: 07

TOTAL RESEARCH PUBLICATIONS-

International: 21, Citations : 404, H-Index: 13.

NATIONAL AND INTERNATIONAL AWARDS:

Awarded with UGC Indo-US Raman Post-Doctoral Fellowship to visit Northeastern University, Boston, MA, USA for 2013-2014.

Dr. HEMCHANDRA KESHAV CHAUDHARI
M. Pharm. (Medicinal Chemistry), Ph. D. (Tech.) (Pharmaceutical Chemistry)
Assistant Professor in Pharmacy

SUBJECTS TAUGHT:

Pharmaceutical Chemistry, Medicinal Chemistry

RESEARCH INTERESTS:

Design of bioactive novel molecules using Computer Aided Drug Design. Synthesis of designed novel molecules by conventional or novel routes and evaluation of synthesized molecules.

Recognized Research Guide for: Pharmaceutical Chemistry

Guided students: Ph.D. : 01, Masters: 03

TOTAL RESEARCH PUBLICATIONS-

International: 07

Citations : 74, H-Index- 4





PROF. MARIAM S. DEGANI
B.Pharm, M.Pharm, Ph.D. (Tech)
Professor of Pharmaceutical Chemistry

SUBJECTS TAUGHT:

RESEARCH INTERESTS:

Drug design including ligand, structure and fragment based drug design. Synthesis of focused libraries of potential bioactive molecules for infectious and Alzheimer's diseases, based on rational drug design, using modern techniques including parallel synthesis and microwave assisted synthesis. Exploration of natural products as therapeutic leads. Fluorine chemistry, process development of drug and drug intermediates, green chemistry using ionic liquids and newer catalytic system development.

Recognized Research Guide for Ph.D. (Tech), Ph.D. (Science)

Guided students: Ph.D. : 17, Masters: 47

TOTAL RESEARCH PUBLICATIONS-

National: 1, International: 71

H-Index: 16; Citations: 839;

NATIONAL AND INTERNATIONAL AWARDS:

Fellow of Maharashtra Academy of Sciences, Best Teacher Award 2013, 2015.

PROF. PADMA V. DEVARAJAN
Ph. D (Tech) (Pharmaceutics)
Professor of Pharmacy and TEQIP Coordinator,
Coordinator : M.Tech Pharmaceutical
Biotechnology

SUBJECTS TAUGHT:

Pharmaceutics, Technology of Solid Dosage Forms, Technology of Sterile Dosage Forms, Drug Delivery Systems, and Targeted Drug Delivery Systems (DDS).

RESEARCH INTERESTS:

Nano drug delivery systems(DDS) : Veterinary Drug Delivery Systems (DDS), Nano drug delivery systems (DDS), Targeted delivery in cancer and infectious diseases (tuberculosis, malaria, veterinary infections), New targeting ligands; Engineering nanoparticle shape, Innovative manufacturing approaches for nano system-bypassing scale up challenges, Transmucosal DDS: Nasal and Sublingual DDS for non-invasive delivery of peptide/protein/biotech molecules; Controlled release and Bio-enhanced DDS: NDA and ANDA.

Recognized Research Guide for M.Tech Pharmaceutical Biotechnology, Ph.D

Guided students: Ph.D.: 41, Masters: 69

Total Research Publications :

National: 5, International: 72

Citations : 1335, H-Index- 20

NATIONAL AND INTERNATIONAL AWARDS:

- Awarded IPA ACG INNOVATIVE SOLID DOSAGE FORM Award 2017 at 4th IPA ACG – SciTech Innovation Awards for “N’hance-SDF Bioenhanced Solid dispersion film based technology” by Indian Pharmaceutical Association at Chandigarh on 23rd Dec 2017.
- Awarded BENGALURUNANO INDIA INNOVATION AWARD 2017 for BU’ANTRAP In situ solid lipid nanoparticles for veterinary infection at the 9th Bengaluru India Nano, organized by Karnataka Science and Technology Promotion Society



(KSTePS), DST-Nano Mission in association with Jawaharlal Nehru Centre for Advanced Scientific Research Centre (JNCASR) Bangalore, on 8th December 2017, at The Lalit Ashok, Bangalore, India.

- Won the EUDRAGIT AWARD 2015 for the research publication under the category of “best paper” title “Controlled release floating multiparticulates of metoprolol succinate by hot melt extrusion” published in International Journal of Pharmaceutics 2015;491(1):345-51 from Evonik India Pvt. Ltd. 21st September,2016.
- PROF. N. R. KAMATH BOOK AWARD AS EDITOR of Book titled “Targeted Drug Delivery Concepts and Design” Edited by Padma V. Devarajan, Sanyog Jain, Published by Springer Publication on 5th April 2016 ICT Annual Day, at Institute of Chemical Technology, Mumbai.
- PROF.C.J. SHISHOO AWARD for Research in Pharmaceutical Sciences, conferred by the Association of Pharmaceutical Teachers of India(APTI), 2013.

**Dr. PRAJAKTA DANDEKAR JAIN**

B. Pharm. (Mumbai, 2003), M. Tech. (Mumbai, 2006), Ph.D. (Tech.) (Mumbai, 2009)

UGC FRP Assistant Professor of Engineering Sciences

SUBJECTS TAUGHT:

Pharmaceutical Biotechnology

RESEARCH INTERESTS:

Development of 2 D and 3 D cellular models for evaluating drugs and delivery systems, Development of biopolymer scaffolds for tissue engineering, Microbioreactors for development of artificial organs, development of polymer and metal nanoparticles for application in biomedical and allied areas

Recognized Research Guide for Ph.D. (Tech.) in Bioprocess Technology and Green Technology, M.Tech in Bioprocess Technology, Green Technology, Pharmaceutical Biotechnology

Guided Students: Ph.D. 05, Masters: 10

Total Research Publications:

National: 01, International: 36

Citations: 534, H-Index: 13

NATIONAL AND INTERNATIONAL AWARDS :

M.V. Deshpande Young Scientist Award at the 11th Asia Pacific Chitin and Chitosan Symposium, 2016; N. R. Kamath Book Award for book entitled 'Nanoparticulate Drug Delivery: Perspectives on the Transition from Laboratory to Market', (Woodhead Publishing Series in Biomedicine), Woodhead Publishing, 2014

PROF. ARCHANA R. JUVEKAR

Ph.D. (Tech)

Professor of Pharmacology and Physiology

SUBJECTS TAUGHT:

Topic in pharmacology, Models for drug Delivery System, Pharmacology Toxicology and Therapeutics, Pharmacology, Clinical Pharmacy and Drug Interaction

RESEARCH INTERESTS:

Drug discovery and development from natural products, Elucidation of Pharmacological Potential of New Chemical Entities (NCEs) in Disease Models for Efficacy Studies, Safety Pharmacological Studies of NCEs, Regulatory Toxicity, Evaluation of Pharmacological Interventions Targeting Pathophysiological Cascades (Oxidative stress, ER stress, Inflammation, apoptosis) involved in depression, anxiety, Diabetes, Diabetic Complications, Cognitive impairment.

Recognized Research Guide for

Guided students: Ph.D. 21, Masters: 63

Total Research Publications:

National: 47, International: 64

H-Index : 19

No. of Citations : 1348

NATIONAL AND INTERNATIONAL AWARDS:

Received best Research Paper sponsored by the Al-Ameen College of Pharmacy Award for Best Paper published in IJPER 2011



**PROF. K. S. LADDHA**

B. Pharm. (Mumbai, 1982), M. Pharm. (Mumbai, 1985), Ph.D. (Tech.) (Mumbai, 1994)

Professor of Pharmacognosy

SUBJECTS TAUGHT :

Pharmacognosy, Phytochemistry and medicinal Natural Product

RESEARCH INTERESTS :

Extraction, isolation and characterization of phytoconstituents, Development of large scale extraction technologies, Standardization of herbal drugs and formulations, Development of herbal drug formulations, Chemical Modification of phytoconstituents.

Recognized Research guide for Ph.D. (Tech) in

Pharmacognosy, Pharmaceutical Technology, Bioprocess Technology, Ph.D (Sci) Chemistry

Guided students: Ph.D. 17, Masters: 67

Patents : 1

TOTAL RESEARCH PUBLICATIONS-

National: 65, International: 31

Citations : 699, H-index : 14

PROF. VANDANA. B. PATRAVALE

B. Pharm. Sci. (Mumbai, 1985), M. Pharm. Sci. (Mumbai, 1987), Ph. D. (Tech.) (Mumbai, 1992)

Professor of Pharmaceutics

SUBJECTS TAUGHT:

Validation and Regulatory Requirements, Nanoscience and Technology, Pharmaceutics III, Advanced Pharmaceutics, Targeted Drug Delivery, Solid dosage forms Laboratory Cosmeticology Lab, Pharmaceutics Lab I, Pharmaceutics Lab II, Pharmaceutical Formulation Technology Lab I, Pharmaceutical Technology Laboratory, Advanced Pharmaceutics Laboratory.

RESEARCH INTERESTS:

Novel nanocarriers for drug and gene delivery in pertinent areas of national relevance (Cancer, neurodegenerative disorders, infectious/parasitic diseases), protein and peptide delivery, vaccines and adjuvants, Tissue engineering and scaffolds, nanodiagnostics, medical devices (stents/balloons/IUDs), novel polymer and lipid conjugates, cosmeceuticals.

Recognized Research Guide for Ph.D. (Tech.), Ph.D. (Sci.)

Guided students: Ph.D.: 21, Masters: 56

Total Research Publications:

National: 11, International: 72

H-Index: 37; Citations: 5037

Patents (granted in last 5 years): 6

NATIONAL AND INTERNATIONAL AWARDS: 6

National and International Awards (last 5 years): UGC-BSR Mid-Career Award, 2018; Gandhian Young Technological Innovation (GYTI) award 2018 to two teams, 2018; OPPI Woman Scientist Award – 2015 by Organization of Pharmaceutical Producers of India,



2015; Vividhlaxi Audyogik Samshodhan Vikas Kendra (VASVIK) Apex Committee's Smt. Chandaben Mohanbhai Patel Industrial Research Award for Women Scientists, 2015; Convener, Association of Pharmaceutical Teachers of India (APTI), Women forum, 2014; Dr. P. D. Patil Best Pharmaceutical Scientist of the year Award, 2014; Prof. N. R. Kamath Book Author's award, Institute of Chemical Technology, 2014; Veneto Nanotech Prize (Winner of the second edition of the Cadini Prize), NanotechItaly, Italy, 2013; Grant Awardee – 'Nanovaccine for Brucellosis using Green Technology'; Grand Challenges Explorations Grants Round 11, Bill and Melinda Gates Foundation, 2013.

**PROF. SADHANA SATHAYE***Ph.D (Tech)***Professor of Pharmacy****SUBJECTS TAUGHT:**

Anatomy, physiology and pathophysiology-I, Anatomy, physiology and pathophysiology-II, Anatomy, physiology and pathophysiology laboratory-I, Pharmacology-I

RESEARCH INTERESTS:

Neurological/neurodegenerative disorders like epilepsy, Parkinson's disease and Alzheimer's disease, Diabetes mellitus and diabetic complications, Isolation of phytoconstituents from herbal extracts and their investigation as a promising therapy for disorders mentioned above.

Recognized Research Guide for: Ph.D. (Tech)

Guided students: Ph.D.: 13, Masters: 40

TOTAL RESEARCH PUBLICATIONS-

National: 12, International: 55

H-Index: 13; Citations: 767

NATIONAL AND INTERNATIONAL AWARDS:

Fellow, Maharashtra Academy of Sciences;

**PROF. V. N. TELVEKAR**

B. Sc. (Mumbai, 1992), B. Sc. (Tech.) (Mumbai, 1995), M. Sc. (Tech.) (Mumbai, 1997), Ph. D. (Tech.) (Mumbai, 2003)

Professor of Pharmaceutical Chemistry**SUBJECTS TAUGHT :**

Medicinal Chemistry, Pharmaceutical Chemistry, Pharmaceutical Engineering, Process Technology of Drugs and Intermediates

RESEARCH INTERESTS :

Invention of new reactions and reaction, Design and synthesis of novel bioactive molecules using Computer aided drug design, total synthesis of bioactive natural products, process development.

Recognized Research guide for Ph.D. (Tech) in Pharmaceutical Technology, Pharmaceutical Chemistry, Bioprocess Technology, Ph.D (Sci) in Chemistry

Guided Students: Ph.D. 10, Masters: 40

TOTAL RESEARCH PUBLICATIONS-

International: 59

Citations : 944, H-index : 17

PROF. P. R. VAVIA*B. Pharm., M.Pharm., Ph.D. (Tech), FIPA, FMASc***Dean (Academic Programmes) and
Professor of Pharmaceutics****SUBJECTS TAUGHT:**

Pharmaceutics, Drug Delivery systems, Advanced Pharmaceutics, Biopharmaceutics and Pharmacokinetics

RESEARCH INTERESTS:

Cyclodextrin based drug delivery systems, Nanosponge based drug delivery system, Transdermal drug delivery system, Protein and Peptide drug delivery system, Lipid based colloidal formulations, Polymer synthesis for drug delivery, Modified release films, Melt extrusion technology, Oral liquid dosage forms, Oral modified release systems, Techniques in solubilization, Soft gelatin capsules, Bio-conjugates for active targeting, gene delivery.

Recognized Research Guide for Pharmaceutics

Guided students: Ph.D. 43, Masters: 56

Total Research Publications (Scopus):

National: 21, International: 116,

H-Index : 28, Citations: 2806

Patents: International: 3 [PCT (Granted: 1; Applied: 2)]

National: Granted: 8, Applied: 30

**NATIONAL AND INTERNATIONAL AWARDS:**

Best Teacher's Award 2018, Global RESOMER Award 2017 for developing the "Novel bilayer dissolving microneedle arrays with concentrated PLGA microparticle to targeted intradermal delivery: Proof of concept", Best Teacher's Award 2016, VASVIK Award in the category of Biological Sciences and Technology, for developing the Novel Drug Delivery Systems, Synthesis and application of novel polymers and excipients and targeted drug delivery in cancer treatment, January 2015

PROF. PRASHANT S. KHARKAR*B. Pharm. (Pune, 1998), M. Pharm. Sci. (Pharmaceutical Chemistry)**(Mumbai, 2000), Ph. D. (Tech.) (Pharmaceutical Chemistry)**(Mumbai, 2004)***Professor of Medicinal Chemistry****Department of Pharmaceutical Sciences and Technology****Subjects Taught:**

Medicinal Chemistry, Pharmaceutical Organic Chemistry, Pharmaceutical Analysis and Green Chemistry, Biopharmaceutics and Pharmacokinetics

Research Interests:

Design and Development of New Chemical Entities (NCEs) as Anticancer Agents, Cancer Stem Cell (CSC) Inhibitors; Computer-Aided Molecular Design; Synthesis of New Materials and their Biomedical Applications; Drug Repurposing

Recognized Research guide for : Ph. D. (Tech.) in

Medicinal Chemistry, Pharmaceutical Chemistry, Biotechnology and Ph. D. (Sci.)

Guided Students: Ph. D.: 05; Masters: 30**Total Research Publications:** International 60; National 02

H-Index: 15, Citations: 846

Patents (Last five years):

International: 02 [PCT: Published: 02 (US: 01, EP: 01)]

National: Applied: 06

National and International Awards Received

- Best Research Output of the Year 2017-18 given by SVKM's NMIMS (Deemed to be University), Mumbai (August 11, 2018)
- DST Foreign Travel Grant for presenting research work at



Gordon Research Conference on Computer Aided Drug Design, West Dover, USA. (July 2017)

- Best Poster Award at International Conference on Pure and Applied Chemistry (ICPAC)-2016, Mauritius (July 2016)
- Indian National Science Academy (INSA) deputation under International Collaboration and Exchange Programme to University of Mauritius, Mauritius (2016)
- Best e-Presentation Award at the Virtual Conference on Computational Chemistry (VCCC)-2014 organized by University of Mauritius, Mauritius (August 1-31, 2014)
- Best Poster Award at International Conference on Pure and Applied Chemistry (ICPAC)-2014, Mauritius (June 2014)
- DST Foreign Travel Grant for presenting research work at Gordon Research Conference on Bioorganic Chemistry, Andover, USA. (June 2013)





Department of **POLYMER AND SURFACE ENGINEERING**



PROF. SHASHANK T. MHASKE

Ph.D. (Tech.) (Polymer Technology)

Professor of Polymer Technology

Head of the Department



PROF. SHASHANK T. MHASKE
Ph.D. (Tech) (Polymer Technology)

Professor of Polymer Technology
Head of the Department

SUBJECTS TAUGHT:

Compounding and Polymer Processing, Evaluation and characterization of polymers, , Paint Processing, Polymer Chemistry, Polymer & Processing Technology – III, Analysis & Pigment Synthesis, Synthesis & Characterization of raw materials.

RESEARCH INTERESTS:

Novel approaches for synthesis of Nano particles, Synthesis of resins from renewable resources for coating and adhesive applications, Recycling and recovery of polymers, Cellulose based nanoparticles and whiskers, Bio Nanocomposites, Conductive coatings, anticorrosive coatings, Rheology of polymers, Sol gel techniques, Development of Thermoplastic vulcanizates and elastomers.

Recognized Research Guide for

M.Tech/ Ph. D (Tech) in Polymer and Surface Engineering and Green Technology, M.Tech/Ph. D (Science) in Chemistry

Guided Students : Ph.D. (Tech.) – 11 Ongoing - 12,

Ph.D. (Sc) -02 Ongoing - 2, M. Tech. - 64 Ongoing - 15

Total Research Publications:

International: 127, National: 28, Total Citations: 1814, h-index: 20

Patents: 04

NATIONAL AND INTERNATIONAL AWARDS

- Fellow Maharashtra Academy of Sciences. Govt. of Maharashtra.
- Award for Technology Innovation in “Green Polymeric Materials and Products” By Dept. of Chemicals and petrochemicals, Ministry of Chemicals and fertilizers. Govt. of India

PROF. R. N. JAGTAP

B.Sc., B.Sc. (Tech.), M.Sc. (Tech.), Ph.D. Tech.

Professor of Paint Technology

SUBJECTS TAUGHT:

Advanced Surface Coating Technology II, High Performance Coatings, speciality plastics, High performance Coating, Paint Processing and Characterization, Technology of Printing Inks.

RESEARCH INTERESTS:

Living Radical Polymerization for Tailor-made Polymers i.e. ATRP, RAFT, NMP Nanomaterial's and Nano composite, Recycling of polymers and e-waste, Antimicrobial Polymer and Paints, Heat reflective coatings, Corrosion, Flame Retardant Coating , U.V Radiation Polymerization, Sustainable Polymers and Coatings, Microencapsulation, Biodegradable Polyolefins, Green Catalyst, Technical Textiles, Autodeposition coating.

Recognized Research Guide for:

M.Tech. , Ph.D, for Surface Coating Technology, Polymer Engineering and Technology, Green Technology, Chemistry

Guided students: Ph.D.: 16, Masters: 70

Ongoing students: Ph.D. : 10 , Masters: 19

TOTAL RESEARCH PUBLICATIONS-

International: 45, National: 28

Total Citations: 412 h-index: 11

Patents: 01 (granted)



**PROF. PRAKASH A. MAHANWAR***B.Sc., B.Sc. (Tech.), M.Sc. (Tech.), Ph.D. (Tech.)***Professor of Polymer Technology****SUBJECTS TAUGHT:**

Structure Property Relationship, High Polymer Chemistry, Polymer Rheology, Polymer Processing and Technology-1, Polymer Blends and Alloys

RESEARCH INTERESTS:

Polymer Blend, Bio-Polymers, Polymer Composite, green additives, synthesis of Nano-materials and fibres, conducting polymers.

Recognized Research Guide for-

Ph. D (Tech) Polymer and Surface Engineering.

Ph. D (Science) in Chemistry

Guided students: Ph.D. : 17, Masters: 72

Ongoing students: Ph.D. : 10, Masters: 12

TOTAL RESEARCH PUBLICATIONS-

National: 5, International: 79

Citations : 1517; H-index : 21

Patents - 07

NATIONAL AND INTERNATIONAL AWARDS

- Fellow of Maharashtra Academy of Science
- Member, Technical Advisory Committee Ministry of Science and Technology, Government of India, New Delhi

Dr. A. R. RAO*B.Tech., M.Tech., Ph.D. (Tech.)***Assistant Professor of Polymer Technology****SUBJECT TAUGHT :**

Technology of Thermoplastics Identification and Analysis of Polymer, Polymer Processing-II, Chemistry and Technology of Plastics, Synthesis and Characterization of Polymers

RESEARCH INTERESTS:

Polymer Blends and Alloys, Polymer Nanocomposites, Controlled radical Polymerization, Recycling of Polymers Biodegradable Polymers

TOTAL RESEARCH PUBLICATIONS-

National: 02, International: 01

Research Students: M. Tech – 13 (ongoing)

Paper/poster Presented-10




Dr. ANAGHA SHAMSUNDAR SABNIS
B.Sc. (Tech.), M.Sc. (Tech.), Ph.D. (Tech.)
Associate Professor in Technology of Plastics and Paints
SUBJECTS TAUGHT:

Analysis and characterization of raw materials and polymers I, Pigments and additives for polymers, Paint Technology I, Processing of Paints I, Insulating and Intumescent coatings, Processing of Paints II, Analysis and Testing of Paints, Processing of Paints IV, Advance polymer science I, Additives for coatings

RESEARCH INTERESTS:

Coatings based on renewable resources materials, Recycling of polymer waste and coatings thereof, Advancement in anticorrosive coatings Flame retardant coatings, Non-isocyanate polyurethane coatings etc.

Recognized Research Guide for-

Guided students: Ph.D. : 04, Masters: 30

Ongoing students: Ph.D. : 02, Masters: 12

TOTAL RESEARCH PUBLICATIONS-

International: 48

Citations : 777 ; H-index : 15

Patents - 02

NATIONAL AND INTERNATIONAL AWARDS

- CRISP fellowship by Cherening (UK Govt.) and Rolls Royce.
- Super Achiever Award for Excellence in research in Polymers and Paint Technology, (WISE)(UNESCO)

DR. A. P. MORE
B.Tech., M.Tech. Ph. D (Tech)
Assistant Professor in Plastics and Paints
SUBJECTS TAUGHT:

Identification of Resins and Polymers Lab, Advanced Characterization of Polymers and Composite, Synthesis, processing and characterization of colorants & Analysis and Testing of Paints.

RESEARCH INTERESTS:

Nanoparticles, Anticorrosive coating, Polymer recycling, Polymer composites

Recognized Research Guide for M. Tech/ Ph. D (Tech) in Surface Coating Technology & Polymer Engineering and Technology

Total Research Publications-

National: 0 , International: 15

National and International Awards

DST Inspire Fellowship Govt. of India.





IMPACT OF CHEMICAL SCIENCES & MODERN SOCIETY - Professor Dr. G.D. Yadav (Vice Chancellor)

Chemical sciences have played a pivotal role in the development of modern society. From the discovery of fire to the synthesis of polymers, chemical scientists have continuously pushed the boundaries of what is possible. Today, the chemical industry is a major contributor to the global economy, providing a wide range of products that are essential for our daily lives. However, the industry also faces significant challenges, including environmental concerns and the need for sustainable practices. This article explores the impact of chemical sciences on modern society, highlighting both the achievements and the challenges ahead.

The chemical industry has a long history, starting with the discovery of fire. Over time, it has evolved through various stages, from the production of simple chemicals to the development of complex polymers and materials. The industry has been instrumental in the development of many of the products we use every day, from plastics to pharmaceuticals. However, the industry has also been associated with environmental pollution and health concerns. This has led to a growing emphasis on sustainable chemistry, which aims to reduce the environmental impact of chemical processes while maintaining the industry's productivity.

One of the key challenges facing the chemical industry is the need for sustainable practices. This involves the development of new chemical processes that are more efficient and less wasteful. It also involves the use of renewable resources and the reduction of greenhouse gas emissions. The industry is also facing increasing pressure from consumers and regulators to ensure the safety and health of its products. This has led to the development of new safety standards and the implementation of strict regulations.

Despite these challenges, the chemical industry remains a vital part of our society. It provides the raw materials for many of the products we use every day, and it is essential for the development of new technologies. The industry is also a major employer, providing jobs for millions of people around the world. As we move forward, it is essential that the industry continues to innovate and embrace sustainable practices, ensuring that it remains a positive force for our society.



**Heroes
India**



Department of **CHEMISTRY**



PROF. RADHA V. JAYARAM

M.Sc., Ph.D

Professor of Physical Chemistry

Head of the Department



**PROF. RADHA V. JAYARAM***M.Sc., Ph.D.***Professor of Physical Chemistry****Head of the Department****SUBJECTS TAUGHT:**

Chemical kinetics and phase equilibria, quantum chemistry, catalysis, surface and interfacial chemistry, solid state chemistry.

RESEARCH INTERESTS:

Heterogeneous catalysis, green Chemistry, multi-component reactions, structurally ordered materials, functional polymers, and adsorption techniques for removal of water pollutants, recovery of spent metals, enzyme catalysis.

Recognized Research Guide for : Chemistry and Green Technology

Guided students: Ph.D.: - 23, Masters: 42

Total Research Publications :

International: 104

H-Index: 30; Citations: 2717

Patent granted: 01

NATIONAL AND INTERNATIONAL AWARDS:

Elected Fellow of Maharashtra Academy of Sciences (F.M.A.Sc.); Member, Scientific committee, 48th International Chemistry Olympiad, July 2016(Tbilisi, Georgia), CMP Endowment Best Teacher Award 2014-15, Best Women teacher award by the Association of Chemistry Teachers India 2015-16.

Dr. VIJAY KUMAR A.*Ph.D.***Assistant Professor in Organic Chemistry****Warden Boys Hostel****SUBJECTS TAUGHT:**

Biochemistry (MSc), Organic Synthesis (MSc), Organic Chemistry Laboratory (MSc), Organic Chemistry (F.Y. B.Tech.), Organic Chemistry Laboratory II, (B.Chem Eng and B.Tech), Organic Chemistry (M.Sc.)

RESEARCH INTERESTS:

Biomimetic Synthesis, Aerobic oxidation, Surrogate Green Reagents for Organic Synthesis, Drugs and Natural products Synthesis, Catalysis for Total Synthesis, Carbon /Carbon supported catalysts for Organic Transformations, Biogenesis of Natural products.

Recognized Research Guide for:

Ph.D. 03 + 01 (collaborative)

Total Research Publications :

International: 34

Citations: 1533; H-Index: 20



**PROF. BHALCHANDRA M. BHANAGE***M.Sc, Ph.D.***Professor of Industrial and Engineering Chemistry
Dean (Infrastructure and Campus Development)****SUBJECTS TAUGHT:**

Organic Chemistry, Organometallic Chemistry, Catalysis

RESEARCH INTERESTS:Catalysis, Ionic Liquids, Nanomaterials, Enzymatic Catalysis, Coupling Reactions, Amination, Reactions using CO, CO₂ and hydrogen.**Recognized Research Guide for:** Chemistry, Green Chemistry and Technology, Biotech Sciences, NanoScience and Nanotechnology.

Guided students: Ph.D. 44, Masters: M.Sc. 23; M.Tech. 19

Total Research Publications:

National: 02, International: 421 + 22 Book chapters

Citations: 14200 H-Index : 56

Patents : Granted: 24; Filed: 12**NATIONAL AND INTERNATIONAL AWARDS:**

Elected Fellow of Maharashtra Academy of Sciences (F.M.A.Sc.); Fellow of the Royal Society of Chemistry, UK (FRSC); RSC-PTG best paper award by Royal Society of Chemistry 2011; Bronze Medal for Contributions in Research by Chemical Research Society of India, 2012; ISCMA Outstanding Professor Award by Indian Specialty Chemical Manufacturers Association for excellence in academic field for the year 2012 and in 2015; Prof. M.M. Sharma Science and Technology Award for contributions in research by Marathi Vidyan Parishad, 2014.

Dr. SANGHAMITRA CHATTERJEE*M.Sc., Ph.D.***DST INSPIRE Faculty****SUBJECTS TAUGHT:**

Advanced Spectroscopy, Pericyclic Reactions, Analytical Chemistry, Physical/Analytical Chemistry Laboratory, Inorganic Chemistry Laboratory, Analytical Chemistry Laboratory, Organic Chemistry Laboratory and Organic Chemistry.

RESEARCH INTERESTS:

Organic Electrochemistry, Biomedical applications of nanomaterial modified sensors, Materials science and Nanotechnology, Electrochemical sensing techniques for clinical diagnostics and environmental monitoring, Development of sensors for biomolecules, drugs and doping agents, Electrochemical catalysis, Biosensors and arrays.

Recognized Research Guide for Ph.D. Chemistry**Guided students Masters: 07****TOTAL RESEARCH PUBLICATIONS :**

National: 01, International: 30

H-Index: 17; Citations: 2021

NATIONAL AND INTERNATIONAL AWARDS:

DST-Inspire Faculty Scheme Award, Piscopia Marie Curie Fellowship Programme for Postdoctoral Research, Post-Doctoral Fellowship for Women by University Grants Commission, Emerging Scientist Award in the 7th Annual Research and Innovation Week, Ontario, Canada, Post-Doctoral Fellowship from Natural Sciences and Engineering Research Council (NSERC) Discovery Grant.



Dr. S. G. DAWANDE*M. Sc., Ph. D.***Assistant Professor of Organic Chemistry****SUBJECTS TAUGHT:**

Organic Chemistry (B. Pharm), Organic Chemistry (Chem. Eng.), Free Radicals and Photochemistry (M. Sc. Chem.), Organic Chemistry Laboratory (B. Pharm), Organic Chemistry Laboratory (Chem. Eng.), Organic Chemistry Laboratory (B. Tech.), Organic Chemistry Laboratory (M. Sc. Chemistry).

RESEARCH INTERESTS:

Mainly focused on Organic synthesis, Catalysis and Medicinal Chemistry through; Transition Metal Catalysis, Organocatalysis, Asymmetric Synthesis, Natural Product Synthesis, Green Chemistry

Recognized Research Guide for: Ph.D. Chemistry,

Guided students: Ph.D.: 0; Masters: 08

Total Research Publications:

International: 07

Citations: 111, H-Index: 4

NATIONAL AND INTERNATIONAL AWARDS:

DST-SERB Young Scientist Award

**Dr. ANANT R. KAPDI (MRSC, AVH FELLOW)***M.Sc., M.Sc. By Research (University of York, U.K.),**Ph.D. (University of York, U.K),**Alexander von Humboldt Fellow***UGC-FRP Assistant Professor****Former Deputy Director, ICT-Mumbai IndianOil Campus, Bhubaneswar****SUBJECTS TAUGHT:**

Organic Chemistry Natural Product Heterocyclic Chemistry
Organic Chemistry Practicals and Analytical Chemistry

RESEARCH INTERESTS:

Palladium catalysis, Nucleoside modification, Heteroarene modification, Commercial scale process optimization, Drugs synthesis, New product development

Recognized Research Guide for Ph.D. Organic Chemistry

Guided students: Ph.D. 7, Masters: 28

TOTAL RESEARCH PUBLICATIONS-

National: 2, International: 81 + 10 book chapters

H-Index: 27, Citations: 5200

NATIONAL AWARDS :

Alexander von Humboldt Fellowship 2008, Alexander von Humboldt Return Fellowship 2013, DAAD Fellowship for Scientists 2014, Young Associate of Maharashtra Academy of Sciences. Fellow Maharashtra Academy of Sciences 2016, Associate Editor of Royal Society of Chemistry Journal RSC Advances 2015-17. Prof. N. R. Kamath book award 2018, C. B. Murarka Best Assistant Professor award 2019

Dr. P. M. MORE*M.Sc., Ph.D.***Assistant Professor of Analytical Chemistry****SUBJECTS TAUGHT:**

Analytical Chemistry, Analytical and Physical Chemistry Lab, Physical Pharmacy Lab., Instrumental methods Lab. Physical Chemistry Lab.

RESEARCH INTERESTS:

Heterogeneous Catalysis, Synthesis of various mixed metals based catalysts using different methods for selective oxidations and environmental application. Total oxidation of volatile organic compound using non-noble metal based catalyst. Development of non-noble metal based diesel exhaust oxidation catalyst.

Guided students : Ph.D.: 0, Masters: 03,

Total Research Publications : National: 01, International: 12,

H-index : 05, Citation : 122, **Patents** : 01

**PROF. (Mrs.) JAYASHREE M. NAGARKAR***M.Sc. Ph.D.***Professor of Physico-Inorganic Chemistry****SUBJECTS TAUGHT:**

Physical Chemistry, Analytical chemistry

RESEARCH INTERESTS:

Surface and Interfacial Chemistry, Electrochemistry, Homogeneous and Heterogeneous Catalysis, ultrasound assisted organic reactions and catalysis, C-C, C-N coupling reaction for organic synthesis, Preparation and Application of DES for organic synthesis, Synthesis of Nanomaterials. Exploration of Nanomaterials synthesized as catalysts for organic synthesis, Green chemistry. development of environmentally benign synthetic procedures for organic synthesis, Degradation of organic pollutants, Emulsifications of Vegetable oils.

Recognized Research Guide for -Ph.D. (Chemistry)

Guided students: Ph.D.- 12 (Completed), Masters: 20 (Completed)

Total Research Publications- National: 2, International: 61

H-Index : 18; Citations : 1027

NATIONAL AND INTERNATIONAL AWARDS:

- Received "Expert Featured Research Article Honorarium" of \$ 500 for an article entitled "Properties of Vegetal Oil Based creams in skin care" the article was published in Cosmetics and Toiletries;
- Fellow of Maharashtra academy of Sciences.

**Dr. SHRAEDDHA TIWARI***Ph.D.***Assistant Professor of Inorganic and Physical Chemistry****SUBJECTS TAUGHT:**

Physical Chemistry, Physical Pharmacy, Analytical Chemistry, Instrumental Analysis, Surface and Interfacial Chemistry

RESEARCH INTERESTS:

Kinetic and mechanistic investigation of organic reactions, interfacial reactions, "on water" chemistry, reactions in confined media, physical and chemical properties of ionic liquids, space- and time-resolved spectroscopic techniques, asymmetric amplification, transport phenomena in reactions

Recognized Research Guide for Ph.D. Science

Guided students: Ph.D. 2, Masters: 04

Total Research Publications: International: 17, Total citations: 267, H-Index: 7



Department of **GENERAL ENGINEERING**



PROF. DILIP D. SARODE

*B.E. (Civil) , M.E. (Structural),
Ph. D. (Tech.), P. G. D. (Const.
Management), D.C.S.T.*

Professor of Civil Engineering

Head of the Department

PROF. DILIP D. SARODE

*B.E. (Civil) , M.E. (Structural), Ph.D. (Tech.)
P. G. D. (Const. Management), D.C.S.T.*
Professor of Civil Engineering

Head of the Department



SUBJECTS TAUGHT:

Engineering Mechanics and Strength of Materials,
Structural Mechanics and Process Equipment Design I,
Advance strength of Materials.

RESEARCH INTERESTS:

Concrete Technology – Construction Chemicals - Risk
Analysis and its mitigation. Recycling of wastes. Recycling
of agricultural waste and improving soil fertility.

**Recognized Research guide for M.E. (Plastic),
Ph. D. (Tech) in Civil Engineering and Plastic Engineering.**

Guided students: Ph.D.: 01, Masters: 10

Total Research Publications:

National: 14, International: 10

H Index 4, i10 Index: 2, citations 201

Patent Information:

National: 01 (granted), International: 01 (applied)



PROF . VIVEK R. GAVAL

*B.E(Production)(Mumbai,1987), M.E (Plastic Engg)
(Mumbai,1991), Ph.D(Tech)(Mumbai,2012)*

Professor and Associate Dean (Academic Programme)

SUBJECTS TAUGHT:

Energy Engineering, Equipment Design and Drawing,
Engineering Graphics, Design and fabrication of moulds,
Finite Element Analysis, Processing of plastics laboratory.

RESEARCH INTERESTS:

Particulate filled polymer composites, conversion of
Metal parts into plastic using design softwares, Tribology,
Moldflow analysis of injection moulded plastic parts.

Recognized Research Guide for : Ph.D. (Tech) in
Mechanical Engineering and Plastic Engineering.

Guided students: Ph.D.: 01, Masters: 25

Total Research Publications:

International: 09, H Index 1, i10 Index_, citations 11

Patent information: National: 01 (applied)

PROF. S. P. DESHMUKH

D.M.E. (Ratnagiri, 1983), B.E. (Prod.) (Mumbai, 1986), M.E. (Prod.) (Mumbai, 1992), Ph.D. (Mumbai 2009)

Professor - cum -Workshop Superintendent and Associate Dean of Infrastructure and Campus Development



SUBJECTS TAUGHT :

Equipment Design and Drawing I, Engineering Graphics, CAD/CAM/CAE.

RESEARCH INTERESTS :

Polymeric Composites, Engineering Materials, Plastic Processing, Design of Molds, Analysis of Plastic component using CAD, CAE tools. Solar Hybrid Energy, Refrigeration Air Conditioning, Heat Transfer through microchannel.

Recognized Research guide for Ph.D. (Tech.) in Mechanical Engineering, Plastic Engineering, Electrical Engineering, Electronic Engineering
Guided students: Ph.D.: 05, Masters: 17

Total Research Publications:

National: 07, International: 32

H Index 9, i10 Index 8, citations 229



Shri. M. A. K. KERAWALLA

B.E. (Elect.) (Mumbai, 1981), M.E. (Elect.) (Mumbai, 1984)

Associate Professor of Electrical Engineering

SUBJECT TAUGHT :

Electrical Engineering and Electronics

RESEARCH INTEREST :

Power Systems

TOTAL RESEARCH PUBLICATIONS

National: 6, International: 12

Dr . PRERNA GOSWAMI

B.E. (Electrical), M.E. (Instrumentation and Control), Ph. D(Tech) (Electrical Engg.)(ICT Mumbai,2018)

Associate Professor in General Engineering (Electrical)



SUBJECTS TAUGHT:

Electrical Engineering and Electronics

RESEARCH INTERESTS:

Sustainable Energy and MATLAB simulations

Recognized Research guide for Ph.D. (Tech.) in Electrical Engineering, Electronics Engineering

Total Research Publications:

National: 10, International: 17

H index 5, i10 index 1, citations 39

Dr. R. S. N. SAHAI

B.E. (Mechanical Engg.), M.E. (Plastic Engg.), Ph.D (Tech.)(Mechanical Engg.) (ICT Mumbai,2018)

Associate Professor in Mechanical Engineering



SUBJECTS TAUGHT:

Engineering Graphics I, II, Energy Engineering, Processing of Plastics, Principle of Plastic Machinery Design

RESEARCH INTERESTS:

Polymer Composites, Mould Design

Recognized Research Guide for M.E (Plastic Engineering), Ph.D. (Plastic Engineering)

Guided Students Masters: 09

Total Research Publications :

International: 08, H index 2, citations 19





DR. AJIT KUMAR

B.Sc., M.Sc., Ph.D.

Associate Professor of Mathematics

Head of the Department

Handwritten mathematical notes on a chalkboard background, including:

- Equations: $\frac{d\theta}{dt} = \left(\frac{g}{L}\right)^{1/2} (\theta_0^2 - \theta^2)^{1/2}$, $\frac{d^2 r}{dt^2} = \frac{d^2 r}{d\phi^2}$, $\int \frac{d\theta}{(\theta_0^2 - \theta^2)^{1/2}} = \left(\frac{g}{L}\right)^{1/2} \int dt$, $\int \frac{d\theta}{(\theta_0^2 - \theta^2)^{1/2}} = \left[\text{Arcsin} \left(\frac{\theta}{\theta_0} \right) \right]_{\theta_1}^{\theta_0} = \text{Arcsin} \left(\frac{\theta}{\theta_0} \right) - \text{Arcsin} \left(\frac{\theta_1}{\theta_0} \right)$, $f_0 = \frac{\omega_0}{2\pi} = \frac{(g/L)^{1/2}}{2\pi}$, $N_a = (\vec{r} \cdot \vec{F})_a = 2Mg \sin \theta$, $J_a = (\vec{r} \times \vec{F})_a = -ML^2 \dot{\theta}$, $ML^2 \dot{\theta} = -LMg \sin \theta$, $\ddot{x} + \frac{c}{M} x = 0$, $x = A \sin(\omega_0 t + \phi)$, $\ddot{x} = -\omega_0^2 A \sin(\omega_0 t + \phi)$, $\ddot{x} + \omega_0^2 x = 0 \rightarrow \omega_0 = \left(\frac{c}{M}\right)^{1/2}$, $v_0 = \omega_0 A \cos \phi$, $K = \frac{1}{2} M \dot{x}^2 = \frac{1}{2} M [\omega_0 A \cos(\omega_0 t + \phi)]^2$, $\langle K \rangle = \frac{\int_0^T K dt}{T} = \frac{1}{2} M \omega_0^2 A^2 \int_0^T \frac{\cos^2(\omega_0 t + \phi) dt}{2\pi/\omega_0}$, $E = \frac{Mc^2}{(1-v^2/c^2)^{1/2}}$, $E^2 = p^2 c^2 + M^2 c^4$, $= Mc^2 \left[1 + \left(\frac{p^2}{M^2 c^2} \right) \right]$, $\Delta t' = \Delta t \sqrt{1 - \frac{v^2}{c^2}}$, $\Delta p_x = \left(1 - \frac{v^2}{c^2}\right)^{1/2} \frac{\Delta p_x}{\Delta t} = \left(1 - \frac{v^2}{c^2}\right)^{1/2} \frac{\Delta p_x}{\Delta t}$, $d p_x = \left(1 - \frac{v^2}{c^2}\right)^{1/2} d p_x$, $\frac{d p_x}{dt} = \left(1 - \frac{v^2}{c^2}\right)^{1/2} \frac{d p_x}{dt}$
- Diagrams: A graph of a sine wave, a circuit diagram with a capacitor and inductor, and a diagram of a pendulum.

**Dr. AJIT KUMAR**

B. Sc. Hon. (Patna University, 1995), M. Sc. (Mumbai University, 1997)

Ph. D. (Mumbai University, 2002)

Associate Professor of Mathematics

Head of the Department

SUBJECTS TAUGHT:

UG: Applied Mathematics I, II and IV, Computer Programming

PG: Applied Linear Algebra, Advance Calculus, Numerical Methods, Computer Programming, Software Lab – I and II
Optimization Techniques, Software Lab – II

RESEARCH INTERESTS:

Optimization Techniques, Statistical Analysis, Mathematical Pedagogy

Recognized Research guide for Ph.D. (Sci.) in Mathematics

Ph. D. Guided: 01

On Going Ph.D. students: 02

Masters Projects Guided: 15

Total Research Publications:

National: 02, International: 08

Books Published: 04

Book Chapters: 06

Dr. AMIYA R. BHOWMICK

B.Sc. (University of Calcutta, 2006), M.Sc. (IIT Bombay, 2008)

Ph.D. (University of Calcutta, 2015)

Assistant Professor of Mathematics

SUBJECTS TAUGHT:

UG: Applied Mathematics I, Applied Mathematics II, Engineering Application of Computer

PG: Advanced Real Analysis, Applied Statistics I, Applied Statistics II, Applied Statistics III, Mathematical Biology, Software Lab.

RESEARCH INTERESTS:

Statistical Inference on Growth Curve Models, Species Distribution Modelling, Stochastic Population Dynamics

Recognized Research Guide for Ph.D. (Sci.) in Mathematics

Guided students: On Going Ph.D. students: 01

Guided students: Masters: 11

Total Research Publications:

National: 3, International: 21

Citations: 204; H-Index: 9



**Dr. STUTI BORGHAIN**

B.Sc. (Cotton College, Assam, 2001), M.Sc. (Tezpur Central University, Assam, 2004), Ph.D. (Institute of Advanced Study in Science and Technology, Assam, 2012), PDF (IIT Bombay, NBHM(DAE, GOI), 2012-15)

Assistant Professor of Mathematics

SUBJECTS TAUGHT:

UG: Applied Mathematics I, Applied Mathematics II, IPC Computer Course

PG: Differential Equations I, Differential Equations II, Numerical Methods I, Problem course in Mathematics

RESEARCH INTERESTS:

Sequence Space and Summability Theory, Fuzzy Mathematics, Measures of Compactness

Total research publications: International: 18, Citations: 131; H-Index: 4, **Guided students:** Masters:1

Dr. V. DIVYA

B.Sc. (St. Stephen's College - University of Delhi, 2005), M. Math (Indian Statistical Institute - Bangalore, 2007), Ph.D. (University of Genoa - Italy, 2013)

UGC Assistant Professor

SUBJECTS TAUGHT:

UG: Applied Mathematics I, Applied Mathematics II;

PG: Differential Equations I, Differential Equations II, Numerical Methods I, Numerical Methods II.

RESEARCH INTERESTS:

Fluid mechanics, Non-linear dynamics, Inverse problems and their applications

Recognized Research Guide for Ph.D. (Sci.) in Mathematics

Guided students: Masters: 05

Total research publications: International: 8

**Dr. AKSHAY S. RANE**

B.Sc. (University of Mumbai, 2005), M.Sc. (University of Mumbai, 2007), Ph.D. (IIT Bombay, 2013)

UGC Assistant Professor

SUBJECTS TAUGHT:

UG: Applied Mathematics - I, II and III, Engineering Application of Computer.

PG: Advanced Calculus, Applied Functional Analysis, Complex Analysis and Mathematical methods, Differential Equations, Applied Linear Algebra, Advanced Real Analysis.

RESEARCH INTERESTS:

Numerical Functional Analysis especially Spectral Approximation of Integral operators

Recognized Research guide for Ph.D. (Sci.) in Mathematics

Guided students: Masters: 6

Total Research Publications: 8, National: 1, International: 7 Citations: 11; H-Index: 2





Department of PHYSICS



DR. MOHAN NARAYAN

B.Sc., M.Sc., Ph.D.

Associate Professor of Physics

Head of the Department

**Dr. MOHAN NARAYAN**

B.Sc. (Mumbai, 1988), M.Sc. (Mumbai, 1990), Ph.D. (Madras, 1999)

**Associate Professor of Physics
Head of the Department**

SUBJECTS TAUGHT:

PG – Quantum Mechanics, Classical Mechanics, Molecular Quantum Mechanics and UG Lab

RESEARCH INTERESTS:

Theoretical High Energy Physics, Chemical Engineering Thermodynamics, Molecular dynamics

Recognized Research Guide for Ph.D. (Sci.) in Physics

Guided students: Ph.D.: 01, Ongoing: 01

Total Research Publications:

National: 03, International: 23

H-Index: 10; Citations: 361

Impact factor-range: 1.0 to 6.11

PROF. R. R. DESHMUKH

B.Sc. (Pune, 1991), M.Sc. (N. M. U. Jalgaon, 1994), B.Ed. (Mumbai, 1995) Ph.D. (Mumbai, 2002)

Registrar of ICT and Professor of Physics

SUBJECTS TAUGHT:

Solid State Physics, Electricity and Magnetism, Analytical Techniques (PG).

RESEARCH INTERESTS:

Plasma Technology, Polymer Physics, Functionalisation of nanoparticles, Molecular tailoring of surfaces using plasma for biomedical applications, textile physics, Electro-optical properties of Polymer Dispersed Liquid Crystals, Polymer nanocomposite materials

Recognized Research Guide for Ph.D. (Sci.) in Physics, Chemistry

Guided students: Ph.D.: Guided : 06, Ongoing : 06

Masters: 02

Total Research Publications:

National: 05, International: 95

Book Chapter-08

H-Index: 30; Citations: 2552

i-10 Index: 62





PROF. V. D. DESHPANDE
*M.Sc. (Delhi, 1978), M.Phil. (Delhi, 1980),
 Ph.D. (Delhi, 1986)*

Professor of Colour Physics

SUBJECTS TAUGHT:

Lasers and Fibre optics, Ultrasonics, Colour Physics (UG and PG) and Colour Physics Lab

RESEARCH INTERESTS:

Polymer nanocomposites, Polymer blends: Crystallization kinetics, Mechanical and optical properties, study of dielectric behavior, Orientation behavior, structure-property relationship; Colour Physics: Colour assessment of dyed textiles; Assessment of the effect of the background on the colour perception; Polymer embedded nano-drug delivery; background on the colour perception; Polymer embedded nano-drug delivery;

Recognized Research Guide for Ph.D. (Sci) in Physics

Guided students: Ph.D. : 07

Masters: 05

TOTAL RESEARCH PUBLICATIONS :

National: 06, International: 27

h-Index: 06 Citations: 25

Patents (granted in last 5 years): 01

Dr. NEETU JHA

*B.Sc. (Calcutta Univ, 2002), M.Sc. (BHU,
 2004), Ph.D. (IIT-Madras, 2009)*

UGC-FRP Assistant Professor



SUBJECTS TAUGHT:

Nanoscience and Technology, Introduction to Nanoscience, UG Physics Lab

RESEARCH INTERESTS:

Carbon Nanomaterials, Supercapacitors, Fuel Cell Electrocatalyst, Capacitive Desalination, Photothermal materials.

Recognized Research Guide for Ph.D. (Sci.) and Ph.D. (Tech.): Physics and Green Technology

Guided students:

Ph.D. : 02, Masters: 06

Total Research Publications :

National : 02 International : 46

H-Index: 15; Citations: 1092

Patents (granted in last 5 years): 01

National and International Awards (last 5 years):

DST Young Scientist Award 2013; DST Inspire Faculty Award

2012; BRNS Young Scientist Research Award 2014.



Dr. ARCHANA S. KALEKAR
M.Sc. Ph.D. (Physics)
 Assistant Professor in Physics

SUBJECTS TAUGHT:

Material Science, Material Synthesis, and Applied Physics.

RESEARCH INTERESTS:

Photovoltaics, Quantum Dot Sensitized Solar Cells (QDSSC), Photocatalytic Hydrogen generation, Photocatalytic dye degradation, Gas Sensors Supercapacitors, Chemical synthesis of semiconductor nanostructures.

Recognized Research Guide for

Ph.D. (Sci) in Physics

Guided students: Ph.D.: 2 (Ongoing)

Masters: 04

Total Research Publications:

National: 00, International: 34

h-Index: 14 Citations: 613

SUBJECTS TAUGHT:

Quantum Mechanics, Optics, Color Physics (UG) and General Physics (PG) Laboratory

RESEARCH INTERESTS:

Materials Physics, Quantum Magnetism, Thermal Transport, Crystal Growth

Recognized Research Guide for Ph.D.

(Sci) in Physics

Total Research Publications:

National:0 International: 10

h-Index: 4, Citations: 68

Dr. ASHWIN MOHAN

B.Sc. (Mumbai, 2007),

M.Sc. (Mumbai, 2009),

Ph.D. (Germany, 2014)

Assistant Professor of Physics



Dr. PARESH H. SALAME

M.Sc. (Condensed Matter Physics, 2005), Ph.D.

(IIT Bombay, 2014)

Assistant Professor in Physics

SUBJECTS TAUGHT:

Introduction to Ceramics (PG), Analytical Techniques (PG), Polymer I and II (PG), FY BTech Lab (UG), General Physics Lab (UG).

RESEARCH INTERESTS:

Rechargeable Secondary Batteries (Na-ion batteries), Supercapacitors, Colossal Dielectric Materials, Multiferroic Materials, Electro-ceramics, Polymer Nanocomposites

Recognized Research Guide for Ph.D. (Sci) in Physics

Guided students: Ph.D. :

Masters: 1 (ongoing)

Total Research Publications:

International: 13

h-Index: 05, Citations: 81





DBT-ICT CENTRE FOR ENERGY BIOSCIENCES



DR. ANNAMMA ANIL ODANETH

*B.Sc. (Microbiology),
M.Sc. (Biotechnology),
P.G. Diploma in Bioinformatics, Ph.D.
Applied Chemistry
Co-ordinator, DBT-ICT Center for Energy
Biosciences*

Associate Professor

Head of the Department

**Dr. ANNAMMA ANIL ODANETH**

*B.Sc. (Microbiology), M.Sc. (Biotechnology),
P.G. Diploma in Bioinformatics, Ph.D. Applied Chemistry*
Co-ordinator, DBT-ICT Center for Energy Biosciences
Associate Professor

SUBJECTS TAUGHT:

Biological Sciences, Protein and Enzyme Engineering; Biocatalysis & Enzyme Technology.

RESEARCH INTERESTS :

Biocatalysis & Microbial fermentation for waste to value products, secondary agriculture, mining, redesigning and implementing proteins for food, feed, fuel and functional molecule synthesis, Yeast microbiology and synthetic Engineering, byproduct process development, integration & intensification, Process development, Characterization & scale-up.

Recognized Research guide for Ph.D. (Sci.) in Biotechnology, Ph.D. (Sci.) in Bioprocess Technology, Masters in Bioprocess Technology, Masters in Green Technology

Guided students: Ph.D. 8; Masters: 15

Total Research Publications: National: 1, International: 34

Dr. VISHWANATH H. DALVI

*B. Chem. Eng. (UDCT, Mumbai)
M.S., P.D.Eng in Process Engineering (University of
Twente, NL), Ph.D. in Chemical Engineering (University
of Texas at Austin, USA)*
**Co-coordinator, DBT-ICT Center for Energy
Biosciences**

R. A. Mashelkar Assistant Professor and Co-ordinator

SUBJECTS TAUGHT:

Industrial Engineering Chemistry, Chemical Process Control, Advanced Mass Transfer, Process Simulation Laboratory, Chemical Engineering Laboratory, Mathematical Methods in Chemical Engineering.

RESEARCH INTERESTS:

Renewable Energy, Solar Thermal Technology, Anaerobic Digestion, Process Simulation, Molecular Simulations, Applied Thermodynamics, Process Scaleup

Recognized Research guide for Ph.D. (Tech.) in Chemical Engineering, Masters in Chemical Engineering

Guided students: Ph.D. 2 (coguided) (5 ongoing);

Masters: 12

Total Research Publications: National: 0,

International: 17

Patents (granted in last 5 years): National: 1,

International: 0





Dr. SHALINI DEB
Ph.D. (Sci.) (Biotechnology)
Research Scientist

RESEARCH INTERESTS:

Genome engineering, synthetic biology, metabolic engineering, protein engineering, gas fermentation, high-throughput screening strategies for metabolites of interest

Recognized Research guide for M. Tech. BPT

Guided Students: PhD: Nil, Masters: 2 (ongoing)

Total Research Publications-

International: 2

Patents (granted in last 5 years): 2

Dr. REENA PANDIT
*B.Sc. (Zoology), M.Sc. (Marine Biology),
 Ph.D. (Marine Biotechnology)*
Associate Professor

SUBJECT TAUGHT:

Biochemistry, Green Biotechnology

RESEARCH INTERESTS:

Algal growth engineering for production of biofuel and biochemicals, CO₂ sequestration and waste water management using micro and macroalgae, Genetic engineering of cyanobacteria for value added compounds

Recognized Research guide for M. Tech. Bioprocess Technology and Green Technology

Guided students: Ph.D.: 1 (Co-Guided), 7 (Guided)

Masters: 19 (Completed), 3 (Ongoing)

Total Research Publications: National: 2, International: 22,

Patents: 1 (National)



Dr. HITESH PAWAR
M.Sc. (Organic Chemistry), Ph.D. (Science) Chemistry
Assistant Professor

SUBJECTS TAUGHT:

Analytical techniques in Bioprocessing, Unit Operation (M.Tech Bioprocess Technology)

RESEARCH INTERESTS:

Conversion of bio-based sugars to value added chemicals, Photocatalytic hydrogen production, Novel homogeneous, heterogeneous and transition metal catalysis, Synthesis of ionic liquids, deep eutectic solvents, Study of reaction kinetics and reaction mechanism, Designing and development of industrial catalyst, Process intensification and integration, Process development, characterization and scale-up, Chromatographic separation and purification of small molecules, Computational chemistry and molecular modeling Effluent treatment.

Recognized Research guide for Ph.D. (Sci.) in Biotechnology, Ph.D. (Tech.) and M Tech. Bioprocess Technology, Ph.D. (Chemistry)

Guided students: Ph. D 4 (Ongoing) Masters 3 (Ongoing)

Total Research Publications: International: 10, Patents: 10

Dr. GUNJAN PRAKASH*M.Sc. (Plant Sciences), Ph.D. (Plant Biotechnology and Fermentation),***Associate Professor****SUBJECTS TAUGHT:**

Microbiology, Fermentation

RESEARCH INTERESTS:

Molecular Biology of algae and marine protist, Algal Biotechnology and Biofuels, Production of high value compounds from Algae and Plants, Fermentation for value added compounds

Recognized Research Guide for: Biotechnology (Science)

Guided students: Ph.D: 3 (Co-guide), Masters: 10 (Guide)

Total Research Publications: National: 2, International: 19

Patents: 3

**Dr. CRK REDDY***Ph.D. (Marine Sciences)***DBT Energy Biosciences Chair Professor****RESEARCH INTERESTS:**

Seaweed feedstock production and its biorefining

Recognized Research guide for Biotechnology

Guided Ph.D : 10

Total Publication: National 4, International: 104**Patents (granted in last 5 years):** 1**Dr. SHAMLAN M. S. RESHAMWALA***B.Sc. (Microbiology and Biochemistry), M.Sc.**(Biochemistry), Ph.D. (Molecular Biology)***Assistant Professor****SUBJECT TAUGHT:**

Biosystems and Bioprocess Engineering, Molecular Biology and Biotechnology, Applied and Synthetic Biology, Intellectual Property Rights

RESEARCH INTERESTS:

Molecular and synthetic biology, recombinant protein expression in prokaryotic and eukaryotic host cells, enzyme engineering for improved catalysis and robustness, metabolic and pathway engineering to design novel biosynthetic routes for high-value chemicals, valorization of abundant feedstocks, bioprospecting to explore metabolic diversity, science communication and pedagogy, IP policy

Total Research Publications:

International: 10, Patents: 1





Mr. DEEPAK SARDA
M.Tech. (BPT), LLB
Research Associate (IPM and TC Unit)

SUBJECTS TAUGHT:
 IP

RESEARCH INTERESTS:
 Patent prosecution, Trademark, Copyright, Legal NDA/MoU.

Total Research Publications:
 International: 1



Dr. NITIN TRIVEDI
Ph. D. (Biological Sciences)
DST INSPIRE Faculty

SUBJECTS TAUGHT:
 Microbiology

RESEARCH INTERESTS:
 Seaweed biofuel and bio-refinery, Algal bioremediation, Algal growth engineering, Marine enzymes, Biomass to bio-chemicals.

Recognized Research guide for
 MTech Bioprocess Technology

Total Research Publications:
 International: 21, Patents : 3

Dr. MANJU SHARMA
B.Sc. Biosciences;
M.Sc. Microbiology;
Ph.D Microbiology
Assistant Professor

SUBJECTS TAUGHT:
 Microbiology

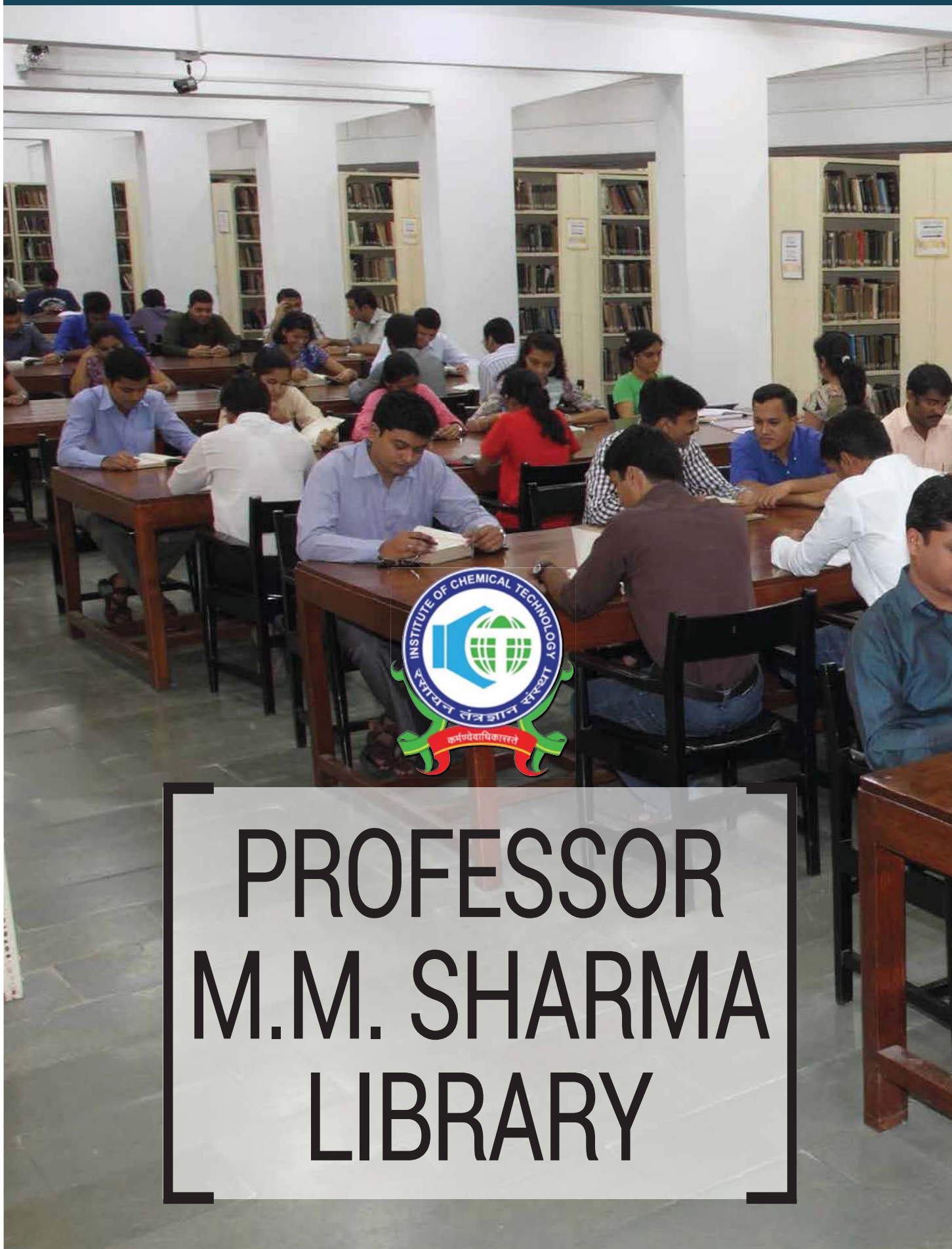
RESEARCH INTERESTS:
 Waste Valorization, Biogas/ CBG, Anaerobic/ aerobic fermentation for biobased chemicals, Consortium design & microbiome studies, Bioprospecting of industrially important microbes, Thermophilic enzymes, Industrial Microbiology/Microbial Biotechnology

Recognized Research guide for NA

Ph.D: 2, Masters: 2

Total Research Publications :
 International: 06





PROFESSOR M.M. SHARMA LIBRARY



Mrs. MADHAVI WADKAR
B.Sc., M.L.I.Sc.
Senior Librarian
Head of the Library
Warden, Girls Hostel

Mr. AMOGH LOKHANDE
B.Sc. M.L.I.Sc.
Librarian







PROFILE OF DEPARTMENTS AND CENTRES OF EXCELLENCE

Masters
of the
Nano Age

DEPARTMENT OF CHEMICAL ENGINEERING



VISION :

We will strive to be a vibrant department, with continuously evolving curricula and programmes that will charter the future of chemical, biological, materials and energy industries of the nation and be on par with the very best in the world through the participation and scholarship of our faculty, and students who will be torch bearers in education and research and have great impact in solving societal needs for the benefit of mankind at large.

MISSION :

We will create an atmosphere conducive to generate new knowledge at every opportunity for our students at large. Our education will enable new chemical engineering solutions to meet the need of all segments of society with regard to material and energy, while protecting the environment and conserving the natural resources. Our endeavors will enhance the public welfare. Our activities will not be limited to class-rooms but will extend to a greater multi and cross disciplinary platform to conduct research, discovery, technology development, service to industry and entrepreneurship in consonance with India's aspiration to be a welfare state. We will team chemical engineers with professionals in other disciplines to arrive at better solutions. We will provide all students with a strong foundation in chemical engineering and applied sciences to encourage them to be our ambassadors at national and international level, in whatever professional activity they undertake to serve the society. Through our vision, we will serve the chemical engineering profession and society and strive to reach the summit as a team and stake-holders and as role models to the younger generation.

What is Chemical Engineering?

Chemical engineering is one of the most versatile branch of engineering that applies scientific and mathematical principles to design and develop processes by which available chemicals can be converted into a variety of useful products. Chemical Engineering is applicable to a wide range of technologies, including the production of energy, materials, electronics, and pharmaceuticals, the processing of food, and environmental protection as well as remediation. The development of high quality materials, products and large scale processes is the testimony

of an industrialized nation and every nation tries to build its foundation on the strong pillars of Chemical Engineering profession which cuts across several chartered and unchartered territories of human civilization. Thus Chemical engineering is practised from nano scale to mega scale, from food / pharma to nuclear engineering from mineral/ mining to silicon (high purity grade). The subjects of energy, environment and sustainability are very much integral part of Chemical Engineering as Chemical engineering fundamentals are used to solve problems related to pollution, hunger and sustainable living (housing and modern farming).

MODERN CHEMICAL ENGINEERING

The modern discipline of chemical engineering encompasses much more than just process engineering. Chemical Engineering is highly science based discipline and is the most versatile and accommodative branch of engineering among all. Chemical Engineering work on scales from atom to atmosphere and are involved in all possible human activities which process materials and energy. Human body is the best example of applications of principles of Chemical Engineering. Kitchen uses all sorts of unit operations familiar to Chemical Engineering. All transport phenomena are unified due to Chemical Engineering. Chemical engineers are now engaged in the development and production of a diverse range of products, as well as in commodity and specialty chemicals. These products include high performance materials needed for aerospace, automotive, biomedical, electronic, environmental, and space and military applications. Examples include ultra-strong fibres, fabrics, adhesives and composites for vehicles, bio-compatible materials for implants and prosthetics, gels for medical applications, pharmaceuticals, and films with special dielectric, optical, or spectroscopic properties for opto-electronic devices. Additionally, chemical engineering is often intertwined with biology and biomedical engineering. Many chemical engineers work on biological projects such as understanding biopolymers (proteins) and mapping the human genome.

A new paradigm of “borderless chemical engineering science” is emerging. The demands from the society on ‘cleaner’ technologies rather ‘clean-up’ technologies, the emergence of ‘performance chemicals and materials’, etc., is driving the profession towards achieving a symbiotic relationship with other disciplines. It has always been dealing with pollution prevention, atom economy, recycle, as the Solvay process would suggest. The term ‘green chemical engineering’ as a mantra for sustainable development and responsible care is at the centre-stage for all activities related to

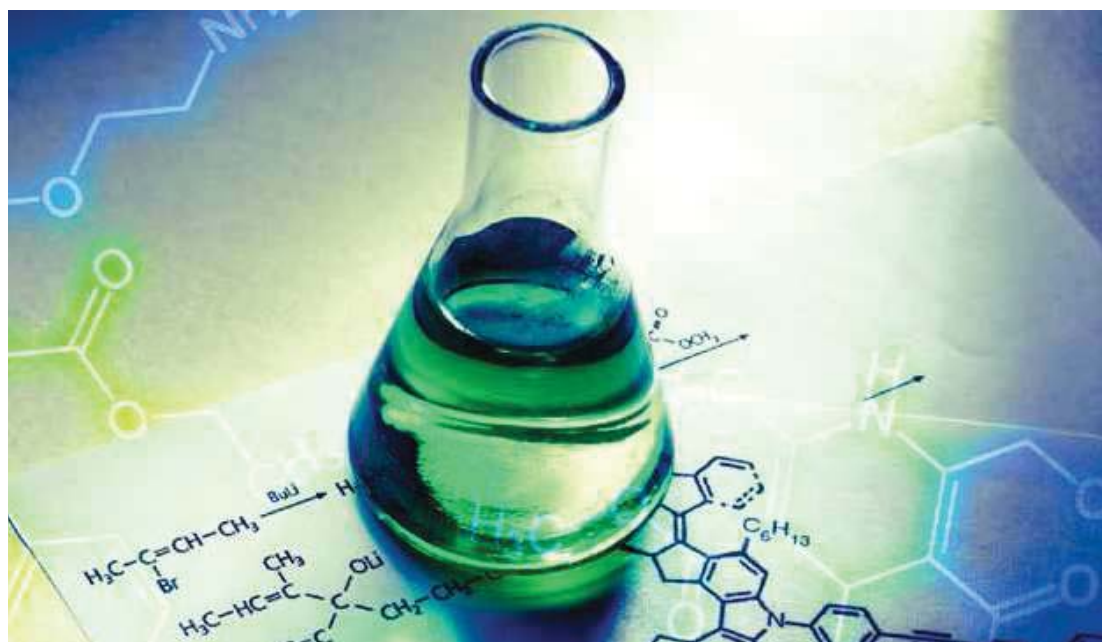


chemical engineering. Future course of an engineering discipline is reflected in current research areas within its folds. The expedition ahead for Chemical Engineering, based on the research profile of Chemical Engineering schools world over suggests that it is embracing biology, bio-engineering, tissue engineering, bio-processing, green chemistry and green engineering, and material science and nanotechnology in a big way and has been a truly working on scales from atom to atmosphere. Readily available computing power is changing the nature of research activity forever. A high level of mathematics and computational methods are intertwined with chemical engineering. The advent of new measurement techniques is reducing the length scale of investigation to nano and molecular scales irreversibly in many cases. Chemical Engineering thus appears poised for a major expansion. Chemical engineers are getting directly involved in development of new products and new technologies which improve the quality of life which requires highly interdisciplinary work, new ways of treating diseases-a domain of medical practitioners only till very recently, and development of application specific materials and fluids with complex structure at various length scales.

Chemical Engineering is not just Chemistry but a discipline itself with own characteristics. A proficiency in basic sciences such as Chemistry, Physics, Biology, Mathematics and their applications is necessary to effectively conduct the molecular transformations at scales varying from thousands of tonnes to few kilograms per day in economically attractive and environmentally safe manner. Each reaction with unique characteristics gives challenging opportunities to conduct it at profitable scale to produce increasingly purer products as per market demands with minimum energy input in shortest time without producing waste or by-products. Each combination of Reaction and Reactor is, therefore, a challenge to the Chemical engineer to make it faster, simpler and cheaper.

Borderless and Versatile Engineering Profession

Over the few decades, Chemical Engineering has evolved developing interfaces with newer areas, including Biochemical Engineering, Nano Technology, and Energy Engineering taking advantage of developments in High performance computations, Electronics and Instrumentations and Information Processing. Although the basic responsibility of a Chemical engineer remains in design, testing, scale-up, operation and control of chemical plants, the interface helps the Chemical Engineers to enter into these newer areas at ease. Large Manufacturing facilities such as cements, petroleum refineries, oil and natural gas exploration and semiconductor Industries, biofuels and biotransformations, nuclear reactors, all involve Chemical engineering operations. Chemical engineers find good job opportunities in a wide spectrum of industries involving speciality chemicals, pharmaceuticals, drugs, polymers, textiles, paints, dyes, vegetable oils and foods.





Because of excellent analytical skills Chemical Engineers(CE) can work in areas from chemoinformatics to bioinformatics, drug delivery systems, molecular modelling, to handling systems from nanoscales to global scales for environmental impact and climate change. The versatility of Chemical Engineering education, therefore, makes a wide choice of career options available to the CE candidates. There is a huge scope for higher studies in Chemical Engineering because of highly science based discipline and requirement of RandD in the country. All B.Tech. courses in ICT have much wider base in Chemical Engineering including subjects like Material and Energy Balance, Separation Processes, Heat and Mass Transfer, Chemical Reaction Engineering, Thermodynamics, Process Control, Chemical Process Industries, Chemical Process Economics. Consequently, at Masters level ICT B.Tech. students from all specialisation are accepted for admissions in Western Universities and within ICT itself.

The Integrated Master of Technology with a major in Chemical Engineering and minor in other branches was thus conceived which also includes trimester system and two year's industrial/research internship. These innovative programmes will be offered at the IOC Bhubaneswar and Marathwada Campus at Jalna.

International Standing of Department

The Department of Chemical Engineering is the number one Chemical Engineering Department in the Country by all the standards: teaching, research and industrial relationship, as has been rated by the international surveys conducted by Professor Jude Sommerfield of Georgia Tech., USA since 1964 for every five year period as well as every year and also during the 5-year period during 2014 which included all IITs and IISc. Besides it is among top 10 Departments in the world and in terms of productivity as measured by papers per faculty per dollar spent, it is number one in the world. The number of papers published in peer reviewed journals per faculty is also the highest in India. The FIST programme of DST has revealed that the Chemical Engineering Department is the Best Department in all engineering Departments in India.

This is again the record which has been held due to the research contributions of faculty in international journals of repute. The value and impact of our research is reflected in highest number of papers per faculty member, highest impact factor per paper, and highest number of citations for papers of Chemical Engineering Department. The Department is recognized as the UGC Centre for Advanced Studies for a record time since 1989 and as UGC Networking Resource Centre in Chemical Engineering, since 2008; only one of its kind and further supported by DST-FIST programme with state-of-the-art research facilities.

The faculty has been acting as consultants to industry and the earnings are the highest for any engineering Department in India.

Connectivity with Industry

Collaborative Academic Programs have been initiated with international institutes such as Purdue University, Kansas University, University of Saskatchewan, ICGEB, and, CSIR labs. Many foreign universities have shown interest in collaborating with Chemical Engineering faculty, and the most striking is a string of Canadian Universities desirous of signing MOUs with this Department. The dual Ph.D. degree programme in Chemical Engineering with Michigan State University, USA is the highlight of this year.

Accolades and Awards

The last three Vice-Chancellors / Directors of ICT have been bestowed upon with Padma awards with Prof. Yadav being awarded Padmashree in Jan' 16. Two former Directors of CSIR labs are currently Distinguished Professors in Chemical Engineering Department which is also unique. A number of awards have come to the faculty members in Chemical Engineering including Jagdish Chandra Bose National Fellowship, fellowships of Indian National Science Academy, Indian Academy of Sciences, National Academy of Sciences in India, Indian National Academy of Engineering and Indian Institute of Chemical Engineers. Not only faculty members but students also have bagged a number of awards. Even home paper or design papers of the final year students have been repeatedly rated as the best by the Indian Institute of Chemical Engineers and the Ambuja Cement and Sir P. C. Ray Awards have come several times to ICT which itself is a record. All these awards recognize excellence in the field of Chemical Engineering. The ICT has also received the award for being 'The Best Industry Related Institute in Chemical Engineering' from the confederation of Indian Industries and the All India Institute of Technical Education.

Employment Opportunities

Our graduates, numbering over 30-35 per year are accepted with full fellowships in leading universities including MIT, Minnesota, UCB, Caltech, Wisconsin-Madison, Princeton, Stanford, Texas A and M, University of Texas, University of Delaware, Purdue University, and many more. All students are placed in some of the leading industries in India, with salaries ranging from Rs. 3.5 lakhs to Rs. 15.5 lakhs per annum and these are hard core industries and not the software companies. Several leading industrialists and owners of fortune-500 company owners are our graduates, including top planners and policy makers, who have been bestowed with Padma awards.

Research Interests of Faculty

The Chemical Engineering faculty has been well known for their publications in peer reviewed high impact factor journals, patents and industrial consultations in a variety of research interests. Major Thrust of Research Areas : Development of Novel Reactors, Reactions and Separation Processes Analysis of Multiphase Phenomena, Computational Fluid Dynamics for Multiphase Systems, Novel Catalytic Materials and Processes, Surfactant Science and Hydrotrophy, Organic Chemical Processes Development, Biotechnology and Downstream Processing, Adsorptive and Chromatographic Separations, Green Chemistry, Engineering and Technology, Cavitation Phenomena, Sonochemistry, Membrane Based Separation Processes, Bio-Technology and Bio-medicines, Environmental Protection and Safety, Nanoscience and Nano-Technology, Nano Technology, Materials Technology

In the global context, the priority research areas as identified by the Chemical Engineering Department are:

Multiphase reactions, multiphase reactors and separation processes

Energy engineering with an emphasis on the renewable energy resource

Laboratory and Research Facilities

All Chemical Engineering laboratories and faculty offices have been remodeled during past 5 years. The labs are equipped with state-of-the-art instruments and have gone a total face-lift. UG students are provided computational facility in the main laboratory, including latest software required for modeling and simulation. Some of the sophisticated equipment which have been

acquired and used continuously are: GC-MS, LC-MS, SEM, TEM, AFM, IC, FTIR, HP-TLC, HPLC, GC, XRD, DSC, DTA/TGA, AAS, Laser-Doppler anemometer, image analysers, pore and particle size analysers, autoclaves of different sizes and MOCs, catalyst screening bench-top autoclave assembly, supercritical fluid phase monitor and reactor, microwave reactors, computer workstations, laminar flow apparatus, fermenters, and many others. Advanced instrumental facilities have been created under industry sponsored projects as well. The new campuses will also be provided with sophisticated instrumental facilities including Ph.D. fellowships.

Fellowships

Twenty Ph.D. fellowships under ICT-DAE Centre for Chemical Engineering Education and Research. Several projects are secured by the faculty in the areas of expertise from central agencies such as DST, DBT, CSIR, including Indian and foreign companies; this number varies from year to year. Interested candidates must appear for the entrance examination for a Ph.D. degree, whether funded government or industry. For GATE qualified students fellowships are offered at the UGC rate and others as per the provision of the funding. No student is admitted to any Ph.D. programme.

Apart from Master of Chemical Engineering programme, the department also participates in two interdisciplinary M.Tech. courses - Perfume and Flavour Technology, Green Technology and Bioprocess Technology. At least 19 Masters fellowships offered for GATE qualified students in the first round and typically this number is around 30+ when the admissions are closed. Besides, about 10-15 M. Tech. students in Bioprocess Technology (with a special reference to downstream processing), Food Biotechnology, Pharmaceutical Biotechnology, Perfumery and Flavour Technology work under the guidance of Chemical Engineering faculty.

Interdisciplinary and Cross Disciplinary Programmes

Several faculty members guide Ph.D. students in all disciplines of Chemistry and Biotechnology, as well as in all branches of Chemical Technology on inter-disciplinary topics and several chemistry graduates have benefitted by their training in the Department of Chemical Engineering.

Visiting Faculty Endowments

There are several endowments created to invite the best of professionals and academics to the ICT. Some eminent faculty from institutes such as MIT, Purdue, Cambridge, Monash University, University of California, Berkeley, University of California, Santa Barbara, National University of Singapore, Montreal, University of Michigan, Michigan State University, University of Alberta,



RMIT Australia, IIT-Chicago, Cambridge University, University of Manchester, IIT-Bombay, IIT-Kanpur, IIT-Madras, National Chemical Laboratory, have taught UG and PG courses in ICT under these endowments.

These lectures form part of audit courses for research students. Besides, public lectures are organized under each endowment.

HOMI SETHNA ICT-DAE CENTRE FOR CHEMICAL ENGINEERING EDUCATION AND RESEARCH

Preamble:

The Institute of Chemical Technology (ICT) and the Department of Atomic Energy (DAE) signed a Memorandum of Agreement (MOA) in 2006 having far reaching benefits for Indian S and T, which was based on the excellent relation between these two organizations and successful completion of projects by ICT faculty of Chemical Engineering. The MOU covers the following activities.

- (A) Instituting an interdisciplinary Ph.D. programme in Chemical Engineering.
- (B) Undertaking RandD projects in the areas of common interests and related to nuclear fuel cycle and advanced technologies.

DAE Research Institutions, namely, Bhabha Atomic Research Centre (BARC) and Indira Gandhi Centre of Atomic Research (IGCAR) are premier multidisciplinary RandD organizations engaged in research with the objective of generating knowledge and techniques for nuclear power production, advancement of science, use of radioisotopes in industry, health and agriculture as well as research in frontier areas of science and technology. BARC and IGCAR have multi-disciplinary groups of experts who have contributed to the development of processes and technologies related to thermal and fast nuclear reactors, fuel cycle and related areas. BARC and IGCAR have pursued research and development in chemical engineering in a rigorous way for many years in the areas defined by DAE's mission oriented programmes as well as projects of national interest. BARC and IGCAR support academic programmes within the DAE and also in the academic institutions and research centres in various parts of the country.

ICT is one of the foremost academic institutions in India, and has the necessary infrastructure in terms of trained manpower (including students) and a long tradition of research and development in Chemical Engineering and Chemical Technology. ICT has also had long and fruitful experience of working with BARC and other units of DAE on research projects related to Chemical Engineering and process technologies and have completed them meeting the high standards expected by DAE. On the national level, ICT is a major resource Institution in terms of technology development and fundamental research at the cutting age on the global scale. They have also entered into an MoU with Homi Bhabha National Institute (HBNI) for collaborating on academic programs especially suited to the requirements of DAE institutions.

In the Xth and XIth Five Year Plan, BARC and ICT had undertaken a joint research programme encompassing several DAE research projects in the Chemical Engineering field. Through the Virtual Centre, called, DAE-ICT Centre for Knowledge Based Engineering, BARC scientists and ICT faculty have collaborated and very successfully completed several projects. In view of the success of the collaborative programme through the Centre for Knowledge Based Engineering, BARC and IGCAR proposed to enlarge the scope of collaboration by establishing the DAE-ICT Centre for Chemical Engineering Education and Research that will synergise the strengths of both these organisations. On the one hand, ICT has proven track record in training high quality manpower and in conducting research in Chemical Engineering and technology, on the other hand BARC and IGCAR have demonstrated over decades their ability to conduct multi-disciplinary, mission oriented RandD leading to a large number of indigenous and innovative chemical engineering processes, equipment and instruments, and technologies.

DAE has to develop several innovative technologies to tackle the problems of efficient nuclear fuel utilisation in the second and third stages of nuclear power programme. This requires a pool of qualified, motivated and talented young research scientists with multidisciplinary expertise. The number of Ph.D. level chemical engineers is small in this country and the number of chemical engineers entering DAE is even less. Thus, the number of Ph.D. scholars working on energy related programmes needs to be increased. Further, these scientists need to have wider knowledge of both basic sciences and allied engineering subjects besides chemical engineering, which is essential for the development of innovative technologies. However, the present education system imparts expertise only in selected areas. To satisfy the need of greater number of Ph.D. scholars well versed in basic sciences and chemical engineering, DAE and ICT wish to take an initiative for imparting doctoral education in chemical engineering with multidisciplinary character.

Scope of Collaboration

1. To provide doctoral degrees to promising candidates with talent and aptitude for carrying out advanced research and development activities in science and technology.
2. To furnish a multidisciplinary, flexible and innovative Ph.D. research programme in Chemical Engineering with special emphasis on :
 - (a) Acquisition of proficiency in research, knowledge, data generation and analysis, mathematical modeling, and management with sharpening skills in innovative experimental methods and problem-solving capabilities;
 - (b) Creation of a pool of young talented, dedicated and committed individuals with passion and involvement in pursuing research and development as a career;
 - (c) Inculcation of attitude, temper, and outlook for developing social commitment as well as high level of scientific ethics and integrity.
3. To evolve a symbiotic relationship between the ICT and DAE Institutions in such a way that it enables the Collaborative Programme to grow and develop, and in turn ensures that research projects of relevance to the objectives of DAE research institutions are integrated with creative and innovative content.
4. To select students on the basis of an all-India test and subsequent interview jointly conducted by ICT and BARC/IGCAR.
5. To promote effective linkages on a continuing basis between ICT, BARC and IGCAR and the Industry for joint research projects and training programmes and other academic activities related to these Institutes. The expertise and experience so gained shall be shared with other Universities in the country at large.
6. To disseminate the new knowledge in the form of publications, theses, seminars and conferences.

Ph. D. Programme in Chemical Engineering

Induction of Students

It is proposed to introduce a Ph.D. programme with an initial intake of about 20 students per year, drawn from Chemical Engineering, Metallurgical and Mechanical Engineering disciplines at the Bachelors and Masters Levels, and also from Chemistry, Physics and Mathematics streams with Masters degree. The Masters Degree holders in Engineering will have to spend a minimum duration of 3 years, the Bachelors degree holder in Engineering 4 years and M.Sc. degree holder in science stream 5 years for earning the Ph.D. degree. The students will be selected on the basis of all India written test and interview conducted jointly by ICT and DAE.

Course Work, In-Plant Training and Research

a) Course Work

The proposed curriculum will have a fine balance of basic and engineering sciences. The curriculum will contain adequate fundamental and core courses to equip the students adequately to make them practising chemical engineers, as enumerated below. At the same time, they will have a background for starting independent research career.

Areas of teaching and research

- (a) Chemical Engineering (c) Bio-technology
(b) Process Technology (d) Materials Science and Technology

Typical List of courses to be taken by the Post Graduates in Science

- (a) Material and Energy Balance Computations
- (b) Industrial and Engineering Chemistry
- (c) Generation and Transmission of Power
- (d) Electrical Engineering and Electronics
- (e) Applied Mechanics and Strength of Materials.
- (f) Momentum Transfer
- (g) Heat Transfer
- (h) Mass transfer
- (i) Unit Operations
- (j) Chemical Reaction Engineering
- (k) Engineering Graphics
- (l) Project Engineering Management and Economics
- (m) Biochemical Engineering
- (n) Advanced Separation Processes
- (o) Process simulations
- (p) Materials Processing and fabrication technology
- (q) Nuclear Reactor Theory
- (r) Nuclear Chemical Engineering
- (s) Statistical Methods of Analysis
- (t) Instrumental methods of analysis
- (u) Nuclear chemistry
- (v) Radiation chemistry
- (w) Chemical Engineering Thermodynamics
- (x) Process Hazard Analysis and Safety

Typical List of courses to be taken by the Engineering Graduates/ Post Graduates

- (a) Quantum Mechanics
- (b) Structure - Property Relationships
- (c) Materials Physics and Chemistry
- (d) Advanced Chemical Engineering Thermodynamics
- (e) Nuclear Reactor Theory
- (f) Nuclear Chemical Engineering
- (g) Process simulation and optimization
- (h) Transport phenomena
- (i) Advanced Reactor Engineering
- (j) Advanced Mass Transfer

- (k) Statistical methods of analysis
- (m) Nuclear chemistry
- (n) Radiation chemistry
- (o) Process Hazard Analysis and Safety

In-Plant Training

All the students before starting Ph.D. research will undergo in plant training for a period of one to three months in the process industry. Some students will undergo training in DAE.

Research Projects

The Ph.D. scholars will take up research projects primarily defined by BARC and IGCAR. However, there will be a certain degree of flexibility for selecting research projects outside the areas of relevance to DAE. To take advantage of the excellent laboratory and library facilities at the DAE institutions, the faculty and students will be provided access to conduct experiments and use of the library and computational facilities at the DAE institutions.

COLLABORATION WITH HOMI BHABHA NATIONAL INSTITUTE

Preamble

There was a dire need to recognize the common interests of ICT and HBNI constituent institutions (CIs) in pursuit of knowledge through doctoral and master's programmes. There is a possibility of the candidates admitted in some of the CIs of HBNI may study at the ICT and carry out the projects under the joint supervision of the faculty members from the ICT and the scientists and faculty members from the CIs of HBNI. It will be mutually beneficial to have lectures by the ICT faculty members at the HBNI, and by the HBNI faculty members and scientists at the CIs of HBNI at the ICT. For the purpose of academic programmes, the following units of DAE are the Constituent Institutions (CIs) of the HBNI are included:

1. Bhabha Atomic Research Centre (BARC), Mumbai
2. Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam
3. Raja Ramanna Centre for Advanced Technology (RRCAT), Indore
4. Variable Energy Cyclotron Centre (VECC), Kolkata
5. Saha Institute of Nuclear Physics (SINP), Kolkata
6. Institute of Plasma Research (IPR), Gandhinagar
7. Institute of Physics (IOP), Bhubaneswar
8. Harish-Chandra Research Institute (HRI), Allahabad
9. Tata Memorial Centre (TMC), Mumbai
10. Institute of Mathematical Sciences (IMSc), Chennai

The two Institutes shall recognize each other's research guides in the disciplines of common interests. The identified faculty members of each Institute may function as Honorary Professors of the other Institute and may participate in the teaching programmes of the other Institute in honorary capacity, as per the Rules of the respective institute. The Honorary professors will enjoy the library facilities of each other's institutes like regular faculty. However, a separate request must be made to avail of book-borrowing facilities. In order to share expertise, some seats may be given on priority basis to the faculty and students of the other Institute in the academic/research programmes of one Institute, which are mainly for the in-house persons and where limited access is available for persons coming from outside, such as training programmes, seminars, workshops, etc. The research facilities at one Institute should be made available to the students/scientists/faculty of the other Institute through the involvement of research supervisors or the technology advisors, as per the norms of the respective institute, as follows:

1. A student registered for a post-graduate course in one Institute shall be governed by the Rules of that Institute and will earn the credits of the course as per the prescribed norms. However, a student from one Institute will be permitted to enroll for equivalent courses in the other Institute and earn the credits by attending the courses and clearing the respective evaluation procedures, provided such courses are duly approved by the parent Institute. Thus, the two Institutes shall recognize the credits earned by the students in the institute other than the one where they are enrolled.
2. To facilitate the process of a student attending the course work in the partner Institute, the supervisor of the student in the Parent Institute shall put up a proposal (in consultation with the appropriate academic bodies of the Institute concerned) to the Dean (HBNI)/ Dean(ICT), as the case may be.
3. A research guide in one Institute may select a faculty member from a partner institute as a co-guide for guiding a Master's or doctoral student working under his/her guidance; provided such a declaration is recorded at the time of registering the student, with consents from the Heads of both the Institutes. However, collaboration among faculty of each institute, without any such formal arrangement will be within the frame-work on the MOU. This may be required for joint publications.
4. A student with a co-guide should be permitted to work in the specified laboratories of the organization to which the co-guide belongs and avail the facilities there from, and the organization should have no objection to the inclusion of the outcome of the research under this programme in the thesis of the student.
5. Any liability arising out of the work done by a student in the co-guide's organization shall be the responsibility of the co-guide and the parent Institute of the student shall not be responsible for the same.
6. Any patent emerging out of the research work under such a programme shall be with the authorship of candidate, guide, co-guide, and the parent Institute and shall be filed as per the respective ordinances, regulations and rules of the Institute.
7. In case the co-guide leaves his organization, or retires the guide may accept a co-guide from the same organization, provided the new co-guide is recognized. In case such a co-guide is not available, the entire responsibility of successful completion of the programme shall lie with the guide. If the retired person remains with the institute or with other institute of HBNI, as an emeritus scientist, he/she will be permitted to continue as co-guide till the period of his/her new assignment.
8. In addition to the recognized research supervisor, a student may be advised by a Technology Advisor, who need not be recognized Ph.D. Guide, from the other Institute. The Technology Advisor shall be a person of high repute in the area of research being pursued by the student. The Technology Advisor shall be chosen by a research guide, with consent of the Director, ICT and Director of the respective constituent Institution of the HBNI.

DEPARTMENT OF ATOMIC ENERGY (DAE) -DGFS PROGRAMME FOR M.Tech DEGREE

Institute of Chemical Technology (ICT) is one of the Institutes recognized by the Department of Atomic Energy for its DGFS programme. It is a Two-Year DAE Graduate Fellowship scheme for Engineering Graduates and Post-Graduates in Physics for joining M. Tech. in specified specializations

Qualifying Degrees and Disciplines:

B.E/ B. Tech. in Mechanical, Chemical, Metallurgical, Civil, Electrical, Electronics, Computers, Instrumentation and Engineering Physics.

OR

M. Sc. in Physics, Chemistry, Biosciences, Geology, and Geophysics.

A minimum of 60% (aggregate) of a CGPA of 7.01 in the qualifying degree is an essential requirement. Science candidates are further required to have secured a minimum of 60% (aggregate) in B.Sc. also. Screening and Selection of candidates is through a written test or on the basis of valid GATE score. Applications for the programme are to be submitted to DAE as per advertisement in National newspaper and Employment News. (for details visit website: <http://oces.hbni.ac.in>)

Qualification Criteria for Admission and Registration for Ph.D. (Tech.) in Chemical Engineering and the Course Requirements

Category	Basic Qualification for Admission	Course requirement
1	B. E. in Chemical Engineering /B. Tech. in Chemical Engineering / B. Chem., Eng. / B. Tech. in Chemical Technology (ICT) in first class or equivalent	Course work for M. Chem. Engg. (credit courses) (to be completed in 2 semesters from the date of admission) and courses related to nuclear Engineering (to be completed in 3 semesters from the date of admission) Nuclear and Reactor Physics Nuclear Chemical Engineering Chemistry of Radionuclides Material Science in Nuclear Engineering
2	Bachelors degree in Chemical Engineering or Chemical Technology in first class or equivalent + Course work in BARC training school	5 courses including one seminar in Chemical Engineering to be decided by the supervisor and approved by the coordinator followed by PGPC. (to be completed in 2 semesters from the date of admission)
3	Bachelors degree in Mechanical / Metallurgical Engineering (except Chemical Engineering / Technology) I first class or equivalent + Course work in BARC training school	10 courses and one Seminar in Chemical Engineering to be decided by the supervisor and approved by the coordinator followed by PGPC. (to be completed in 4 semesters from the date of admission)
4	Masters degree in Chemical Engineering / Masters degree in Chemical Technology (ICT) in first class or equivalent	courses related to nuclear Engineering (to be completed in 2 semesters from the date of admission) Nuclear and Reactor Physics Nuclear Chemical Engineering Chemistry of Radionuclides Material Science in Nuclear Engineering
5	M. Tech. Degree in Chemical Engineering from HBNI + Course Work in BARC training school	Minimum number as required by UGC guidelines.
6	M. Tech. Degree in any branch of Engineering (except Chemical Engineering / Chemical Technology) from HBNI + Course Work in BARC training school	4 - 5 courses and one seminar in Chemical Engineering to be decided by the supervisor and approved by the coordinator followed by PGPC. (to be completed in 2 semesters from the date of admission)
7	M. Sc. Degree in Physics / Chemistry /Mathematics in first class or equivalent + Course work in BARC training school	8 - 10 courses and one seminar in Chemical Engineering to be decided by the supervisor and approved by the coordinator followed by PGPC.(to be completed in 4 semesters from the date of admission)

8	M.Sc. Degree in Physics / Chemistry / Mathematics in first class	14 Credit courses and one seminar in Chemical Eng. courses (to be completed in 4 semesters from the date of admission) courses are listed below in category 3.3
9	M. Sc. Degree in Physics / Chemistry / Mathematics in first class (Rank in top 3 in University)	(i) Typically 20 courses comprising of: (to be completed in 4 years from the date of admission) B. Chem. Eng. Level courses (Credit courses) Applied Mathematics - I, II and III M. E. B. C. Momentum and Mass transfer
		Energy Engineering Chemical Engineering Operations Heat Transfer Chemical Reaction Engineering Design and Analysis of Experiments M. Chem. Eng. Level Courses (Credit courses) Advanced Momentum transfer Advanced Heat Transfer Advanced Mass Transfer Advanced Reaction Engineering Thermodynamics of Phase Equilibrium Advanced Separation Processes Advanced Reactor Engineering Nuclear Engineering Level courses (courses) Nuclear and Reactor Physics Nuclear Chemical Engineering Chemistry of Radionuclides Material Science in Nuclear Engineering

UGC NETWORKING RESOURCE CENTRE IN CHEMICAL ENGINEERING

Preamble

The spectacular and consistent performance of the Department of Chemical Engineering, having been rated as number one for past several decades, including 2009-10, which has been revealed by the international surveys, has earned it much recognition, accolades and awards. Apart from the Centre of Advanced Studies, the UGC has recognized it further by awarding the first ever Networking Resource Centre in Chemical Engineering, in October 2008, to undertake following activities:

1. Research, training and skills development of the faculty and research scholars through periodic discussion, workshop and summer/winter schools
2. Capacity building by adopting faculty and Departments for augmenting their research skills and to mentor them
3. Hosting and facilitating researcher from other institutes/universities to carry out key experiments
4. Augmentation of information resource facility of the Department to provide quality research information to other institutes/researchers
5. To enhance and build state of the art in-house research infrastructure and other research facilities in the Department.

The rapidly changing face of research in chemical engineering offers new opportunities for integrating new research areas within its fold and several workshops, courses, demonstration experiments, regular experiments and seminars have been organized by the Centre. The objective of many of these activities is to acquaint the Chemical Engineering community especially from academic institutions with the emerging face of our discipline, and the how to meet the new challenges that it poses to contribute at the leading edge. The idea is also to train the academic fraternity so that overall research and development in chemical engineering is promoted. The interactive workshops also aim at initiating a dialogue on how the new face of Chemical Engineering can be used to address problems, specific to us as a growing nation. The vacation periods, long weekends and week-long programmes are undertaken which are publicized on the homepage of the institute and also communicated to all chemical engineering Departments. Not only the ICT faculty but experts from other institutes, industries, and visiting professors from foreign universities have delivered lectures and interacted with young faculty.

Rules and Guidelines for Registration of Teachers from UGC and/ Or AICTE Approved Colleges for Ph. D.

Under this programme the Centre is required to generate human resource and keep on organizing seminars, workshops, and laboratory sessions for the benefit of teachers and students. One of the primary requirements is to create qualified doctoral degree holding teachers who in turn will generate quality students. Following are the salient points of this programme proposed by the Centre.

1. Teachers who have been in the services of any Engineering and Technology Colleges approved by the UGC/AICTE are entitled for registration for Ph D with Chemical Engineering faculty of the ICT.
2. A minimum service of two years and permanent placement in the concerned college will be the basic criterion.
3. The teacher must have a consistently good academic record with minimum first class in bachelors and/or masters degree from a reputed university.
4. The college management should undertake the responsibility of releasing the person for experimental work or discussions with the concerned research guide from time to time. A proper time table should be prepared by the concerned teacher and his supervisor, which will be approved by the Co-ordinator of the Centre. A bond in this regard should be signed and approved by the Director, ICT.
5. Teachers can work in the ICT labs during vacations and holidays and after their office hours if they come from colleges in the city or nearby. They must indicate on which date they will avail of the research facilities in ICT. A proper log book must be maintained by the candidate duly signed by his supervisor which will be authenticated by the Co-ordinator of the Centre.
6. A maximum period of 5 years extendable by 1 year will be allowed in case of teachers who are part time but put in at least 3 months full time work in a year in the labs. In such cases, part of the experimental work could be allowed to be done in their premises for which their management will provide them with necessary facilities. The characterization and other sophisticated analysis must be done in ICT. Exclusive theoretical work should be discouraged as much as possible to give the teacher a hands-on experience and bringing them into an environment of research. However, this will be left to the individual supervisor's discretion, who should take abundant precaution to avoid unethical practices.
7. The registered candidates will be required to publish or patent some part of their work within two years of the registration otherwise this registration will not be continued. The publication must be done in international journals with decent impact factors. Multi-authored papers without much input from the teacher should be avoided. Conference proceedings which are not peer reviewed will not be considered as publications.

8. The registered teachers as Ph D students should not register any Masters students with themselves in his/her own college to avoid research by proxy. The candidate as well as his/her supervisor must give an undertaking, with a counter signature of the concerned principal to this effect to avoid degeneration of this novel concept into a Ph D by unscrupulous means.
9. If the teacher intends to join the ICT on leave without pay for a period of three years, then the candidate could be eligible for the UGC fellowship under our SAP programme.
10. Teachers with Masters Degree will be allowed to undertake benefit of this scheme. Those who have got Bachelor's Degree ought to take leave from their colleges in order that they complete the theory part of the Masters Programme for direct Ph.D.
11. All regular admissions criteria are applicable to these candidates and they must also do the course work required for Ph.D. programme.

CENTRE OF EXCELLENCE FOR PROCESS INTENSIFICATION (CoE-PI)

The Centre for Process Intensification for Process Industries (CoE-PI) under TEQIP in the Institute of Chemical Technology (ICT), Mumbai, aims to be a world leader in the field of conceptual process design, Process Integration and Process engineering. The methodologies will allow environmentally friendly process design with the most efficient use of raw materials and energy with affordable cost. The Centre shall be dedicated to the development of design methodologies in the field of process intensification and process integration. The Centre aims to change process design practice, by developing and disseminating new process design and integration methods for clean and efficient use of raw materials and energy at lower cost. The process intensification and integration will be based on interactions between elements of the chemical and physical processes that take into account during the process design the material and energy flows. The resulting integrated processes exploit synergies between the system components, leading to processes with superior performances, in terms of their raw materials consumption, energy demand, process economics, environmental impact and sustainability. The centre has identified 13 research projects which have great relevance with present industrial practice.

DEPARTMENT OF CHEMISTRY

VISION:

To be a nationally recognized chemistry resource centre, making noteworthy academic contribution and undertaking contemporary and relevant research.

MISSION:

- To induct and retain competent and committed personnel
- To produce quality publication and proficient man power
- To collaborate with Industry and academic centres of excellence
- To undertake sponsored projects of national and social relevance
- To participate in state and national level educational programmes
- To conduct relevant and contemporary M.Sc. and Ph.D programmes

PROFILE:

Department of Chemistry was established in 1951 to cater the responsibility of teaching basic chemistry. The department shoulders the responsibility of conducting chemistry courses, theory as well as practical for undergraduate programmes of all the three branches, viz., B.Chem.engg., B. Tech. and B. Pharm. The Department also offers admission to Ph.D. (Science) Chemistry, Ph.D. (Science) Biotechnology, Ph.D.(Tech.) chemical engineering programme and the intake

of students varies based on the vacancies with the faculty members. Department has started M.Sc. (Chemistry) two years course by papers with an intake capacity of 20 from Academic Year 2010-2011. The programme is accredited by the Royal Society of Chemistry, UK in 2014.

The Department is active in teaching, research and industrial collaborative work. Considering the contributions the department has been recognised by the university Grant Commission, under special Assistance Programme (SAP), Departmental Research Support (DRS-II) and DST-FIST Programme . Through this programme the Department has 10 Ph.D. fellowships to offer. The faculty members are actively engaged in research areas of current relevance. The research work carried out in the department is funded by the research projects sponsored by funding agencies like UGC, CSIR, DAE, IGCAR and DST Some of the faculty members are carrying out research in collaboration with reputed organisation from both India and abroad. In the last five years the department has published more than 200 research publications in international journals of repute with an average impact factor of more than two. The work is also recognised well in term of large number of citations (more than 5000) The faculty member is actively involved in several extra-mural academic activities, like the Indian National Chemistry Olympiad, National Initiative for Undergraduate Sciences (NIUS). Currently the department has 45 Ph.D. and 37 M.Sc. Students. The Students who have obtained doctoral degrees from the Department get attractive placements in industries and research institution. The research students of the department assist the faculty in conducting undergraduate courses. This helps them in their personal development.

The Department is equipped with sophisticated instruments such as FTIR, UV-VIS, Spectrophotometer, GC-MS, gas chromatographs, HPLC, Zetameter, Viscometer, Microwave synthesizer, Digital polarimeter, computer workstation , Electrochemical Workstation, Vapour pressure reactor , supercritical carbon dioxide reactor, surface area analyser, high pressure reactors, Tensiometer, X-Ray diffraction unit The Department has several endowments through which, experts from various leading research institutes working in frontier areas in Science and Technology are invited for lectures and interaction.

DEPARTMENT OF GENERAL ENGINEERING

VISION :

To contribute to India through excellence in technical education and research, to serve as a valuable resource for industry and society.

MISSION :

To impart basic knowledge of General Engineering subjects to students to enable them for better understanding of practical applications to various industrial problems.

To undertake collaborative projects which offer opportunities for long term interaction with academia and industry.

To provide an excellent educational experience for its students . This experience includes an emphasis on the technical communication, teamwork and life-long learning skills in which graduate engineers held to excel at the workplace and in society.

General Engineering Department of the Institute was established in the year 1954 and is involved in teaching undergraduate as well as postgraduate students of the institute. The Department is running a full time master's program M. E. in Plastics Engineering from 1972, the course is accredited by National Board of Accreditation. Students having basic qualification in Mechanical, Production, Plastic/ polymer, Electrical and chemical engineering and technology are eligible for admission to this course. The course deals with Processing of plastics, composites, Design of Molds, Design of processing tools/ machinery, CAD, CAM and CAE and testing, Polymer applications in various fields of engineering, Development of new materials for industrial as well as domestic applications. Apart from laboratories such as workshop, electrical and electronics, applied mechanics and strength of materials, the Department has provision for special facilities of processing of plastic and polymer composites, testing of plastics, and computer aided design

and drawing laboratories. These laboratories cater to the needs of the under graduate and post graduate students of the Department and institute. The Department has plastic processing equipment such as micro-processor controlled injection molding machine with molds of standard mechanical test pieces, blow molding machine, rotational molding machine, and single screw extruders as well as twin screw extruder. Department is having licensed CAD and CAE software such as Mold flow, Pro-engineer and Solid Works with high end computer facilities. The department is having a facility of Plastic Testing such as impact tester, MFI tester, hardness tester etc. GATE qualified candidates of M.E.in Plastics Engineering receive AICTE fellowships. Candidates can register for Ph. D. in Plastics/ Mechanical/ Production/ Electrical/ Civil/ Engineering either full time or as the external candidates (Only for teachers/ employees from Government organizations). In recent years the enrollment for Ph D in the department is increasing. Presently number of PhD students enrolled in the department in various branches are: 29 in Mechanical Engineering, 06 in Civil Engineering, 03 in Plastic Engineering, 11 in Electrical Engineering and 04 in Electronics Engineering etc. Also 02 students had received National Doctoral Fellowship. Department is also having industry sponsored Ph D student from BASF and Master's student from TVS motors. Recently the department faculty has been awarded one **national patent on Water Resistant Phosphogypsum Composition**. Department is also involved in execution of Research project funded by DST and Rajiv Gandhi Science and Technology Commission of Govt of Maharashtra.

Department is having specialized teaching faculty from mechanical, plastics, production, civil, electrical and electronics branches. Most of the faculty are guides for the masters and doctoral programs of the institute. Besides teaching and research, departmental faculty members are holding associate dean position and member of various inhouse committees to help the management of the institute. Students can take up research in multidisciplinary areas.

Department is also responsible for Civil and Electrical maintenance of infrastructure such as institute buildings, laboratories, faculty quarters and hostels. Department is actively involved in the development of the new buildings and infrastructural facilities in the campus. Department looks after Liaisoning with BEST and Municipal Corporation for all the requirements of the institute upto some extent.

DEPARTMENT OF MATHEMATICS

VISION:

The Department of Mathematics, Institute of Chemical Technology, Mumbai, aims to be an internationally leading mathematics department that will offer innovative educational and research programmes in mathematical sciences and their applications in science and technology

MISSION:

In pursuit of its vision, the department wish to (i) offer courses and programs that will ensure that the student get practical knowledge in mathematics which will be relevant to the society (ii) provide a modern educational environment for instruction and research (iii) create an environment for learner to engage in solving real-world problems (iv) contribute to the understanding of complex mathematical structures and their applications.

RESEARCH AREAS:

The Department of Mathematics has research expertise mainly in the areas of Computational Fluid Dynamics and Mathematical Modeling, Momentum, Heat and Mass Transfer in Newtonian Non-Newtonian Fluids, Singular Perturbation Theory, Optimization Techniques, Statistical Analysis, Data Analysis, Mathematical Biology, Species Distribution Modeling, Applied Functional Analysis, Differential Equations, and Mathematical Pedagogy.

ABOUT THE DEPARTMENT:

The Department of Mathematics, ICT Mumbai was established in the year 1944. Since its inception it caters to all the courses related to mathematics, statistics and computer programming

of UG and PG programmes in ICT. The department offers a 2 year M.Sc. programme in “Engineering Mathematics”. This programme was started in the academic year 2012-2013 under the UGC INNOVATIVE SCHEMES and is very unique in its nature. The department also has Ph.D. programme in Mathematics covering diverse area of research. The community of the department consists of six faculty members, with broad areas of expertise related to mathematics and statistics, and two support staffs. The department has modern and high level computational facilities, consisting of 50 All-In-One Computers, Two Servers, one workstation and a High Performance Computing (HPC) cluster. All computers are installed with software such as MATLAB, Mathematica, SPSS, R Python and Sagemath etc. The department has strong research collaborations with other renowned academic institutions and industries. Students are also provided with industrial internship and placements opportunity. The faculty members of the department are member of Board of Studies of several institutes. The department regularly arranges workshops, conferences and seminars for students and teachers of other colleges. Faculties are also engaged in various training programmes in mathematics and statistics across the country.

DEPARTMENT OF PHYSICS

VISION :

To evolve ourselves to understand and know the basics of science and to utilise it to develop newer technologies for the benefit of society and aptly be a part of this Esteemed Institution and to strive to infuse momentum to the Department so that this Department becomes one of the best learning centres of basic sciences and strive to make significant contributions to academia as well as to industry.

MISSION :

Innovatively follow newer ways of teaching and upgrade curricula to infuse enthusiasm of knowing in students.

Work in diverse fields and multidisciplinary themes so that learning and knowledge is gained by faculty to move further to fulfil the vision.

Strive to get funds to upgrade and maintain present research facilities.

To create POLYMER and NANO SCIENCE CENTRES.

Department of Physics at the ICT has the distinction of being one of the earliest Departments in the Institute. It was started as Optics Section in 1935 which was subsequently changed as Physics Section in the Second Five Year Plan and then to Department of Physics under MUICT. Department of Physics undertakes undergraduate and post graduate teaching in Physics. The Department participates in 1st year B. Tech. and B. Chem. UG teaching - theory and practical's. The Department offers electives at 2nd year B. Tech. and B.Chem. The faculty of the Department undertakes a full course of Physical Methods of Analysis for all branches of M. Tech. students in both the semesters which also serves as a credit course for majority of Ph.D. students. The Department has started M.Sc (Physics) (Material Science) course from year 2014 with emphasis on the Material Science with maximum strength as 20.

The Department is one of the participating Departments of Centre of Advanced Studies in Physio-Chemical Aspects in Textiles, Fibres, Dyes. The Department has made significant contributions in the field of Material Science (Study of Polymer/Polymer composites and nano-composites and their various properties), Solar Thermal Applications, Nano-aided Drug Delivery. The research in Colour assessment of dyed textiles and colour perception is also carried out in this Department. Currently 20 doctoral students are working on various topics. Faculty members have actively participated and attended national and international seminars / workshops and presented their papers. A good number of papers are published in peer reviewed journals. Faculty members have research projects from industry and various government funding agencies. Two patents on solar thermal system are also filed recently.

THRUST AREAS OF RESEARCH:

The faculty of the department undertakes research in many aspects of materials sciences:

- Polymer Morphology/Orientation, Polymer composites / nanocomposites.
- Nano-drug delivery.
- Polymer dispersed Liquid crystals, Plasma processing of Materials.
- Statistical Mechanics applied to Chemical Engineering Thermodynamics.
- Synthesis and functionalization of CNTs, Energy storage, Super-capacitors.
- Magnetism, transport properties of quantum magnets and Low-temperature Physics.
- Computational Physics, Phase Transitions in Polymers and Gels.
- Solar Thermal applications, Solar Energy Harvesting.

NAME OF THE PROGRAMMES OFFERED:**M.Sc. Physics (Material Science)**

Ph. D. in Physics (thrust area being Polymer/Polymer Composites and nanocomposites, Solar thermal, Coloured assessment of dyed fabric and study of geometric attributes of Colour, Nanoparticle synthesis, Theoretical aspects of Chemical Engineering, Probing Magnetic properties of materials, Carbon nanotubes, Graphene, Fuel cell electrocatalyst, Energy storage and Electrochemical sensors)

Admission Criteria for the programmes offered

For M.Sc. Physics: Eligibility: B.Sc. in Physics with minimum 55% or Selection based on Entrance exam. For Ph.D. Physics: Eligibility: M.Sc. in Physics with minimum 55% or Selection based on Entrance exam.

Courses handled:

First and Second Year B. Chem. Engg. and B. Tech. – Applied Physics I and II, Statistical Mechanics and Colour Physics

Courses for M. Tech. and M.Sc. (Textile Chemistry)

DEPARTMENT OF DYESTUFF TECHNOLOGY**VISION :**

To build world class programmes of excellence in education and research in the specialized area of Dyestuff Chemistry and Technology for the benefit of society through problem solving competencies

MISSION :

The department aspires to be one of the world's top color chemistry departments by 2020. It will do so by-

Providing knowledge and skilled based training at undergraduate and postgraduate level by designing, teaching, and periodically upgrading a color chemistry and technology syllabus in line with current anticipated trends in industry and academia

Pursuing world class research in colorants and related areas-basic textile and leather coloration, functional colorants, organic process technology and specialty chemicals

Proactively developing and maintaining close interaction with national and international research laboratories, universities and chemical industries

ABOUT

Dyestuff technology department started functioning in 1944 under the stewardship of Prof. K. Venkataraman, the then director of Institute of Chemical Technology (ICT, formerly known as

UDCT), University of Mumbai and is an outstanding department, an epitome of skill, talent, hard-work and success. Highly experienced scientists and scholars such as Prof. B.D. Tilak, Prof. S. V. Sunthakar, Prof. S. Seshadri, and Prof. D.W. Rangnekar have enriched this department and led to its progress. More than 1000 undergraduate students and over 450 postgraduate students have passed out from this technology department.

RESEARCH FOCUS

Late Prof. K. Venkataraman's pioneering work on synthetic dyestuff chemistry, natural colorants, structural elucidation, spectral studies and his books on "The Chemistry of Synthetic Dyes" are still popular and treated as Bible for Dyestuff Chemists and Technologists around the world and was translated in more than 14 languages.

The outstanding research work carried out in the department has created permanent global impact on dyestuffs and allied industries especially the Indian Dyestuff Industry. Publications of popular informative volumes, over 1000 publications of national and International repute, have led the progress of the department.

Presently the department is more focused on functional colorants, colorants for non textile applications and high performance pigments. These include the synthesis of laser colorants, colorants for optical information storage devices, colorants for ink-jet printing, colorants for biology, colorants for solar energy conversion and synthesis of various high performance pigments. The department is getting ready to meet the ever changing and demanding global challenges in the field of colorants and allied fields.

HIGHLIGHTS OF COURSE

The dyestuff technology department is a unique centre of learning. It offers a very advanced curriculum which produces new generation of talented color technologists as well as bright researchers. The curriculum as well as on going research synchronizes with the latest industrial and academic developments. This has led to a high quality of industry-academia relations for better technology and products.

B.Tech. course in Dyestuff and Intermediates emphasizes Chemistry, Technology and Engineering of organic intermediates and colorants. We equip our student with knowledge of manufacturing processes, analytical techniques and laboratory synthesis with scaling up skills.

M.Tech. course in Dyestuff Technology mainly focusses on the latest process technology and business management. The main aim of this course is to provide better knowledge for the student and prepare him for entrepreneurship. Thos also have 4-6 months industry internship and an extensive project work.

Our curriculum envisages developing entrepreneur skill as well as research attitude. During the curriculum students are exposed to the general engineering skills like, tool design, electrical appliances, machine drawing, etc. In addition, a detailed study of basic sciences (Physics, Mathematics, and chemistry) and chemical engineering aspects are covered. Humanity related subjects like Industrial economics, Chemical Process Economics and Industrial management are also covered during the four-year course of B.Tech. Students also have the opportunity to develop the soft skills like effective communication and software programming languages.

We have a very good track record of 100 % placement for both B.Tech. and M.Tech. course. Our department have produced about 100 first generation entrepreneurs.

PERFUMERY AND FLAVOUR TECHNOLOGY

VISION :

Empowering the knowledge of perfumery, flavors and cosmetics through learning a cutting-edge **technology for the benefit of mankind.**

MISSION :

To educate students and professional in the area of perfumery and flavor, cosmetic technology.

To serve and upgrade the aroma industry in the form of chemical technology so as to make them competitive in local and global market.

Actively nurturing with close co-operation at National and International levels, with reputed institutions, industries, research and development organizations and universities.

We are using flavor and fragrances since last five millennia. The first individual chemist known to history was from the second millennium BCE in Mesopotamia. As an area of modern chemical industry, it is low profile compared with the pharmaceutical and petrochemicals. Yet it is a multi-billion dollar, global industry that impacts on everyone's life in the developed world.

Synthetic chemistry is developing new methodologies, so that materials which are important and available at high cost can be made available at an affordable price. Analytical work on examination of new exotic materials may also lead to the identification of exciting new compounds.

Currently the organizations like Givaudan, IFF, Firmenich, Symrise and Quest International have turnovers greater than \$ 16 billion. The geographical distribution of sale of flavour and fragrance materials is surprising with North America 30.6 %, Asia Pacific 27 % and Western Europe 23.2%. The key factor is the development of global economy. The market for flavour and fragrance is a mirror of the affluence of a society. With this we can hope that billions can share the living standards of the developed world which in turn shall open the market for the flavour and fragrance industry.

Perfumery and Flavor Technology is a unique course in Institute of Chemical Technology. It started in the year 1990-91. Major funding agencies for this course are FAFAI and ICEOFF and Dr. R.Y. Mantri Endowment. We are offering two fellowships of Rs. 10,000 per month for the Masters course in Perfumery and Flavours.

DEPARTMENT OF FIBRES AND TEXTILE PROCESSING TECHNOLOGY

VISION :

- To be the world class centre of excellence in teaching and research in chemical processing of fibres, textiles, apparels and the key areas of technical textiles with ecological, social and ethical responsibility, meeting the crucial needs of trained man power and technological solutions of Indian textile industry.

MISSION :

- To be the leader in offering top class human resources by training them from bachelors to doctorate level degrees in core competence i.e. in chemical processing of fibres, textiles and apparels.
- To train the industrial technicians as per the demands of the industry, upgrading their skill to meet international quality standards.
- To conduct industrially relevant research and provide technical guidance aimed at offering technology solutions and enhancing competitive edge to the industry.

Almost 5 years ago, in 1933, when the Indian Textile Industry was progressing in full swing in cities like Mumbai, and Ahmedabad, other industries were not even born. It was the time Sir Vitthal Chandavarkar was the Vice Chancellor of University of Mumbai and also the Chairman of Textile Mill Owners' Association.

Thus, the Department of Fibres and Textile Processing Technology (FTPT), formerly known as Textile Chemistry Section, has the unique distinction of being the first discipline with which this institution started. The Department conducts B.Tech. course with an intake capacity of 34, which is highest among all the B.Tech. courses of ICT. The course involves study of chemistry and manufacture of fibres, their chemical processing such as bleaching, dyeing, printing and finishing. It further encompasses the study of chemistry as well as application of various kinds of chemicals, dyes, thickeners, and finishing auxiliaries which are used in chemical processing of textile fabrics and garments. It also involves knowledge of green chemistry, biotechnology and nanotechnology with special reference to chemical processing of textiles.

The post graduate courses of M. Tech. in Fibres and Textile Processing Technology both, Regular- 2 years and Sponsored 3- Years, M.Sc. in Textile Chemistry, Ph.D. (Tech.) in Fibres and Textile Processing Technology, Ph.D. (Sci.) in Textile Chemistry and Ph.D. (Sci.) in Chemistry attract a large number of students and so far more than 2500 graduates and 500 post graduates have passed out from this Department. The faculty of the Department has good interaction with the industry. Several industries and institutions have signed MOUs for research collaboration with us. Under these MOUs we offer Ph.D. and M. Tech. courses to their scientists. A number of industries have been benefited by the technical advice given by the faculty. There have been a number of industrial and governmental research projects in which problems of mutual interest are investigated and the students as well as the Department have been benefitting by this interaction. The Department is recognized as Centre of Advanced studies in “Physicochemical aspects of Textile, Fibres, Polymers and Dyes” presently in Phase VII, since 1962. It was also recognised under the MODROB scheme of UGC. The Department is has been funded by TEQIP. In the month of December 2012, the Department got recognised as DST-FIST funded Department for the second time. The department also played an important role in evaluating TUFs under Ministry of Textiles, GOI. Also, the Department organizes guest lectures by industry experts under different endowment programmes. An international conference ‘Texsummit’ was organized by the Department recently, in December 2012. The faculty is engaged in high quality fundamental as well as applied research and they have got over 1000 publications in Indian and International journals as well as reputed fellowships to the credit from recognized institutions in India and abroad.

After the globalization of the markets with border-less trade, textile manufacturing activities are shifted to country like India which is fast developing economy. Textile being one of the fundamental needs of human being, it is a mother industry, next to only agriculture sector, involving over 60 million people. Today, the business is fast growing and will soon touch around US\$ 100 Billion. However, in the border-less trade many multinational brands are competing and the critical area of chemical processing of textile fabrics and garments requires tremendous amount of consolidation in terms of well trained manpower which can keep pace with latest technological operations and demand of stringent quality parameters in shortest delivery time giving competitive edge to the manufacturers. There is a huge shortage of Textile Processing graduates in the core textile industry as well as in multinational and reputed Indian manufacturers of dyes, chemical and auxiliaries. Thus the scope for graduates and postgraduates of this Department is enormous and such a demand with every passing day will only be rising given that consumption of apparels and technical textiles in India and abroad is increasing at galloping rate. The Department has a twinning programme with Ethiopia for past 4 years and is involved in helping Ethiopian extile Industires Development Institute (ETIDI).

DEPARTMENT OF FOOD ENGINEERING AND TECHNOLOGY

VISION :

Establishing a center of excellence to provide demand driven, value-based and quality technical education to make India a developed country through socio-economic transformation

MISSION :

Creating an atmosphere to deliver fundamental knowledge in Food Engineering and Technology for the students to fulfill the need of all segments of society and the environment.

Starting from the classroom teaching and simultaneously creating a multi-disciplinary platform capable of conducting research, technology development and solving industrial challenges.

Providing leadership and training personnel for the benefit of the industry and society complying with overall activity towards economic growth of the country.

This Department is the first in our country to offer specialized education in Food Technology.

The B. Tech. (Food Eng. and Tech.) course trains the students in chemical, biochemical and microbial aspects of foods. Students are also taught how high quality products can be prepared and preserved for storage and how the storage conditions might affect the quality. The course gives adequate engineering inputs for large-scale production. The training also includes development of food products, manufacturing processes, design of factory with proper quality assurance system established. Economic feasibility of marketing such products is also taught during the course. The major research interests include carbohydrate chemistry and technology with focus on Indian traditional foods; and food microbiology related to quality, safety and application of new technology. Prof. D.V. Rege Centre has been founded to cater to the needs of Food Technology Research.

The UGC has recognized the Department as Centre of Advanced Studies in Food Engineering and Technology, under which 15 SAP fellowships are awarded per year. A new course assisted by DBT in Food Biotechnology has been in place since 2009-10 with 10 M. Tech. GATE fellowships. The Department also participates in two interdisciplinary M. Tech. courses - Perfumery and Flavour Technology, and Bioprocess Technology.

DEPARTMENT OF OILS, OLEOCHEMICALS AND SURFACTANTS TECHNOLOGY

After WW-II, the Department for Technology of Oils, Fats and Waxes was started, which was headed by Professor J. G. Kane, whose work on non-edible oils was exceptional. The Department has been in forefront for its quality education. Several of its alumni have been industrialists and reputed educationists.

VISION :

Harnessing innovative skills of its faculty and students to achieve a global leadership position in Oils, Oleochemicals and Surfactants Technology, while nurturing a culture of trust and healthy competition in order to serve the critical professional needs of industry and society.

MISSION :

To pursue world class programs of excellence in education and research in specialized areas of Oils, Oleochemicals and Surfactants Technology relevant to the sustainable development of process industries that require problem solving competences in these core areas of knowledge.

What is this Technology?

The lipids are a class of biochemical compounds, many of which occur naturally in plants and animals. The lipids constitute a very large class of compounds, many of which play essential roles in organisms. Among the most important lipids are fats and oils, waxes, steroids, terpenes, fat-soluble vitamins, prostaglandins, phosphoglycerides, sphingolipids, and glycolipids. Phospholipids, for example, occur in all living organisms, where they are a major component of the membranes of most cells. The main use of fats commercially is in the production of soaps and other cleaning products. Oleochemicals are chemicals derived from biological oils or fats. The hydrolysis or alcoholysis of oils or fats form the basis of the oleochemical industry. The formation of basic oleochemical substances like fatty acids, fatty acid methyl esters (FAME), fatty alcohols, fatty amines and glycerols are by various chemical and enzymatic reactions. Intermediate chemical substances produced from these basic oleochemical substances include alcohol ethoxylates, alcohol sulfates, alcohol ether sulfates, quarterner ammonium substances, monoacylglycerols (MAG), diacylglycerols (DAG), structured triacylglycerols (TAG) and sugar esters. The importance of these chemicals is thus evident.

This Department has been pioneering in the field of Oil Technology. The curriculum has been designed to provide an in-depth knowledge of chemistry and technology of oils and fats, and their industrial applications. Career opportunities exist in oils mills and refineries, oleochemicals, soap and detergent manufacturing industries, surfactants and specialty chemical manufacture producing auxiliary chemicals, Paints. Cosmetics, Perfumery and raw materials

used in the above industries. Several short and long term projects instituted by sponsoring bodies for process/product development have been supervised by the faculty as part of their routine research activity.

It also participates in M. Tech. in Perfumery and Flavour Technology, Green Technology and Bio-Process Technology.

DEPARTMENT OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY

VISION :

To be a globally recognized premier educational and research Centre with world class facilities, adopting international best practices, focused on the integration of science and technology in the areas of Drug Discovery, Drug Delivery, Organic Process Research and Herbal Healthcare Products

MISSION :

To achieve the best in pedagogy and research, through creation of a dedicated team of faculty and state of art research facility, to develop skilled manpower and innovative cost effective technology to support national healthcare programmes.

This Department offers two distinct programmes - Pharmaceutical Technology and Pharmacy.

The Pharmaceutical Technology course or the B. Tech. programme, earlier B.Sc. (Tech.), deals with the technology of manufacture of drugs and pharmaceuticals. It has all the ingredients for a solid foundation in basic sciences, mathematics, computation and chemical engineering. B. Tech. (Pharmaceuticals and Fine Chemicals) was started in 1943, and today the course is B.Tech. (Pharmaceutical Chemistry and Technology). Basic science subjects like chemistry, mathematics and physics are dealt with in depth, while students are introduced to subjects of biochemistry, microbiology and pharmacology. Strong background knowledge of chemical engineering including chemical reaction engineering, unit operations, separation processes, instrumentation and process control, and stoichiometry is imparted to synergise with the major focus, which is on manufacturing process technology and chemistry of API, intermediates and fine chemicals and dosage form technology. Several distinguished alumni and many first generation renowned industrialists had their training in this Department. The aim of the B.Tech. (Pharma) course is to develop complete professional technologists/entrepreneurs for the active pharmaceutical ingredients (API) and pharmaceutical industry.

The B. Pharm. Course at ICT, started in 1958, was the first course of this kind in the state of Maharashtra. The course involves a detailed study of Pharmaceutics, Pharmaceutical and Medicinal chemistry, Pharmacology, Pharmaceutical Analysis and Pharmacognosy. The goal is to enable an understanding of the science of drugs and drug actions. The course is supported with in depth courses in basic sciences namely, organic chemistry, inorganic chemistry, physical chemistry, biochemistry, microbiology, maths and other relevant subjects like biotechnology, forensic pharmacy, management. The focus is on development of an expertise in the chemistry of drugs, drug effects, dosage regimen, drug toxicity and interactions with adequate knowledge of the synthesis of drugs, principles of drug formulation design and evaluation and regulatory requirements.

The UGC has recognized the Department as Centre of Advanced Studies in Pharmaceutical Science and Technology with supernumerary Single Girl Child Fellowships. Besides, fellowship are also accorded under various other government projects with individual faculty. The Department has also received support under the DST-FIST programme. Many industry sponsored projects, both National and International, are also currently in progress. Modern equipment, instruments and infrastructure are available for research. The faculty is highly active and has filed patents in a variety of areas including NCE's and drug delivery. The Department also participates actively in three inter disciplinary courses of ICT namely M.Tech. in Bioprocess

Technology, M.Tech. in Perfumery and flavour Technology and M.Tech. in Green Technology. M. Tech. in Pharmaceutical Biotechnology has been started since last year with 10 GATE fellowships. The programme is multi-disciplinary.

DEPARTMENT OF POLYMER AND SURFACE ENGINEERING

VISION :

Empowering skills and knowledge about latest Research in the field of Polymer and Surface Coating Technologies.

MISSION :

To Pursue world class Programs on Excellence in Education and Research in the area of Polymer and Coating Technology for the sustainable development of Industries that require trouble shooting competencies in these core areas of knowledge.

The Department of Polymer and Surface Engineering has undergone changes in its nomenclature and was established in 1946. Earlier it was known as Paints, Pigments and Varnishes (PPV) Section and was steered in the beginning by none other than Professor N.R. Kamath, a famous chemical engineer, graduate of first batch of B.Sc. (Tech.), in 1936, who later migrated to IIT-Bombay as Head of Chemical Engineering and Deputy Director. The B.Sc. (Tech.) courses in plastics and paints technologies were started in 1946 and have been popular throughout the world. Several small and medium industries covering plastics, paint, printing ink, adhesive, sealers and allied industries have been founded by the graduates of the Department and maintained excellent connectivity with industry.

The Department runs two B. Tech. programmes: Polymer Engineering and Technology, and Surface Coating Technology.

What is Polymer Science and Engineering

Polymers are macromolecule that contains many monomer units, typically tens of thousands to millions. While many polymers occur naturally as products of biological processes, synthetic polymers are made by chemical processes that combine many monomers, together in chains, branched chains, or more complicated geometries. Starch, cellulose, proteins, and DNA are examples of natural polymers, while polyolefins, nylon, PET, ABS, Teflon, and PEEK etc. are examples of the synthetic variety. Both classes possess a number of highly useful properties that are as much a consequence of the large size of these molecules as of their chemical composition. Although most synthetic polymers are organic, that is, they contain carbon as an essential element along their chains, other important polymers, such as silicones, are based on noncarbon elements.

The rapid pace of advances in polymers, particularly after World War II, has been remarkable and the birth of this discipline in ICT in mid-1940s was timely. Synthetic polymers are so well integrated into the fabric of society that we take little notice of our dependence on them, whether it is health, medicine, clothing, transportation, housing, defense, energy, electronics, employment, space, and trade. Without a doubt, synthetic polymers have large impacts on our lives.

Although progress in polymer science and engineering can be considered ground-breaking, opportunities are abundant for creating new polymeric materials and modifying existing polymers for new applications; depolymerization and polymer recycling; oxo and biodegradable polymers; nano-composites, and the like. Scientific understanding is now replacing empiricism, and polymeric materials can be designed on the molecular scale to meet the ever more demanding needs of advanced technology. The possible control of synthetic processes by biological systems is promising as a means of perfecting structures. New catalysts offer the opportunity to make new materials with useful properties, and the design of new specialty polymers with high-

value-added applications is an area of rapidly increasing emphasis. Theory, based in part on the availability of high-speed computing, offers new understanding and aids in the development of improved techniques for preparing polymers as well as predicting their properties. Analytical methods, including an array of new microscopic techniques particularly suited to polymers, have been developed recently and promise to work hand-in-hand with theoretical advances to provide a rational approach to developing new polymers and polymer products. The field of polymer science and engineering therefore shows no sign of diminished vigor, assuring new applications in medicine, biotechnology, electronics, and communications that will multiply the investment in research many times over in the next few decades.

The education provided to the students is the blend of practice and theory related to polymer science and engineering. The students learn to develop systems which are economically feasible and environmentally acceptable.

What is Surface Coating Technology?

Coating applied on other surface of the materials for the decoration and protection. The surface coating change aesthetic properties such as color, gloss, texture and functional properties like resistance to wear, chemical attack, permeability, weathering resistance without changing the bulk properties. These materials includes coatings, adhesives, sealants, varnishes, enamels, lacquers. Initially coating were solvent based however, the volatile organic compounds are compelling to develop ecofriendly coatings like water based, high solids coatings, powder coatings and radiation curable coatings. In general, organic coatings are based on a vehicle, usually a resin, which, after being spread out in a relatively thin film, changes to a solid. This change, called drying, may be due entirely to evaporation (solvent or water), or it may be caused by a chemical reaction, such as oxidation or polymerization. The materials providing the hiding are the opaque materials called pigments, dispersed in the vehicle, contribute colour, opacity, and increased durability and resistance.

The physical, chemical and mechanical properties of a material surface determine its applicability in many technical devices. Numerous applications could not be realized without the use of surface modifications, coatings and thin film technology. Therefore, the need for efficient and effective methods of surface modification is becoming increasingly evident to allow the production of far superior products in terms of wear resistance, corrosion protection, enhanced biocompatibility, thermal insulation, improved optical and altered electronic properties. Coating technologies of particular interest include physical and chemical vapor deposition, thermal spraying, electrochemical deposition, sol-gel-syntheses, and plating. Surface modification includes directed energy techniques such as ion, electron and laser beams as well as etching procedures and thermo-chemical diffusion. Beyond that, mono-layers (e.g. SAM, Langmuir-Blodgett) have attained high significance in preparing thin films to modify biomedical surfaces. Recent novel techniques to prepare patterned surfaces (e.g. nano-imprint lithography, micro-contact printing) have proven their potential for the fabrication of integrated circuits and bioactive implants. Thus, this course offers an exciting field of study.

New trends related to surface engineering and coating technology for the synthesis of functional materials surfaces including novel fabrication methods, materials and applications, new characterization techniques as well as numerical simulation and modeling are some of the areas of research.

The Department is supported by UGC, DST, BRNS, etc.

DBT-ICT CENTRE FOR ENERGY BIOSCIENCES

VISION:

We aspire to be an internationally leading Centre for education to create industry ready manpower, generating new economic growth by providing solution to national and international agenda, and through world class translational research in the field of biosciences and industrial biotechnology.

MISSION:

To provide outcome based education, and research infrastructure to become global leader in creating industry ready manpower, and sustainable technologies based on biosciences and industrial technology for development, in joint efforts with industries, academia and business at national and international level.

The DBT-ICT Centre for Energy Biosciences (DBT-ICT-CEB) is a unique place that integrates basic and translational science capabilities for bioprocess development and scale up. Funded by the Department of Biotechnology, Ministry of Science and Technology, India, the Centre was established and formally inaugurated in May 2009. Established at a total cumulative cost equivalent to more than USD 15 million, the Centre is a part of the Institute of Chemical Technology (ICT) at Matunga, Mumbai, which is a deemed to be University under Section 3 of UGC Act 1956. The Centre was set up as a result of vision and efforts of Dr. M. K. Bhan, Secretary DBT and Dr. RenuSwarup, Advisor, DBT, and functions under the leadership of Dr. G. D. Yadav, Vice Chancellor, ICT. The projects and technical programs at the Centre are coordinated by Prof. Arvind Lali. The Centre is focused primarily at developing biotechnologies for deriving biofuels and other products from renewable resources for reducing India's rising dependence on petroleum and cut down greenhouse gas emissions. The Centre believes in building multidisciplinary capacity for development of integrated technology packages.

The Centre successfully completed its first phase of five years in 2013 and was awarded an extension of five years by the Department of Biotechnology with the extended mandate of upscaling and upgrading the platform technologies developed during the first phase. The 10 Ton/day biomass pilot plant set up by Industry has successfully validated all segments of the novel DBT-ICT Lignocellulosic Ethanol Technology in a continuous non-stop flow mode from biomass size reduction to ethanol fermentation. The technology is at present being taken to commercial scales by different oil marketing companies. The Centre has developed a highly competent working groups in the area of Synthetic biology, Fermentation technology, Green/Chemical catalysis, Algal technologies, Enzyme engineering and technology, Separation technologies. These groups have developed a range of globally competitive cutting edge technologies that are at present being translated to demonstration and commercial scale plants.

With an outstanding achievement in the first phase, the second phase progressed to develop platform technologies for conversion of all domestic, industrial and agricultural wastes to renewable products (fuel, food, feed, material, energy and chemicals) using smart combinations of chemical and biological technologies. Also during the second phase, the Centre has developed an integrated biorefinery concept through multi-product processing using chemical or biological routes that are being taken up for technology transfer or scaleup. The Centre has expanded its state-of-art facility and procured several high-end equipment's and instruments that not only leads to high level contemporary research but also an accelerated development of several more scalable technologies based on the knowledge base generated. The Centre having completed its second phase in 2018, aims to continue the work in an intensive mission mode for innovative research and translation of developed technologies.

The Centre for Energy Biosciences has attracted a large number of industrial and academic collaborations as a result of its reputation of conducting cutting edge research and delivering viable and scalable solutions to the biotech industry. The Centre is also part of several national and international academic collaborations (Indo-UK, Indo-Australia, Indo-German, Indo-US and several national projects) with grants amounting to more than 10 million USD under various RandD schemes floated by Ministry of Science and Technology, Government of India. The technologies developed at the DBT-ICT Centre have been secured through patent filings across the world. A number of technologies have been already licensed to industries for pilot and commercial scale plants.

CENTRE OF GREEN TECHNOLOGY

Inception of the centre of Green Technology

The Green Technology center at ICT was incepted in 2005 under the potential for excellence scheme of the University of Mumbai. Subsequently, ICT has become a Deemed University and an Elite Center of Excellence in 2008 . Since then the Green Technology programmes are conducted solely by Centre of Green Technology, ICT.

VISION :

To become a globally recognized Green Technology Centre of excellence, through illustrious academic contributions at the national and international level.

MISSION :

- To promote the objectives, principles and outcome of green processes and products.
- To transmit research outcome to industry for making processes and products environmentally benign.
- Human resource development with awareness of environment and hazard related issues.
- To undertake sponsored projects of national relevance.
- To get quality publications in peer reviewed journals, national and international forums for the benefit of scientific community and society.

Programmes offered by the Centre of Green Technology

The center of Green Technology offers an interdisciplinary M. Tech. programme of both part and full time. It also conducts a Ph.D. programme. GATE and GPAT qualified candidates admitted to the M Tech. programme are eligible for fellowships.

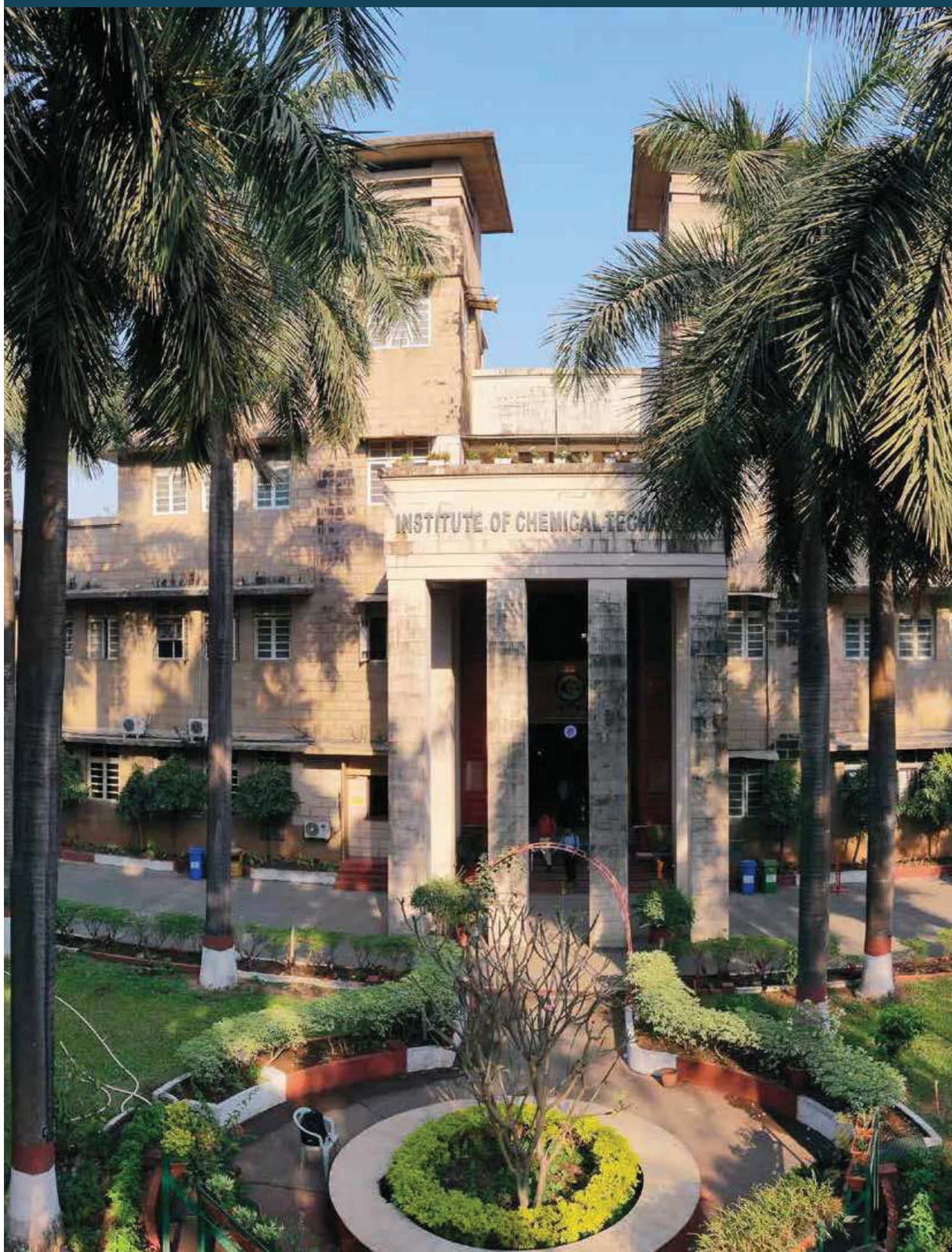
Highlights of the Green Technology programmes

Both the post graduate and Ph.D. programmes in Green Technology at ICT encompass the aspects of green and sustainable science and technology. As the programmes are interdisciplinary, the post graduate and doctoral students get ample experience and support across the Departments of ICT both in terms of research and curricular courses . This broad spectrum expertise is a unique and valuable advantage .


Areas in which research projects carried out in the Centre of Green Technology

- Development of catalysts for energy efficient and green processes
- Synthesis and application of nanomaterials
- Green Technology in pharmaceuticals and drug synthesis
- Conversion of multi-step synthesis into cascade engineered synthesis
- Synthesis of biodegradable chemicals and materials
- Application of biotechnology for sustainability
- Synthesis of safe and benign chemicals with minimum impact on environment.
- Process equipment design and operation to achieve sustainability
- Green Technology for hazard free, benign processes and products

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



Financial Report 2019-20

 INSTITUTE OF CHEMICAL TECHNOLOGY (Deemed University Under Section 3 of the UGC Act 1956) Nathalal Parekh Marg, Matunga, Mumbai-400019			
CONSOLIDATED BALANCE SHEET AS ON 31ST MARCH 2020			
Amount (Rs.) As on 31st March 2019	Particular's	SCH	Amount (Rs.) As on 31st March 2020
	SOURCES OF FUNDS :		
18,384,609	ORIGINAL CORPUS		18,384,609
2,109,236,435	RESERVES	A	2,610,462,556
2,250,407,043	EARMARKED FUNDS	B	1,957,888,357
1,384,027,937	DEPRECIATION FUND	C	1,582,378,429
-			-
5,762,056,023	TOTAL		6,169,113,952
	APPLICATION OF FUNDS :		
2,982,547,469	FIXED ASSETS		
2,982,547,440	Gross Block	D	3,431,805,011
191,807,536	Capital Work in Progress		460,559,780
2,328,780,517	INVESTMENTS	E	2,033,870,490
	CURRENT ASSETS,		
	LOANS & ADVANCES		
35,623,325	Salary Grant receivable		131,663,925
38,476,347	Grant receivable from Government of Maharashtra -Jalana		(21,187,615)
316,272,009	Advances ,Deposits and Recievables	F	382,482,215
227,855,477	Cash & Bank Balances	G	278,702,068
618,227,158			771,660,593
	LESS: CURRENT LIABILITIES & PROVISIONS		
-			
22,674,882	Earnest Money	H	11,936,058
47,389,843	Providend Fund (PF)	I	52,263,223
289,241,903	Other Liabilities	J	464,582,641
359,306,628			528,781,922
258,920,530	NET CURRENT ASSETS		242,878,671
5,762,056,023	TOTAL		6,169,113,952

As per our Report of Even date
 For DSK & Associates
 Chartered Accountants
 Firm Registration No: 117710W

P.G.DUBE
 Partner
 M. No. : 036288
 Place: Mumbai
 Date: 15th January, 2021



For Institute of Chemical Technology

RR Deshmukh
Aravind
 A R (F&A) Registrar Vice-Chancellor



INSTITUTE OF CHEMICAL TECHNOLOGY
(Deemed University Under Section 3 of the UGC Act 1956)
Nathalal Parekh Marg, Matunga, Mumbai-400019

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2020

Amount (Rs.) As on 31st March 2019	Particular's	SCH	Amount (Rs.) As on 31st March 2020
	INCOME :		
181,065,161	Salary Grant	1	216,838,916
142,691,394	Income from fees	2	179,559,645
22,107,304	Interest		18,401,024
43,913,735	Consultancy fees		42,538,846
28,844,661	Other Income	3	26,543,341
144,559,747	Transfer to the extent of Depreciation		150,567,455
563,182,003	TOTAL INCOME		634,449,227
	EXPENDITURE :		
233,209,410	Salary	4	290,029,193
4,760,881	Examination expenses	5	4,939,681
42,927,526	Repairs and Maintainance	6	20,089,439
96,781,981	Operating & Administrative Expenses	7	106,333,442
	Depreciation:		
35,899,070	On ICT & Hostel Assets		40,566,037
17,841,563	On Teqip Assets as per contra		19,286,149
126,718,185	On Other Assets as per contra		131,281,306
558,138,616	TOTAL EXPENSES		612,525,246
	AMOUNT TRANSFERRED TO GENERAL RESERVES		21,923,981
5,043,387			
	Appropriations:		
24,868,675	Development Reserve (50% of Development Fees)		32,006,823
4,391,374	Faculty Development Reserve (10% of Consultancy Fees)		4,253,885
	Teqip Mandated Funds		
1,888,400	Teqip Corpus Fund		2,106,959
1,888,400	Teqip Faculty Development Fund		2,106,959
1,888,400	Teqip Equipment Replacement Fund		2,106,959
1,888,400	Teqip Maintenance Fund		2,106,959
(31,770,262)	AMOUNT TRANSFERRED TO GENERAL RESERVES		(22,764,561)
5,043,387			21,923,981

As per our Report of Even date
For DSK & Associates
Chartered Accountants
Firm Registration No: 117710W

P.G.DUBE
Partner
M. No. : 036288



For Institute of Chemical Technology
Matunga, Mumbai Campus

(Signature) A R (F&A) Registrar Vice-Chancellor

Industrial Consultation

Chem. Engg.

M/s. Unilever industries Pvt. Ltd.
M/s. Galaxy Surfactants Limited
M/s. K.V. Fire (1st install)
M/s. Aditya Birla Science & Technology Company Pvt. Ltd.(1st Install)
M/s. Asian Paints Limited
M/s. Marico Limited (50% Inviove 210000)
M/s. AZB and Partners (inv for 25%) (2nd inv 75 %)(300000)
M/s. K.V. Fire (2st install)
M/s. Aditya Birla Science & Technology Company Pvt. Ltd.(2st Install)
M/s. Marico Limited (2 installment)
M/s. Unilever industries Pvt. Ltd. (2nd installment)
M/s.Aegis Logistics Limited (1st installment)
M/s.Aegis Logistics Limited
M/s.Aegis Logistics Limited
M/s green galaxy global environment services installment
M/s s. techno limited
M/s kesar petroproducts limited
M/s cipla house
yog chem pvt ltd
M/s hisun adhesives
M/s indoco remedies limited
M/s. supreme petrochem ltd
M/s shyam chemical pvt ltd (50 % inv)300000
M/s hikal limited
M/s Lote parshuram envirement protection co op soc ltd
M/s s. techno limited (50% inv) 300000
M/s.vardhaman dyestuffindustries pvt ltd
M/s. Rallis India Pvt Ltd (1050000)
M/s. Rubamin Limited
M/s. Fossil Lliquid And Minerals Exim Pvt Ltd
M/s. Galaxy Surfactants Ltd
M/s. Mangalam Organics Ltd
M/s. Marvel Drugs Pvt Ltd
M/s. Prasol Chemical Pvt Ltd
M/s. Vinati Organics Ltd
M/s. Fabex Engineering (600000 1st installment)
M/s. Jayant Agro- organices Ltd (2 nd installment) (575000)
M/s. JAYant Agro- organices Ltd (3 nd installment)
M/s. Fabex Engineering (600000 2st installment)
M/s. Zoetis Pharmaceutical Research Pvt Ltd
M/s. Jayant Agro- organices Ltd (4 nd installment) (575000)
M/s. Fabex Engineering (600000 3st installment)
M/s. Equinox Envlronments I Pvt Ltd
M/s. India Center For Plastics in Enviornment Ltd

Centre For High Techology (total Con 9 lakh)
Centre For High Techology (total Con 9 lakh)
M/s. Mangalam Drugs & Organics Limited
M/s. Sakar Healthcare Pvt Ltd (total con 1050000/-)
M/s. Sakar Healthcare Pvt Ltd (total con 1050000/-)
M/s. Biocon Limited
M/s. logistics limited
M/s. logistics limited
M/s. Encore Natural Polymers Pvt Ltd
M/s. logistics limited
NOCIL Limited
M/s. NOCIL Limited
M/s. Rallis India Pvt Ltd
M/s. asian paints limited
M/s Amarjyot chemical coration
M/s Marvel drugs pvt ltd
M/s gujarat alkalies & chemical limited
M/s kesar petroproducts limited
M/s godavari birefiners ltd
M/s mangalam organics ltd
M/s indo amines limited
M/s Vivid global ind ltd
M/s IPCA labortories ltd
M/s IPCA labortories ltd
M/s Heubach Colour pvt ltd
M/s mangalam organics ltd
M/s.Prasol chemical pvt ltd
M/s. egulnox Enviroments I pvt ltd
M/s.Vinat Organics ltd
M.s Aaradhana Energy Pvt Ltd
M/s. Whirlwind project
M/s. Sudarshan Chemical
M/s. Super Fresh
M/s. Zoetis Pharmaceutical Research pvt ltd
M/s. Amarjgot Chemical Corporation
M/s. Amarjyot Chemical Corporation
M/s. OEC Project Manager
M/s. OEC Project Manager

CEB

M/s. Gencrest LLP
M/s. UPL Limited (1200000) 1st installment
M/s. UPL Limited 2 nd installment
M/s. Lupin Limited
SEA6 ENERGY PVT LTD
SEA6 ENERGY PVT LTD
SEA6 ENERGY PVT LTD
SEA6 ENERGY PVT LTD
SEA6 ENERGY PVT LTD

SEA6 ENERGY PVT LTD
SEA6 ENERGY PVT LTD
PUSHPA J SHAH(1 st installment)
PUSHPA J SHAH(2nd installment)
M/s. ETD Parry I Ltd Chennai
M/s. Sintering Innovation Technology I Fundation

Foods

M/s. Marico Limited
M/s. Aditya Birla Sci And Tech
M/s . Signet Chemical Cor Pvt Ltd
M/s. Abhishek Tradelinks
M/s.Exotic Fruit Pvt Ltd
M/s. Marico Limited
Shivanika Food Pvt Ltd

Textiles

M/s.Rossari Biotech Limited
M/s.Rossari Biotech Limited
M/s.Rossari Biotech Limited
M/s.Rossari Biotech Limited
M/s.Rossari Biotech Limited
M/s.Rossari Biotech Limited
M/s. Hindustan Unilever Ltd
M/s. Hindustan Unilever Ltd
M/s. B.R. Specialites LLP
M/s. B.R. Specialites LLP

Polymers

M/s. Seven Seas Paints Pvt Ltd
M/s.Soham Pipe Lining Services JV
M/s. Seven Seas Paints Pvt Ltd
M/s. Gravit Onsite- JV India
M/s. Indofil Industries Limited
M/s. Grand Paradi Co-operative Housing Society ltd
M/s. Elken South Asia Pvt Ltd
M/s. Saboo SBL Specialty Coating Pvt Ltd
M/s. Berger Paints I Pvt
M/s.Durashield Building Svstems Pvt Ltd
M/s. Unilever Industries P Ltd
M/s. Akzonobel India Ltd
M/s. Mega Infra & Trading Co.
M/s. Asian Paints Ltd
M/s. Rashtriya Chemical & Fertilizes Ltd
M/s. KLJ Resourcers limited
M/s. Nichem Solution
M/s. Sunshine Fibre Pvt Ltd

M/s. Unilever Industries P Ltd
M/s. Chandla Industrial Plastics Pvt
M/s. SPECO Infrastructure
M/s. New World Paints
M/s. Piramal enterprises Limited
M/s. Nuoyomondo Chemical Pvt Ltd
M/s. Cipla Helth ltd
M/s. BASF India Ltd
M/s. Nichem Solution
M/s. Visen Industries
M/s. Unilever Industries P Ltd
M/s. Larsen & Toubro Limited Passavnt Eng & Environment
M/s. New World Paints
M/s. Unilever Industries P Ltd
M/s. BASF India Ltd
M/s. Indian Oil Corporation limited
M/s. Avesta Enterprises Pvt Ltd
M/s. Shrihari Enterprises pvt ltd
M/s. SRMPL
M/s. Asian Paints PPG Pvt Ltd
M/s. pon pure chemical india pvt ltd
M/s. Babaji Shivram Clearing pvt ltd
M/s. DCM Shriram
M/s. Asian Paints Pvt Ltd
M/s. Express Global Logistics Pvt Ltd
M/s. Graver & Well India Limited
M/s. Krishna Conchem products pvt ltd
M/s. Graver & Well India Limited & M/s. Tolani Project Pvt
M/s. Graver & Well India Limited & M/s. Offshare Indfastructure Ltd
M/s. Directore of revenue interigence
M/s. MC Bauchemie India Pvt Ltd
M/s. Rathi Day Chem Pvt Ltd
M/s. Kansai Nerolac Paints ltd
M/s. VKC Foot Prints Global Pvt Ltd
M/s. Shalimar Paints Ltd
M/s. Shalimar Paints Ltd
M/s. Fosroc Chemical I Pvt Ltd
M/s. Barges India Pvt Ltd
M/s. Growal Paints I Pvt Ltd & M/s. Offshore Infstructure
M/s. Stanvac Chemical I Ltd
M/s. Asian Paints PPG Pvt Ltd
M/s. Technokem Construction Chemical
M/s. SKB Builder India Limited
M/s. Shri Ram Enterprises
M/s. Babaji Shivram Clearing pvt ltd
M/s. Sunanda Speciality Cating Pvt Ltd
M/s. Rathi Day Chem Pvt Ltd
M/s. Asian Paints PPG Pvt Ltd
M/s. Rashtriya Chemical Fertilizer limited
M/s. Tranquil Specially Products Pvt Ltd

M/s. NMMC Navi mumbai
M/s. Asian Panits PPG Pvt Ltd
EPCOS India pvt ltd
Kansal Nerolac Paints
M/s. Pidilite Industries Limited
M/s. Axalta Coating System India Pvt Ltd
M/s. Dorfketal Chemical I Pvt Ltd (1st installment)
M/s. Nippon Paint I Pvt Ltd
M/s. Greend Coating Technology Pvt Ltd

Pharma

M/s. Sriken Laboratories Pvt Ltd
M/s. Organics Aromatics Pvt Ltd
M/s. Great Pacific Exports Pvt ltd
M/s. Amaterasu Life Sci LLP
M/s. Zim Laboratories Ltd
M/s. Akseera Pharma Corp
M/s. Spiro Life care pvt ltd
M/s. Sakar Healthcare Limited
M/s. Salicylates And Chemical
M/s.Sanajanand medical Technologies pvt ltd
M/s. Cadila Pharmacticals
M/s. Vibar Nutripharma Solutions (1st installment 50000/- total cons 100000)
M/s. Godavari Biorefineries Limited (Total Con 750000/-)
M/s. Advent Chem Bio Pvt Ltd (total Cons - 45000/-)
M/s. Mitsubish Chemical Corporation
M/s. Unilever Industries Limited
M/s cheryl laboratories pvt ltd
M/s IMDC india pvt ltd
M/s. Shreya Life Sci Pvt Ltd
M/s. Zydus Taked Helthcare Pvt Ltd
M/s. Lasa Supergenerics ltd
M/s. Pidilite Industries
M/s. Pidilite Industries

Oils

M/s. Hindustan Unilever Ltd (1st installment) (240000)
M/s. Hindustan Unilever Ltd (2st installment) (240000)
M/s Hindustan Unilever ltd
M/s. M.C. Dwivedi
M/s. Mahavir Chemical India
M/s. Hindustan Unilever pvt ltd
M/s. Galaxy Surfactants ltd
M/s. Jayant Agro oraganices limited
M/s. BASF India Limited
M/s. Mahavir Chemical India
M/s. Wipro Entrprises pvt ltd

Chemistry

M/s. BASF India Ltd
M/s. Calibre Chemicals Pvt Ltd
M/s. Mangalam Organics Ltd

Physics**Dyes**

M/s. Heubach Colour Pvt Ltd
M/s. Serra Fine Chemical pvt ltd
M/s. Astik Dyestuff pvt Ltd
M/s. SBL Colortech Pvt Ltd
M/s Essilor Research Development
M/s. Wool Research Association
M/s. Gopinath Chemtech Ltd

Research Project Income

Fibres-textiles

govt.

A.I.C.T.E/MODROB/Prof.R.V.ADIVAREKAR	1500000.00
DAE/BRNS/Prof.R.V.Adivarekar	248400.00
RGSTC/Reuse of Waste Cotton/Prof.R.V.Adivarekar	3846750.00

pvt.

BR Specialities LLP- 2nd/ Prof.R.V.Adivarekar	585900.00
BR Specialities LLP/Dr.R.V.Adivarekar	585900.00
S. A. Pharmachem Pvt Ltd- Dr.R.V.Adivarekar	106200.00
HINDUSTAN UNILEVER/ADIVAREKAR	625134.00

Pharma

govt.

AICTE/RIFD/RPS-2018-19-Prof.Patravale	689500.00
DBT/Antimicrobial Resistance/Dr.P.V.Devrajan	1774539.00
DBT/RETINA/DR.PRAJAKTA DANDEKAR	2152881.00
Dst/serb/prof.V.B.Patravale	230000.00
GOI/MOFPI/Prof.K.S.Laddha	442777.00
BIRAC-SRISTI/Prof.P.V.Devarajn	375000.00
UGC/FRP/Dr. Prajkt Dandekar Jain	2849376.00
BIRAC/Dr.Prajakta Dandekar-Jain	1062000.00

pvt.

AMBERNATH ORGANICS PVT. LTD/ PROF. M . S. DEGANI	1200000.00
CHERYL LABORATORIES PVT. LTD.PROF. P.D.AMIN	827500.00
Ferring Pharmaceutical/ Prof.V.B.Patravale	773145.00
GLENMARK PHARMA. LTD./DR.RATNESH JAIN	255150.00
ICPA Health Products Limited/Prof. P.D.Amin	325000.00
Indofil Industries Ltd./Dr.V.N.Telvekar	128135.00
LASA Supergenerics Ltd/ Dr.V. N. Telvekar	324000.00
Lifescient INC - Prof.P.D.Amin	350000.00
Merck Ltd/Prof.Amin/Prof.Chaturbhuj	480000.00
Merck Pvt.Ltd./Dr.P.D.Amin	1052121.00
M/S Salicylates & Chemicals Pvt Ltd. (P.D. Amin)	426052.00
Nippon Synthetic Chemical/Prof.P.R.Vavia	515550.00
PROCTER & GAMBLE HEALTH LTD/P.D.AMIN	445500.00
Salicylates & Chemicals P. Ltd./m.S.Degani	602000.00
Sun Pharma Advanced Research Co Ltd/Dr.Vavia	558000.00
Unilever Industries Pvt.Ltd./Prof.P.D.Amin	702000.00
TRM, Ireland- Prof.V.B.Patravale	567527.00
Vd.Balendu Prakash/Prof.S.Sathaye	198040.00
Amaterasu Lifesciences LLP/Prof P.V.Devarajan	395940.00

Chem. Engg.**govt.**

STARS/Dr.V.Dalvi	1729000.00
DAE/BRNS/Dr.C.S.Mathpati	483905.00
D.A.E/ Centre For C.E.	26911478.00
DBT-BCIL-Prof.A.B.Pandit	437969.00
DBT-Catalytic Aqueousphase/Dr.Vaidya	1571585.00
DST/CO2-Capturing Solvents/Dr.P. Vaidya	1514765.00
DST/FIST/CE/Dr Ratnesh Jain	33339752.00
DST/hydrogen From Biogas/Dr.P.D.Vaidya	2432408.00
DST/Indo-Japanese Lecture/Prof.Kantam	230000.00
DST/Nanofibrous Bandage/Dr.P.D.Jain	6236280.00
DST/SERB-Brownian Movement/Prof.Pandit	220000.00
DST-SERB/Dr.A.W.Patwardhan-Dr.C.S.Mathpati	400000.00
DST/SERB-Sea-Water/Dr.P.R.Gogate	424245.00
IGCAR/CFD Study /Prof.A.W.Patwardhan	542800.00
BIRAC/Dr.Ratnesh Jain	942000.00
RGSTC/Agricultural Waste/Dr.V.K.Rathod	7310933.00
RGSTC/Recycling of Water/ Anand V. Patwardhan	3270608.00
IGCAR/COLD TRAP/PROF.A.B.PANDIT	896800.00
UGC-FRP/ Start-Up Grant -Dr Parag Nemade	1226736.00
Prof.A.B.Pandit-Research Fund	249370.00
Prof.M. Lakshmi Kantam	45775.00

pvt.

Aditya Birla Science and Tech Co./Dr.A.B.Pandit & Dr.P.R.Gogte	330748.00
BAJAJ CONSUMER CARE LTD./DR.RATNESH JAIN	209250.00
Amines & Plasticizer Ltd./Dr.S.S.Bhagwat	243458.00
Bharat Petroleum Ltd/prof.V.G.Gaikar	910379.05
Biocon SDN / Dr.Ratnesh Jain	2156216.00
BPCL/Dev't of Additive/Dr.V.G.Gaikar	1175200.00
BPCL/Lonic Liquid/Prof.V.G.Gaikar	1279200.00
BPCL/ Prof V.G.Gaikar	104773.20
Cadila Healthcare Ltd./Dr.Ratnesh Jain	405000.00
Centre for High Tech./BioGas/Dr.P.D.Vaidya	723668.00
CIPLA LTD./DR.R.D.JAIN	824851.00
COCA COLA LTD / Dr. Dipak V. Pinjari	17146.00
Covestro India Pvt Ltd/Prof.B.N.Thorat	1591200.00
harvard Global Research Support Centre/Prof.Marathe& Prof.Rathod	300000.00
Equinox Environments (I) Pvt.Ltd./Prof.K.V.Marathe	94500.00
Godavari Biorefineries Ltd/Prof. Pushpito K. Ghosh	913360.00
HARIDEVKA INC/KSL	128125.00
HUL/2nd Project/prof.A.W.Patwardhan	283500.00

ICPE / Prof. K. V. Marathe	625050.00
ICT-OEC-Co2 Conversion-Prof.G.D.Yadav	1884708.00
ICT/ OECT/Phase III / Prof.G.D.Yadav	7702239.00
Kesar Petroproducts Ltd /Dr. L. Kantam & V.K.Rathod	410400.00
Malladi Drugs /Ephidrine /Prof.G.D.Yadav	408240.00
Mangalam Organic Ltd-1 /Prof.Kantam / Prof.Rathod	270000.00
Mangalam Organics Ltd.-2 / Prof. M. Lakshmi Kantam	1017048.00
Mangalam Organics Ltd./Dr.P.R.Gogate	383400.00
Marvel Drugs Pvt Ltd/ Prof Lakshmi Kantam	227700.00
Ms.IRELTDC/Dr.Parag Gogate	1610000.00
Prasol Chemicals Pvt Ltd/Prof.Rathod& Prof.Kantam	594000.00
Raj Petro Specialities Ltd./Dr.P.R.Nemade	157424.00
RELIANCE IND. LTD./MARATHE	387810.00
RELIANCE IND. LTD./MATHPATI	108000.00
SPARC/Prof. Yadav, Lakshmi Kantam & Rathod	1000000.00
Stelis Bio Pharma Pvt.Ltd./ Dr.Ratnesh Jain	502910.00
S S Techno Ltd/Dr.Parag Gogate	129600.00
University of Leeds/S. Rajput/Prof.Pandit	5202391.00
UPL Limited/ Dr.C.S.Mathpati	2493190.00
Vinati Organics Ltd-2/Prof.Kantam & Dr.Rathod	1407720.00
Vinati Organics Ltd 3/ Prof. Kantam & Rathod	787320.00
Wipro Limited / Prof. A. B. Pandit	147876.00
Unilever Ltd. / Prof.Bhagwat & Prof.Waghmare	623700
OECT/continuation of Closed Loop-GDY	64701.00

Foods.

govt.

DBT/Developing A Mushroom Germplasm Bank/Prof.Lele	19700.00
DST/SERB/Dr.Kriti Kumari Dubey	918677.00
DST-SERB/Pulsed Light/Dr.Snehasis Chakraborty	724380.00
FSSAI/ Food Analyst Exam/ Dr. U.S.Annapure	111500.00

pvt.

Exotic Fruits Pvt Ltd./ Dr.U.S.Annapure	634500.00
KANCOR INGREDIENTS LTD./ANNAPURE	66960.00
Malaysian Palm Oil Board -Dr.Annapure & Dr.Waghmare	19408.00
MARICO LTD/Prof.R.S.Singhal	105000.00
RELIANCE IND. LTD./PROF. REKHA SINGHAL	189000.00
Shivanika Food Pvt.Ltd./Dr.S.Chakraborty	387500.00
Tata Chemicals Ltd./Dr.Shalini Arya	64800.00
U.S.Annapure (NewProject)	391500.00
ADITYA BIRLA S& T CO. P.LTD./PROF. ANNAPURE	831240.00

Chemistry

govt.

<i>CSIR/ DR.Anant R. Kapdi</i>	767416.00
<i>DAE/NEW-2018/Prof.B.M.Bhanage</i>	300685.00
<i>DST /FIST/Anant Kapadi</i>	2710180.00
<i>DST/Integrated Catalytic Processing/Prof. Bhanage</i>	1566000.00
<i>DST-SERB-Bond Formation/Dr.S.G.Dawande</i>	727870.00
<i>DST-SERB/Dr.P.M.More</i>	550000.00
<i>DST-SERB/Metal Catalyst/Dr.P.M.More</i>	600000.00
<i>UGC-FRP/ Start-Up Grant -Dr Anant Kapdi</i>	2054956.00
<i>DST-SERB/Metal Mediated/Dr.Anant Kapdi</i>	1200000.00

Pvt.

<i>Navin Fluorine Int. Ltd/Dr.Anant Kapdi</i>	756000.00
<i>STREM Chemicals. INC - Dr.Anant Kapdi</i>	33521.00
<i>Transasia Bio Medicals Limited/ Dr.Anant Kapdi</i>	226800.00
<i>Rasayan Inc / Dr Anant Kapadi</i>	990500.00

CEB**Govt.**

<i>DBT-CEB/Algal Chassis</i>	1703952.00
<i>DBT-CEB / BIOCARE</i>	1014783.00
<i>DBT-CEB/General A/c/Prof.A.M.Lali</i>	2465.00
<i>DBT-CEB-IGem Grant</i>	717930.00
<i>D.B.T./C.E.B/ Prof.A.M.Lali</i>	28911000.00
<i>DBT-CEB-Vitamin B12</i>	7709656.00
<i>DBT-CEB-Lupin Ltd</i>	252000.00
<i>DBT-CEB/Technology Transfer</i>	15717220.00

Pvt.

<i>Gencrest LLP / D.B. T/C.E.B/Prof A.M.Lali</i>	4599000.00
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Maths**govt.**

<i>UGC/FRP/Dr.Akshay Sakharam Rane</i>	1000000.00
<i>UGC FRP / Dr.Divya V.</i>	1600000.00

pvt.

oils

govt.

NMRL/Dr.A.P.Pratap / Dr.Sandeep Kale	70636.00
UGC/FRP- Dr.Pintu Kundu	1000000.00
DST/SERB/Dr.Pintu Kumar Kundu	400000.00

pvt.

Sarda Starch Pvt Ltd./Dr. Amit Pratap	724711.00
Sumwin Solutions Malaysia /Prof.R.D.Kulkarni	1246108.75
Synthite Industries Ltd./ Prof.R.D.Kulkarni	118528.00
RGC/Dr.Sandeep Kale & Dr. Amit Pratap	3737515.00
KEDIA ORGANIC CHEMICALS P. LTD./ Dr. A.P.Pratap	402616.00

dyes

govt.

CSIR-Dr.Satyajit Saha	657051.00
DAE/BRNS/ Dr. Surajit Some	509522.00
DST/Colored Florescent/Dr.N.Sekar	600000.00
DST/FIST/Dept of Dyestuff Technology	14900000.00
DST-SERB/Dr.N.Sekar / Dr.S.P.More	1100000.00
DST /SERB / Dr Surajit Some	133672.00
ONGC/Preparation of Graphene/Dr.Surajit Some	306781.00
ONGC/Recovery of Crude Oil/Dr.Surajit Some	402712.00

pvt.

Polymer

govt.

Naval Resarch Board/Prof.P.AMahanwar	901500.00
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pvt.

COVESTRO (I) P. LTD./MHASKE	1281800.00
Unilever Ltd. / Prof.Mhaske	1637551
Evonik India Ltd./Prof.R.N.Jagtap	597300.00
DORF KETAL CHEMICALS P. LTD./SABNIS	364500.00
Garware Polyester Ltd./Jagtap	154525.00
Lubrizol Advanced Materials (I) Pvt Ltd./Prof. S T Mhasake	1620000.00
John Dheere Pvt Ltd/Prof.P.A.Mahanwar	594000.00

Physics

govt.

<i>DST/MOF/Dr. Neetu Jha</i>	3306182.00
<i>DST/SERB/Dr. Paresh Hiralal Salame</i>	200000.00
<i>UGC/FRP/Dr. Aweesh Kumar Singh</i>	1000000.00
<i>DST-SERB/water Purification/Dr. Neetu Jha</i>	750000.00

Gen. Engg.

govt.

<i>DST/Waste Water Management/Dr. Dilip Sarode</i>	4070720.00
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List of Ongoing Research Project

Sr. No.	Faculty Name (PI)	Faculty Name (Co-PI)	Government / Private	Funding Agency	Project Title	Project start date	Project Duration	Total Funding
1	Amit Pratap	Vivek R Gaval	Government	RGSTC	Pilot study and Evaluation of green surfactant from nonedible/edible oil and treated oil seed meals	2016	5 years	4.00 CR
2	Prof. P. R. Vavia		Government	DSIR	Development of Controlled Release (CR) formulation of Natural Highly Purified Human Chorionic Gonadotropin (hCG)	6/12/2016	5 years	159.55 Lakhs
3	Prof. P. R. Vavia		Private	Nippon Synthetic Chemicals Ltd. Japan	Testing and evaluation of performance of NSC's proprietary materials	1/4/2019	31/3/20	15,000 USD
4	VAIDYA P. D.	None	Government	Centre for High Technology	Development of superior absorbents for CO ₂ separation from biogas	2019	2019-2022	8556000
5	VAIDYA P. D.	RATHOD V. K.	Government	Department of Science and Technology	Study on new green CO ₂ -capturing solvents	2019	2019-2022	5791000
6	VAIDYA P. D.	BHAGWAT S. S.	Government	Department of Science and Technology	Improved hydrogen production from biogas using sorption-enhanced reforming	2019	2019-2022	4062000

7	VAIDYA P. D.	RATHOD V. K.	Government	Department of Biotechnology	Catalytic aqueous-phase reforming of model compounds of microalgae and activated sludge	2019	2019-2022	5080000
8	VAIDYA P. D.	None	Government	TEQIP – III (CoEPI)	Hydrogen production from macroalgal biomass via catalytic aqueous-phase reforming	2018	2018-2021	710000
9	Dr. Suraji Some		Government	BRNS	Tunable laser properties of dye decorated graphene derivatives.	30-Jun-15	4 years	3,247,302
10	Dr. Suraji Some	Dr. Pushpito Ghosh	Private	ONGC	Development of spongy graphene material for recovery of crude oil from effluent water	25-Jul-18	15 months	1459000
11	Dr. Suraji Some		Private	ONGC	Development of graphene based supercapacitor employing improved protocols for preparation of graphene.	25-Jul-18	18 months	1470000
12	Dr. Suraji Some		Government	CSIR	Synthesis of graphene based bio adsorbent waste stream treatment	11-Dec-17	3 years	3008143
13	Manju Sharma (PI)	Annamma Anil	Government	DBT, India	Biphasic Fermentation for Triacyl Glycerol Production (TAG) from Pretreated Lignocellulosic biomass Hydrolysates Using	7/3/2017	Three years	40 Lakhs

						Mixed Microbial Cultures”				
14	Dr. Satyajit Saha	nil	Government	CSIR		Design and development of novel catalyst for enantioselective transformations	22nd April 2017	3 years	26,50,000	
15	Prof. Radha V. Jayaram		Government	DAE-BRNS		Synthesis of N,N-dialkyl-2-alkoxyacetamides extractants and N,N-dialkyl-2-alkoxyacetamides grafted resins for the separation of trivalent actinides from nitric acid medium and modeling of extractants	2017	3 years	27,16,800/-	
16	Prof. Radha V. Jayaram		Government	TEQIP-III		Green advantages of metallosurfactants in organic transformation-solubilisation, rate enhancement and product separation	2018	2 Year 3 Months	9,45,000/-	
17	Dr. Ravindra D. Kale		Government	TEQIP III		Color removal from textile effluent using emulsions	October 2018	2.5 years	10.75 lakhs	
18	Faculty Name (PI)	Faculty Name (Co-PI)	Government / Private	Funding Agency		Project Title	Project start date	Project Duration	Total Funding	
19	Pushpito K Ghosh	Pushpito K Ghosh	NaN	NaN		NaN	NaN	NaN	NaN	

20	Prof. Vandana B. Patravale	Prof. Vandana B. Patravale	Private	TAP Pharmaceuticals, AG, Switzerland	Development of ophthalmic drug delivery systems	24 months	35,62,500/-
21	Prof. Vandana B. Patravale	Prof. Vandana B. Patravale	Government	DBT-BIRAC	A Simple Colorimetric Diagnostic Technique for Novel Corona Virus Detection	8 months	18,00,680/-
22	Prof. Vandana B. Patravale, Dr. Vikrant Bhor (NIRRH)	Dr. Vainav Patel (NIRRH)	Government	DBT - BIRAC	Intranasal Mucosal Vaccine for COVID-19	24 months	47,69,224/-
23	Dr. B. P. Sreenivasa	Prof. Vandana B. Patravale	Government	SERB	Development and evaluation of a carrier based novel foot-and-mouth disease virus vaccine for non-parental delivery	36 months	6,85,000/-
24	Prof. Vandana B. Patravale	Prof. Vandana B. Patravale	Government	AICTE	Novel Multifunctional co-processed excipient(s) for solubility enhancement	36 months	7,00,000/-
25	Prof. Vandana B. Patravale	Prof. Vandana B. Patravale	Private	TRM, Ireland	Oral nutritional supplement for Newborn lambs	12 months	USD 16,100 (Approx. 1175831.30/- INR)

26	Prof. Vandana B. Patravale	Prof. Vandana B. Patravale	Private	Neo-Innova healthcare Limited	Development of prolonged action natural PMD insect repellent in gel formulation	11/30/2018	12 months	GBP 7500 (Approx. 748933.50/- INR)
27	Prof. Vandana B. Patravale	Prof. Vandana B. Patravale	Private	Godrej IND. Ltd.	Evaluation of novel biosurfactant		24 months	5,00,000/-
28	Prof. Shreerang V. Joshi	Prof. Sathaye as PI	Private	DST	DEM-AID: Innovative drug development against dementia'	5/3/2019	3 years	Rs. 36,84,240/-
29	Prof. A. W. Patwardhan		Government	DAE-ICT Centre	CFD Modeling of Assymmetric Rotating Disc Contactors	2015	3 yrs	58 Lakhs
30	Prof. J. B. Joshi	Prof. A. W. Patwardhan	Government	DAE-ICT Centre	Synthesis and modification of carbon nanotubes: modeling, experimentation and application	2015	3 yrs	54.3 Lakhs
31	Prof. A. W. Patwardhan		Government	IGCAR	Thermal Hydraulic Studies on Boiling in Long Vertical Tubes	2015	3 yrs	43.75 Lakhs
32	Prof. A. W. Patwardhan		Private	Unilever	Modeling of Kinetics of Infusion	2016	3 yrs	26.25 Lakhs
33	Prof. A. W. Patwardhan		Government	IGCAR	CFD study on the Effect of Various Geometrical Parameters of Honeycomb type orifices on Pressure Drop and Cavitation Characteristics	2019	1 yr	9.21 Lakhs

34	Paresh Salame	Nil	Government	Science & Engineering Research Board	Nanostructured NASICON, Eldfellite and layered oxides as potential cathode materials for Na-ion batteries	14-Sep-18	3 years	2,709,043
35	Paresh Salame	NII	Government	UGC BSR	Layered Lanthanide Perovskites, and Mixed Transition Metal Oxidebased nanostructured electrode materials for Supercapacitor application	27-Mar-19	2 Years	1,000,000
36	Dr. Aarti More	NA	NA	NA	NA	NA	NA	NA
37	Prof. S. T. Mhaske	-	Private	Lubrizol	Development of Themoplastic polyurethane	14-Feb-19	3 years	30,00,000/-
38			Private	Unilever Limited	Development of Plastic based Barrier Laminates	11-Aug-20	6 months	1756224
39	Dr. C. S. Mathpati	Prof. A. W. Patwardhan	Government	DAE-BRNS	Computational fluid dynamics and experimental study of fluidization of lithium titanate particles in fluidized and packed fluidized bed	10-Dec-14	December 2014 to January 2020	2101564
40	Dr. C. S. Mathpati	NA	Private	Reliance Industries Ltd.	Drop size distribution in liquid-liquid dispersion using static mixers	17-Aug-18	August 2018 to Nov 2019	2000000

41	Dr. C. S. Mathpati	Prof. A. W. Patwardhan	Government	SERB	Design and scale-up of impinging jet crystallizer using experimental and computational fluid dynamics	12-Jan-17	January 2017 to July 2020	1557410
42	Dr. Chandu S. Madankar		Private	M/s Global Innovation Investment	Development and optimization of enzymatic process for chicken manure fertilizer	Mar-20	1 Year	8.55 Lacs
43	Dr. Chandu S. Madankar		Private	Shree Ram Industries	Research and Development of value added products from Guar Seeds	Dec-20	3 Years	18 Lacs
44	Dr. Pintu Kumar Kundu	NA	Govt	DST-SERB	Azobenzene/Spiropyran-derived N-Heterocyclic Carbenes and their Transition Metal Complexes to Control Organic Transformations 'on Demand	October, 2016	3 years + 3 months (extension)	Rs. 33,20,000
45	Anant Ramakant Kapdi		Private	Navin Fluorine Int. Ltd.	Development of efficient synthetic route for the identified list of at least ten Trifluoro-methylated derivatives based commercially relevant molecules	Jan 2020- Dec 2020	1 year	10.0 L
46	Anant Ramakant Kapdi		Private	Rasayan Inc	Fluorination and Flow Chemistry Processes for	Jan 2020 to Dec 2021	2 year	20 L

55	Dr Annamma Anil	Gunjan Prakash	Government	BBSRC, United Kingdom	Enhancing cobalamin (vitamin B12) bioavailability in culturally foods in India	2019	2022	194 (Lakhs)
56	Parag R. Gogate		Government	Center for Process Intensification under TEQIP project	Intensified synthesis of Levulinic acid from sustainable feed stock	2018	2 years	20 Lacs
57		Parag R. Gogate	Government	Department of Science and Technology, Water Treatment initiative	Water and wastewater treatment using hybrid advanced oxidation processes	2019	3 years	74.48 lacs
58	Parag R. Gogate		Government	Department of Science and Technology, India-Ukraine collaboration	Hydrodynamic cavitation based intensified and low cost technology for industrial wastewater treatment containing toxic organic compounds and solid particles	2019	2 years	13.02 lacs
59	Parag R. Gogate		Government	Indian Rare Earths Limited	Treatment of Wastewater containing primary amines using novel approach of combined hydrodynamic cavitation and oxidation processes	2019	2 years	43.6 lacs
60	VG Gaikar		Private	BPCL	Selection of additive for DCU in refinery	Sep-15	4 years	30 lakhs
61	VG Gaikar		Private	BPCL	PhD fellowship	Sep-15	4	40 lakhs

62	VG Gaikar	private	BPCL	Selection and regeneration of ionic liquid for desulfurization of hydrotreating feed	Sep-15	4 years	30 lakhs
63	Dr. Prajakta Dandekar Jain	Government	DST-NANO BIO	Development of triple-layered nanofibrous bandage as a wound dressing material		36 MONTHS	99.7336 Lakhs
64	Dr. Prajakta Dandekar Jain	Government	BIRAC	Bioprinting of 3D skin in a microfluidic device for pre-clinical investigations		12 MONTHS	49.60 Lakhs
65	Dr. Sanghamitra Chatterjee	Government	DST	Nanomaterial Based Electrochemical Sensors for Biomedical Applications	25/08/2014	6 years	35,00,000
66	Prof. Padma V. Devarajan	Government	DBT-BIRAC	A Multiscale Approach to Combat the Mechanism of Antimicrobial Resistance through PPEF a known Topoisomerase IA Inhibitor	Apr-20	3	75,951,240
67	Prof. Padma V. Devarajan	Government	DST Prime Ministers Fellowship with Amaterasu Lifesciences	Long Acting Parenteral Depot Systems for Alzheimer's Disease	Mar-18	4	31,20,000
68	Prof. Padma V. Devarajan	Government	AICTE	Targeted Drug Delivery Nanosystems for Infectious Diseases	7/31/2019	3	None

							using In situ Nanotechnology			
69	Prof. Padma V. Devarajan	Prof. Mariam Degani	Government	Department of Atomic Energy (DAE-ICT)	Bioenhanced & Targeted drug delivery system of deuterated Mitocurcumin	10/15/2018	2		60,20,000	
70	Prof. Padma V. Devarajan		Private	Amaterasu Lifescience	Innovative Parenteral Formulation	Feb-18	3		24,80,000	
71	Prof. Padma V. Devarajan		Private	Amaterasu Lifescience	Innovative Parenteral Formulation	Dec-18	3		24,80,001	
72	Dilip D Sarode	Pushopito Ghosh	Government	DST	Mitigation of water problems in AUSA town, Latur: Wastewater management, Gaothan lake rejuvenation, Potable water production through desalination of lake water and Training of residents in matters of sanitation and water conservation	7/1/2017	3 years		1.978 CR	
73	Dawande S. G.		Government	DST	Ruthenium(II) Catalysis in C-6 Functionalization of Indoles: C-C and C-O Bond Formation	10/3/2017	4		39,00,000	
74	DR. SNEHASIS CHAKRABORTY		Govt.	Govt. Funded - DST-SERB, India	Pulse light Treatment of beverages from underutilized tropical fruit	29/03/2017	till 28/03/2020		Rs. 48.0877 lakh	

75			Govt.	Ministry of Food Processing Industry, Govt. of India	Integrated Processing of Beverages from Minor Tropical Fruits: Process Optimization and Shelf-Life Extension	19/12/2018	till 18/12/2021	Rs. 36.468 lakh
76	Bhanage Bhalchandra Mahadeo	A. Vijay	Government	Department of Science and Technology (International Multilateral Regional Cooperation Division)	Development of Fundamentals for integrated Catalytic processing of Biomass to fuels and value-added chemicals	4/2/2019	3 years	4,698,000
77	Bhanage Bhalchandra Mahadeo	Jayaram Radha Vijay	Government	Board of Research in Nuclear Sciences (BRNS)	Pd complexes with Hybrid Organochalcogen Ligands as Homogeneous Catalysts in C-C coupling Reactions	12/13/2018	3 years	3,141,150
78	Bhanage Bhalchandra Mahadeo	Jayaram Radha Vijay	Government	ICT-DAE Centre	Electrochemical Behavior of Uranium(III), Zirconium(IV) and Aluminium(III) Present in Room Temperature Ionic Liquids	4/1/2017	3 years	2,500,000
79		Dr. Annamma Anil Odaneth	International	DBT BIRAC Newton BHABHA	Economic non-food sugar from variable mixed solid waste for high value chemical products	5/9/2018	3 years	272.456

80	Dr. Annamma Anil Odaneth		International	BBSRC	Enhancing cobalamin (Vitamin B12) bioavailability in culturally appropriate foods in India	1/4/2019	2 years	331.17
81	Dr. Annamma Anil Odaneth	National	DBT India	DBT-ICT Centre for Energy Biosciences Phase-II	5/6/2013	7 years	1800	
82	Dr. Annamma Anil Odaneth	National	DBT India	Energy Biosciences Chairs and Fellowship	14/1/2009	11 years	1472.21	
83	Dr. Annamma Anil Odaneth	National	TEQIP	Improved green synthesis of PGPR	Oct-18	2.5 years	7.5	
84	Dr. Annamma Anil Odaneth	National	TEQIP	Production of sugar /phenolic fatty acid esters by biocatalyzed continuous processes	Oct-18	2.5 years	7.5	
85	Prof. Purnima D. Amin	Private	Cheryl laboratories Pvt. Ltd	Development of Personal care products	Jun-18	3 years	Rs. 6.5 lacs/ year	
86	Prof. Purnima D. Amin	Private	ICPA health products	Development of oral care products	Dec-18	3 years	Rs. 6.5 lacs/ year	
87	Prof. Purnima D. Amin	Private	Hindustan Unilever ltd	Development of clay pellets for toothpaste formulation	Jan-20	1 year	Rs. 7 lacs	
88	Prof. Purnima D. Amin	Private	Hindustan Unilever ltd	Understanding the science behind effervescent tablets for disinfection	Dec-19	1 year	Rs. 13 lacs	

89	Prof. Purnima D. Amin	Private	Lifescient INC	Development of veterinary formulations	Oct-19	3 years	Rs. 10 lacs
90	Pro.B.M.Bhanage Dr.A.Vijay Kumar	Govt	DST-BRICS	Development of fundamentals of integrated catalytic processing of biomass into fuels and value-added chemicals	May-19	3 years	50 Lakhs

Various MOUs signed by ICT

No.	Name of Company	Year in which it has signed	Validity period	Purpose	Departments
1.	Bharat Petroleum Corp. (BPCL)	March, 2000, Jan 2014 Aug 2015 Dec 2016 July 2018	20 yrs 1 yr 2 yrs	Collaborative research programmes Technology traisisrransfer for setting up of 2-G Biomass Ethanol Biorefinery at Bina,MP Student exchange programme	Department of Chemical Engineering DBT-ICT
2.	Bhabha Atomic Research Centre, Department of Atomic Energy, Govt. of India	Dec 2018 March, 2003 Dec 2015 March 2019	5 yrs 5 yrs. 5 yrs. 2 yrs	(a) Sponsored projects with 13 faculty of Chemical Engg. Dept. (b) Sponsored project entitled "Oxocatalysed Polyolefin Packaging Films for Environmental Degradation" under Prof R.N. Jagtap (c) Functional evolution and large scale production of Microbial Enzymes for applications in Textiles Industry under Prof R.V. Adivarekar	ICT Department of Chemical Engg Department of Polymer and Surface Engg Department of Fibres and Textile Processing Tech

3.	Homi Bhabha National Institute	April, 2007	5 yrs.		Department of Chemical Engineering and Department of Pharmaceutical Sciences and Technology
4.	Reliance Industries Ltd *	Feb 2007 Feb 2018 May 2018 August 2018	4 yrs 1 yr 12 April, 2019	Research project under Mrs. K.V. Marathe and Prof. V.K. Rathod Prof. B N Thorat Astaxanthin extraction using supercritical CO2 extraction	ICT
5.	Dow Chemical International Pvt. Ltd.	July, 2008 Oct 2016	3 yrs. 1 yr	Research project and visiting lectures	Department of Chemical Engineering
6.	Department of Biotechnology, Govt. of India	March, 2008 Feb 2015 Nov 2016 Dec 2018	5 yrs. 31 March 2018 31 March 2019	Establishment of "DBT-ICT Centre for Energy Biosciences"	Department of Chemical Engineering Department of Foods
7.	Queensland University of Technology, Australia	July, 2008	3 yrs.	Joint venture projects	DBT-ICT Centre for Energy Biosciences

8.	Department of Atomic Energy, Govt. of India	March 2008	10 yrs.	Establishment of "DAE-UICT Centre for Chemical Engineering Education and Research"	Department of Chemical Engineering
9.	University of Saskatchewan	March 2008	5 yrs.	Exchange of research programmes	DBT-ICT Centre for Energy Biosciences
10.	Borouge Pte Ltd.	July, 2009	2 yrs.	Scholarship for students	Department of Chemical Engineering and Department of Polymer and Surface Engineering
11.	International Centre for Genetic Engineering and Biotechnology, (ICGEB) New Delhi	Feb 2010	5 yrs.	Joint research programme	DBT-ICT Centre for Energy Biosciences
12.	Hindustan Petroleum Corporation Ltd. (HPCL)	May, 2010 Feb, 2016 Dec 2016 Sept 2017	5 yrs. 10 yrs. 2 yrs. 8 weeks	Supply of License and Basic Engg. Design Package (BEDP) for 2G bio ethanol Refinery at Bathinda	ICT DBT DBT
13.	Tata Chemicals Limited (2 projects)	Oct, 2009 May, 2010 Sept 2016	6 months 2 yrs. 2 yrs.		ICT

14.	Chemtrols Industries Limited (a) NDA (b) NDA (c) NDA	May, 2010		<p>Providing Engineering Services for preparing basic engineering design package (BEDP) for project based on patented technologies, for treatment of Municipal solid waste of ICT</p> <p>Engineering procurement and construction (EPC) of pilot plant for treatment of municipal liquid waste</p> <p>Construction and installation of modular algal cultivation system</p>	ICT DBT-ICT DBT-ICT DBT-ICT
15.	Lanxess India Private Limited	April, 2010	3 yrs.	Joint research programme	ICT
16.	Ishaan Industries	May, 2010		Exploit the paint developed by Ishaan Industries Ltd. by Professor R.N. Jagtap	Department of Polymer and Surface Engineering
17.	Deakin University, Australia *	2010	5 yrs.	Joint research programme	ICT
18.	Dystar India Pvt. Ltd	March, 2010	31 March, 2013	Joint research programme	Department of Fibres and Textile Processing Technology
19.	General Mills Operations LLC * (2 projects)	May, 2010	3 yrs.	Joint research programme	DBT-ICT Centre for Energy Biosciences

20.	Microsoft Corporation	2010	30 Sept 2012	Microsoft license agreement	ICT
21.	Indian Institute of Technology (IIT), Bombay	May, 2010	3 yrs.	Joint research programme	ICT
22.	NDA	Jan 2019	Jan 2022	Non-Disclosure agreement	DBT ICT
23.	Department of Atomic Energy, Govt. of India	May, 2010	3 yrs.		Department of Chemical Engineering
24.	TERI University	July, 2010	3 yrs.	Joint research programme	Department of Chemical Engineering
25.	Biotech Consortium India Limited	August, 2010	2 yrs.	Provide IPR related service to DBT-ICT Centre for Energy Bioscience	DBT-ICT Centre for Energy Biosciences
26.	Groupes Des Ecoles Des Mines (GEM)	Dec 2010-2013	3 yrs.		ICT
27.	University of Illinois at Urbana-Champaign	Oct. 2010	5 yrs.	Joint research programme	ICT
28.	Shri Kishore V. Mariwala - Professor J.B. Joshi Chair in Chemical Engineering	Oct. 2010		Professor J.B. Joshi Chair in Chemical Engineering	Department of Chemical Engineering
29.	University of Mumbai	Nov, 2010	3 yrs.	Promotion of University Research and Scientific Excellence (PURSE) programme of Department of Science and Technology (DST)	ICT

29.	Veermata Jijabai Technological Institute (VJTI)	Jan 2011	3 yrs.	Joint research programme	ICT
30.	Royal Melbourne Institute of Technology (RMIT)	Feb 2011 Jan 2018		Joint research programme	ICT
31.	University of Bradford	Feb 2011	5 yrs.	Joint research programme	ICT
32.	Sah Petroleums Limited (SPL)	Feb 2011	1 yr.	Research project	Department of Polymer and Surface Engineering
33.	University of British Columbia *	Feb 2011	5 yrs.	Joint research programme	ICT
34.	FRP Institute *	March, 2011			Department of Polymer and Surface Engineering
35.	Pidlilite Industries Ltd. (a) MOA	March, 2011 Jan 2019	 Jan 2020	Professor M.M. Sharma Distinguished Doctoral Fellowship Project entitled "On-shore cultivation of macroalgae at Bhavnagar, Dist.Gujarat"	Department of Chemical Engg DBT-ICT Centre for Energy BioSciences
36.	Aker Powergas Pvt. Ltd.*	May 2011	1 yr.	Engaging fresh engineering talent	ICT
37.	Ishaan Industries	May, 2011			Department of Polymer and Surface Engineering

38.	Eli Lilly and Co.	May, 2011	5 yrs.	PD ² programme under the supervision of Prof M.S. Degani	Department of Pharmaceutical Sciences and Technology ICT
39.	North-East Institute of Sciences and Technology *	May, 2011	3 yrs.		ICT
40.	Science Society for (Shri Vaibhav Tidke)	June, 2011	15 yrs.	License agreement	Department of Chemical Engineering
41.	Bombay Textile Research Association, Mumbai	June, 2011	5 yrs.	Collaborative Research programmes	Department of Fibres and Textile Processing Technology
42.	Merck Specialities Pvt. Ltd.	July, 2011 Dec 2016	2 yrs. 30 June, 2021	Appointment of Prof G.D. Yadav as member of the Advisory Board of Merck Specialities Pvt. Ltd.	ICT
43.	Bayer Crop Science Ltd.	July, 2011	31 July 2016	Scholarship to students	Department of Chemical Engineering
44.	Hindustan Insecticides Ltd.	July, 2011	3 yrs.	Studies on Alternatives to DDT : Synthesis of new Molecules, Toxicological studies and scale-up under the aegis of Ministry of Chemicals and Fertilizers	ICT
45.	Saffron Eagle Biofuels	Aug, 2011		Joint research programme	DBT-ICT
46.	Rashtriya Chemicals and Fertilizers Ltd. (RCF)	Oct, 2011	5 yrs.	Joint research programme	Department of Chemical Engineering

47.	South Illinois University, Edwardsville *	Nov, 2011	1 yr.	Joint research programme	ICT
48.	ONTARIO Universities International	Nov, 2011	5 yrs.	Student exchange programme	ICT
49.	Central Institute for Research on Cotton Technology	May 2012	5 yrs.	Joint research programme	Department of Fibres and Textile Processing Technology
50.	British Council India High Commission	Jan, 2012	31 Dec 2013	Project entitled "Process analytics enabled green technologies for processing of poorly soluble drugs"	ICT
51.	The University of Nottingham	Jan., 2012	5 yrs.	Material Transfer Agreement	DBT-ICT
52.	RCF Chair – of Chemical Engineering	March, 2012			Department of Chemical Engineering
53.	Queensland University of Technology, Australia	March, 2012 Feb, 2017	5 yrs. 5 yrs.	Collaborative research, projects, academic and scientific activities, etc.	ICT
54.	Bio-Rad Laboratories India Pvt. Ltd.	May, 2008 April, 2012	3 yrs. 3 yrs.	Joint research programme	DBT-ICT Centre for Energy Biosciences
55.	Wool Research Association, Thane	April, 2012	5 yrs.	Joint research programme	Department of Fibres and Textile Processing Technology

56.	M/s Sanzyme Limited (Formerly Uni-Sankyo Limited)	May, 2012	3 yrs.	Joint research programme	DBT-ICT Centre for Energy Biosciences
57.	Trilok Food India	July, 2012 Sept 2015	3 yrs. 5 yrs.	Project entitled "Holistic approach for commercial processing of fruits and vegetables grown in western Maharashtra" under the supervision of Prof S.S. Lele	Department of Food Engineering and Technology
58.	Triple Pee Solution Pvt. Ltd. *	July, 2012	3 yrs.	Project entitled "Holistic approach for commercial processing of fruits and vegetables grown in western Maharashtra" under the supervision of Prof S.S. Lele	Department of Food Engineering and Technology
59.	Akzo Nobel India Ltd. (ANIL)	Sept, 2012	3 yrs.	Awards to students of B.Tech. (Department of Polymer and Surface Engg Technology)	Department of Polymer and Surface Engineering
60.	Saife Vetmed Pvt. Ltd.	Nov., 2012 Oct 2016 Oct 2016	Duration of product life	Joint research programme	Department of Pharmaceutical Sciences and Technology
61.	Yokogawa, Middle East	Nov., 2012	1 yr.	Student training programme	ICT
62.	Privi Organics Pvt.	Nov., 2012 Sept 2018	Sept 2023	Sponsored Ph.D. research programme	DBT-ICT Centre ICT

63.	Coca Cola Ltd.	Nov., 2012	3 yrs.	Joint research programme	ICT
64.	CSIR-Central Drug Research Institute (CDRI)	Nov., 2012	5 yrs.	Exchange of scholars, professional staff members, exchange of students for study and research at both institutions, promotion of joint research projects in the field of interest, exchange of research materials and information's and joint conference/workshop courses.	ICT
65.	Homi Bhabha National Institute, Mumbai	Nov., 2012	4 April, 2017		ICT
66.	Indian Institute of Chemical Technology, Hyderabad	Nov., 2012	5 yrs.	Joint research programme	ICT
67.	National Environmental Engineering Research Institute (NEERI), Nagpur	Nov., 2012	5 yrs.	Joint research programme	ICT
68.	National Chemical Laboratory, Pune	Nov., 2012	5 yrs.	Joint research programme	ICT
69.	Shivaji University, Kolhapur	Nov., 2012	5 yrs.	Joint research programme	ICT

70.	India Glycols Ltd. Uttarakhand	April, 2009 April, 2009 Dec., 2012 Jan 2014 Nov 2017	5 yrs. 5 yrs. 2 yrs. 5 yrs.	Research project Procurement of equipment at Kashipur plant	DBT-ICT
71.	College of Engineering, Pune	Feb, 2013	5 yrs.		ICT
72.	GlaxoSmithKline Consumer HealthCare Ltd., Gurgaon	Nov., 2012	1 yr.	R&D development of GlaxoSmithKline Consumer HealthCare Ltd., Gurgaon NDA (Prof M.S. Degani)	ICT
73.	Ethiopian Textile Industry Development Institute (TIDI), Ethiopia	Oct 2018 Feb., 2013	2 yrs. 3 yrs.	Collaborative Research programmes	Department of Fibres and Textile Processing Technology
74.	Cellworks Research Pvt. Lt.	Feb., 2013	3 yrs.	Collaborative Research programmes	DBT-ICT
75.	Dr. Natar Prakash Scholarship (Avensa)	March, 2013	1 yr.		ICT

76.	Unilever Industries Pvt. Ltd.	April, 2013 Aug 2016 April, 2017 Dec 2017 Sept 2018 Oct 2018 Dec 2019	3 yrs. 3 yrs. 1 yr 1 yr 1 yr	Research collaboration Dr. A.W. Patwardhan Dr. P.D Amin project Prof. S.S. Bhagwat and Dr. J.S. Waghmare Dr. P.D. Amin	ICT
77.	Tata Chemicals Ltd. for "Darbari Seth Chair of Inorganic Chemical Technology Endowment"	May, 2013		Darbari Seth Chair of Inorganic Chemical Technology Endowment	Department of Chemical Engineering
78.	Shri V.V. Mariwala Chair in Chemical Engineering	Aug, 2007		Shri V.V. Mariwala Chair in Chemical Engineering	Department of Chemical Engineering
79.	Professor M.M. Sharma Distinguished Professor of Chemical Engineering	April, 2008			Department of Chemical Engineering
80.	Dr. R. A. Mashelkar Chair in Chemical Engineering	April, 2008			Department of Chemical Engineering

81.	Shri Narotam Sekhsaria Distinguished Professor of Chemical Engineering	April, 2008				Department of Chemical Engineering
82.	CSIR-Indian Institute of Petroleum (IIP)	May 2013 Aug, 2016	5 yrs.	Collaborative Research programmes	ICT	ICT
83.	Michigan State University, USA	June, 2013	5 yrs.	Collaboration for teaching and research activities Dual degree programme	ICT	ICT
84.	Washington State University, USA	Jan 2017 March, 2013	5 yrs.	Collaborative research	ICT	ICT
85.	North Maharashtra University, Jalgaon	June, 2013 March 2018	3 yrs. 5 yrs.	Collaborative research programmes	ICT	ICT
86.	Kirloskar Integrated Technologies Ltd.	July, 2013	3 yrs.	Research collaboration	ICT	ICT
87.	ADDIS ABABA Science and Technology University, Addis Ababa, Ethiopia	Sept, 2013	3 yrs.	Collaborative research programmes	Department of Fibres and Textile Processing Technology	Department of Fibres and Textile Processing Technology

88.	EID Parry (India) Ltd.	Oct, 2013	5 yrs.	Consultation for extraction of tomato Lycopene project	ICT
		Feb 2019	3 yrs	Project related to sugar production, alcohol production and algal technologies	DBT
89.	Queensland University of Technology, Australia	July, 2008 Nov., 2013	3 yrs. 5 yrs.	Joint PhD between QUT and the ICT	DBT-ICT Centre for Energy Biosciences
90.	Sir Dorabji Tata Reader in Pharmaceutical Chemistry	March, 2013		Sir Dorabji Tata Reader in Pharmaceutical Chemistry	Department of Pharmaceutical Sciences and Technology
91.	Institute of Science, Mumbai	Jan., 2014		Collaborative research programmes	ICT
92.	Universitat De Valencia (Spain)	Feb., 2014	4 yrs.	Academic relationships	ICT
93.	Glenmark Research Centre (Non Disclosure Agreement)	Feb., 2014 Aug 2019	Feb., 2024	NDA for research project under Dr. V.N. Teivekar Collaborative research programmes	Department of Pharmaceutical Sciences and Technology
94.	Reliance Technology Group (Non Disclosure Agreement)	Feb., 2014	1 yr.	Non Disclosure Agreement for research programme	ICT

95.	Tata Institute of Social Sciences	April, 2014	5 yrs.	Collaborative research programmes	ICT
96.	ONGC Energy Centre Trust	Oct, 2014	2 yrs.	Research project under the supervision of Prof G.D. Yadav	ICT
97.	Bursa Technical University, Turkey	Jan., 2015	Till 2019	Student and academic staff exchange programme	Department of Fibres and Textile Processing Technology
98.	Indian Oil corp. Ltd. (IOCL)	April, 2015 Nov. 2017	20 yrs.	Collaborative programme for industry interaction	ICT
99.	Asian Paints Ltd.	May, 2015 Oct, 2016	3 yrs. 4yrs.	Collaborative research project	Department of Polymer and Surface Engineering
100.	National Institute of Technology, Warangal	March, 2014	5 yrs.	Collaborative research programmes	ICT
101.	Kanoria Chemicals & Inds. Ltd.	Jan, 2015	2 yrs.	Collaborative research project	ICT
102.	Sinhagad Technical Education Society, Pune	January, 2014	5 yrs.	Collaborative research programmes	ICT

103.	Shri Mayur B. Khairat, DBT Centre	Nov., 2014				DBT-ICT Centre for Energy Biosciences
104.	Evonik Industries	Feb., 2014	5 yrs.	Collaborative research project		DBT-ICT Centre for Energy Biosciences
105.	Board of Research in Nuclear Sciences (BRNS), Bhabha Atomic Research Centre (BARC)	Nov., 2013	2 yrs.	Project entitled "Development of computer code to predict flux distribution on receiver surface of solar power test facility"		ICT
106.	MAS Fabrics Pvt. Ltd. & ICT	August, 2014	5 yrs.	Collaborative research project		ICT
107.	Coca Cola Company	June, 2014	3 yrs.	Joint research programme		ICT
108.	Dr. K.K.G. Menon Memorial Lecture Endowment	April, 2015				ICT
109.	Enhancement of the Endowment corpus of Bharat petroleum (BPCL) Distinguished Professorship in Chemical Engineering	Jan, 2015				Department of Chemical Engineering
110.	L'oreal India	June, 2013	5 yrs.	Students training programme		ICT
111.	ESSILOR R&D Centre, Singapore	Oct., 2014	2 yrs.	Joint research programme		ICT

112.	Agilent Technologies	May, 2009 Oct., 2013	3 yrs. 18 months	Collaborative research	Department of Pharmaceutical Sciences and Technology
113.	Zim Laboratories Ltd.	August, 2014	3 yrs.	Collaborative research under the supervision of Prof P.V. Devarajan	Department of Pharmaceutical Sciences and Technology
114.	DBT - M.Tech. Bioprocess Technology	July, 2013			ICT
115.	NDA Godrej Industries Ltd.	Feb., 2015	3 yrs.	Research and development	ICT
116.	Dr. Ramesh Y. Mantri Distinguished Masters Fellowship for Perfumery and Flavour Technology	January, 2015			Perfumery and Flavour Technology
117.	Central Pulp and Paper Research Inst (CPPRI)	June, 2015	5 yrs.	Research collaboration	ICT

118.	Dr. B.P. Godrej Dist Professor of Green Chemistry and Sustainability Engineering	June, 2015				ICT
119.	Evonik India Pvt. Ltd.	Aug 2015				ICT
120.	DBT approved project entitled "As anticancer agent ... for breast cancer" under Dr. Prajakta Dandekar Jain	Aug 2015	3 yrs.			Departme nt of Pharmace utical Sciences and Technolog y
121.	InNow LLC, USA	Sept 2015 Feb 2017 Jan 2018	3 yrs 5 yrs. 6 months			ICT
122.	Engineers India Ltd. (EIL)	Sept 2015	5 yrs.		Research collaboration	ICT
123.	NDA Dr. Rupali Walia	Sept 2015	Till services of Dr. Wallia		Appointment as Overseas Research Fellow	ICT
124.	NDA Mr. Abhinandan P. Dhavale	Sept 2015	Till services of Mr. Dhavale		Appointment as Process Engineer	ICT
125.	Yashwant Group of Industries	Oct 2015			Collaborate in different areas of research, process and product development	ICT
126.	Shri Tradco India Pvt. Ltd.	Oct 2015			Collaborate in different areas of research, process and product development	ICT
127.	Marathi Vigyan Parishad	Nov 2015	5 yrs.		To develop technologies for the welfare of society and to develop scientific temper in the areas of mutual interest	ICT

128.	Essilor International, Singapore	Nov 2015	1 yr.	Research project to develop blue dye and UV absorber compatible with CR-39 system	Department of Dyestuff Technology
129.	University of Petroleum and Energy Studies, Dehradun	Dec 2015	3 yrs.	Collaborative research, teaching, and outreach	ICT
130.	NDA- Siemens Ltd.	Dec 2015	2 yrs.	Project with deliverables defined for optimization chemical process/unit operations using advanced control philosophy	ICT
131.	Dr. Hedgewar Smruti Sewa Prkalp, Sawantwadi	Jan 2016	2 yrs.	RGSTC supported "Wine production unit - Microbrewery Demo Plant"	ICT
132.	Pt. Deendayal Petroleum University, Gandhinagar	Jan 2016	3 yrs.	Cooperative activities like research, Faculty Training, Students Internship, Joint Ph.D program, Teaching and outreach	ICT
133.	Resonance Specialties Ltd.	March 2016	3 months	Research project	ICT

134.	<p>Aditya Birla Group</p> <p>(a) Sponsored Research Agreement</p> <p>(b) Industry Academics Interaction</p> <p>(c) Senior Research Doctoral Fellowship</p> <p>(d) Non-Disclosure Agreement</p> <p>(e) Research project</p> <p>(f) Non-Disclosure Agreement</p> <p>(g) Project agreement</p> <p>(h) Project agreement</p> <p>(i) Project agreement</p> <p>(j) Project agreement</p> <p>(k) Project agreement</p>	<p>April 2016</p> <p>Oct., 2017</p> <p>Feb, 2018</p> <p>Aug 2018</p> <p>August 2018</p> <p>March 2019</p> <p>July 2019</p> <p>Aug 2018</p> <p>Nov 2019</p>	<p>3 yrs.</p> <p>6 months</p> <p>3 years</p> <p>1 yr</p> <p>Aug 2021</p> <p>Feb 2019</p> <p>Sept 2019</p> <p>Jan 2020</p> <p>April 2020</p> <p>Jan 2020</p>	<p>Sponsored Research Agreement</p> <p>Industry Academics Interaction</p> <p>Senior Research Doctoral Fellowship</p> <p>Project titled "Evaluation of advanced technologies for waste water treatment of Aditya Birla Group's plant"</p> <p>Project titled "Waste water treatment' under Prof AB Pandit</p> <p>Project titled "Application of dietary fibres (Soluble and Insoluble) in bakery products"</p> <p>Application of dietary fibers (Soluble and Insoluble) in bakery products</p> <p>Application of dietary fibers (Soluble and Insoluble) in bakery products</p> <p>Analysis of dietary fibers : Prebiotic and other relevant study to evaluate the dietary fibers properties</p> <p>Application of dietary fibers (Soluble and Insoluble) in bakery products</p> <p>Analysis and development of cost effective methods for producing polymers used in wall putty with desired properties project under Prof S.T. Mhaske</p>	ICT
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135.	(a) Hindustan Unilever Industries Pvt. Ltd. (b) Hindustan Unilever Industries Pvt. Ltd. (SSB) (c) Hindustan Unilever Industries Pvt. Ltd. (STM) (d) Hindustan Unilever Industries Pvt. Ltd. (RVA) (e) Hindustan Unilever Industries Pvt. Ltd.	April 2016 May 2016 March 2017 May, 2018 Sept 2018	1 yr. 1 yr. 1 yr. 1 yr. 6 mths	Project entitled "Oil-water interfacial tension of Polymerized oils in presence of surfactants" Project entitled "Detergent Powders Laundry" Project entitled "Bio Polymers for responsible growth" To evaluate efficacy of the natural dye formulation as Hair Dye In-vitro skin deposition studies FITC labelled protein	ICT
136.	Johnson and Johnson Pvt. Ltd.	April 2016	5 yrs.	Research project titled "Development of Novel Stimuli Responsive Delivery System" under Prof P.R. Vavia	ICT

137.	Maladi Drugs and Pharmaceuticals Ltd. (a) and (b)	April 2016	18 months	Collaborative R&D project entitled "Dynamic Kinetic Resolution of D-Ephedrine to L-Ephedrine" Collaborative R&D project entitled "Process intensification of existing catalytic process for synthesis of phenylpropanol-amine and development of novel catalyst for higher yield"	ICT
138.	Curtin University of Technology, Australia	May 2010 May 2016	3 yrs. 3 yrs.	Collaborative research	ICT
139.	Marico Ltd.	June, 2016	5 yrs.	R&D programmes	ICT
140.	Central Institute of Plastic Engg. and Tech. (CIPET)	Dec 2019	Dec 2020	Sponsored programme under Prof RS Singhal	ICT
141.	Harvard College, USA (a) (b)	June, 2016	5 yrs.	Cooperative activities in research, and exchange of faculty and research scholars.	ICT
142.	Privi Biotechnologies Pvt. Ltd.	July, 2016	3 yrs.	Collaborative research	ICT
		July 2018 March 2019	7 months 1 yr.	Collaborative research Collaborative research	
		August, 2016	1 yr.	Fat Modification Technology project	ICT
143.	Queens University of Belfast	Oct 2016	3 yrs.	Student and academic staff exchange programme	ICT

144.	Maharashtra Rajya Marathi Vishwakosh Nirmiti Mandal, Mumbai	May 2016	3 yrs.	Updation of Marathi Vishwakosh in Engineering and Technology	ICT
145.	Hebrew University of Jerusalem	Oct, 2016	5 yrs.	Student and academic staff exchange programme	ICT
146.	Tel Aviv University	Oct 2016	5 yrs.	Collaboration for teaching and research activities	ICT
147.	University of Manchester	Nov 2016	3 yrs.	Research, education, the application of scientific knowledge in the broad area of chemical engineering and materials	ICT
148.	Synthetic and Art Silk Mills' Research Association (SASMIRA)	Nov 2016 July 2017	5 yrs. 5 yrs.	Collaborative programs	ICT
149.	Jubilant Life Sciences Ltd.	Sept 2016	Sept 2018	Evaluating, validating and using ICT's proprietary Technology & Know How as well as process for establishment of pilot and commercial plants at Jubilant's manufacturing units	ICT
150.	Gencrest LLP	Nov 2016	3 yrs.	Business Relationship relating to the Enzymes business in India	ICT
151.	Bermaco Consulting LLP	Nov 2016	1 yr.	Joint development project on consultancy for supply of Biomass fuel for pilot and commercial plants	ICT
152.	Novozyme	Aug, 2010		Sample request agreement	DBT
153.	PepsiCo International	April 2008	5 yrs.	Non-disclosure agreement regarding "Developing, manufacturing, packaging and marketing snack and other food products"	DBT

154.	Resindion S.r.l., Italy	March 2005	3 yrs.	R&D on "Investigation of relative non-specific binding on Sepabeads protein adsorbents for all types and functionalities of resins	DBT
155.	Mitsubishi Chemical Corp, Japan	Feb 2007 April 2019	April 2020	Research programme under Prof. P.R. Vavia	DBT Pharma
156.	Godavari Biorefineries Ltd	Dec 2016 May 2017 Sept 2018	1 yr. 3 yrs	R&D in Biotechnology, Chemistry, Polymer chemistry and Sugar conversion Non Disclosure agreement Project entitled "Use of molasses as draw solution in forward Osmosis application of specific interest to Godavari Bio-refineries and exploration of associated opportunities for innovation"	ICT
157.	Lactose India Pvt.Ltd.	Jan 2017	2 yrs.	Technology transfer in the area of specification of Lactulose of pharma grade	ICT
158.	ICAR-Central Institute of Fisheries Education (CIFE)	Jan 2017	2 yrs.	Technology transfer in the area of medical and pharmaceutical grade of chitosan	ICT
159.	University of Aix Marseille	Feb 2017			ICT
160.	Mangalore Refinery and Petrochemicals Ltd. (MRPL)	Feb 2017	5 yrs.	Evaluation, validation and use ICT's Proprietary Technology developed at the DBT-ICT Centre	ICT

161.	Abhay Nutrition Pvt.Ltd.	Aug 2016	3 yrs.	Pilot level scale up of the process Technology for manufacture of abiosurfactant and processed meals as an ingredient(a project funded by Rajiv Gandhi science and technology Commission RGSTC of Govt. of Maharashtra)	ICT
		Sept 2018	5 yrs	Sponsored Ph.D. research programme	
162.	Science for Society Techno Services Pvt.Ltd. (S4S)	March 2017	4 yrs.	Support Project Work of PhD students in Polymer and Surface engineering discipline	ICT
163.	Amaterasu Lifesciences (a) Amaterasu Lifesciences	March 2017 Oct 2018	3 yrs.	Research in health care industry under Prof Padma Devarajan Arteether-Lumefantrine depot injection developed	ICT
164.	Equinox Environments (I) Pvt. Ltd.	May, 2017	2 yrs.	To promote and enhance scientific and academic co-operation and interaction between ICT and EEIPLin mutually beneficial areas and to work jointly on environmental projects	ICT
165.	Raj Petrospecialities Pvt.Ltd.	May, 2017	1 yr.	To-develop natural esters for use as dielectric and heat transfer material in electrical equipment such as transformers	ICT

166.	L&T Hydrocarbon Engineering Ltd.	May, 2017	10 yrs.	To provide services for process license, technology know how, Basic and detailed Engineering, procurement, Construction (EPC) or Engineering, Procurement and Construction Management (EPCM) and if required Operation and Maintenance (O&M) services of plants based on the DBT-ICT 2-G Ethanol Technology in domestic and International markets	ICT
167.	National Institute of Pharmaceutical Education and Research (NIPER), Guwahati	June, 2017	5 yrs.	Teaching, research and training in selected and advanced thrust areas in science & technology	ICT
168.	INDO Amines Ltd.	May 2017	1 yr .	to discuss on products Manufactured by INDO Amines Ltd (IAL), and present working Projects of the Technology and products developed by IAL during the discussion IAL shall share with ICT information with respect to the Product, Projects and Manufacturing process developed by IAL	ICT
169.	Hindustan Aeronautics Ltd.	July 2017	7 months	Development of NDT methodology for Monitoring Health of Glue Joint and supply of test procedure documentation, specification of Equipment/test set up along with source of supply	ICT
170.	Gencrest LLP	July 2017	2 yrs.	Contemplating a Business Relationship relating to the Enzymes business in India	ICT
171.	Kesar Petroproducts Ltd.	July, 2017	3 yrs.	Non disclosure agreement	ICT
172.	Foundation for Environment Monitoring (FFEM), Bangalore	August, 2017	5 yrs.	Collaboration of joint Govt. proposals	ICT

173.	Thinkstep Sustainability Solutions Pvt Ltd	Oct., 2017	5 yrs.	Joint research collaboration	ICT
174.	Savitribai Phule Mahila Ekatmata Samaj Mandal & Science for Society Technoservices Pvt. Ltd.	August, 2017		Heat based cold storage unit for agriculture products	ICT
175.	Dongguk University College of Engineering, Korea	Nov, 2017	5 yrs.	Student and academic staff exchange programme	ICT
176.					
177.	Sigma Corp.	Nov. 2017	3 yrs.	NDA proposal titled "Energy Efficient Gear Oils and/or De-aromatization of Kerosene Oil without Acid Treatment"	ICT
178.	Aban Infrastructure Ltd., Chennai	Nov. 2017	3 yrs.	NDA proposal titled "Single cell oil production from waste oils using oleaginous yeasts for oleochemical and other novel application"	
179.	Asian Research Network Korea, Korea	Nov. 2017	3 yrs.	Collaborative relations in all aspects of basic science, engineering and technology research and development	ICT
180.	Nippon Synthetic Chemical Industry, Japan	July, 2017	9 months	Research programme on "Testing of PVA-OKS-5065, PVA-KH-20 and PVA EG-48 CRM Polymers for sustained release polymer performance"	ICT-Professor PR Vavia
181.	Kaust, Saudi Arabia	Dec 2017	April-June, 2018	CRF-CRG 2017 Project titled "Exploring the origins of hydrophobic interactions via ultrasensitive force spectroscopy and first principles calculations"	ICT
182.	Technip India Ltd.	Dec 2017	Dec 2027	2G-Ethanol Technology – support for methodology for implementation of the project	DBT-ICT
183.	University of Newcastle	Feb 2018	Feb 2023	Design and development of advanced catalytic materials for various organic and petrochemical transformations	ICT

184.	UDCT 1968 B.Chem.Engg. alumni project	Feb 2018	Nov 2018	Upgradation of Chemical Engineering Lab	ICT
185.	SUMWIN Solutions, Malaysia	Feb 2018	Feb 2023	Research project	ICT
186.	Indofil Industries Ltd.	Feb 2018	Feb 2028	Project of PhD students from Department of Pharmaceutical Sciences and Technology	ICT
187.	Prova Technotrade Pvt. Ltd (NDA)	Dec 2017	Dec 2020	Research project	ICT
188.	Novozymers Group Entity	Jan 2018	Jan 2020	Disclosure and sampling agreement	DBT-ICT
189.	NDA Wipro Foundation	August 2019 Feb 2018	August 2021 Feb 2021	Disclosure and sampling agreement Research collaboration	ICT
190.	Kumar Metal Industries, Thane	March 2018	March 2023	Research collaboration	ICT
191.	Synthite, Kolenchery, Kerala	March 2018	March 2023	Research collaboration	ICT
192.	FINBIZ Integration Adviors LLP, Mumbai (a) FINBIZ Integration Adviors LLP	May, 2018 Aug 2018	May 2020 May 2020	Municipal waste treatment technology at DBT-ICT Extension of earlier MOU	ICT
193.	NDA D.G. Ruparel College	May, 2018	May, 2019	Technology for isolating Ulvan from Green Seaweeds	DBT-ICT
194.	NDA Hudson Robotics, USA	June 2018	June 2021	Automation of Biomass QC process and related Technology and Knowhow	ICT
195.	EdCIL (India) Ltd, Noida	April 2018	March 2019	Study in India Programme of MHRD	ICT
196.	NDA Reliance Industries Ltd.	March 2018	Sept 2018	Explore possibility use supercritical CO ₂ extraction facility of University by Reliance to extract and quantify lipid soluble pigments from algae biomass	ICT

197.	Confederation of Indian Industry (CII), Miss Sonam V. Sancheti and Asian Paints Ltd.	Jan 2017	Dec 2020	Prime Minister's Fellowship Scheme for Doctoral Research	ICT
198.	IIT-Kharagpur	June 2018	June 2023	Campus for ICT - Indian Oil Odisha Campus, Bhubaneswar	ICT
199.	Aditya Birla Science and Technology Co Pvt. Ltd.	July 2018	July 2023	Sponsored Ph.D. Research agreements	ICT
200.	NDA TOYO Engineering India Pvt Ltd	April 2019	Oct 2019	Sponsored Research project under Dr. Parag Gogate	DBT-ICT
201.	NDA TATA Lauren Engineers and Constructors	July 2018	July 2028	2G ethanol technology	DBT-ICT
202.	NDA Punj Lloyd Ltd.	July 2018	July 2028	2G ethanol technology	DBT-ICT
203.	NDA Fluor Engineering Corp.	July 2018	July 2028	2G ethanol technology	DBT-ICT
204.	Aston University, UK	July 2018	July 2023	2G ethanol technology – Modelling and Life Cycle Analysis (LCA)	DBT-ICT
205.	OCT Therapies and Research Pvt. Ltd., Mumbai	July 2018	July 2020	Collaboration for Advanced wound care products	DBT-ICT
206.	DSM India Pvt. Ltd.	July 2018	July 2021	To develop a coating using DSM polymer from its speciality product range for special application	ICT
207.	Homi Bhabha National Institute	July 2018	July 2023	Education and research – academic programmes	ICT
208.	University of Newcastle, Australia	Sept 2018	Sept 2023	Dual degree programme	ICT
209.	ONGC Energy Centre Trust	July 2018	Dec 2019	Research project under Dr. Surajit Some	ICT

210.	(a) Covestro (I) Pvt. Ltd. (b) Covestro (I) Pvt. Ltd. (c) Covestro (I) Pvt. Ltd.	Aug 2018	July 2020	Warming and insulation for open poultry sheds (VHD) PU-PCM Cold storage (STM) PU AS Flame Retardant (BNT)	ICT
211.	Adya Innovationz Pvt. Ltd.	Sept 2018	Sept 2028	Technology sharing for designing, fabricating and marketing of dairy milk chilling	ICT
212.	Mangalam Organics Ltd	Sept 2018	Sept 2019	Project under Dr. Parag Gogate entitled "Development of improved process for (i) Synthesis of catalyst and subsequent use for isomerization of pinene to T+C, (ii) Desulfurization of TO"	ICT
213.	Merck Ltd.	Oct 2018 Nov 2018	Sept 2021	Project title "Improve the bioavailability of Vitamin B12" under Prof P.D. Amin and Prof S. Sathaye Termination of agreement for Masters fellowships to Pharmaceutical girl students	Department of Pharmaceutical Sciences and Technology
214.	Excel Industries Ltd.	Aug 2018	Aug 2023	Technologies for cultivating and harvesting of seaweeds on-shore and off-shore platforms at DBT-ICT	ICT
215.	Shiksha 'O' Anusandhan Deemed to be University (SOADU), Bhubaneswar, Odisha	Oct 2018	Oct 2023	Academic interactions with SOADU	ICT
216.	GP Petroleums Ltd	Oct 2018	Oct 2023	Research Project	ICT
217.	Mettle Innovations, Pune	Nov 2018	Nov 2021	Research project on maternal and child nutrition	ICT
218.	Lupin Ltd.	Nov 2018	Nov 2019	Development of SMB separation technology for vital molecules	DBT-ICT

219.	Zetex Biotech Pvt. Ltd.	December 2018	December 2023	Molecular Biology, Industrial Biotechnology and Agricultural Biotechnology	ICT
220.	The Woolmark Company, Australia	December 2018	December 2021	Wool Science, Technology and Design Education Programme	Department of Fibres and Textile Processing Technology, ICT
221.	NDA Roquette Asia Pacific Pte. Ltd., Singapore	December 2018	December 2020	Research collaboration related to "Synthesis of Pseudo affinity adsorbent and evaluation of the adsorbent application into Bio separation and purification"	ICT
222.	Rajshree Sugars and Chemicals Ltd., Coimbatore	December 2018	December 2023	Collaboration of technologies	DBT-ICT Centre for Energy BioSciences
223.	Pyramid Consulting Engg. Pvt. Ltd., Thane	December 2018	December 2023	Collaboration of technologies	DBT-ICT Centre for Energy BioSciences
224.	Gexcon India Pvt. Ltd., Pune	January 2019	January 2024	Develop Centre of Excellence	ICT
225.	Shimadzu Analytical India Pvt Ltd.	January 2019	January 2024	Sponsored Ph.D. research agreement	ICT
226.	A-1 Fence Products Co. Pvt. Ltd.	February 2019	February 2022	Research project entitled "To develop a polymer based composite to be filled in the Hollow tubes of a Fence system"	ICT
227.	VAV Lipids Pvt. Ltd.	February, 2019	February 2021	Research project	ICT
228.	NDA Midad Chemical Co. Ltd., Saudi Arabia	January, 2019	January, 2021	Research project	ICT
229.	Aether Industries Ltd., Surat	March 2019	March 2024	Sponsored Ph.D. research agreement – 2 students for 4 years	ICT

230.	Sun Pharma Advanced Research Co. Ltd.	Feb 2019	Feb 2025	Sponsored Ph.D. research agreement	ICT
231.	Cleanchem Laboratories LLP	March 2019	March 2024	Sponsored Ph.D. research agreement	ICT
232.	Aarti Industries Ltd.	April 2019	March 2023	Sponsored Ph.D. research agreement	ICT
233.	Sairaj Trade Link	May 2019	May 2020	Housekeeping of ICT campus and its buildings	ICT
234.	Serum Institute of India Pvt Ltd	May 2019	May 2022	PhD research project	ICT
235.	ICPA Health Products Ltd	Jan 2019	Nov 2019	Research project	ICT
236.	RGSTC and Kolhapur Zilla Sahakari Duddh Utpadak Sangh (Gokul)	May 2019	--	ICT-Gokul Technology – milk chilling project with Prof S.S. Bhagwat	ICT
237.	Usak University, Turkey	July 2019	July 2024	Meviana Exchange Programme – Student exchange programme	ICT
238.	Aspectech International Development Research Foundation, Mumbai	July 2019	July 2021	Collaborative programme	DBT-ICT
239.	OC Specialities Pvt. Ltd. (OCSPL), Mumbai	July 2019	July 2024	PhD research programme under Dr. G.U. Chaturbhuj	ICT
240.	Maharashtra Inst of Tech Aurangabad with ICT-Jalna	Aug 2019	Aug 2024	Collaborative programme	ICT, Jalna
241.	Confederation of Indian Industry (CII), Mr. Manoj J. Dev and HiMedia Laboratories Pvt. Ltd., Mumbai	Jun 2019	June 2023	Prime Minister's Fellowship Scheme for Doctoral Research	ICT

242.	University of Castilla-La Mancha, Spain	Aug 2019	Aug 2023	Collaborative programme	ICT
243.	Sahyadri Shikshan Santa's Gonvindrao Nikam College of Pharmacy, Sawarde	Aug 2019	Aug 2024	Collaborative programme	ICT
244.	Cyber Security Corp., Pune	Aug 2019	July 2020	Cyber Security related Training faculties and students	ICT
245.	NDA Infirita Biotech Pvt. Ltd., Vadodara	Aug 2019	--	Non Disclosure Agreement	DBT – ICT
246.	Assam Royal Global University, Assam	Sept 2019	Sept 2024	Collaborative research programme	ICT
247.	Enzene Biosciences Ltd., Pune	Aug 2019	Aug 2029	Collaborative research programme with Dr. Ratnesh Jain	ICT
248.	Guru Gobind Singhji Institute of Engineering and Technology, Nanded	October 2019	October 2024	Academic research exchange programme	ICT all campuses
249.	Matsyodari Shikshan Sanstha, Jalna	October 2019	October 2024	Academic research exchange programme	ICT, Jalna campus
250.	CRU Hungary Ltd, Hungary	September 2019		Collaborative research project under Indo-Hungarian Inter-Governmental Science and Technology programme with Dr. Sathana Sathye	ICT
251.	BLDE, (Deemed to be University), Vijayapura, Karnataka	Oct 2019	Oct 2014	Academic research exchange programme	ICT
252.	Permiconics Membranes Pvt. Ltd., Vadodara	Aug 2019	Aug 2029	2 G Ethanol Technology	DBT-ICT
253.	Richcore Lifesciences Pvt. Ltd., Bangalore	Aug 2019	Aug 2021	Collaborative research	ICT

254.	University of Limerick, Ireland	October 2019	October 2019	Research collaboration	ICT
255.	(a) BR Specialities LLP, Sonapat, Haryana (b)	October 2019 October 2019	October 2020 October 2020	Research project "Research and Dev of Speciality Chemicals using Biotechnology" under Prof R.V. Adivarekar Research project "Development of Speciality Chemicals" under Prof R.V. Adivarekar	ICT ICT
256.					
257.	Kelvion India Pvt Ltd, Pune	October, 2019	October 2029	Construction of Heat Exchanger	DBT-ICT
258.	S. Amit & Co., Mumbai	November, 2019	November, 2022	Indo-UK project "Economic nonfood sugar from variable mixed and solid waste for high value chemical products"	DBT-ICT
259.	Defiant Renewables Pvt. Ltd., Pune	August, 2019	March, 2022	Indo-UK project "Economic nonfood sugar from variable mixed and solid waste for high value chemical products"	DBT-ICT
260.	NDA Texol Engineers Pvt. Ltd.	October 2019	October 2021	Exchange of information and possible future collaboration	DBT-ICT
261.					
262.	NDA Akseera Pharma Corporation	September 2019	October 2022	Project "Designing a suitable route(s) for synthesis of drug intermediate(s)" under Prof G.U. Chaturbhuj	ICT
263.	Precision Wires India Ltd.	November 2019	November 2022	Research Project under the supervision of Dr. Anagha Sabnis	ICT
264.	Central Institute of Technology, Kokrajhar	November 2019	November 2024	Research project collaboration	ICT
265.	J.B. Joshi Research Foundation	December 2019	December 2024	Develop technologies for the welfare of society	ICT
266.	Sabic Research and Technology Pvt Ltd., Bangalore, Karnataka	March 2019	March 2024	Research collaboration	ICT

267.	Indian Rare Earths Ltd. Technology Development Centre, Odisha	November, 2019	November, 2021	Project "Treatment of wastewater containing primary amines using novel approach of combined hydrodynamic cavitation and oxidation processes"	ICT
268.	Lifescient, Inc., Nevada Corp., USA	August 2019	March 2020	Research project Prof. P.D. Amin and Prof. Sathana Sathaye	ICT
269.	Rasayan Inc., California, USA	Dec 2019	Dec 2021	Research project under Dr. Anant Kapdi	ICT
270.	Sion Hospital	Jan 2020		Medical facility for faculty, support staff and students	ICT
271.	Navin Fluorine International Ltd.	Jan 2020	Jan 2021	Development of efficient synthetic route for the identified list of atleast ten Trifluoro methylated derivatives based commercially relevant molecules under Prof. Anant Kapdi	ICT

Faculty Awards and Honors

1. Professor G.D. Yadav, Vice Chancellor was honoured with Honorary Doctorate of Engineering at NIT, Agartala on November 9, 2019
2. Professor G.D. Yadav, Vice Chancellor was elected as President of Indian Chemical Society and has taken charge on November 14, 2019
3. Professor R V Adivarekar was admitted as “Hon. F.T.A. (Fellow of the Textile Association)” for his contribution to the textile industry and association at 74th All India Textile Conference held at Coimbatore in December 2018 of The Textile Association (India). Apart from Professor M.D. Teli, he is the only faculty from ICT to receive this honor.
4. Professor M. Lakshmi Kantam has been selected for the most coveted ICC D. M. Trivedi Lifetime Achievement Award for the year 2018 for her Contribution to Indian Chemical Industry (Education & Research). It will be conferred on her on 27th September, 2019.
5. Professor Vandana Patravale has been selected for Dr. (Mrs.) Manjushree Pal Memorial Award for the Best Pharmaceutical Scientist-2019.
6. India Section of International Academy of Cardiovascular Sciences is recognizing the efforts towards developing affordable and innovative drug eluting stents (presently being marketed in 60+countries by Sahajanand Medical Technologies Pvt Ltd) by conferring Kukreja Oration Award to Professor (Mrs.) Vandana B. Patravale in a Conference which will be held in Feb 2020 at the Delhi Pharmaceutical Sciences & Research University.

Faculty Awards and honors

Sr. No.	Faculty Name	Award/Honor Name	Awarded by	State/National/International Level	Govt / Pvt	Month (Year)
1	Gaval VR	Member of International Committee of the SPE Mold Technology Division	University of Massachusetts	International	Pvt	Oct-20
2	Gaikar VG	PC Ray Memorial Lecture	Institution of Engineers(I)	National	Pvt	Sep-19
3	Gaikar VG	Eminent Engineer	Institution of Engineers(I)	National	Pvt	Sep-19
4	Gaikar VG	Distinguished Speaker	UPES, Deradun		Pvt	Feb-20
5	Gogate PR	UGC Mid Career award	University Grants Commission	National	Govt	2020
6	Gogate PR	Mention in the Top 2% Scientists in the world in the area of Chemical Engineering (first in India)	Stanford University	International	Pvt	2020
7	Prakash Gunjan	EMBO Travel Grant	European Molecular Biology Organizatio (EMBO)	International	Govt	Jul-19
8	Kundu Pintu Kumar	Resource person to teach teachers in their Refresher Course	UGC HRDC, University of Mumbai	National	Govt	Nov-19
9	Mathpati C S	Moksgagundam Vishweshwarayya Engineering Award 2019	Marathi Vidnyan Parishad	National	Pvt	Sep-19
10	Kharkar PS	Newton Bhabha Researcher Links Workshop 2019	British Council, UK	International	Government	Nov-19

11	Thorat BN	Member, Expert Group of Doctors and Scientists to advise Government on Prevention, Containment and Clinical management of COVID-19 in odisha	Govt. of odisha	State	Govt.	2020
12	Thorat BN	Lifetime Achievement	Taylor and Francis, USA	International	Private	2019
13	Thorat BN	International Advisory/ Scientific Member	Nordic Baltic Drying Conference	International	Private	2019
14	Thorat BN	International Advisory/ Scientific Member	Asia Pacific Drying Conference	International	Private	2019
15	Thorat BN	Life fellow	Indian Chemical Society	National	Private	2020
16	Thorat BN	Fellow of Maharashtra	Fellow of Maharashtra Academy of Sciences (FMASc)	State	Private	2020
17	Patravale VB	Life Fellow	Indian Chemical Society	National	Pvt.	October (2020)
18	Patravale VB	Kukreja Oration Award	India Section of International Academy of Cardiovascular Sciences	National	Pvt.	February (2020)

19	Patravale VB	Dr. Manjushree Pal Memorial Award for the best Pharmaceutical Scientist	Association of Pharmaceutical Teachers of India (APTI)	National	Pvt.	October (2019)
20	Saha SS	Indian Chemical Society Research Excellence Award	Indian Chemical Society	National	Pvt	Aug-20
21	Saha SS	American Chemical Society journal award	American Chemical Society and Indian Chemical Society	National	Pvt	Dec-20
22	Saha SS	INSc Research Excellence award	Institute of Science	National	Pvt	Dec-19
23	Singhal RS	FIBA (Fellow of International Biotechnology Association)	International Biotechnology Forum	International	Pvt	Aug-19
24	Some S	Research Fellow Fellowship	GIST, South Korea	International	Govt	Feb-20
25	Trivedi N	Visiting Scientist	Univeristy of Algarve, Portugal	International	Government	Jan-19
26	Vavia PR	Best Teacher Award	Institute of Chemical Technology	Institute level	Pvt	Mar-20

Placement Information (2019-20)

Sr. No.	Roll number	Student's name	Company Name	Package
1	15DYE1008	Saily Bhagwat	BYJU's	5
2	16DYE107	Ketan Gawande	Sudarshan Chemical	4
3	16DYE108	Khushal Agarwal	MBA	
4	16TXT102	Amritha T	Colorband Dyestuff (P) Ltd.	3.8
5	16TXT103	Anjali Swami	BYJU's	6
6	16TXT110	Likhit Malvade	Chemistar InternediatePvt. Ltd.	
7	16TXT121	Purvaja Raut	Ninjacart	5
8	16TXT127	Ronak Jain	Chemistar InternediatePvt. Ltd.	
9	16TXT128	Samartha Wanikar	Chemistar InternediatePvt. Ltd.	
10	16TXT133	Suyash Singhai	Ninjacart	5
11	16TXT135	Vinay Patel	BR Specialities,	3.6
12	16FET101	Akshaykumar Koradiya	Alfa Laval	6.5
13	16FET110	Sanket Vanare	Alfa Laval	6.5
14	16FET114	Sourabh Joshi	Vanita agrochem pvt ltd	6
15	16FET116	Vimi Kuwlekar	BYJU's	5
16	16OIL104	Gaurav Singh	Alfa Laval	
17	16OIL114	Saurabh Hadke	Yasho Industries	4
18	16OIL117	Siddhant Pandey	KRISHNA ANTIOXIDANTS PVT LTD.	5.5
19	16PHT111	Nikita Mujoria	Anmol Chemicals	6
20	16PHT115	Ravi Makani	ZCL Chemical Ltd	
21	16PHT117	Saipriyanka Komma	Sciative solutions	
22	16POL101	Adesh Jalatkar	LOTTE UBE SYNTHETIC RUBBER SDN BHD	
23	16POL105	Bhairavi Tidke	Bajaj Auto Ltd.	
24	16POL112	Prathamesh Chaudhari	Bajaj Auto Ltd.	
25	16POL114	Sakshi Raut	Bajaj Auto Ltd.	
26	16POL117	Shubham Bangar	Bajaj Auto Ltd.	9.08
27	16SUR102	Abhishek Dhanapune	Bajaj Auto Ltd.	9.08
28	16SUR103	Aditya Apte	Asian Paints	
29	16SUR106	Gandhar Soman	Kansai Nerolac Paints Ltd.	5

30	16SUR113	Shreyas Pathak	Bajaj Auto Ltd.	9.08
31	16SUR114	Shubham Patil	Kansai Nerolac Paints Ltd.	5
32	16SUR115	Tejal Nirgude	Kansai Nerolac Paints Ltd.	5
33	16PHA107	Avni Shah	ZS Associates	7
34	16PHA115	Pintu Rathod	Lupin	
35	16PHA125	Sushil Bondre	Lupin	
36	14CHE1062	Rohan Parlikar	Ninjacart	5
37	15CHE187	Rupanshi Anand	ACG World	
38	16CHE101	Aadesh Bhakkad	Aditya Birla	
39	16CHE102	Aagamkumar Khandor	Sailife	6.5
40	16CHE104	Abhinav Handu	LARSEN & TOUBRO LIMITED	
41	16CHE105	Aditi Sawant	Thermax	
42	16CHE106	Aditya Phad	Galaxy Surfactants Limited	5
43	16CHE108	Akshay Patil	Alfa Laval	6.5
44	16CHE109	Amitej Rao	DFPCL	6.25
45	16CHE112	Amrut Bagdi	Reliance Industries Ltd.	9
46	16CHE113	Aniket Murumkar	Savita Oil Technology	
47	16CHE114	Aniket Pote	Flour	
48	16CHE116	Ankit Gaikwad	Alfa Laval	6.5
49	16CHE117	Anu Deshmukh	DFPCL	6.25
50	16CHE119	Ashish Tangade	BASF	10
51	16CHE121	Avinash Nayak	Jayant Agro	
52	16CHE122	Bharthi Ponrathnam	Aarti Industries Ltd.	
53	16CHE123	Bosco	HPCL	
54	16CHE124	Kaustubh Rane	Honeywell	7
55	16CHE126	Darshana Malusare	Deccanchemicals	10
56	16CHE129	Dnyanesh Sarawate	GATE	
57	16CHE131	Gaurav Mampally	Alfa Laval	6.5
58	16CHE133	Harshada Gabhale	Biocon	
59	16CHE135	Kaushal Kaloo	Reliance Industries Ltd.	9
60	16CHE136	Keith Dsouza	GEP	8
61	16CHE139	Malhar Mankar	Technip India Limited	
62	16CHE140	Mihir Kulkarni	Hikal	6.5
63	16CHE141	Monik Magiya	Aarti Industries Ltd.	8.5
64	16CHE142	Naman Joshi	Jubilant Life Sciences	8.5

65	16CHE144	Nayantara Pradhan	MBA	
66	16CHE145	Ninad Khelukar	Fluor	6.8
67	16CHE146	Nishant Pardeshi	Sudarshan Chemicals	4
68	16CHE148	Prathamesh Bolaj	Biocon	
69	16CHE149	Pujit Juneja	Mcdermott	6
70	16CHE150	Raunak Balkote	Aditya Birla	
71	16CHE152	Rounak Naryani	ZS Associates	
72	16CHE153	Saagar Gandhi	GEP	8
73	16CHE154	Saaksshi Tenpe	Sailife	6.5
74	16CHE156	Sahil Khatavkar	Tata consulting Engineers Ltd.	
75	16CHE157	Sai Nazare	Galaxy Surfactants Limited	5
76	16CHE159	Shalaka Dhande	HPCL	
77	16CHE160	Shital Suryavanshi	Aditya Birla	
78	16CHE162	Shivani Bisen	LARSEN & TOUBRO LIMITED	
79	16CHE164	Shriram Chavan	Jubilant Life Sciences	8.5
80	16CHE165	Shubham Shinde	DFPCL	6.25
81	16CHE166	Shubham Ravan	Jubilant Life Sciences	8.5
82	16CHE167	Shubham Adarkar	Biocon	
83	16CHE176	Vaishnavi Honavar	Aker Solutions	6
84	16CHE177	Vartul Jain	ZS Associates	
85	16CHE181	Vishal Kumar	GEP	8
86	18TXT201	Akhil Anand Jasani	Trident Ltd., Ludhiana	12
87	18TXT203	Harshal Patil	Arvind Ltd.	5.75
88	18TXT209	Ram Devendra Agrawal	BR Speciality, Delhi	4.5
89	18TXT211	Shivangi dwivedi	Trident Ltd., Ludhiana	15
90	18TXT213	Sangramsinh Shankarrao Salunkhe	BR Speciality, Delhi	4.5
91	18FET210	Nachal N	ITC Ltd. (PPO)	
92	18FET214	Shubham Mishra	VKL Foods (Food Services India Pvt. Ltd.)	
93	18FET217	G Vigneshwaran	Evalueserve	7
94	18FET218	Kavya Sood	Mondelz (PPO)	
95	18OIL211	Shailesh Shingade	KRISHNA ANTIOXIDANTS PVT LTD.	5.5
96	18PHT202	Irfan Dastgir Manulla	Mylan	
97	18PHT203	Jagdish R. Jadhav	Alkem Laboratories Ltd.	3.2

98	18PHT205	Maya Chandrakant Mali	Mylan	
99	18PHT207	Mrudula Prakash Waghmare	Mylan	
100	18PHT210	Sanjay Malge	Naproad Life Sciences	
101	18PHT211	Shivani Gokul Bhokare	Harman Finocem Ltd Aurangabad	3.5
102	18PHT212	Shritesh Dinanath Jagtap	Mylan	
103	18PHT213	Shweta Shivpal Singh	Biocon	
104	18PHT215	Supriya Ruprao Morey	Mylan	
105	18PHT216	Suyog S. Pande	Essentia Life Sciences	6
106	18PHT217	Tamilselvan V.	Biocon	
107	18POL208	Md Rizwan	Clarivate Analytics	
108	18POL209	Mrunalini M. Padole	HPCL-Mittal Energy Ltd	8.05
109	18POL210	Pawan Narendra Gawali	Industrial project fellowship	
110	18POL215	V K Suriya	HPCL-Mittal Energy Ltd	10.35
111	18SUR201	Akash Borkar	Samrat Chemicals	9
112	18SUR203	Ashutosh Prakash Patil	JSW Paints	6
113	18SUR213	Praveen Kumar M	Jsw paints pvt. Ltd	6
114	18PHC201	Nachiket Narendra Dandekar	Dr. Reddy's Laboratories	
115	18PHC202	Divya Rane	Dr. Reddy's Laboratories	
116	18PHC203	Rashmi Sahu	Dr. Reddy's Laboratories	5.5
117	18PHC204	Anannya Sircar	Enzene	
118	18PHM203	Neha Ramesh Pai	Dr. Reddy's Laboratories	
119	18PHP201	Shridhar Pandurang Divate	Dr. Reddy's Laboratories	
120	18PHP202	Shruti Uday Lohakare	Dr. Reddy's Laboratories	
121	18PHP203	Pankaj Gupta	Dr. Reddy's Laboratories	
122	18PHP204	Mahesh Dattatray Mengade	Dr. Reddy's Laboratories	6
123	18CHE201	Akash Gupta	Galaxy Surfactants Limited	6
124	18CHE202	Akshay Prabhakar	Aker Solutions	6.6
125	18CHE204	Apoorva Pandey	Worleyparsons	5.5
126	18CHE205	Avni Singh	Honeywell	7
127	18CHE206	Ayush Mittal	Sailife	7
128	18CHE207	Aniket Shankarrao Bonde	Thermax	
129	18CHE208	Debolina Deb	Technip India Limited	

130	18CHE209	Brijesh Desai	Jayant Agro	
131	18CHE210	Gurdev Singh	Worleyparsons	5.5
132	18CHE211	Harshad Dattatray Awari	thyssenkrupp Industrial Solutions (India) Private Limited	5
133	18CHE212	Jayashri Yadav Shahare	Biocon	
134	18CHE213	Satyanarayana Kodavatiganti	Sailife	7
135	18CHE214	Ashish Arvindbhai Kundaliya	Tata consulting Engineers Ltd.	
136	18CHE215	Mahammadkhan Rustamkhan Pathan	Aker Solutions	6.6
137	18CHE216	Mohit Chandrashekhar Jagtap	Galaxy Surfactants Limited	6
138	18CHE217	Shaikh Mohsin Ahamad	Biocon	
139	18CHE218	Naman Kukreja	Worleyparsons	5.5
140	18CHE219	Narendran Sunildutt	NIVEA India Pvt. LTd.	9.09
141	18CHE220	Raj Dilip Musale	LARSEN & TOUBRO LIMITED	
142	18CHE221	Rohit Maheshwari	Honeywell	7
143	18CHE223	Saransh Mogha	LARSEN & TOUBRO LIMITED	
144	18CHE224	Shwet Sunny	thyssenkrupp Industrial Solutions (India) Private Limited	5
145	18CHE226	Vijay Ashok Bhange	thyssenkrupp Industrial Solutions (India) Private Limited	5
146	18CHE227	Vinaypriy Maroti Wane	Biocon	5
147	18CHE228	Vipul Gupta	Toyo Engineering India Pvt Ltd.	
148	18CHE229	Viral Rahangdale	thyssenkrupp Industrial Solutions (India) Private Limited	5
149	18CHE230	Chhayendri Lokhande	Honeywell	7
150	18BPT201	Aadesh Dhamdhare	Enzene	
151	18BPT202	Ajit Kotkar	Lupin Ltd.	5.5
152	18BPT203	Akshita Angirishi	Lupin Ltd.	5.5
153	18BPT204	Anand Gupta	Biocon	
154	18BPT205	Bhagyashree Kajarekar	Enzene	
155	18BPT206	Divya Achal	Biocon	
156	18BPT207	Divyani Pal	Enzene	
157	18BPT208	Eram Fatima	Syngene	
158	18BPT210	Muskan Malhotra	Enzene	

159	18BPT211	Reshma Dharade	Syngene	
160	18BPT212	Rohit Kumar	Biocon	
161	18BPT213	Shailesh Bharti	Serum Institute	
162	18BPT214	Sneha Kulthe	Module innovations	
163	18BPT215	Suraj Sharma	Enzene	
164	18BPT216	Tara Poduval	Enzene	
165	18BPT217	Velpur Sai Krishna	Biocon	
166	18BPT218	Vijaya Tashildar	Vitaliz Biosciences	3
167	18BPT219	Vishal Vadnal	Syngene	
168	18BPT220	Yashi Rastogi	Lupin Ltd.	5.5
169	18BPT221	Yuvarajan M.	Lupin Ltd.	5.5
170	18GRT201	Akash Ravindra Shiledar	Biocon	5
171	18GRT203	Himanshu Singh	Biocon	5
172	18GRT208	Sarvesh Arun Parlikar	Biocon	5
173	18GRT209	Sriram Sankar	Biocon	5
174	18GRT210	Supriya Sunil Mane	Biocon	5
175	18GRT214	Tejal Hreshwar Dive	STEP consulting Pvt. Ltd., Mumbai	
176	18GRT207	Karthik Somashekar Sathanur	Biocon	5
177	18PER202	Amol Ugalmugale	Pitambari Products Pvt Ltd,Thane	4.05
178	18PER212	Radhika Sonawane	IFF	
179	18FBT205	Mona Arun Kokwar	VKL Foods (Food Services India Pvt. Ltd.)	6
180	18FBT206	Shruthy Seshadrinathan	Biocon	
181	18FBT208	Varad Pradeeprao Bende	ITC Ltd. (PPO)	
182	18PBT201	Khushboo Maurya	Biocon	
183	18PBT202	Nitin Rawat	Enzene	4
184	18PBT203	Prachi Bansal	Biocon	5.23
185	18PBT205	Shubham Saini	Enzene	4
186	18PBT206	Sushant Jadhav	Enzene	4
187	18PBT207	Vijay	Biocon	
188	18CHY201	Ahana Rawat	Anmol Chemical	
189	18CHY209	Maansi Nagpal	School teacher	
190	18CHY212	Mrunali Mahadik	Pure Synth Chemicals	

191	18CHY215	Rajat Gaikar	Godrej Industries Ltd.	
192	18CHY221	Siddhi Patil	Zydus Cadilla	
193	18MAT204	Gayatri S. Adhav	Upthink Experts	4.5
194	18MAT206	Kapildev Pandey	ACC Limited (Internship)	3
195	18MAT215	Shweta Ramesh	ACC Limited (Internship)	3
196	18MAT218	Urbi Datta	eClerx	6.4
197	18MAT219	Vinaya Uttam Deshmukh	eClerx	6.4
198	18PHY201	N Parthasarthy	I R Technology Services Pvt. Ltd.	5.5
199	18TXP210	Shaimah Shamshadullah Khan	WhiteHat Jr	5.5
200	18TXP211	Sheetal Atmaram Mishra	Decathlon Sports India Pvt. Ltd.	6.5

Higher Studies information (2019-20)

Sr. No.	Roll number	Student's name	Company Name	Package	Remark
1	16CHE107	Akash Nogaja	Purdue	\$31000pa	Ph.D
2	16CHE110	Amogh Nagarkar	ETH Zurich		MS in Process Engg
3	16CHE115	Anirudh Venkatesh	Purdue University	\$31000pa	Ph.D
4	16CHE118	Ashin Sunny	OSU	\$30000pa	Ph.D
5	16CHE120	Asmee Prabhu	NTU Singapore	\$2000 pm	Ph.D
6	16CHE125	Chinmay Mhatre	University of Pittsburgh	\$30000PA	Ph.D
7	16CHE127	Dhiraj Jain	Rice University - Systems, Synthetic and Physical Biology	\$32000PA	Ph.D
8	16CHE128	Dishit Ghumra			
9	16CHE130	Eashaan Godbole	GaTech	\$27090pa	Ph.D
10	16CHE132	Gautami Kelkar	NC State University	\$29000pa	Ph.D
11	16CHE134	Kalash Pai			
12	16CHE147	Ojaswi Rathi	UC Berkeley		MS Chemical PDP
13	16CHE151	Razeen Shaikh	Texas A&M University	\$2300PM	Ph.D
14	16CHE161	Shivani Kulkarni	Rensselaer Polytechnic Institute	\$31344pa	Ph.D
15	16CHE163	Shreekant Gokhale	University of Illinois at Urbana-Champaign		MSIE
16	16CHE169	Snehal Patil	OSU	\$30000pa	Ph.D
17	16CHE170	Sreejith Nair	University of Minnesota	\$32000pa	Ph.D
18	16CHE171	Surabh KT	The City College of New York	\$35000pa	Ph.D
19	16CHE175	Suyog Shaha	Harvard	\$38916pa	Ph.D
20	16CHE179	Vidit Shah	University of Washington, Seattle		MS in Chemical Engineering
21	16CHE182	Yash Budhe	University Of Pennsylvania		MS
22	18CHY222	Sonam Shivtarkar	Ph.D. position in ICT-IOC Bhubanewar	35000 per month	

23	18CHY220	Sanjay Sridhar	Temple University	25000 dollars	
24	18MAT202	Abhishek V. Nigudkar	Metropolitan Institute of Technology and Management (MITM), Oros, Sindhudurg, Maharashtra.		
25	18PHY204	Sanika Padelkar	Joint-PhD at Indian Institute of Technology-Bombay (IIT Bombay) and Monash University, Australia.	4.68	
26	18TXP202	Aksha Ganesh Patil	Currently enrolled for a diploma course at SASMIRA		
27	18TXP213	Shruti Sanjay Joshi	Currently enrolled for a diploma course at SASMIRA		
28	18TXP212	Shritu Sedunath Menon	Currently applying for MS and PHd programmes at foreign universities and awaiting the results		
29	18TXP214	Sujaan Satish Kaushik	Preparing for GATE		
30	18TXP215	Supriya Sanatkumar Sarkar	Currently working as Project Assistant under Dr. Sandeep More at ICT Mumbai		

Passed out Students Information (Doctoral students)

Sr. No.	Roll No.	Name of the Students	Degree and Branch	Name of Research Guide
1	12FET4001	Rupesh Balkrishna Tupe	Ph.D (Tech) - Food Engineering and Technology	Laxmi Ananthanarayan
2	12BIT4010	Ashlesha Narendra Bhagwat	Ph.D (Sci) - Biotechnology	Uday Annapure
3	14CHE4020	Prerana Dnyanoba Tomke	Ph.D (Tech) - Chemical Engineering	Virendra Rathod
4	14CHY4030	Dipti Prakash Wagh	Ph.D (Sci) - Chemistry	Ganapati Yadav
5	14GRT4010	Shamraja Selwadasan Nadar	Ph.D (Tech) - Green Technology	Virendra Rathod
6	14CHE4036	Harshwardhan Arvind Kulkarni	Ph.D (Tech) - Chemical Engineering	Channamallikarjun Mathpati
7	14TXT4004	Geetal Atul Mahajan	Ph.D (Tech) - Fibres and Textiles Processing Technology	Ravindra Adivarekar
8	13CHE4036	Shailendrasingh Prakash Rajput	Ph.D (Tech) - Chemical Engineering	Bhaskar Thorat
9	13POL4001	Chandan Ashokrao Fuke	Ph.D (Tech) - Polymer Engineering and Technology	Prakash Mahanwar
10	15BIT4005	Sneha Shrirang Sathe	Ph.D (Sci) - Biotechnology	Sanjeev Chandrayan
11	13CHE4025	Wadilal Rohidas Rathod	Ph.D (Tech) - Chemical Engineering	Virendra Rathod
12	12PHP4019	Yadav Nisha Ramraj	Ph.D (Tech) - Pharmaceutics	Pradeep Vavia
13	14SUR3001	Ravindra Vilas Gadhave	Direct Ph.D (Tech) - Surface Coating Technology	Prakash Mahanwar
14	15CHY4011	Valmik Pandurang Jejurkar	Ph.D (Sci) - Chemistry	Satyajit Saha
15	16POL401	Vinayak Mahadev Kamble	Ph.D (Tech) - Polymer Engineering and Technology	Prakash Mahanwar
16	16POL406	Rohit Shivaji Tarade	Ph.D (Tech) - Polymer Engineering and Technology	Prakash Mahanwar
17	12PHP4014	Prasad Ashok Pofali	Ph.D (Tech) - Pharmaceutics	Ratnesh Jain
18	15BIT4002	Ashu Srivastav	Ph.D (Sci) - Biotechnology	Prajakta Dandekar Jain
19	13CHY4027	Suraj Vasantrao Yadav	Ph.D (Sci) - Chemistry	Virendra Rathod
20	13PHP4001	Mahendrakumar P. Prajapati	Ph.D (Tech) - Pharmaceutics	Pradeep Vavia
21	14GRT4003	Devendra Shriram Pisal	Ph.D (Tech) - Green Technology	Ganapati Yadav
22	13PHP4014	Sharwari Bhagwat Ghodke	Ph.D (Tech) - Pharmaceutics	Ratnesh Jain
23	13BIT4009	Uday Bhalchandra Koli	Ph.D (Sci) - Biotechnology	Prajakta Dandekar Jain
24	13CHE3001	Chandrakant Sharad Bhogle	Direct Ph.D (Tech) - Chemical Engineering	A. Pandit
25	12PHP4015	Amit Girishkumar Mirani	Ph.D (Tech) - Pharmaceutics	Vandana Patravale

26	14CHE4033	Manali Babu Kokare	Ph.D (Tech) - Chemical Engineering	Channamalikaijun Mathpati
27	14GRT4017	Saurabh Krishna Patil	Ph.D (Tech) - Green Technology	Ratnesh Jain
28	14TCH4002	Jadhav Nilesh Chandrakant	Ph.D (Sci) - Textile Chemistry	Ravindra Kale
29	13PHL4002	Vaibhavi Vijay Peshattiwar	Ph.D (Tech) - Pharmacology	Sadhana Sathaye
30	15CHE4004	Niraj Jayant Kulkarni	Ph.D (Tech) - Chemical Engineering	Channamalikaijun Mathpati
31	13TCH4004	Ashwini Anant Patil	Ph.D (Sci) - Textile Chemistry	Ravindra Adivarekar
32	14SUR4004	Ganesh Anil Phalak	Ph.D (Tech) - Surface Coating Technology	Shashank Mhaske
33	14TXT4003	Saptarshi Maiti	Ph.D (Tech) - Fibres and Textiles Processing Technology	Ravindra Adivarekar
34	15OIL4003	Rohan Suresh Mestri	Ph.D (Tech) - Oils Oleochemicals and Surfactants Technology	Amit Pratap
35	13TCH4007	Latika Bhatt	Ph.D (Sci) - Textile Chemistry	Ravindra Kale
36	13TXT4005	Pallavi Vishwas Madiwale	Ph.D (Tech) - Fibres and Textiles Processing Technology	Ravindra Adivarekar
37	14GRT4004	Harshada Mohan Salvi	Ph.D (Tech) - Green Technology	Ganapati Yadav
38	13CHE4039	Palash Kumar Mollick	Ph.D (Tech) - Chemical Engineering	A. Pandit
39	14CHY4028	Dewal Sureshrao Deshmukh	Ph.D (Sci) - Chemistry	Bhalchandra Bhanage
40	15CHY4018	Hitesh Kumar Singh	Ph.D (Sci) - Chemistry	Shashank Mhaske
41	13CHE4038	Shivanand Mallappa Teli	Ph.D (Tech) - Chemical Engineering	Channamalikaijun Mathpati
42	13TCH4005	Trupti Irranna Sutar	Ph.D (Sci) - Textile Chemistry	Ravindra Adivarekar
43	14CHE4028	Swapnil Ashok Ghungrud	Ph.D (Tech) - Chemical Engineering	Prakash Vaidya
44	15CHY4006	Rahul Vijay Khose	Ph.D (Sci) - Chemistry	Surajit Some
45	12PHP4008	Ronak Subodhkumar Bhuptani	Ph.D (Tech) - Pharmaceutics	Vandana Patravale
46	14GRT4013	Amol Bhanudas Raut	Ph.D (Tech) - Green Technology	Bhalchandra Bhanage
47	14OIL4002	Nikita Sunil Wanjari	Ph.D (Tech) - Oils Oleochemicals and Surfactants Technology	Jyotsna Waghmare
48	15CHY4013	Vinayak Vishwas Gaikwad	Ph.D (Sci) - Chemistry	Bhalchandra Bhanage
49	13PHP4016	Darsheen Jitendrabhai Kotak	Ph.D (Tech) - Pharmaceutics	Padma Devarajan
50	15CHE4028	Pooja Diwakar Thanekar	Ph.D (Tech) - Chemical Engineering	Parag Gogate
51	15BIT4007	Priya Achhelal Upadhyay	Ph.D (Sci) - Biotechnology	Arvind Lali
52	13FET4004	Pravin Rajkumar Bhushette	Ph.D (Tech) - Food Engineering and Technology	Uday Annapur

53	13CHE4026	Zakir Husain	Ph.D (Tech) - Chemical Engineering	A. Pandit
54	13GRT4016	Yogesh Pandit Palve	Ph.D (Tech) - Green Technology	Neetu Jha
55	14TCH4005	Tejasvi Ajit Potdar	Ph.D (Sci) - Textile Chemistry	Ravindra Kale
56	14OIL4001	Asma Dadasha Fakir	Ph.D (Tech) - Oils Oleochemicals and Surfactants Technology	Jyotsna Waghmare
57	14PHT4008	Tousif Ayyub K	Ph.D (Tech) - Pharmaceuticals Technology	Purnima Amin
58	10ps407S061182	Kumudini Baba Lokhande	Ph.D (Sci) - Chemistry	Sunil Bhagwat
59	15CHY4026	Jyoti Prakash Ambre	Ph.D (Sci) - Chemistry	Parag Nemade
60	14TCH4006	Sushant Shivaji Pawar	Ph.D (Sci) - Textile Chemistry	Ravindra Adivarekar
61	13PHP4005	Mrunal Unmesh Patil	Ph.D (Tech) - Pharmaceuticals	Pradeep Vavia
62	12CHY4009	Dharmendra Shriram Prajapati	Ph.D (Sci) - Chemistry	Anant Kapdi
63	14PHT4014	Bandoo Chhagan Chatale	Ph.D (Tech) - Pharmaceutical Chemistry	Mariam Degani
64	15GRT4002	Jagruti Vijay Jadhav	Ph.D (Tech) - Green Technology	Amit Pratap
65	12PHP4004	Ganesh Bhalchandra Shevalkar	Ph.D (Tech) - Pharmaceuticals	Pradeep Vavia
66	12PHT4006	Mihir Pramod Khambete	Ph.D (Tech) - Pharmaceutical Chemistry	Mariam Degani
67	13PHT4006	Trupti Kashinath Khatal	Ph.D (Tech) - Pharmaceuticals Technology	Ganesh Chaturbhuj
68	14CHE4024	Pranav Hemant Nakhate	Ph.D (Tech) - Chemical Engineering	Kumudinee Marathe
69		Subhash Ganesh Ingle	Ph.D (Tech) - Pharmaceuticals Technology	Pradeep Vavia
70	12PHP4001	Mayank Rameshchandra Patel	Ph.D (Tech) - Pharmaceuticals	Pradeep Vavia
71	13FDS4003	Madhura Pramod Janve	Ph.D (Sci) - Food Science	Rekha Singhal
72	14PHP4006	Dilipkumar Gangadharrao Suryawanshi	Ph.D (Tech) - Pharmaceuticals	Purnima Amin
73	14SUR4002	Nakula Shekhar Bhutad	Ph.D (Tech) - Surface Coating Technology	Ramanand Jagtap
74	13MAT4002	Srimanta Maji	Ph.D (Sci) - Mathematics	Akshaya Sahu
75	14PHT4003	Deelip Sangamnath Rekunge	Ph.D (Tech) - Pharmaceutical Chemistry	Ganesh Chaturbhuj
76	14CHE4026	Dhiraj Ashokrao Lote	Ph.D (Tech) - Chemical Engineering	Ashwin Patwardhan
77	14CHY4020	Dattatray Appasha Pethsangave	Ph.D (Sci) - Chemistry	Surajit Some
78	15CHY4022	Pravin Harishchandra Wadekar	Ph.D (Sci) - Chemistry	Surajit Some
79	13CHY4024	Sushil Sitararam Khopkar	Ph.D (Sci) - Chemistry	Ganapati Shankarling

80	14PHT4002	Neha Pradeep Agre	Ph.D (Tech) - Pharmaceutical Chemistry	Mariam Degani
81	13CHE4027	Sandeep Namdeo Gosavi	Ph.D (Tech) - Chemical Engineering	Channamalikaarjun Mathpati
82	13PHT4005	Aarti Anantram	Ph.D (Tech) - Pharmaceuticals Technology	Mariam Degani
83	14PHT4010	Navnath Tulshiram Hatvate	Ph.D (Tech) - Pharmaceutical Chemistry	Vikas Telvekar
84	14PHT4007	Anil Subhash Mali	Ph.D (Tech) - Pharmaceuticals Technology	Ganesh Chaturbhuj
85	16CHY402	Harshwardhan Ulhasrao Agarkar	Ph.D (Sci) - Chemistry	Dipanwita Das
86	15NAN4001	Dinesh Jayavant Ahirrao	Ph.D (Tech) - Nano Technology	Neetu Jha
87	13CHE4019	Ghanshyam Sarjerao Bhosale	Ph.D (Tech) - Chemical Engineering	Prakash Vaidya
88	14CHY4002	Ravindra Budha Wagh	Ph.D (Sci) - Chemistry	Jayashree Nagarkar
89	14BIT4004	Akanksha Agarwal	Ph.D (Sci) - Biotechnology	Reena Pandit
90	11CHY4018	Rajaram Gangaram Dugane	Ph.D (Sci) - Chemistry	Prakash Bhate
91	11PHP4008	Pradnya Narayan Vaingankar	Ph.D (Tech) - Pharmaceuticals	Purnima Amin
92	11PHP4004	Sandip Mhatardev Gite	Ph.D (Tech) - Pharmaceuticals	Vandana Patravale
93	14PHL4001	Sarayu Arvind Pai	Ph.D (Tech) - Pharmacology	Archana Juvekar
94	12PHG4002	Meenakshi Santosh Akhade	Ph.D (Tech) - Pharmacognosy	Kirti Laddha
95	13PHP4003	Rohan Vijayanand Pai	Ph.D (Tech) - Pharmaceuticals	Pradeep Vavia
96	12CHY4017	Sonali Chaitanyachintamani Thakare	Ph.D (Sci) - Chemistry	Radha Jayaram
97	13FDS4001	Gayatri Girish Bakshi	Ph.D (Sci) - Food Science	Laxmi Ananthanarayan
98	14GRT4007	Saurabh Milind Joshi	Ph.D (Tech) - Green Technology	Parag Gogate
99	2.01108E+11	Pooja Umesh Pherwani	Ph.D (Tech) - Pharmacology	Sadhana Sathaye
100	13PHG4001	Sapna Pramod Patil	Ph.D (Tech) - Pharmacognosy	Kirti Laddha
101	12CHY4018	Vaibhav Bhausaheb Sable	Ph.D (Sci) - Chemistry	Anant Kapdi
102	13BIT4003	Nupur Nandan Nagwekar	Ph.D (Sci) - Biotechnology	Bhaskar Thorat
103	15CHY4016	Sneha Nandkishor Tambat	Ph.D (Sci) - Chemistry	A. Pandit
104	13TXT4009	Prerana Babaji Kane	Ph.D (Tech) - Fibres and Textiles Processing Technology	Ravindra Kale
105	13FDS4002	Anamika Amit Banerji	Ph.D (Sci) - Food Science	Smita Lele
106	14BIT4002	Akanksha Devnath Mhatre	Ph.D (Sci) - Biotechnology	Reena Pandit
107	12TXT4009	Sanjay Madhusudan Katode	Ph.D (Tech) - Fibres and Textiles Processing Technology	Ravindra Adivarekar

108	14PHT4001	Manisha Suresh Patil	Ph.D (Tech) - Pharmaceutical Chemistry	Ganesh Chaturbhuj
109	11CHY4026	Abha Sahu	Ph.D (Sci) - Chemistry	A. Pandit
110	13TCH4002	Ashitosh Bhanudas Pawar	Ph.D (Sci) - Textile Chemistry	Ravindra Adivarekar
111	13FBT4004	Nupur Shantaram Nagavekar	Ph.D (Tech) - Food Biotechnology	Rekha Singhal
112	15CHY4019	Daulat Sampat Phapale	Ph.D (Sci) - Chemistry	Dipanwita Das
113	2.01008E+11	Shital Uddhav Giri	Ph.D (Tech) - Food Engineering and Technology	Laxmi Ananthanarayan
114	14PHT4009	Snehalata Babasaheb Autade	Ph.D (Tech) - Pharmaceutical Chemistry	Krishnacharya Akamanchi
115	13CHY4016	Prashant Sahebrao Mandal	Ph.D (Sci) - Chemistry	A Vijay Kumar
116	13FBT4001	Karuna Liladas Sorde	Ph.D (Tech) - Food Biotechnology	Laxmi Ananthanarayan
117	13FET4003	Baburaj R	Ph.D (Tech) - Food Engineering and Technology	Laxmi Ananthanarayan
118	13CHY4011	Arun Karansing Valvi	Ph.D (Sci) - Chemistry	Shraeddha Tiwari
119	15BPT4001	Surabhi Soni	Ph.D (Tech) - Bioprocess Technology	Annamma Odaneth
120	2.01008E+11	Amruta Manikrao Bawane	Ph.D (Tech) - Food Engineering and Technology	Rekha Singhal
121	14CHE4025	Nishant Satyawana More	Ph.D (Tech) - Chemical Engineering	Parag Gogate
122	12CHY4050	Abhishek Vijaykant Dubey	Ph.D (Sci) - Chemistry	A Vijay Kumar
123	14CHE4015	Deepak Uday Bapat	Ph.D (Tech) - Chemical Engineering	Ashwin Patwardhan
124	13CHY4003	Mangesh Nivrutti Potangale	Ph.D (Sci) - Chemistry	Shraeddha Tiwari
125	13BIT4008	Suhas Sundarrao Gore	Ph.D (Sci) - Biotechnology	Arvind Lali
126	12CHY4024	Prerana Kumar Lokhande	Ph.D (Sci) - Chemistry	Nagaiyan Sekar
127	13PHL4001	Amrita Ashok Kumar Chowdhury	Ph.D (Tech) - Pharmacology	Archana Juvekar
128	13CHY4005	Sagar Kakasaheb Patil	Ph.D (Sci) - Chemistry	Dipanwita Das
129	14CHY4008	Snehal Baban More	Ph.D (Sci) - Chemistry	Parag Gogate
130	13CHY4021	Manish Manulal Raikwar	Ph.D (Sci) - Chemistry	Nagaiyan Sekar
131	11CHY4085	Pallavi Sunil Parab	Ph.D (Sci) - Chemistry	Sunil Bhagwat
132	12MAT4001	Barnali Saha	Ph.D (Sci) - Mathematics	Ajit Kumar
133	13CHE4029	Swapnil Ramesh Rao Chaudhari	Ph.D (Tech) - Chemical Engineering	Anand Patwardhan
134	11CHY4039	Yogesh Keshav Choughule	Ph.D (Sci) - Chemistry	Anand Patwardhan
135	11CHY4001	Seema Arun Ghorpade	Ph.D (Sci) - Chemistry	Nagaiyan Sekar
136	14BIT4008	Meghna Jatinkumar Vanza	Ph.D (Sci) - Biotechnology	Sandeep Kale

137	14FET4003	Seema Radheshyamji Bajaj	Ph.D (Tech) - Food Engineering and Technology	Prof. R.S. Singhal
138	13HE4028	Pravin Sukharaj Bhandari	Ph.D (Tech) - Chemical Engineering	Parag Gogate
139	14BIT4006	Sandesh Jagdish Marathe	Ph.D (Sci) - Biotechnology	Prof. R.S. Singhal
140	15MEC4002	Deepankar Vasudev Biswas	Ph.D (Tech) - Mechanical Engineering	Prof. S.P. Deshmukh
141	14CHY4012	Girases Tejpalsingh Ramsingh	Ph.D (Sci) - Chemistry	Dr. A. R. Kapdi
142	12PHP4007	Priyanka Subodh Jahagirdar	Ph.D (Tech) - Pharmaceuticals	Prof. P.V. Devarajan
143	14CHY4017	Shatrughn Ashok Bhilare	Ph.D (Sci) - Chemistry	Dr. A. R. Kapdi
144	14CHY4021	Sagar Baliram Yadav	Ph.D (Sci) - Chemistry	Prof. N. Sekar
145		Surpriya Maruti Hase	Ph.D (Sci) - Chemistry	Dr. A.P. Pratap

Passed out Students Information (Masters students)

Sr. No.	Roll No.	Name of Students
1	17CHE201	ADITYA ABHIJIT UPASANI
2	17CHE202	AJAYKUMAR RAJENDRAKUMAR VARMA
3	17CHE203	AKASH PATEL
4	17CHE204	ANJALI KRISHNAN
5	17CHE205	CHANDRASHEKHAR ADINATH MORE
6	17CHE206	CHIRAG BHASKAR BHOR
7	17CHE207	DEEPKUMAR SAMIRBHAI SHAH
8	17CHE208	DIGVIJAY VASANT BAGUL
9	17CHE209	DOROTHY NARJARY
10	17CHE210	GURUNATH EPILI
11	17CHE211	KHUSHBOO MANGLA
12	17CHE212	LYANGOM LEPCHA
13	17CHE213	MAMTA NAIR
14	17CHE214	NIKHIL BALARAM MHATRE
15	17CHE215	NIKHIL VIJAY SHINDE
16	17CHE216	PURVESH KORE
17	17CHE217	RAVI KUMAR
18	17CHE218	ROBIN MALHOTRA
19	17CHE219	ROHIT GULIA
20	17CHE220	SAGAR GUPTA
21	17CHE221	SHEFALIKA SINGH
22	17CHE222	SHIVANI GUPTA
23	17CHE223	SMRUTI MAHENDRA THAKUR
24	17CHE224	SUJITH V S
25	17CHE225	SWAPNIL MESHRAM
26	17CHE227	VIVEKA KAUR
27	17CHE228	VIGNESH SHANMUGAM
28	17CHE230	AAKASH CHAKRABORTY
29	17CHE231	PRAJAKTA JAIPAL MEDHANE
30	17CHE232	AKASH RAMESHWAR KUBADE
31	17PLS202	Ankita Raja Shinde
32	17PLS203	Mir fayeque ali Mir sadeq ali
33	17PLS204	Jignasha Ghanshyam Bambhaniya
34	17PLS205	Rameshwari Dhondbaji Sawarkar
35	16PHM201	Jyoti Suresh Batgire
36	17PHC201	Abhishekh Brijesh Sharma
37	17PHC202	John Mohan Naik
38	17PHC203	Suraj Narayan Mali
39	17PHC206	Nandini Asati
40	17PHC207	Prajakta Kantaram Khalate

41	17PHC208	Rohit Dubey
42	17PHM201	Apurva Anilkumar Tayade
43	17PHM202	Aakash Subhash Daple
44	17PHM203	Ajinkya Chandrakant Dukane
45	17PHM204	Chetan Dinesh Thingore
46	17PHM205	Nayana Arun Tendulkar
47	17PHM206	Viplav Vitthal Kshirsagar
48	17PHP201	Anand Madhav Bhusare
49	17PHP202	Sharvari Milind Kshirsagar
50	17PHP203	Krishna Eknath Jaybhaye
51	17PHP204	Apoorva Vinayak Phadke
52	17PHP205	Purva Prasad Khare
53	17PHP206	Siddhesh Waman Punalekar
54	17TXT201	Nilesh Gajendra Pawar
55	17TXT202	Radhika Shivaji Patil
56	17TXT203	Sandip Narayan Todkar
57	17TXT204	Sarvajeet Krishna Yadav
58	17TXT205	Shani Pathak
59	17TXT206	Shraddha Shankarrao Yadav
60	17TXT207	Yogesh Sadanand Anure
61	17TXT208	Raveena Chaurasia
62	17FET202	Aditi Rungta
63	17FET203	Admajith M Kaimal
64	17FET204	Madan Dnyanoba Dhulgande
65	17FET205	Megha Dhingra
66	17FET206	Naveen Kumar Shakya
67	17FET207	Oindrila Ghosh
68	17FET208	Prateek Katariya
69	17FET209	Sagar Ashok Mahale
70	17FET211	Sujay Kiran Ayachit
71	17FET212	Omkar Soma Sawant
72	16POL204	Junaid Nuruddin Parkar
73	17POL201	Ahmad Hamza
74	17POL203	Debarati Maity
75	17POL204	Devesh Kothari
76	17POL205	Dwij Kamlesh Dave
77	17POL206	G s jyoti Darsan Mohanty
78	17POL207	Gauri Prakashrao Deshmukh
79	17POL208	Harsh Jayesh Pandya
80	17POL209	Kamalakanta Maikap
81	17POL210	NAGARAJANIYER C
82	17POL211	Omkar Subhash Borde
83	17POL212	Pratik Sanjiv Kasbe
84	17POL213	Priyanka Ashok Mojad
85	17POL215	Sabyasachi Sudhakar Behera

86	17POL216	Shruti Shashank Parkhe
87	17POL217	Sonam Pratik Khuntia
88	17POL218	Vidula Vijay Ramdugwar
89	17PHT201	Ajay Nandu Salunke
90	17PHT202	Akash Vijay Lingayat
91	17PHT203	Darshana Dayanand Kamble
92	17PHT204	Ishwari Avinash Kale
93	17PHT205	MUJAHED HUSSAIN ANSARI
94	17PER201	GOVIND SURYAKANT BHUMBE
95	17PER203	Lubha Shailendra Deshmukh
96	17PER204	Pradeep Rajendra Tandale
97	17PER205	Pratap Arjunrao Kadam
98	17PER206	Ranjit Rohidas Jadhav
99	17PER207	Smrithi Sampathkumar
100	17PER209	Sushil Sanjay Chaudhari
101	17PER210	Vidula Vijay Kamble
102	17PER211	Ramrao Dnyanoba Khandare
103	17OIL201	Abhay Jaypal Rathod
104	17OIL202	Anisha Jayesh Chande
105	17OIL203	Anurag Madhav Bapat
106	17OIL205	Bharti Nagorao Naik
107	17OIL206	Bhushan Dattatray Patare
108	17OIL207	Dinesh Vasant More
109	17OIL208	Ganesh Ankush Pawar
110	17OIL210	Kanchan Sham Drugkar
111	17OIL211	Kiran Banshi Mhaske
112	17OIL212	Mohd Asif Mohd Hanif Siddiqui
113	17OIL214	Renuka Rajivlochan Nagarnaik
114	17OIL215	Sarayu Nishikant Jaiswal
115	17OIL216	Sudarshan Vinod Sathe
116	17OIL217	Suraj Prakash Barage
117	17OIL218	Tilottama Devidas Bairagi
118	17SUR201	Abhijit Das
119	17SUR202	Aishwarya Girish Deshmukh
120	17SUR203	Ajay Ashok Patil
121	17SUR204	Akshay Balkrishna Deshmukh
122	17SUR205	5 Bhagyashree Vasantryo Waghmare
123	17SUR206	Deepali Rajendra Patil
124	17SUR208	Jeganathan R
125	17SUR209	Milind Rajendra Suryawanshi

126	17SUR210	Pooja Pramod Deore
127	17SUR211	Rushabh Rajaram Ghadge
128	17SUR212	Shailesh Sanjay More
129	17SUR213	Shubham Pradeep Potdar
130	17SUR214	Anurag Brijendra Gupta
131	17BPT202	Akshay Dattatray Mergu
132	17BPT203	Ankit Tiwari
133	17BPT204	Archana Dinesh Panchal
134	17BPT205	Jayata Shailesh Mawani
135	17BPT206	Jayesh Ramesh Tambe
136	17BPT207	Juili Shrikant Sali
137	17BPT208	Ketan Manoj Narote
138	17BPT209	Mahadev Annasaheb Bhabad
139	17BPT210	Mrunal Rajendra Ingawale
140	17BPT211	Mrunal Vithal Lad
141	17BPT212	Aishwarya Avinash Nikam
142	17BPT214	Nitin Gangil
143	17BPT215	Pavan kumar K
144	17BPT216	Pooja Chanabasappa Salgar
145	17BPT217	Pooja Deepak Motikar
146	17BPT218	Pooja Gopal Utekar
147	17BPT221	Pratap Dhananjay Mune
148	17BPT223	Priyanka Ramchandra Gaonkar
149	17BPT224	Ratnamala Dada Marathe
150	17BPT225	Sahil Shirish Sankhe
151	17BPT226	Sampada Jayant Sewalkar
152	17BPT227	Sarika Popat Ghodake
153	17BPT228	Sayli Anil Saindane
154	17BPT229	Sunil Tulshiram Waghmare
155	17BPT230	Susmita Sanjay Salunkhe
156	17BPT231	Ummesulem Riyazul Rab
157	17BPT232	Vaishnavi Charandas Lohi
158	17BPT233	Vijay Barde
159	16FBT203	Mukesh Kumar Patel
160	16FBT205	Prabhat
161	16FBT206	Sana Jameel Shaikh
162	17FBT201	Abdurrehman Mohammad kalimKhan
163	17FBT203	Bishal Prasher
164	17FBT204	Deep Kamal Dave
165	17FBT205	G V Lathika
166	17FBT206	Shreyasi Umesh Phatak
167	17FBT207	Shriya Das
168	17FBT208	Sneha Anand Kamble

169	17FBT209	Stuti Agarwal
170	17FBT210	Sudharshini B
171	17GRT201	Aditi Ashok Mhatre
172	17GRT202	Angshuman Swapan Khatua
173	17GRT206	Geet Narendra Dekate
174	17GRT208	Leena Bhalchandra Vaidya
175	17GRT209	Manjusha Digambar Bharose
176	17GRT210	Mansi Yatin Patil
177	17GRT211	Nikhil Deepak Bagul
178	17GRT212	Pankaj Anandrao Shinde
179	17GRT213	Priyanka Vilas Lokhande
180	17GRT214	Rutuja Sunil Bhalinge
181	17GRT215	Shefali Shrikant Maurya
182	17GRT216	Sneha Ratnakar Shetty
183	17GRT218	Sonal Ramchandra Pawar
184	17GRT219	Sri dharini Sivagiri
185	17GRT220	Tejesh Vithoba Mhatre
186	17GRT221	Varada Datta Sawant
187	17GRT222	Snehal Roshan Gajbhiye
188	17GRT224	Prajakta Nanasaheb Nikam
189	17GRT225	Kimaya Santosh Shahane
190	17PBT201	Bidyasagar Singha
191	17PBT202	Abhishek Rajesh Indurkar
192	17PBT203	Alok Kumar
193	17PBT204	Arpitha Atchutuni
194	17PBT205	Bismita Sonowal
195	17PBT206	Kaberi Nath
196	17PBT207	Mrunalini Shankarrao Patil
197	17PBT208	Parul Manoj Srivastava
198	17PBT209	Priyanka Mishra

List of Ongoing Research Students

Sr. No.	Faculty Name	Student type	Student Name	Project Title	Fellowship funding source	Year of Joining
1	A VIJAY KUMAR	PhD	Shweta A Pawar	Development of fundamentals of integrated catalytic processing of biomass into fuels and value-added chemicals	DST-BRICS	2019
2	Prof. Purnima D. Amin	Ph.D. (Tech)	UMESH K. SHINDE	Hot-melt extrusion in novel drug delivery systems	RGNF	2016
3	Prof. Purnima D. Amin	Ph.D. (Tech)	DURGESH KUMAR JHA	Investigation of Drug-Polymer Solubility and Miscibility for a rational design of Amorphous Solid Dispersions: Analytical and Theoretical Approaches	UNILEVER	2017
4	Prof. Purnima D. Amin	Ph.D. (Tech)	DEVANSHI S. SHAH		DST-INSPIRE	2018
5	Prof. Purnima D. Amin	Ph.D. (Tech)	SUNNY WANKHADE	Design and Development of Medical Devices	TEQIP	2018
6	Prof. Purnima D. Amin	Ph.D. (Tech)	SHARDA GURRAM		ICPA HEALTH PRODUCTS	2018

7	Prof. Purnima D. Amin	Ph.D. (Tech)	SRUSHTI TAMBE	Sterile modified release dosage forms for subcutaneous and ocular drug delivery	NDF	2019
8	Prof. Purnima D. Amin	Ph.D. (Tech)	APOORVA PHADKE	Design and evaluation of analgesic formulations	NDF	2019
9	Prof. Purnima D. Amin	Ph.D. (Tech)	DIVYA JAIN	Development and evaluation of solid oral dosage form using Hot-melt extrusion technology	LIFESCIENT INC	2019
10	Prof. Purnima D. Amin	M.Pharm	Mahak Birthare	Design and Evaluation of Antifungal Formulations	AICTE	2019
11	Prof. Purnima D. Amin	M.Tech	Nikita Patil	ORAL DISINTEGRATING FILMS FOR PAIN MANAGEMENT	AICTE	2019
12	Prof. Purnima D. Amin	M.Tech	Shrikant Gawhane		AICTE	2019
13	Dr. Annamma A. Odaneth	Ph.D (Tech) Bioprocess Technology	Pratik P. Pawar	Process for Production of Edible Grade Microbial oil	DBT-CEB	5th May, 2016

14	Dr. Annamma A. Odaneth	Ph.D. (Sci.) (Biotechnology)	Chinmayee R. Mahadik	Enzymatic production of Saccharides from agricultural waste	DBT-CEB/ Gencrest LLP	12th Dec.2014
15	Dr. Annamma A. Odaneth	Ph.D. (Sci.) (Biotechnology)	Vishwanath S. Khadye	Production of Beta-glucosidase in Bacillus subtilis	Indo UK Collaborative Project (DBT Economic Non Food)	4th Nov. 2015
16	Dr. Annamma A. Odaneth	Ph.D. (Sci.) (Biotechnology)	Kurshedaktar M. Shaikh	Developing Yarrowia lipolytica as a platform host for production of fuels, chemicals and industrially relevant enzymes	DBT-CEB	4th Nov. 2015
17	Dr. Annamma A. Odaneth	Ph.D. (Sci.) (Biotechnology)	Shruti D. Kothari	Evaluating physicochemical dependency of yeasts on nitrogen source	DBT-CEB	15th May 2017
18	Dr. Annamma A. Odaneth	Ph.D. (Sci.) (Biotechnology)	Custan G. Fernandes	Recycling of Cellulases for Saccharification	DBT-CEB	11th Oct. 2017

19	Dr. Annamma A. Odaneth	Ph.D. (Sci.) (Biotechnology)	Rasika V. Tupe	Actinomycetes for the improved catabolic valorization of lignin-derived monomers	DBT-CEB	6th Oct. 2017
20	Dr. Annamma A. Odaneth	Ph.D. (Sci.) (Biotechnology)	Tejal A. Mule	Waste paper biorefinery for industrially relevant products.	Teqip III	5th Oct. 2018
21	Dr. Annamma A. Odaneth	Ph.D (Sci.) Chemistry	Darren Jacob Ennackal	Improved green synthesis of polyol derivatives	Teqip III	5th Oct. 2018
22	Dr. Annamma A. Odaneth	Ph.D. (Sci.) (Biotechnology)	Krutika B. Bhoir	Genetic modification of <i>Yarrowia lipolytica</i> for production of valuable terpenes	CSIR UGC NET	14th Oct. 2019
23	Dr. Annamma A. Odaneth	M.Tech Bioprocess Technology	Sneha P. Kulthe	Designing strategies for the extraction and purification of capsaicinoids from chili/pepper	M.Tech BPT	18th Aug.2018
24	Dr. Annamma A. Odaneth	M.Tech Bioprocess Technology	Suraj Sharma	Multiple integration of gene for amplified protein production in <i>Yarrowia lipolytica</i>	M.Tech BPT	18th Aug. 2018

25	Dr. Annamma A. Odaneth	M.Tech Bioprocess Technology	Yuvarajan M	Ulvan as a water holding agent	M.Tech BPT	18th Aug. 2018
26	Dr. Annamma A. Odaneth	M.Tech Bioprocess Technology	Durgesh Wankhade	Microbial valorization of depolymerized lignin to high value compounds	M.Tech BPT	20th July 2019
27	Prof. B. M. Bhanage	Ph.D. (Sci.)	Dewal Deshmukh	Synthesis of N-Heterocyclic Compounds using C-H Bond Activation Strategy	UGC-BSR	2015
28	Prof. B. M. Bhanage	Ph.D. (Sci.)	Vinayak Gaikwad	Palladium Catalyzed Carbonylation Reactions for Synthesis of fine Chemicals	CSIR-SRF	2016
29	Prof. B. M. Bhanage	Ph.D. (Sci.)	Vishal V Phatake	Carbon Dioxide utilization for the synthesis of benzimidazole, cyclic formamide, cyclic carbonate and Quinazoline-2,4-(1H,3H)-diones	UGC-SRF	2016

30	Prof. B. M. Bhanage	Ph.D. (Tech.)	Amol Raut	Synthesis of Mono/Bimetallic Catalyst for Quinazolines Synthesis and Biomass Valorization	UGC-BSR	2015
31	Prof. B. M. Bhanage	Ph.D. (Tech.)	Shivkumar Chaurasia	Application of Mono/bimetallic nanoparticle for organic synthesis	UGC-BSR	2015
32	Prof. B. M. Bhanage	Ph.D. (Sci.)	Akshay Bhujbal	Nanomaterial synthesis in ionic liquid using electrodeposition technique and its application in nuclear fuel recycling, catalysis.	DAE-ICT	2018
33	Prof. B. M. Bhanage	Ph.D. (Sci.)	Yuvraj Kolekar	Studies in Carbon Monoxide Fixation Reactions	UGC-SRF	2017
34	Prof. B. M. Bhanage	Ph.D. (Sci.)	Ashish Mishra	Transfer Hydrogenation via Synthesized Heterogeneous Catalyst and Ru-Tethered Catalysed Asymmetric Reduction of α -keto amide and α -halo ketone.	DST INSPIRE	2015

35	Prof. B. M. Bhanage	Ph.D. (Sci.)	Priyanka Dhande	Studies in Enzymatic Reactions	UGC-SRF	2015
36	Prof. B. M. Bhanage	Ph.D. (Sci.)	Kripa Subaramanian	Studies in electrochemically induced organic reactions	UGC-BSR	2015
37	Prof. B. M. Bhanage	Ph.D. (Tech.)	Jayendra Ahire	Conversion of carbon dioxide to cyclic carbonate and dimethyl carbonate	CSIR-SRF	2017
38	Prof. B. M. Bhanage	Ph.D. (Sci.)	Manjunath Lokolkar	C-C bond formation using homogeneous catalysts	DAE-BRNS	2019
39	Prof. B. M. Bhanage	Ph.D. (Sci.)	Tejas Gokhale	Development of fundamentals of integrated catalytic processing of biomass to fuels and value added chemicals	DST-BRICS project	2019
40	Prof. B. M. Bhanage	Ph.D. (Sci.)	Satish Chauhan	Utilization of carbon dioxide in organic conversions	UGC-JRF	2019
41	Prof. B. M. Bhanage	Ph.D. (Sci.)	Nilam Patil	Carbonylation reactions using CO surrogates	UGC-JRF	2019
42	Prof. B. M. Bhanage	Ph.D. (Sci.)	Shilpa Gowalkar	Hydroformylation of biomass derived molecules	TEQIP-III	2019

43	Prof. B. M. Bhanage	Post-Doctoral Fellow	Dr. Dnyaneshwar Subhedar	Regioselective C-H Functionalization of Heteroarenes and Drug Molecules	DSK-PDF	2017
44	Prof. B. M. Bhanage	Post-Doctoral Fellow	Dr. Ranjana Varma	Photocatalysis for pharmaceutical drug pollutants degradation and water splitting	DST Woman Scientist	2017
45	Prof. B. M. Bhanage	Post-Doctoral Fellow	Dr. Debarati Das	Carbonylation reactions	DSK-PDF	2019
46	Prof. B. M. Bhanage	M.Tech - Green Technology	Manasi Patil	Immobilization of lipase on novel polymeric support and its characterization and application for transesterification reaction	-	2017
47	Prof. B. M. Bhanage	M.Sc student	Manasi Nagpal	-	-	2017
48	Prof. B. M. Bhanage	M.Sc. Student	Nidin Vadassery	-	-	2017
49	Prof. B. M. Bhanage	M.Tech - Green Technology	Sonal Ramchandra Pawar	Co/Al hydrotalcite-derived catalyst promoted environment - friendly one pot multicomponent reaction protocol for the synthesis of 1,3-thiazolidin-4-ones		
50	Prof. B. M. Bhanage	Ph.D. (Sci.)	Vijay Pandit Mahajan	Studies in Carbonylation reactions	Industry Sponsored.	

51	Prof. B. M. Bhanage	M.Tech - Green Technology	Nilam Ramchandra Parthe	“Removal of pharmaceuticals from waste water by photocatalysis		
52	Prof. B. M. Bhanage	M.Tech - Green Technology	Prakash S	Studies in C-H Activation reactions		
53	Prof. B. M. Bhanage	M.Tech - Green Technology	Rutvij Anand Apte	Studies in Carbon monoxide surrogate based reactions		
54	Prof. B. M. Bhanage	M.Tech - Green Technology	Akshay Kachru Patni	Extraction of Bioactive Components from Spent Coffee Grounds		
55	Prof. B. M. Bhanage	M.Tech - Green Technology	Sarvesh Arun Parlikar			
56	Amiya Ranjan Bhowmick	Ph.D. (Sci)	Md Aktar Ul Karim		CSIR	2019
57	DR. SNEHASIS CHAKRABORTY	Ph.D.	Prasanna Bhalerao	Pulse light Treatment of beverages from underutilized tropical fruit : Process Optimization and Shelf-Life Extension	Govt. Funded - DST-SERB, India	2017
58	DR. SNEHASIS CHAKRABORTY	Ph.D.	Rishab Dhar	Integrated Processing of Beverages from Minor Tropical Fruits: Process Optimization and Shelf-Life Extension	Ministry of Food Processing Industry, Govt. of India	2019
59	DR. SNEHASIS CHAKRABORTY	Ph.D.	Madhavi Singh	Sugar substitution in bakery products	ICT-IOC Bhubaneshwar	2019

60	DR. SNEHASIS CHAKRABORTY	Ph.D.	Savitha Sreenivas	Optimization of decontamination of dehydrated onions	ICT-IOC Bhubaneshwar	2019
61	DR. SNEHASIS CHAKRABORTY	Ph.D.	Shaik Lubna Begum	Non-thermal processing of fruit juices	AICTE	2019
62	DR. SNEHASIS CHAKRABORTY	Ph.D.	Smriti Chaturvedi	Process optimization of synbiotic non-dairy legume based beverage and instant powder.	AICTE	2019
63	DR. SNEHASIS CHAKRABORTY	Ph.D.	Anshul Dhawan	Non-thermal processing of enzymes	AICTE	2020
64	DR. SNEHASIS CHAKRABORTY	M.Tech	Naresh K	Microbial and enzyme inactivation of Muskmelon juice under pulsed light treatment	DBT	2019
65	DR. SNEHASIS CHAKRABORTY	M.Tech	Shubham Banerji	Pulse Light Pasteurization of Sweet Lime Juice	AICTE	2019
66	DR. SNEHASIS CHAKRABORTY	M.Tech	Sheetal Jayesh Shrigadiwar	Cloud stabilization of orange juice using orange peel	DBT	2019
67	DR. SNEHASIS CHAKRABORTY	M.Tech	Namita Singh	Application of CFD modelling in baking of functional bread	AICTE	2019
68	DR. SNEHASIS CHAKRABORTY	M.Tech	Nikhil Dinde	Dry Fractionation of Legumes	AICTE	2019

69	DR. SNEHASIS CHAKRABORTY	M.Tech	Ayan Bhattacharjee	Development of Ohmic heater for fluid food processing	AICTE	2019
70	DR. SNEHASIS CHAKRABORTY	Research Assistant	Deep Dave	Development of Plant based Egg Alternative	Shivanika Foods Pvt. Ltd.	2019
71	Dawande S. G.		Government	Ruthenium(II) Catalysis in C-6 Functionalization of Indoles: C-C and C-O Bond Formation	10/3/2017	39,00,000
72	Dilip D Sarode	Ph.D (Tech) Civil Engineering	Raji S	Value addition to Biomass Waste as Alternative Fuel		20-Apr-15
73	Dilip D Sarode	Ph.D (Tech) Civil Engineering	AVINASH NILKANTH PHIRKE	Industrial Waste for Development of Cement Composite Material for Low Cost Housing		5-Oct-15
74	Dilip D Sarode	Ph.D (Tech) Civil Engineering	Rohan Satish Oak	Application of Biochar for Agriculture Production under different Agro-Climatic Conditions	MVP	23-Feb-16

75	Dilip D Sarode	Ph.D (Tech) Civil Engineering	SAGAR MUKUNDRAO GAWANDE	Development of Eco-friendly Sustainable model for waste management in small towns	16-May-17
76	Dilip D Sarode	Ph.D (Tech) Civil Engineering	Sudhanshu Suraj Kamat	Treatment of Reject water from Reverse Osmosis	4-Nov-19
77	Dilip D Sarode	Ph.D (Tech) Civil Engineering	Guruprasad Dattatraty Parulekar	Cost Effective, Eco Friendly Storage Structures	14-Mar-19
78	Dilip D Sarode	Ph.D (Tech) Civil Engineering	Sagar Sunil Patil	Use of Industrial Waste in Road Construction	9-May-19
79	Dilip D Sarode	M.E Plastic Engineering	Avinash Anil Raut	Study of Asphalt Design Using Recycled Plastic Waste (PET) for Sustainable Flexible Pavement Construction.	15-Jul-18

80	Dilip D Sarode	M.E Plastic Engineering	Deepak Kumar sudhanshu	Polymer based material used for cement composite	19-Sep-18
81	Dilip D Sarode	M.E Plastic Engineering	Keyur sureshbhai vadaliya	Polymer based Matrial for Filter membrane	15-Jun-19
82	Shalini Deb	MTech (Bioprocess Technology)	Ajeet Kumar Yadav	Metabolic engineering of Ralstonia eutropha for production of value-added molecules	2019
83	Shalini Deb	MTech (Bioprocess Technology)	Kushika Mitra	Developing a genetic toolbox for engineering Ralstonia eutropha	2019
84	Prof. P. V. Devarajan	Ph. D. (tech)	Joshi Bhagyashri	Drug Adsorption Models for predicting Bioenhancement Strategies for Poorly Permeable Drugs	UGC
85	Prof. P. V. Devarajan	Ph. D. (tech)	Chawla Shweta	Inorganic Nanocarriers in drug delivery and diagnosis	UGC
86	Prof. P. V. Devarajan	Ph. D. (tech)	Jahagirdar Priyanka	Nano drug delivery systems for targeted delivery of anti-tubercular agents	UGC

87	Prof. P. V. Devarajan	Ph. D. (tech)	Das Saugandha	Nanocarriers for targeted drug delivery to the RES	DST-INSPIRE	2013
88	Prof. P. V. Devarajan	Ph. D. (tech)	More Krantisagar	Nanotechnology approaches for bioenhanced delivery of nutraceuticals and nutraceutical drug combinations	UGC	2013
89	Prof. P. V. Devarajan	Ph. D. (tech)	Maithania Heena	Nanoparticulate drug delivery systems for targeted therapy of infectious diseases	UGC	2013
90	Prof. P. V. Devarajan	Ph. D. (tech)	Kotak Darsheen	Nanocarriers for Bioenhanced and Targeted Delivery in Osteoporosis	DST-Prime Minister Fellow	2014
91	Prof. P. V. Devarajan	Ph. D. (tech)	Joshi Harsh	Formulation of Controlled and Novel Drug Delivery system	Phoenix	2014
92	Prof. P. V. Devarajan	Ph. D. (tech)	John Rijo	Formulation Development of In Situ Nanosuspension	Phoenix	2014
93	Prof. P. V. Devarajan	Ph. D. (tech)	Wavhule Pradip	Microwave assisted Drug Delivery Systems	UGC	2015
94	Prof. P. V. Devarajan	Ph. D. (tech)	Ipar Vinod	Bioenhanced Nutraceutical Delivery System	UGC	2015

95	Prof. P. V. Devarajan	Ph. D. (tech)	Lokhande Amit	Nanocarrier based Drug Delivery System for Tuberculosis	DBT	2016
96	Prof. P. V. Devarajan	Ph. D. (tech)	Shevade Sukhada	Long Acting Parenteral Depot Systems for Alzheimer's Disease	DST-Prime Minister Fellow	2017
97	Prof. P. V. Devarajan	Ph. D. (tech)	Todke Pooja	Amphoterecin B Nanoformulation by Facile Insitu Process	NDF	2018
98	Prof. P. V. Devarajan	Ph. D. (tech)	Attar Esha	Bioenhanced & Targeted drug delivery system of deuterated Mitocurcumin	DAE-ICT	2018
99	Prof. P. V. Devarajan	Master	Mengade Mahesh	Innovative drug delivery system for coccidiosis	AICTE : GPAT	2018
100	Prof. P. V. Devarajan	Master	Singh Shweta	Oral Bioenhanced drug delivery system	AICTE : GPAT	2018
101	Prof. P. V. Devarajan	Master	Pande Suyog	Aqua Triggered In-Situ gelling system for ophthalmic drug delivery	AICTE : GPAT	2018
102	Prof. P. V. Devarajan	Master	Jadhav Sushant	Development of Point of Care for clinically significant blood group	DBT	2018

103	Prof. P. V. Devarajan	Master	Sanjana Jadhav	Curcumin loaded Hydroxyapatite nanoparticles for bone targeting.	AICTE : GPAT	2019
104	Prof. P. V. Devarajan	Master	Siddhant Gaikwad	Formulation and evaluation of inhalable Rifampicin Particulate system	AICTE : GPAT	2019
105	Prof. P. V. Devarajan	Master	Jasleen Chass	Aqua triggered insitu (ATIS) Gel of Curcumin for nose to brain delivery.	AICTE : GPAT	2019
106	Prof. P. V. Devarajan	Master	Simmi Gupta	Intracellular targeting of Hydroxyapatite nanoparticles.	DBT	2019
107	Dr. Sanghamitra Chatterjee	Ph.D (Sci)	Suyash Mane	Electrochemical Determination of Drugs Utilizing Nanomaterial Modified Sensors	UGC	2015
108	Dr. Sanghamitra Chatterjee	Ph.D (Sci)	Pravin Tarlekar	Development of Electrochemical Sensors for Investigation of Electroactive Compounds	UGC	2015

109	Dr. Sanghamitra Chatterjee	Ph.D (Sci)	Rutesh Savalia	Development and Application of Nanomaterial Based Sensors for Selective Determination of Pharmaceutical formulations in Biological Fluids	Prime Minister's Fellowship	2016
110	Dr. Sanghamitra Chatterjee	Ph.D (Sci)	Nikita Agrawal	Fabrication with Nanocrystalline Materials for Electrochemical Sensing of Biological Analytes	DST INSPIRE	2017
111	Dr. Prajakta dandekar jain	Ph.D.	Prachi Sudhir Bangde	Developing palladium complexes as anti cancer agents	CSIR	14-01-2016
112	Dr. Prajakta dandekar jain	Ph.D.	Kritika Gupta	Development of Stable Cell line for Production of Recombinant Monoclonal Antibodies	ICMR	20-04-2016
113	Dr. Prajakta dandekar jain	Ph.D.	Lalit Khare	Green-by-design strategies for synthesis or extraction of bioactives	PM Fellowship	27-04-2017

114	Dr. Prajakta dandekar jain	Ph.D.	Aparna Tripathi	A platform for rapid visual detection of amplified Mycobacterium tuberculosis DNA on a paper substrate for point-of-care diagnostic applications	DST WOS-A	8/11/2017
115	Dr. Prajakta dandekar jain	Ph.D.	Aditya Narvekar	Development of reproducible orthogonal characterization approach for biologics and biosimilars	DST Inspire	14-12-2017
116	Dr. Prajakta dandekar jain	Ph.D.	Devashree Jahagirdar	Microfluidic platform for developing arteficial retina	DBT	5/2/2018
117	Dr. Prajakta dandekar jain	Ph.D.	Advait Bhagwat	Bioprinting of 3D skin in a microfluidic device for pre-clinical investigations	TEQIP-COEPI	11/9/2018
118	Dr. Prajakta dandekar jain	Ph.D.	Ranjeet Desai		CSIR	27-08-2019
119	Dr. Prajakta dandekar jain	Ph.D.	Radhika Pachpore		CSIR	17-9-2019
120	Dr. Prajakta dandekar jain	Ph.D.	Ashwini Patil		Biosimilar Workshop	9/3/2020

121	Dr. Prajakta dandekar jain	Ph.D.	Manish Gore (Int-PhD)	Microfluidic technology for in-vitro organ engineering	DST Inspire	14-08-2014
122	VG Gaikar	PhD	Suwarna Hivare	Green Process development of APIs	Green Technology	2014
123	VG Gaikar	PhD(Tech.)	Tanveer Sayed	Solubilization of Green Tea components	BPCL	2017
124	Parag R Gogate	PhD (Tech)	Praveen Bhandari	Intensified Industrial wastewater treatment	Teacher Candidate	2013
125	Parag R Gogate	PhD (Tech)	Saurabh Joshi	Improvements in biofuel synthesis from sustainable resources	UGC	2015
126	Parag R Gogate	PhD (Tech)	Pooja Thanekar	Combined Oxidation Processes Based on Hydrodynamic Cavitation for Treatment of Waste Water Containing Pesticides and Emerging Contaminates	DST	2016
127	Parag R Gogate	PhD (Tech)	Rajeshree Khaire	Intensified Recovery Of Valuable Products From Whey Using Ultrasound	DST / IREL	2016
128	Parag R Gogate	PhD (Tech)	Pankaj Sinhmar	Intensification of chemical processing using cavitation reactors	Industry Sponsored	2015

129	Parag R Gogate	PhD (Tech)	Sarvesh S. Sabnis	Improved separations and cleaning using ultrasound	DAE-ICT	2017
130	Parag R Gogate	PhD (Tech)	Gaurav Daware	Removal of Pyridine Derivatives from wastewater by using combination approaches of Adsorption, Ultrasound and Advanced oxidation processes	Teacher Candidate	2018
131	Parag R Gogate	PhD (Tech)	Sudesh Ayare	Improved oxidation treatment schemes for industrial effluent treatment	Teacher Candidate	
132	Parag R Gogate	PhD (Tech)	Vinod Pakhale	Improved water and wastewater treatment using combination approaches	Teacher Candidate	2015
133	Parag R Gogate	PhD (Tech)	Sudhir Gandhi	Intensified production of biofuels from sustainable biomass sources	Teacher Candidate	2015
134	Parag R Gogate	PhD (Tech)	Vikram V. Banakar	Improvements in salt crystallization for avoiding fouling in desalination	DAE-ICT	2018

135	Parag R Gogate	PhD (Tech)	Madhuri Kininge	Intensified synthesis of Levulinic acid from sustainable biomass	TEQIP -III	2018
136	Parag R Gogate	PhD (Tech)	Swapnil Gujar	Combined advanced oxidation processes for wastewater treatment	Industry Sponsored	2018
137	Parag R Gogate	PhD (Tech)	Rahat Momin	Improved membrane processing using ultrasound	DAE-ICT	2018
138	Parag R Gogate	PhD (Tech)	Ananya De	Synthesis of doped catalysts and application for wastewater treatment	Teacher Candidate	2018
139	Parag R Gogate	PhD (Tech)	Vijay Mawal	Improved methods for effective removal of Heavy Metals from Wastewater based on sustainable Adsorbents	Teacher Candidate	
140	Parag R Gogate	PhD (Tech)	Subhash Kadlag	Intensified Conversion of sustainable biomass to value added chemicals using Ultrasound	Teacher Candidate	
141	Parag R Gogate	PhD (Tech)	Laxmi N J	Intensified wastewater treatment based on hydrodynamic cavitation	DST	2019

142	Parag R Gogate	PhD (Tech)	Chadrodai Agarkoti	Combined oxidation processes for improved effluent treatment	DST	2019
143	Parag R Gogate	PhD (Tech)	Akshara Iyer	Improvements in biological oxidation approaches	Teacher Candidate	
144	Parag R Gogate	Master	Bhagyashree Kajarekar	Ultrasound assisted intensification of streptomycin fermentative production		
145	Parag R Gogate	Master	Harshad Awari	Study of ultrasound assisted cooling crystallization of ampicillin trihydrate with comparison with conventional approach		
146	Parag R Gogate	Master	Kodavatiganti Satya Narayana	Treating of Textile and Dye industry waste water using advanced oxidation processes and cavitation techniques		
147	Parag R Gogate	Master	Yashi Rastogi	Intensified recovery of whey protein from whey using immobilised membrane ultrafiltration		

148	Parag R Gogate	Master	Valarmathi M	Ultrasound assisted synthesis of Fe doped TiO ₂ catalyst and application on Wastewater treatment		
149	Parag R Gogate	Master	Annoee Dutta	Conversion of sustainable biomass into biofuel		
150	Parag R Gogate	Master	Yogesh Gote	Heterogeneous catalyst synthesis and application for biodiesel		
151	Parag R Gogate	Master	Subhamita Das	Industrial waste water treatment using hydrodynamic cavitation and photocatalysis		
152	Parag R Gogate	Master	Payal Dalvi	Ultrasound assisted synthesis of N-TiO ₂ /Fe ₃ O ₄ @ZnO and its application in desulfurization		
153	Dr. Prerna Goswami	Ph.D (Tech) Electrical Engineering	Sangeeta Deepak Kotecha		Teachers Category	4-Jul-18
154	Dr. Prerna Goswami	Ph.D (Tech) Electrical Engineering	Priynka sharma	Optimization of energy in Wind energy systems	Teachers Category	30-Jun-18
155	Dr. Prerna Goswami	Ph.D (Tech) Electronics	Bhushan		Teachers Category	21-Jun-18

156	Dr. Prerna Goswami	Ph.D (Tech) Electrical Engineering	SOURAV CHOUBEY	A selective separation of Heavy Metals from E-Waste by Electrowinning	Teachers Category	26-Sep-18
157	Dr. Prerna Goswami	Ph.D (Tech) Electrical Engineering	Pankaj Laxman Warak	Potentials of Ocean Energy in Different coastal Regions of India	Teachers Category	18-Oct-18
158	Dr. Prerna Goswami	Ph.D (Tech) Electrical Engineering	Vaishali Abhijeet Katkar		Teachers Category	26-Nov-18
159	Dr. Prerna Goswami	Ph.D (Tech) Electrical Engineering	DEEPSHIKHA SHRIVASTAVA	Data driven energy management system a case study at pccoer	Teachers Category	28-Nov-18
160	Dr. Prerna Goswami	Ph.D (Tech) Electronics Engineering	Gauri Umesh Salunkhe	Machine Learning based Trust Model for Internet of Things	Teachers Category	18-Dec-18
161	Dr. Prerna Goswami	Ph.D (Tech) Electrical Engineering	Akansha Bhargava	Artificial intelligence strategies for detecting and mitigating malware diffusion in IoT networks	Teachers Category	9-Jan-19
162	Dr. Prerna Goswami	Ph. D (Tech) Electronics Engineering	SAMEER SUDHAKAR TATHARE	FREQUENCY RECONFIGURABLE ANTENNA DESIGN FOR 5G APPLICATION	Teachers Category	26-Jun-19
163	Dr. Prerna Goswami	Ph.D (Tech) Electrical Engineering	Vinayak Ramchandra Gaikwad		Teachers Category	7-Aug-19

164	Dr. Gunjan Prakash	Ph. D (Sci)	Sujata Kumari	Microalgal chloroplast engineering to produce high value compounds	CSIR	2015
165	Dr. Gunjan Prakash	Ph. D (Sci)	Nikhil L. Kadalag	Diatoms as host chassis for photosynthetic hydrocarbon production	DBT-ICT CEB	2017
166	Dr. Gunjan Prakash	Ph. D (Sci)	Gandhali Phadnis	Micoalgal engineering for food and fuel application	CSIR	2018
167	Dr Gunjan prakash	M. Tech Bioprocess Technology	Tara Bharathan Poduval	Characterization of functional ingredients from microalgae, cyanobacteria, brown algae and thraustochytrids for anti-inflammatory and antioxidant activity	Department of Biotechnology (DBT)	2018
168	Dr. Gunjan Prakash	M. Tech Bioprocess Technology	Sumantra Mondal	Isolation and exploration of astaxanthin from marine protist <i>Aurantiochytrium limacinum</i> .	Department of Biotechnology (DBT)	2019
169	Dr. Gunjan Prakash	M. Tech Bioprocess Technology	Shivam M. Navare	Process intensification for <i>Euglena gracilis</i> as biological feedstock	Department of Biotechnology (DBT)	2019

170	Dr. Hitesh Pawar	Ph.D (Sci)	Mr. Tejas Mohan Ukarde	Catalysis for Liquefaction of Solid Organic Wastes	DBT-ICT	3 March 2017
171	Dr. Hitesh Pawar	Ph.D (Sci)	Ms. Preeti Hira Pandey	Catalytic Transformation of CO2 into Chemicals	DBT-ICT	27 February 2017
172	Dr. Hitesh Pawar	Ph.D (tech)	Mr. Ayush Vasishta	Process Scale-up and Reaction engineering for production of Furan derivatives from bio based sugars	DBT-ICT	1 June 2017
173	Dr. Hitesh Pawar	Ph.D (tech)	Ms. Jyoti Mahale	Novel routes for green C4 product from 2,3 Butanediol	DBT-ICT	6 June 2017
174	Dr. Hitesh Pawar	M.Chem	Mr. Vinaypriya Wane	Development of downstream processing strategy for purification of crude 5- HMF	M.chem	16 Aug 2018
175	Dr. Hitesh Pawar	M.Tech (BPT)	Mr. Shailesh Bharti	Process intensification studies for converting yeast sludge into carbon densified liquid	M.Tech BPT	18 Aug 2018
176	Dr. Hitesh Pawar	M.Tech (BPT)	Joe Cyril Harrish AM	Extraction of melanoidins from distillery spent wash	M. Tech BPT	12 Jul 2019
177	HK Chaudhari	PhD (Tech)	Rucha Wani		UGC-SAP	2014
178	HK Chaudhari		Suraj Kapale		TEQIP-III	

179	HK Chaudhari	M.Pharm	Akshata Pahelkar	Design and synthesis of antimicrobial agents.	AICTE-JRF	2015
180	HK Chaudhari	M.Pharm	Shahanawaz Qureshi	Design, Synthesis and Biological Evaluation of Quinazolinone as potential anti-bacterial agents	Merek	2016
181	HK Chaudhari	M.Tech Pharm	Suraj Kapale	DESIGN AND SYNTHESIS OF ANTICANCER AGENTS	NA	2016
182	HK Chaudhari	M.Tech Pharm Biotech	Revati Dhayfule	Evaluation of Pharmacological activity of Mahua plant extracts	AICTE-JRF	2016
183	HK Chaudhari	M.Pharm	suraj Mali	Design, Synthesis and Biological activity of Anti-infective Agents	AICTE-JRF	2017
184	HK Chaudhari	M.Pharm	Amol Balu Gare	INTERMEDIATE SYNTHESIS BY IODINATION AND SYNTHESIS OF NOVEL BENZOFURAN WITH COMPUTATIONAL STUDIES	AICTE-JRF	2018

185	HK Chaudhari	M.Pharm	akash Kerba Jakkalwad	Design, Synthesis and evaluation of pharmacological active compounds	AICTE-JRF	2018
186	HK Chaudhari	MTech Pharm	Maya Chandrakant Mali	DESIGN , SNTHESES AND BIOLOGICAL ACTIVITY OF ANTI - INFLAMMATORY AGENTS		2018
187	HK Chaudhari	MTech Pharm(Integrated)	Vivek Rathod		NA	2018
188	HK Chaudhari	MTech Pharm	Shritesh Dinanath Jagtap	Intermediate synthesis by iodination and synthesis of novel benzofuran with insilico study		2018
189	HK Chaudhari	M.Pharm	Snehal Ukhade		AICTE-JRF	2019
190	HK Chaudhari	MTech Pharm	Chetan Palve		AICTE-JRF	2019
191	HK Chaudhari	MTech Pharm	Raju Mane		AICTE-JRF	2019
192	HK Chaudhari	MTech Pharm	Roshani Bhole		AICTE-JRF	2019
193	HK Chaudhari	MTech Pharm	Indraneel		NA	2019
194	Sachin Jadhav	Master	Jayshree Shahare	Applications of magnetic nanoparticles on mitigation of heavy metals		2018
195	Sachin Jadhav	Master	Mohsin Shaikh	Sustainability analysis of adsorption process based on LCA		2018

196	Sachin Jadhav	Master	Shubham Kumar	Life Cycle Assessment of Drying processes		2019
197	Sachin Jadhav	Master	Rohit Umredkar	Preservation of Fruits by Applying Various Drying Approaches		2019
198	Sachin Jadhav	Master	Dhiraj Sutar	Life Cycle Assessment of Petrochemical Processes		2019
199	CSM	Ph.D. (tech)	Prachi Dwidmuthé	Computational Fluid Dynamic Studies of Blood Flow in Human Arteries	UPL	2015
200	AWP	Ph.D. (tech)	Shrilekha Sawant	Synthesis and modification of Carbon nanotubes: Modeling, Experimentation and applications	DAE-ICT	2017
201	AWP	Ph.D. (tech)	Pratiksha Biranje	Synthesis and modification of carbon nanotubes: modeling, experimentation and applications	DAE-ICT	2017
202	SVP	Ph.D. (tech)	Ameya Kulkarni	Drying of grapes by utilization of solar energy	MVP	2017

203	CSM	Ph.D. (tech)	Chaitanya Moholkar	Heat transfer studies in Stirred Tank Reactor using CFD and Artificial Intelligence	ICT-DAE	2018
204	VHD	Ph.D. (tech)	Tukaram Shinde	Heat transfer studies of the solar thermal system: it's experimentation, application and deployment	ICT-DAE	2016
205	VHD	Ph.D. (tech)	Aditi Yerudkar	Design, experimentation and optimization of various parameters of a concentrating solar power plant	MVP	2018
206	VHD	Ph.D. (tech)	Mihir Panda	Optimization of receiver assembly of parabolic trough collector using computational fluid dynamics	Pidilite-MM Sharma	2018
207	SPD	Ph.D. (tech)	Punit Gharat	Design and Development of solar thermal technologies for medium temperature applications	MVP	2018

208	PDV	Ph.D. (tech)	Abhijeet Kshirsagar	Absorption of NOx Gases: Process Intensification, Modelling and Simulation	Pidilite-MM Sharma	2019
209	RSS	Ph.D. (tech)	Kshitija Japhalekar	Valorization of horticulture waste: cashew apple biotechnological approach	JBJRF	2019
210	AWP	Ph.D. (tech)	Chinmay Patil	CFD simulation of multiphase reactors	UPL	2019
211	CSM	Ph.D. (tech)	Rahul Parmane	CFD simulations of biomass cook stoves	MVP	2019
212	AWP	Ph.D. (tech)	Sumit Hazare	Design and CFD Simulation of Multiphase Reactors (Stirred Tanks)	UPL	2019
213	VHD	Ph.D. (tech)	Sumit Joshi	Application of Data Analytics to improve performance of Chemical equipment/Industry.	UPL	2019
214	VHD	Ph.D. (tech)	Tejas Boralkar	Using Machine Learning to develop mechanical metric for local hydrophobicity	STARS	2019

215	CSM	Ph.D. (tech)	Virendra Kumar	Computational study of blood flow in human body	UPL	2019
216		Ph.D. (tech)	Vikramaditya Shirsat	Valorization of Horticulture Waste: Cashew Apple	JBJRF	2019
217	SPD+JBJ+VHD	Ph.D. (tech)	Deepankar Biswas	Design and Optimization of Concentrated Solar thermal systems	MVP	2015
218	PDV	Ph.D. (tech)	Ghanshyam Bhosale	Advanced Oxidation Processes: Mass transfer analysis and Intrinsic Reaction kinetics of ozonation of phenolic compounds	Technoforce	2013
219	CSM	Ph.D. (tech)	Achyut Pakhare	The role of fluid mechanics and supersaturation fields on crystal size distribution and morphology of crystals	Technoforce	2013
220	AWP	Ph.D. (tech)	Shashank Tiwari	Numerical studies of flow pattern in single and multiparticle systems	ICT-DAE	2015

221	DDS	Ph.D. (tech)	Rohan Oak	Application of biochar for crop production under different agro-climatic conditions	MVP	2015
222	ABP	Ph.D. (tech)	Zakir Husain	Modeling and simulation of solid fuel burning device	ICT-DAE	2013
223	Jyoti Sontakke-Gokhale	Ph.D.	Pooja Jha	Biopolymer base food packaging	AICTE-NDF	2019
224	Jyoti Sontakke-Gokhale	Ph.D (Co-guide)	Saurabhi Ghag	Isolation and Characterization of Indigenous yeast from Cashew apple (<i>Anacardium Occidentale</i>) and its application in Foods	ICT	2019
225	Jyoti Sontakke-Gokhale	M.Tech (FBT)	Logesh V N	Extraction and characterization of gums from <i>Prosopis Cineraria</i> seeds	DBT	2018
226	Jyoti Sontakke-Gokhale	M.Tech (FBT)	Aayushi Pal	Study of bioactive compounds and complete utilization of pineapple	DBT	2018
227	Jyoti Sontakke-Gokhale	M.Tech (FBT)	Srilekha K	Development of meal replacement beverages	DBT	2019

228	Jyoti Sontakke-Gokhale	M.Tech (FBT)	Aastha Jaiswal	Development of Plant based dair alternatives using legumes	DBT	2019
229	Jyoti Sontakke-Gokhale	M.Tech (BPT)	Reshma Dharade	Extraction of pectin from food processing waste	DBT	2018
230	Jyoti Sontakke-Gokhale	M.Tech (BPT)	Naorem Bela Devi	Production and purification of pullulanase using food processing waste	DBT	2019
231	Anant Ramakant Kapdi	Ph.D. (Sci)	Yuvraj Bhujbal	Development of Efficient Protocol for C-H AND C-X Bond activation Reaction via Metal-Catalyzed or Olvent assisted methodology	Rasayan	2016
232	Anant Ramakant Kapdi	Ph.D. (Sci)	Harshita Shet		ICT-IOC	2019
233	Anant Ramakant Kapdi	Ph.D. (Sci)	Santosh Kori		ICT-IOC	2019
234	Anant Ramakant Kapdi	Ph.D. (Sci)	Dhanashri Sable		ICT-IOC	2019
235	Anant Ramakant Kapdi	Ph.D. (Sci)	UdaySinh Parmar		Company employed	2020
236	Anant Ramakant Kapdi	Ph.D. (Sci)	Manisha Patel		CSIR/NET	2020
237	Anant Ramakant Kapdi	Ph.D. (Sci)	Rajesh Shhu		CSIR/NET	2020
238	Dr. Pintu Kumar Kundu	Ph. D. (Sci)	Pradeepruban J	Synthesis and Study of Azobenzene/Spiropyran-derived Molecules and Materials.	UGC-NET	2018

239		Ph. D. (Sci)	Aminul Islam Sk	Azobenzene/Spiropyran based N-Heterocyclic carbene and their metal complex to control the organic transformation.	DST-SERB	2019
240	Nitin Trivedi	Project Assistant	Mr. Himanshu Sati	Mari-culture waste generated seaweed biomass for agriculture, bioenergy and medical applications	DST, New Delhi	2018
241	Nitin Trivedi	Project Assistant	Mrs. Dhanshree Mone	Mari-culture waste generated seaweed biomass for agriculture, bioenergy and medical applications	DST, New Delhi	2020
242	Dr. Chandu S. Madankar	PhD	Anurag Bapat	Value added products from Guar Gum	Industry Sponcered Project	2021
243	Dr. Chandu S. Madankar	Mtech	Nitesh Umesh Kirmirwar	Studies on Chemical Composition and Antioxidant Activity of the Volatile Oil of Bamboo Leaves		2019
244	Dr. Chandu S. Madankar	Mtech	Ashwini Prabhakar Meshram	Studies on Classification, Physicochemical Properties and Future Applications of microbial surfactants		2019

245	Dr. Chandu S. Madankar	Mtech	Roza Anil Bagde	Studies on Biobased polyurathanes		2019
246	Dr. Chandu S. Madankar	Mtech	Sanket Champatrao Manure	STUDIES ON EXTRACTION OF SAPONIN SURFACTANT FROM RENEWABLE SOURCES		2019
247	Mathpati C S	Master	Ajay Verma	Experimental studies in anti-solvent crystallization	AICTE	July (2018)
248	Mathpati C S	Master	Robin Malhotra	2D CFD modelling of dual fluidized bed gasifier	AICTE	July (2018)
249	Mathpati C S	Master	Ulhas Rehpade	Evaluation of static mixers for mixing, heat transfer and multiphase dispersion application	AICTE	July (2019)
250	Mathpati C S	Master	Vardhan Kaushik	General Distillation Processes and their Process Intensification	AICTE	July (2019)
251	Mathpati C S	Ph.D. (Tech)	Prachi Dwidmuthe	Computational Fluid Dynamic Studies of Blood Flow in Human Arteries	UPL Ltd	June (2016)
252	Mathpati C S	Ph.D. (Tech)	Sandeep Gosavi	Computational and Experimental Study of Fluidization Phenomena	DAE-ICT	September (2013)

253	Mathpati C S	Ph.D. (Tech)	Niraj Kulkarni	Experimental and Computational Study of Packed Fluidization with Internal Heat Generation	DAE-BRNS	
254	Mathpati C S	Ph.D. (Tech)	Bhavesh Gajbhiye	Transport phenomena at solid-fluid and fluid-fluid interface: Computational fluid dynamics and flow visualization	DAE-ICT	September (2013)
255	Mathpati C S	Ph.D. (Tech)	Harshwardhan Kulkarni	Hydrodynamics of Wall Bounded Flow for Corrosion Erosion Problems	UGC-BSR	
256	Mathpati C S	Ph.D. (Tech)	Achyut Pakhare	The role of fluid mechanics and supersaturation fields on crystal size distribution and morphology of crystals	Industry Sponsored (Technoforce Solutions Industries Pvt Ltd)	September (2013)
257	Mathpati C S	Ph.D. (Tech)	Shivanand Teli	Studies in Transport Phenomena in Multiphase Reactors using Advanced computational tools	Teacher Category	December (2013)

258	Mathpati C S	Ph.D. (Tech)	Shrikant Mete	Scheduling of Energy Integrated Batch Process Networks	DST-SERB	August (2014)
259	Mathpati C S	Ph.D. (Tech)	Manali Kokare	Design and Control of Chemical Processes Using Process Simulators	UGC-BSR	
260	Mathpati C S	Ph.D. (Tech)	Chaitanya Moholkar	Data driven modeling and CFD studies of heat transfer in stirred tank reactors	DAE-ICT	
261	Mathpati C S	Ph.D. (Tech)	Rahul Parmane	To be finalized	Marathi Vidnyan Parishad	
262	Mathpati C S	JRF	Virendra Kumar	To be finalized	UPL Ltd	
263	Prof. S. T. Mhaske	Ph.D. (Sci.)	Neelam Jagtap	Development of Polymeric Binders	External Teacher Candidate	2020
264						2020
265	Dr. Pavan More	PhD	Nitin Lavande	Total oxidation of diesel engine exhaust and volatile organic compounds by using Cs and Mg doped $Mn_xCe_{1-x}O_2$ -y and $Cu_xCe_{1-x}O_2$ -y catalyst	SERB-DST	2017

266	Dr. Pavan More	PhD	Rahul More	Complete oxidation of diesel engine exhaust and volatile organic compounds by using non-noble metal catalyst	SERB-DST	2017
267	Dr. Pavan More	PhD	Jyoti Waikar	Catalytic oxidation of VOCs and Diesel exhaust on Mn and Co supported Ce _x -Al ₂ O ₃ -x and Sr _x -Al ₂ O ₃ -x catalyst	DST	2019
268	Dr. Aarti P. More	NA	NA	NA	NA	NA
269	Prof. A. W. Patwardhan	Ph.D (tech)	Nilesh V hendre	CFD Modeling of Asymmetric Rotating Disc Contactor	ICT- DAE	2015
270	Prof. A. W. Patwardhan	Ph.D (tech)	Chaitanya R. Mali	Thermal Hydraulics Studies on Boiling and Cavitation in Vertical Tubes	IGCAR	2015
271	Prof. A. W. Patwardhan	Ph.D (tech)	Dhiraj A Lote	Hydrodynamic of Multiphase Flow in Pipes	UGC	2015
272	Prof. A. W. Patwardhan	Ph.D (tech)	Shashank S. Tiwari	Numerical Studies of Flow Pattern in Single and Multiparticle Systems	ICT- DAE	2015

273	Prof. A. W. Patwardhan	Ph.D (tech)	Shruti Hinge	CFD Modeling of Gas-Liquid and Liquid-Liquid Systems	DAE-ICT	2016
274	Prof. A. W. Patwardhan	Ph.D (tech)	Pallavee P. Dhekne	Modeling of Infusion and Leaching Processes	Pidilite-Prof. M. M. Sharma	2016
275	Prof. A. W. Patwardhan	Ph.D (tech)	Amol Vilas Ganajire	Design Aspects of Gravity Settlers	ICT- DAE	2016
276	Prof. A. W. Patwardhan	Ph.D (tech)	Shrilekha Sawant	Modification of Carbon nanotubes; Synthesis, Characterization and Applications	DAE-ICT	2016
277	Prof. A. W. Patwardhan	Ph.D (tech)	Pratiksha M Biranje	Synthesis and application of graphene	DAE-ICT	2016
278	Prof. A. W. Patwardhan	Ph.D (tech)	Prafulli Mahakal	Hydrodynamics study of Asymmetric rotating Impeller column	Pidilite-Prof. M. M. Sharma	2019
279	Prof. A. W. Patwardhan	Ph.D (tech)	Sumit Hazare	Design and Simulation of Multiphase Reactors (Stirred Tank)	UPL (Discontinued)	2019
280	Prof. A. W. Patwardhan	Research Scholar	Nihal Rao	Design of LOHC dehydrogenation process	Reliance industries	2020
281	Prof. A. W. Patwardhan	Masters	Hatim Rangwala	Design of liquid-liquid extraction system	MHRD	2019
282	Prof. A. W. Patwardhan	Masters	Himanshu J. Sanklecha	Design modification of continuous gravity settler	MHRD	2019

283	Prof. Shreerang V. Joshi	Ph.D. (Sci)	Sandeep R. Avadutha	Synthesis of Biological active compound	DAE	22/02/2018
284	Prof. Shreerang V. Joshi	Ph.D. (Tech)	Pritam V. Bagwe	Synthesis of Biologically active peptide and related compound	DST- Indo-Hungary	5/3/2019
285	Prof. Shreerang V. Joshi	M. Pharm	Sheetal Godhinde	Green synthesis of theobromine cocrystals using Hot Melt Extrusion	AICTE (GPAT)	13/7/2019
286	Prof. Shreerang V. Joshi	M. Pharm	Nachiket Dandekar	Synthesis of an Apixban intermediate	AICTE (GPAT)	13/07/2018
287	Prof. Shreerang V. Joshi	M. Tech. (Pharma)	Nikita Jadhav	Synthesis of Prilocaine from toluene	Nil	13/07/2019
288	Prof. Shreerang V. Joshi	M. Tech. (Pharma)	Irfan Manulla	Synthesis of iron chelating agent (deferiserox)	Nil	13/07/2018
289	Prof. Shreerang V. Joshi	M. Tech. (Pharma)	Pratap Sarode	Synthesis of iron chelating agent (deferiprone)	Nil	13/07/2018
290	Prof. Shreerang V. Joshi	M. Tech. (Pharma)	Sanjiri Shelar	Process development for propofol synthesis	Nil	13/7/2019
291	Prof. Shreerang V. Joshi	M. Tech. (PBT)	Arun Kumar	Synthesis of Anserine peptide	DBT	13/7/2020

292	Prof. Shreerang V. Joshi	M. Tech. (PBT)	Khushboo Maurya	Study in synthesis of a tripeptide of industrial importance	DBT	27/06/2018
293	Prof. Vandana B. Patravale	Post-Doc	Sreeranjini P	Intranasal administration of multifunctional nanocarriers incorporating temozolomide and lactoferrin to combat glioblastoma multiforme	UGC	2018
294	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Namrata Kadwadkar	Novel Drug Deliveries for treating Hemoglobinopathies	UGC-SAP	2012
295	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Prachi Kharkar	Nanoengineered systems for Oncotherapy	UGC-BSR	
296	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Mangesh Sane	Development and Evaluation of Vascular Scaffolds	UGC-BSR	2013
297	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Rashmi Prabhu	Functionalized non-viral vectors for breast cancer therapy	DST-Inspire	2011

298	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Ankit Agrawal	Development of Innovative Micromachined Microstructures for Enhanced Drug Delivery	PM Fellowship	2013
299	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Sagar Dhoble	Dry Powder Inhalers for Pulmonary Hypertension	NA	2014
300	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Vinod Ghodake	Dry powder inhaler for cystic fibrosis infection	UGC-RGNF	2014
301	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Manasi Chogale	Novel Formulations for the Therapy of Tuberculosis	UGC-BSR	2013
302	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Shivraj Naik	Development of novel formulations for treatment of neurodegenerative diseases	UGC-BSR	2013
303	Prof. Vandana B. Patravale	Ph.D. (Sci.)	Swapnil Talkar	Gene Delivery for Cancer therapeutics	UGC-NET	2013
304	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Rohit Pawar	Development of novel diagnostic and treatment modules for infectious disease	UGC-BSR	2015
305	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Shrikant Dhage	Nutraceutical delivery using novel excipients	UGC-BSR	2015

306	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Prashant Upadhaya	Intranasal colloidal formulations for diagnostic and therapeutic applications	BRNS	2016
307	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Pratik Kakade	Solid lipidic nanocarrier system for topical delivery	PM Fellowship	2016
308	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Anjali Pandya	Design and Development of Oral Proteins and Peptides Delivery Systems	DST-Inspire	2017
309	Prof. Vandana B. Patravale	Ph.D. (Tech.)	Sarika Jadhav	Not yet decided	Neo-Innova Healthcare limited	2020
310	Pushpito K Ghosh	Mchem	Purva Walia	Forward Osmosis		
311	Pushpito K Ghosh	Mchem	Ankeeta Shriya	ED and NF Membrane		
312	Pushpito K Ghosh	Mtech GT	Nitish Upadhyay	Forward Osmosis		
313	Pushpito K Ghosh	Mtech GT	Raghav Soni	Green Extraction		
314	Pushpito K Ghosh	PhD	Bharat Honmane	Forward Osmosis		
315	Dr. Ravindra D. Kale	Ph.D. (Sci)	Srishti Tewari	N/A	UGC NET JRF	2020
316	Dr. Ravindra D. Kale	Ph.D. (Sci)	Babita U. Chaudhary	Application of biopolymers in packaging and textile industry	TEQIP III	2018
317	Dr. Ravindra D. Kale	Ph.D. (Sci)	Rohan C. Meshram	Metal deposition on textiles for electromagnetic shielding application	Maharashtra Government	2017

318	Shamlian M. S. Reshamwala	MTech (Bioprocess Technology)	Dhwani Gupta	Evaluation of xylitol production in native and recombinant host organisms	DBT	2019
319	Shamlian M. S. Reshamwala	MTech (Bioprocess Technology)	Mausumi Chaudhuri	Recombinant protein production in <i>Pichia pastoris</i>		2019
320	R.S.N.Sahai	Ph.D	Ashwin Diwakar Pathak			15-Dec-17
321	R.S.N.Sahai	Ph.D	Sumit Sahaji Surve			
322	R.S.N.Sahai	Ph.D	Pravin Nana Jadhav			28-Jan-18
323	R.S.N.Sahai	Ph.D	Swapnil Suresh Jayawant			29-Jun-19
324	R.S.N.Sahai	Ph.D	Vijendra Rajendra Chaudhari			
325	R.S.N.Sahai	Ph.D	Swapnil Madhukarrao Kondawar			21-Dec-19
326	R.S.N.Sahai	Ph.D	Umair Mukhtar Ahmad Mukhtar			21-Dec-19
327	R.S.N.Sahai	Ph.D	Mujahid Abdul Hameed Ansari			
328	R.S.N.Sahai	M.E	Vikrant goswami		AICTE-GATE	
329	R.S.N.Sahai	M.E	Arjun Vidyashankar Koli			13-Jul-18
330	R.S.N.Sahai	M.E	Swagata Ray Chaudhury			26-Jun-19
331	R.S.N.Sahai	M.E	Harshal janardan shatalwar			
332	R.S.N.Sahai	M.E	Sachin Anant Kamble			12-Jun-19

333	Prof. Radha V. Jayaram	Ph.D.	Tushar S. Deore	Synthesis and applications of ionic liquid surfactants and metallosurfactants	UGC-BSR	2011
334	Prof. Radha V. Jayaram	Ph.D.	Amber J. Sahani	Homogeneous catalysis in organic transformations using non-precious metal complexes	UGC-BSR	2012
335	Prof. Radha V. Jayaram	Ph.D.	Indrani Das Sen	Physicochemical properties and application of aqueous non-ionic surfactant Triton X-100		2013
336	Prof. Radha V. Jayaram	Ph.D.	Bhumika P. Patil	Industrial solid-waste treatment	UGC-BSR	2013
337	Prof. Radha V. Jayaram	Ph.D.	Kunal N. Pawar	Miceller catalysis for selective organic transformations	UGC-BSR	2015
338	Prof. Radha V. Jayaram	Ph.D.	Dattatraya V. Hase	Synthesis of novel N-based extractants for nuclear fuel reprocessing	UGC-BSR	2015
339	Prof. Radha V. Jayaram	Ph.D.	Amid L. Sadgar	Formation, stabilization and application of emulsions and micro emulsions	DAE-BRNS	2017

340	Prof. Radha V. Jayaram	Ph.D.	Hanuman N. Gaike	Green advantages of metallosurfactants in organic transformations	TEQIP-III	2018
341	Prof. Radha V. Jayaram	M. Tech Green Technology	Neha Kabade	Photo catalytic degradation of textile dyes using pervoskites as robust catalyst		
342	Prof. Radha V. Jayaram	M. Tech Green Technology	Tejal Dive	Synthesis Characterization and applications of activated carbon for improving water quality		
343	Prof. Radha V. Jayaram	M.Sc. Chemistry	Sampda Mhadam	Dual role of surfactant as a catalyst and reaction medium		
344	Prof. Radha V. Jayaram	M.Sc. Chemistry	Siddhi Patil	Extraction of cadmium using CHON based ligands		
345	Prof. Radha V. Jayaram	M.Sc. Chemistry	Amruta Bhalkar	Fade to pellucid:degradation of textile dyes		
346	Dr. Satyajit Saha	Ph.D (Sci)	Ms. Gauravi Bharat Yashwantrao	Synthesis and Process intensification of N-heterocycles by greener approach and its application	SARTHI (Govt. of Maharashtra)	2018

347	Dr. Satyajit Saha	MTech (Dyes)	Ms. Aditi Mete	Design, synthesis and photophysical studies of novel anthraquinone dyes	nil	2018
348	Dr. Satyajit Saha	MTech (Dyes)	Ms. Roshani Patil	Design and development of novel AIEgens and their applications	nil	2019
349	Dr. Satyajit Saha	MTech (Dyes)	Mr. Mustafa Chatariya	Design in development of carbazole based push-pull dyes and their applications	nil	2019
350	Dr. Satyajit Saha	MTech (Perfumery)	Ms. Anuradha Shewale	Design and synthesis of raspberry ketone analogues and its applications	nil	2018
351	Dr. Satyajit Saha	MTech (Perfumery)	Mr. Aditya Dhule	Structure Activity relationship to design odour active molecules and their applications	Mantri Fellowship	2019
352	Dr. Satyajit Saha	MTech (Perfumery)	Mr. Vishwanath Solpure	Structural analogues of novel odour active molecules	nil	2019
353	Manju Sharma	Phd	Ankur Jadhav	Setting Up demonstration Plant for 1 Ton MSW	DBT MSW Project	2019
354	Manju Sharma	Phd	Pooja More	DBT-Extension Project	DBT CEB	2016

355	Manju Sharma	Phd	Aniket Chavan	Biphasic Fermentation for Triacyl Glycerol Production (TAG) from Pretreated Lignocellulosic biomass Hydrolysates Using Mixed Microbial Cultures”	DBT-Biocare	2018
356	Dr. Surajit Some	Ph.D. (Sci)	Dattatray A. Pethsangave	Synthesis of graphene derivatives and their applications	UGC	2015
357	Dr. Surajit Some	Ph.D. (Sci)	Rahul V. Khose	Tunable laser properties of dye decorated graphene derivatives	BRNS-DAE	2015
358	Dr. Surajit Some	Ph.D. (Sci)	Pravin H. Wadekar	Development of graphene based supercapacitor employing improved protocols for preparation of graphene.	ONGC	2016
359	Dr. Surajit Some	Ph.D. (Sci)	Pratik S. Dhumal	Synthesis and characterization of spongy graphene materials for effluent treatment.	SARTHI (Government of Maharashtra)	2018

360	Dr. Surajit Some	Ph.D. (Sci)	Maresh P. Bondarde	Development of spongy graphene material for recovery of crude oil from effluent water	ONGC	2018
361	Dr. Surajit Some	Ph.D. (Sci)	Madhuri A. Bhakare	Green Approach Towards Synthesis of Conducting Paint from Biomass.	TEQIP	2018
362	Dr. Surajit Some	Ph.D. (Sci)	Kshama D. Lokhande	Synthesis, characterization and applications of graphene based composite.	UGC	2019
363	Dr. Surajit Some	Research Assistant	Dnyaneshwer K. Kulal	Synthesis of graphene based bio adsorbent waste stream treatment	CSIR	2017
364	Dr. Surajit Some					
365	Dr. Surajit Some					
366	Prof. S.P.Deshmukh	Master of Plastic Engineering	Kamlesh Jakhar	Optimization of material concentration and machine parameters for making Polymer gears		Dec 29,2020
367	Prof. S.P.Deshmukh	Master of Plastic Engineering	Jaynish Rameshbhai Amipara	Product Quality Improvement in Plastic Extrusion Calendaring Process through Venting Modification in Venting Vacuum System.		Dec 29,2020

368	Prof. S.P.Deshmukh	Master of Plastic Engineering	Rameshwari Dhondbaji Sawarkar	Enhancing the mechanical properties of epoxy composite using natural silk reinforcement	May 28,2019
369	Prof. S.P.Deshmukh	Master of Plastic Engineering	Sunny Narayandas Santwani	Design and Development of innovative plastic product for automotive application	Jun 30,2018
370	Prof. S.P.Deshmukh	Ph.D (Tech) Mechanical Engineering	Punit Vilas Gharat	Development of solar thermal technologies for substituting fossil fuels for medium temperature applications.	Oct 19,2020
371	Prof. S.P.Deshmukh	Ph.D (Tech) Mechanical Engineering	Shahid ali Ishtiyaque ahmed	Thermal Energy Storage using Phase Change Material	Nov 30,2018
372	Prof. S.P.Deshmukh	Ph.D (Tech) Mechanical Engg.	Prakash V. Shirsat	Development of Efficient Treatment System for Reuse of Municipal Wastewater	

373	Prof. S.P.Deshmukh	Ph.D (Tech) Electrical Engg.	Pragya Jain	Cost Effective Inverter With Improved Efficiency and Increased Stability by Cascading DC-DC Converter with MultiLevel Invertet		
374	Prof. S.P.Deshmukh	Ph.D (Tech) Mechanical Engg.	Jitendra S. Thombre			
375	Prof. S.P.Deshmukh	Ph.D (Tech) Mechanical Engg.	Rajesh K. Behra	Sustainability in Manufacturing for Small & Medium Scale Enterprises in Indian scenario		
376	Prof. S.P.Deshmukh	Ph.D (Tech) Mechanical Engg.	M. A. GulBarga			
377	Prof. S.P.Deshmukh	Ph.D (Tech) Mechanical Engg.	Ameya Kulkarni	Protocol for Design and scale up of equipment for postprocessing (drying) of grapes to raisins		
378	Prof. S.P.Deshmukh	Ph.D (Tech) Mechanical Engg.	Sharad V. Patil	Design and development of Novel pressure filter for filtration of Bauxite RED MUD		
379	Prof. S.P.Deshmukh	Ph.D (Tech) Mechanical Engg.	Sachin R. Shinde			

380	Prof. S.P.Deshmukh	Ph.D (Tech) in Plastic Engineering	Gowri Shankari S	Development of a simple novel polymer composite using industrial waste for high volume packaging applications		
381	Tiwari Shraeddha	PhD (Sci)	Jyoti K Dutta	Study of Reactivity and Selectivity of Chemical Processes in Microreactors	CSIR SRF	2015
382	Tiwari Shraeddha	PhD (Sci)	Muthu Marimmal Vivekanand	Synthesis and study of substituted N-confused tetraphenylporphyrin (NCTPP) and its metal complexes for potential application towards detection and control of environmental pollutants	DST WOS - B	2016
383	Tiwari Shraeddha	PhD (Sci)		Novel Applications of Deep Eutectic Solvents (DES) as Green Media for Developing Functional Materials: Experimental and Theoretical Approach	SARTHI Provisional admission	2019

384	Nitin Trivedi	Project Assistant	Mr. Himanshu Sati	Mari-culture waste generated seaweed biomass for agriculture, bioenergy and medical applications	DST, New Delhi	2018
385	Nitin Trivedi	Project Assistant	Mrs. Dhanshree Mone	Mari-culture waste generated seaweed biomass for agriculture, bioenergy and medical applications	DST, New Delhi	2020
386	VAIDYA P. D.	PhD (Tech)	Vinayak Kalekar	Aqueous-phase reforming of wet biomass	Department of Biotechnology	2018
387	VAIDYA P. D.	PhD (Tech)	Namrata Upreti	Biogas cleaning	Centre for High Technology	2019
388	VAIDYA P. D.	PhD (Tech)	Shaurya Mohan	Biogas cleaning	Centre for High Technology	2019
389	VAIDYA P. D.	PhD (Tech)	Rohini Zambre	Aqueous-phase reforming of wet biomass	Department of Biotechnology	2019
390	VAIDYA P. D.	PhD (Tech)	Urvashi Sarode	Green solvents for carbon dioxide capture	Department of Science and Technology	2019
391	VAIDYA P. D.	PhD (Tech)	Hitesh Rawate	Green solvents for carbon dioxide capture	Department of Science and Technology	2019
392	VAIDYA P. D.	PhD (Tech)	Nikhil Gor	Syngas-to-ethylene glycol conversion process	Reliance Industries Limited	2019

393	VAIDYA P. D.	PhD (Tech)	Abhijeet Kshirsagar	Studies in reactive absorption of NOx	Pidilite – Prof. M. M. Sharma Doctoral Fellowship	2018
394	VAIDYA P. D.	PhD (Sci)	Prabjna S. S. Babu	Hydrogen production by sorption-enhanced steam reforming	Teaching Category	2013
395	VAIDYA P. D.	Junior Research Fellow	Akash Chandole	Biogas-to-hydrogen conversion by sorption-enhanced reforming	Department of Science and Technology	2019
396	VAIDYA P. D.	M. Chem. Engg.	Debolina Deb	Thermodynamic analysis of steam reforming of bio-butanol	University Grants Commission	2018
397	VAIDYA P. D.	M. Chem. Engg.	Narendran Sunildutt	Green diesel production by hydrotreatment of jatropha oil	University Grants Commission	2018
398	VAIDYA P. D.	M. Chem. Engg.	Priyanuj Kakoty	Green diesel production by hydrotreatment of karanja oil	University Grants Commission	2019
399	VAIDYA P. D.	M. Tech. (Green Tech.)	Akash Shiledar	Wet air oxidation of distillery spent wash	None	2018
400	VAIDYA P. D.	M. Tech. (Green Tech.)	Sriram Sankar	Wet air oxidation of model compounds of distillery spent wash	None	2018
401	VAIDYA P. D.	M. Tech. (Green Tech.)	Yashraj Gandhi	Catalytic wet oxidation	None	2019

402	VAIDYA P. D.	M. Tech. (Green Tech.)	Suyash Purandare	Hydrotreatment of vegetable oil for production of green diesel	None	2019
403	VAIDYA P. D.	M. Tech. (Green Tech.)	Divya Patel	Catalytic hydrogenation of biomass-derived oxygenates	None	2019
404	Prof. P. R. Vavia	Master	Shridhar Pandurang Divate	Development and Evaluation of Probiotic Formulation	AICTE	2018
405	Prof. P. R. Vavia	Master	Pankaj Gupta	Solubility enhancement of Bromocriptine mesylate by cyclodextrin complexation	AICTE	2018
406	Prof. P. R. Vavia	Master	Meghana Ajit Rahane	Formulation and Development of Medicated gauze		2018
407	Prof. P. R. Vavia	Master	Yawalkar Ankita	Formulation and development of parenteral microsphere dosage form	AICTE	2019
408	Prof. P. R. Vavia	Master	Pagar Sakshi	Formulation and development of oral pharmaceutical dosage forms using hot-melt extrusion	AICTE	2019

409	Prof. P. R. Vavia	Master	Waghmare Shreya	Formulation and development of controlled release drug delivery system using hot-melt extrusion	2019
410	Prof. P. R. Vavia	Master	Yengade Punam	Complexation for enhanced rate of dissolution and bioavailability	2019
411	Prof. P. R. Vavia	Ph.D. (Tech.)	Subhash Ganesh Ingle	Silica Based Novel Drug Delivery System	2010
412	Prof. P. R. Vavia	Ph.D. (Tech.)	Nisha Ramraj Yadav	Development of Nanocarrier for Enhanced Brain Delivery	2012
413	Prof. P. R. Vavia	Ph.D. (Tech.)	Mahendra Kumar Prajapati	Surface Modified Targeted Nanocarrier for Anticancer Drug Delivery	2013
414	Prof. P. R. Vavia	Ph.D. (Tech.)	Mrunal Unmesh Patil	Formulation and Evaluation of Nano-carriers for Infectious Disease	2013
415	Prof. P. R. Vavia	Ph.D. (Tech.)	Rohan Vijayanand Pai	Computational Methods for Designing Surface Modified Nanocarriers as Drug Delivery Systems	2013

416	Prof. P. R. Vavia	Ph.D. (Tech.)	Ganesh Bhalchandra Shevalkar	Lipid Based Nanocarrier Systems for Poorly Soluble Drugs	UGC	2012
417	Prof. P. R. Vavia	Ph.D. (Tech.)	Mayank Rameshchandra Patel	Modified cyclic oligosaccharides based drug delivery system for anticancer drugs	DST	2012
418	Prof. P. R. Vavia	Ph.D. (Tech.)	Jadhav Dhananjay Shivaji	Cyclodextrin Based Nanocarrier as Drug Delivery Systems	UGC	2014
419	Prof. P. R. Vavia	Ph.D. (Tech.)	Sita V G	Lipidic Nanocarriers as Drug Delivery Systems	DST	2014
420	Prof. P. R. Vavia	Ph.D. (Tech.)	Pankaj Jadhav	Studies on application of amorphisation approaches for designing efficient	Industry	2012
421	Prof. P. R. Vavia	Ph.D. (Tech.)	Mahajan Ketan	Polyelectrolyte multilayered systems for the treatment of infectious diseases	UGC	2011
422	Prof. P. R. Vavia	Ph.D. (Tech.)	Manoj Ashok Pawar	Polymeric particulate drug delivery system for long term drug therapy	DSIR	2016
423	Prof. P. R. Vavia	Ph.D. (Tech.)	Satish Vishram Rojekar	Novel drug delivery approaches for anti-infective therapy	DST	2015
424	Prof. P. R. Vavia	Ph.D. (Tech.)	Shripawan Ganpatrao Kalaskar	Development of Novel drug delivery system	Industry	2018

425	Prof. P. R. Vavia	Ph.D. (Tech.)	Bramhanand Prakash Hanamannavar	Development of Novel drug delivery system	Industry	2018
426	V.R.Gaval	M.E (Plastic Engineering)	Sanjay Kumar Patel	Evaluation of Mechanical Properties of fly ash based polymer composites.	AICTE GATE	2018
427	V.R.Gaval	M.E (Plastic Engineering)	Nishant Kumar Dutta	Development of superior scratch resistance 2K clearcoat with paradigm shift for the properties consisting of flexibility, impact and recoat-ability.		2018
428	V.R.Gaval	M.E (Plastic Engineering)	Jagadish R	Analysis of Injection Molded Components using moldflow software	AICTE GATE	2019
429	V.R.Gaval	M.E (Plastic Engineering)	Naveen Nitin Tembhumikar	Optimization of injection molding parameter by using moldflow software and DOE		2019
430	V.R.Gaval	M.E (Plastic Engineering)	Shrikant Ravindra Jawade			2019

431	V.R.Gaval	Ph.D (Tech) Mechanical Engineering	Mahesh Dnyandev Divekar	Improvement of warpage prediction through integrative simulation approach for thermoplastic material	2018
432	V.R.Gaval	Ph.D (Tech) Mechanical Engineering	Sachin Ganeshrao Solanke	Improvement in Tribological properties of bioimplant materials For Orthopedic Applications.	AICTE ST fellowship 2018
433	V.R.Gaval	Ph.D (Tech) Mechanical Engineering	Ravindra Kashiram Garmode	Selection of Material for a Small Wind Turbine Blade using Multi- Criteria Decision Making Technique	2018
434	V.R.Gaval	Ph.D (Tech) Mechanical Engineering	Md Modassir Hussain	Tribological Study of Sustainable Biodegradable lubricants for Hydrodynamic Journal Bearing application.	AICTE NDF 2019

435	V.R.Gaval	Ph.D (Tech) Mechanical Engineering	Raghunandan kadge	Evaluation of Mechanical properties of wallowstone filled hybrid composites		
436	V.R.Gaval	Ph.D (Tech) Mechanical Engineering	Amey Phanse	Resin infused natural fiber filled hybrid composites		2018
437	V.R.Gaval	Ph.D (Tech) Mechanical Engineering	Ravindra Gode			2018
438	V.R.Gaval	Ph.D (Tech) Mechanical Engineering	Sajjan lal	Selection of coating material for enhancing life of deflector roll in entry/exit of cold rolling mill		2018

439	V.R.Gaval	Ph.D (Tech) Mechanical Engineering	Uddhav Nimbalkar	Modelling & experimental validation of fluidized bed drying of mineral salts prepared by spray drying from aqueous solution		2019
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List of Seminars and Conferences

Sr. No.	Faculty Name	Type	National/ International	Duration	Location	Organized by
1	V.R.Gaval	Attended workshop on " Holistic Development for personal & professional excellence at ESCI	National	29-31 july 2019	Hyderabad	ESCI
2	V.R.Gaval	Attended workshop on " Recruitment procedures and latest order & policy on reservation for EWS along with SC/ST/OBC/PWBD/EXSERVICEMEN and Recasting of post based roster	National	28-30 Aug 2019	Goa	SIERD
3	V.R.Gaval	Fifth international conference on polymer processing and characterization	international	11-13 october 2019	Kottayam	MG university kottayam
4	V.R.Gaval	3rd International conference on Mechanical Engineering and applied composite materials	international	22-23 November 2019	Singapore	MEACM 2019
5	V.R.Gaval	International conference on advances in mechanical engineering	international	10-11 January 2020	Nagpur	VNIT Nagpur

6	Prof. P. R. Vavia	Annual Convention	National	13th – 14th September	Moga, Punjab	Indian Hospital Pharmacist Association
7	Prof. P. R. Vavia	FDP	National	18th-19th September	Vadodara, Gujarat,	Parul Institute of Pharmacy and Research
8	Prof. P. R. Vavia	FDP	National	9th-18th December	Warananagar, Maharashtra	SWVSM's Tatyasah eb Kore College of Pharmacy
9	Prof. P. R. Vavia	Seminar	International	13 th - 14 th January	Pune, Maharashtra	Sinhgad College of Pharmacy
10	Prof. P. R. Vavia	FDP	National	20th January—1stFebruary	Ahmedabad, Gujrat	L. M. College of Pharmacy

1 1	Prof. P. R. Vavia	Conference	International	14 th and 15 th February	Nagpur, Maharashtra	Ambe Durga Education Society Dadasah Belpande College of Pharmacy
1 2	Prof. P. R. Vavia	Conference	International	24th-26th October	Gandhinagar, Gujrat	National Institute of Pharmaceutical Education and Research Ahmedabad
1 3	Nitin Trivedi	Extremophilic bioprocessing for Industrial Biotechnology" workshop	National	August 7-9, 2019	Goa	National Institute of Oceanography, Goa

1 4	Nitin Trivedi	International Conference on Plant Biofactories: Strategies & Challenges (PBSC 2019)	International		December 19-21, 2019	Mumbai	Ramnarain Ruia College, Mumbai in association with Society for Plant Research (VEGETOS), New Delhi.
1 5	Nitin Trivedi	India Science Festival	National		January 11-12, 2020	Pune	IISER, Pune
1 6	Nitin Trivedi	Change, Environmental Health and Sustainable Development Goals in Post COVID-19 World"	National e-conference		June 4-5, 2020	New Delhi	USEM, GGS IP University, New Delhi.
1 7	Nitin Trivedi	INYAS-CUPB Lecture Workshop "tangled bank	National e-workshop		May 31 to June 5, 2020	Bathinda	INYAS & Department of Botany, Central University of Punjab
1 8	Nitin Trivedi	Five Webinar Series on "Patent Searching, Drafting and Filing" for Scholars, Faculty and Professionals	National webinar		May 31 to June 2, 2020	Mumbai	Turnip Innovations

19	Nitin Trivedi	Science Leadership workshop	National e-workshop	June 22-28, 2020	Bathinda	Central University of Punjab, Bathinda
20	Nitin Trivedi	Infection, prevention, and control (IPC) for Novel Coronavirus (COVID-19)	International e-course	Apr-20	Switzerland	WHO
21	Nitin Trivedi	Corona Virus as Karma: Why preventing biodiversity loss is our best vaccine against next COVID-19	National webinar	May 22, 2020	Bathinda	Department of Botany, CUP, Bathinda
22	Nitin Trivedi	Tips to save hundreds of hours writing research papers	International webinar		USA	Web of Science, A Clarivate analytics
23	Nitin Trivedi	Virtual tour of Seakura's R&D farm	International webinar	May 13, 2020	Israel	Seakura pvt ltd
24	Nitin Trivedi	Emerging therapeutic targets for SARS-CoV-2 and assessment of the most promising strategies for defeating Coronavirus	National webinar	May-20	Mehsana, Gujarat	Ganpat University, Mehsana
25	Nitin Trivedi	Seaweed Biodiversity of India: Current Knowledgebase and identifying gaps, challenges, and Opportunities	National webinar	May 16, 2020	Chennai	AARI, Medipakkam

26			National	25th July 2019	CSIR-CSCMRI, Bhavnagar, Gujrat	National Seminar on Catalysis for Fine Chemicals (NSCFC)
27			International 18th Oct-21st Oct 2019	18th Oct-21st Oct 2019	University of Delhi	J-NOST-2019, University of Delhi
28			International 18th Oct-21st Oct 2019		University of Delhi	J-NOST-2019, University of Delhi
29			International 18th Oct-21st Oct 2019	8 th and 9 th Jan 2020	Surendranath College, Kolkata	Innovation, Expansion, Impacts and Challenges in Chemical and Biological Sciences, Surendranath College

30				VirtCon-2020, recent Trends in Basic and Applied Science-2020 National	7th July 2020	BGC college Kolkata	BGC college
31	Prof. Radha V. Jayaram	Talk		National	20th July 2019	Mumbai	BRNS Talk organized by IWSA, Sophia college, Mumbai
32	Prof. Radha V. Jayaram	Talk		National	12th Jan 2020	Valsad, Gujrat	BKM Science College, Valsad
33	Prof. Radha V. Jayaram	Talk		National	17th Jan 2020	Jalna	ICT Jalna Campus
34	Prof. Radha V. Jayaram	Talk		National	17th Jan 2020	Jalna	ICT Jalna Campus
35	Prof. Radha V. Jayaram	Talk		National	18th Jan 2020	Kalyan	B. K. Birla College of Arts, Science and Commerce, Kalyan
36	Prof. Radha V. Jayaram	Talk		National	18th Jan 2020	Mumbai	Indian Women Scientists Association (IWSA), Navi Mumbai

37	Dr. Ravindra D. Kale	Faculty Development Program-Student (FDP-SI) Induction	National	5th to 7th March 2020	Katra, Jammu	Shri Mata Vaishno Devi University, Katra
38	Dr. Ravindra D. Kale	International conference on smart materials for sustainable technology	International	22-25 Feb 2020	Goa	Society for Interdisciplinary Research in Materials and Biology (IIT Varanasi, IIT Delhi, IIT Goa, SINP Kolkata)
39	Dr. Ravindra D. Kale	Innovative Approaches for the development of Sustainable Textile Products and Processes	International	9-10 Feb 2020	Kolkata	West Bengal State Centre of the Institution of Engineers
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4 1	Prof. Vandana B. Patravale	FDP	National	8th July 2019 to 18th July 2019	Karjat, Maharashtra	Konkan Gyanpeet h Rahul Dharkar College of Pharmac y & Research Institute, Karjat, Dist. Raigad (Mumbai) , Maharas htra
4 2	Prof. Vandana B. Patravale	FDP	National	21st November 2019	Karad, Maharashtra	Rashtriya Uchchata r Shiksha Abhiyan (RUSA) and Ministry of Human Resource Develop ment (MHRD), Governm ent of India.
4 3	Prof. Vandana B. Patravale	seminar	National	14th May 2020	online platform	APTI, India

4 4	Prof. Vandana B. Patravale	Conference	International	28th May 2020	online platform	NUS Industry Roundtable Series – Future Health Explain My Research : Drug Delivery and Precision Medicine
4 5	Prof. Vandana B. Patravale	FDP	National	20-25th May 2020	online platform	Teachers and Ethics: Balance in Research, Teaching , Socio- professional Values and Attitude”
4 6	Prof. Vandana B. Patravale				online platform	

47	Prof. Vandana B. Patravale	FDP	National	1st June 2020	online platform	Assam Down town university, Assam
48	Prof. Vandana B. Patravale	FDP	National	22nd June 2020	online platform	BNCP, Mumbai
49	Prof. Vandana B. Patravale	Seminar	National	26th June 2020	online platform	Sharadch andr Pawar College of Pharmacy pune
50	Prof. Vandana B. Patravale	seminar	National	11th July 2020	online platform	Indian society for veterinary medicine, India
51	Prof. Prashant S. Kharkar	Seminar	National	3/5/2020	Mumbai	Institute of Chemical Technology and MultiCas e, Inc.
52	Prof. A. W. Patwardhan	2 nd International Conference on Nanoscience and Nanotechnology, Vellore Institute of Technology, Vellore (ICNAN'19)	International	29 Nov-2 Dec, 2019	VIT, Vellore	VIT, Vellore

5 3	Prof. A. W. Patwardhan	7th International Conference on Advances in Energy Research (ICAER 2019)	International	10-12 Dec, 2019	IIT, Mumbai	IIT, Mumbai
5 4	Prof. A. W. Patwardhan	Conference: CompFlu 2019	International	December 5 - 7, 2019	Institute of Science Education and Research Bhopal (IISER), Bhopal, India.	Indian Society of Rheology
5 5	Prof. A. W. Patwardhan	46th National Conference on Fluid Mechanics and Fluid Power (FMFP)	National	December 9-11, 2019	PSG College of Technology, Coimbatore	The National Society for Fluid Mechanics and Fluid Power
5 6	Prof. A. W. Patwardhan	International conference of Ecomaterial -14	International	5 Feb-8 Feb, 2020	CSIR NIIST, Thiruvananthapuram, Kerala	CSIR NIIST, Thiruvananthapuram, Kerala

5 7	Prof. A. W. Patwardhan	International conference on advances in chemical engineering- 2020 AdChE- 2020	International	5 Feb- 7 Feb, 2020	Dehradun, India	Department of Chemical Engineering, University of Petroleum and Energy Studies
5 8	Prof. A. W. Patwardhan	International Conference on Advances in Chemical Engineering-2020 AdChE- 2020	International	5 Feb- & 7th Feb 2020	Dehradun, India	Department of Chemical Engineering, University of Petroleum and Energy Studies
5 9	Prof. A. W. Patwardhan	2nd International Conference on Nanoscience and Nanotechnology (ICNAN'19)	International	29 Nov-2 Dec, 2019	VIT, Vellore	VIT, Vellore
6 0	Prof. A. W. Patwardhan	International conference on advances in chemical engineering- 2020 AdChE- 2020	International	5-7 February 2020	Dehradun, India	Department of Chemical Engineering, University of Petroleum

									m and Energy Studies
6 1	Paresh Salame	Symposium	National	23-Dec-18	Hisar	DAE			DAE
6 2	Paresh Salame	Workshop	National	19-Oct-2020 to 23-Oct-2020	Jaipur	TEQIP-III			
6 3	Paresh Salame	Workshop	National	22-Sep-2020 to 24-Sep-2020	Mumbai	UGC-DAE			
6 4	Paresh Salame	Conference	International	11-Jul-20	Nagpur	Sant Gadge Maharaj Mahavidyalaya			
6 5	Paresh Salame	Conference	International	10-Aug-20	Kolhapur	Krishna Mahavidyalaya			
6 6	Dr. Aarti P. More	NA	NA	NA	NA	NA			
6 7	Dr. Pavan More	Orientation program	National	4th to 23rd Nov. 2019	Mumbai	University of Mumbai			
6 8	Mohan Narayan	Train the trainers on examination reforms	National	4/12/2020 to 7/12/2020	Online	BVB collage of engineering & Technology			

69	Prof. S.T. Mhaske	Characterization of polymer and polymeric products	National	17-Sep-19	ICT, Mumbai	Dept. of polymer and surface engineering
70		Industrial expert lecture	National	16-Oct	ICT, Mumbai	Dept. of polymer and surface engineering
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76	Dr. Chandu S. Madankar	One week Management Development Programme for teaching staff conducted by Engineering Staff Collage of India in Ooty from	National	24/05/2019 to 28/05/2019	Ooty	Engineering Staff Collage of India, Hyderabad

77	Dr. Chandu S. Madankar	GIAN, MHRD sponsored one week course on "Nanotechnology Advances and challenges in Engineering materials and manufacturing" from 8-13 July, 2019 in VJTI Mumbai.	National	8-13 July, 2019	Mumbai	VJTI Mumbai
78	Dr. Chandu S. Madankar	Workshop on "Decoding Cyber Security Crimes" from 19-21 August, 2019 in ICT Mumbai.	National	19-21 August, 2019	Mumbai	ICT Mumbai
79	Dr. Chandu S. Madankar	FDP on 'Characterization and Analysis of Materials' held during 23-28 Dec 2019 at VJTI Mumbai	National	23-28 Dec 2019	Mumbai	VJTI Mumbai
80	Dr. Chandu S. Madankar	International conference on Chemical Bio and Environmental Engineering (CHEMBOEN 2020) held at Dept of Chemical Engineering, NIT Jalandhar	International	13-14 Feb 2020.	Jalandhar	NIT Jalandhar
81	Dr. Chandu S. Madankar	AICTE Training And Learning (ATAL) Academy Online FDP on "Alternate Fuels" from 01/09/2020 to 05/09/2020 at Engineering College Bikaner.	National	01/09/2020 to 05/09/2020	Bikaner	Engineering College Bikaner.

8 2	Dr. Chandu S. Madankar	AICTE Training And Learning (ATAL) Academy Online FDP on "Green Technology & Sustainability Engineering"" from 26/10/2020 to 30/10/2020 at Sardar Vallabhbhai National Institute of Technology, Surat.	National		26/10/2020 to 30/10/2020	Surat	SVNIT Surat
8 3	Gunjan Prakash	Conference	International		14/07/2019 to 19/07/2019	Norwich, UK	EMBO
8 4	Dr. Gunjan Prakash	Symposia	National		23/08/2019 to 25/08/2019	NITK, Suratkal	NITK, Suratkal
8 5	Dr. Gunjan Prakash	Conference	International		19/12/2019 to 21/12/2019.	Mumbai	VEGETO S, Society for Plant research. In collaboration with RUJA

86	Dr. Gunjan Prakash	Conference	International	31/01/2020 to 01/02/2020	Pune	MIT School of Bioengin eering Sciences & Research
87	Dr. Gunjan Prakash	Conference	National	3/13/2019	Institute of Chemical Technology	Institute of Chemical Technolo gy
88	Dr. Gunjan Prakash	Training School	International	1/06/2019 to 31/08/2019	University College London	DBT/Briti sh Council
89						
90	Nitin Trivedi	Extremophilic bioprocessing for Industrial Biotechnology" workshop	National	August 7-9, 2019	Goa	National Institute of Oceanogr aphy, Goa

9 1	Nitin Trivedi	International Conference on Plant Biofactories: Strategies & Challenges (PBSC 2019)	International		December 19-21, 2019	Mumbai	Ramnarain Ruia College, Mumbai in association with Society for Plant Research (VEGETOS), New Delhi.
9 2	Nitin Trivedi	India Science Festival	National		January 11-12, 2020	Pune	IISER, Pune
9 3	Nitin Trivedi	Change, Environmental Health and Sustainable Development Goals in Post COVID-19 World"	National e-conference		June 4-5, 2020	New Delhi	USEM, GGS IP University, New Delhi.
9 4	Nitin Trivedi	INYAS-CUPB Lecture Workshop "tangled bank	National e-workshop		May 31 to June 5, 2020	Bathinda	INYAS & Department of Botany, Central University of Punjab
9 5	Nitin Trivedi	Five Webinar Series on "Patent Searching, Drafting and Filing" for Scholars, Faculty and Professionals	National webinar		May 31 to June 2, 2020	Mumbai	Turnip Innovations

96	Nitin Trivedi	Science Leadership workshop	National e-workshop	June 22-28, 2020	Bathinda	Central University of Punjab, Bathinda
97	Nitin Trivedi	Infection, prevention, and control (IPC) for Novel Coronavirus (COVID-19)	International e-course	Apr-20	Switzerland	WHO
98	Nitin Trivedi	Corona Virus as Karma: Why preventing biodiversity loss is our best vaccine against next COVID-19	National webinar	May 22, 2020	Bathinda	Department of Botany, CUP, Bathinda
99	Nitin Trivedi	Tips to save hundreds of hours writing research papers	International webinar		USA	Web of Science, A Clarivate analytics
100	Nitin Trivedi	Virtual tour of Seakura's R&D farm	International webinar	May 13, 2020	Israel	Seakura pvt ltd
101	Nitin Trivedi	Emerging therapeutic targets for SARS-CoV-2 and assessment of the most promising strategies for defeating Coronavirus	National webinar	May-20	Mehsana, Gujarat	Ganpat University, Mehsana
102	Nitin Trivedi	Seaweed Biodiversity of India: Current Knowledgebase and identifying gaps, challenges, and Opportunities	National webinar	May 16, 2020	Chennai	AARI, Medipakkam

1 0 3	Dr. Pintu Kumar Kundu	Orientation program	National	2nd December- 21st December, 2019	University of Mumbai	UGC- HRDC, University of Mumbai
1 0 4	Dr. Pintu Kumar Kundu	Conference: MEDCHEM-2019. 'Natural Product Prospecting for Therapeutic Applications'	National	(1st Nov- 2nd November, 2019)	Indian Institute of Technology, Madras	Indian Institute of Technolo gy, Madras
1 0 5	Dr. Pintu Kumar Kundu	Conference: OTAI 2019. 'Latest Techniques in Instrumental Analysis'	National	14th December 2019	Institute of Chemical Technology, Mumbai	Institute of Chemical Technolo gy, Mumbai
1 0 6	Jyoti Sontakke- Gokhale	Training	National	24-Jan-20	Mumbai	ITCFSAN
1 0 7	Prof. J. B. Joshi	Lecture in Bioprocessing India 2019 (BPI 2019) conference	National	December 14, 2019	Mysuru	CSIR_CF TRI

108	Prof. J. B. Joshi	10th Prof M.N. Rao memorial Lecture	National		August 19th 2020	IIT Kharagpur	Department of Chemical Engineering and the Indian Institute of Chemical Engineers, Kharagpur Regional Centre
109	Prof. J. B. Joshi	Lecture in Inaugural Ceremony of Science and Innovation Activity Centre, Amravati	National		December 27th , 2019	Amravati Unniversity	Shri Shivaji Education Society, Amravati
110	Prof. J. B. Joshi	SIES Graduate School of Technology	National		April 27th , 2019	Navi Mumbai	SIES Graduate School of Technology
111	Prof. J. B. Joshi	Collaboration on Pyrolysis and cook stoves	International		July 8th-9th, 2019	MIT Boston	MIT Boston
112	Prof. J. B. Joshi	Lecture and discussion on Chemical looping	International		July 10th-11th , 2019	The Ohio state university	Columbus

1	Prof. J. B. Joshi	The 14th International Conference on Gas-Liquid and Gas-Liquid-Solid Reactor Engineering (GLS-14)	International	May 30th-June 3rd, 2019	China
1 1 4	HK Chaudhari	Oriention Programme	National	22nd Jan to 8th Feb 2020	UGC HRDC University of Mumbai
1 1 5		Faculty Development Program for Student Induction (FDP-SI)	National	5 - 7 March, 2020	AICTE Shri Mata Vaishno Devi University, Katra Jammu
1 1 6		ARPIT Online Refresher Course In Pharmacy For Higher Education		Feb-20	NTA MHRD
1 1 7	Hitesh Pawar	Workshop	National	9-12 th February 2020.	Government Engineering College Keonjhar Dist. Bhuvneswar, Odisha.

1 1 8	Hitesh Pawar	Lecture Series	National	13th March 2020.	Pune	School of Chemical Engineering, MIT Engineering Academy Pune.
1 1 9	Hitesh Pawar	Conference	National	31 January to 1st February 2020	Jalgaon	KBC North Maharashtra University Jalgaon.
1 2 0	Hitesh Pawar	Workshop	National	3-7 October 2019	Jalgaon	KBC North Maharashtra University Jalgaon.

1	Hitesh Pawar	Conference	National	6th -8th Feb 2017	Delhi	SAFEHE RB workshop DBT-ICGEB Centre for Advanced Bio Energy Research International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India.
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1	Hitesh Pawar	FDP	National	27th July-31 July 2020	IISER Bhopal	PMMMN MTT IISER Bhoal
2						
2						
1	Hitesh Pawar	FDP	National	20 July-22 July 2020	IISER Bhopal	PMMMN MTT IISER Bhoal
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3						

1 2 4	Hitesh Pawar	FDP	National	21 Sept-25 Sept 2020	AICTE Training And Learning (ATAL) Academy	Giani Zail Singh Campus College of Engineeri ng & Technolo gy MRSPTU
1 2 5	Hitesh Pawar	FDP	National	9 Sept-11 Sept 2021	AICTE Training And Learning (ATAL) Academy	Christian College of Engineeri ng & Technolo gy.
1 2 6	Hitesh Pawar	FDP	National	19 October- 23 October 2020	Malaviya National Institute of Technology Jaipur	MNIT Jaipur
1 2 7	Gunjan Prakash	Conference	International	14/07/2019 to 19/07/2019	Norwich, UK	EMBO
1 2 8	Dr. Gunjan Prakash	Symposia	National	23/08/2019 to 25/08/2019	NITK, Suratkal	NITK, Suratkal

1 2 9	Dr. Gunjan Prakash	Conference	International	19/12/2019 to 21/12/2019.	Mumbai	VEGETO S, Society for Plant research. In collaborat ion with RUJA
1 3 0	Dr. Gunjan Prakash	Conference	International	31/01/2020 to 01/02/2020	Pune	MIT School of Bioengin eering Sciences & Research
1 3 1	Dr. Gunjan Prakash	Conference	National	3/13/2019	Institute of Chemical Technology	Institute of Chemical Technolo gy
1 3 2	Dr. Gunjan Prakash	Training School	International	1/06/2019 to 31/08/2019	University College London	DBT/Briti sh Council
1 3 3						

1 3 4	Dr. Prerna Goswami	3rd International Conference on Intelligent Sustainable Systems	International		03/12/2020 to 05/12/2020	SCAD Institute of Technology, Palladam, India	IEEE & SCAD Institute of Technolo gy, Palladam ,India
1 3 5	Dr. Prerna Goswami	3rd International Conference on Materials Engineering & Science (IconMEAS 2020)	International		28/12/2020 to 30/12/2020	Kuala Lumpur – Malaysia	Elsevier & Universiti Malaysia Perlis
1 3 6	Dr. Prerna Goswami	SCHEMCON 2019	National		17/10/2019 to 18/10/2019	SRICT, Ankleshwar	SRICT, Ankleshw ar
1 3 7	Dr. Prerna Goswami	Virtual IEEE International Conference on Power, Energy, Control and Transmission Systems	International		10/12/2020 to 11/12/2020	SEC, CHennai, Tamilnadu(O nline)	IEEE and SEC Chennai
1 3 8	Dr. Prerna Goswami	IEEE INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE FOR SMART POWER SYSTEM AND SUSTAINABLE ENERGY, (CISPSSE 2020)	International		29/07/2020 to 31/07/2020	Government College of Engineering, Keonjhar, Odisha.	IEEE & GCE Keonjhar

1 3 9	Dr. Prerna Goswami	IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC) 2020	International		25/08/2020 to 26/08/2020	Visvesvaraya National Institute of Technology, Nagpur, M.S., India.	IEEE & VNIT Nagpur
1 4 0	Dr. Prerna Goswami	ICCTAW-2020: International Conference on Computing Technologies for transforming the Automated World	International		18/04/2020 to 19/04/2020	Atharva College of Engineering, Mumbai	Atharva College of Engineeri ng, Mumbai
1 4 1	Dr. Prerna Goswami	9th International Conference on Power and Energy Systems (ICPES)	International		10/12/2019 to 12 /12/2019	Murdoch University, 90 South Street, Murdoch, Perth, WA, 6150, Australia	Internatio nal Conferen ce on Power and Energy Systems (ICPES), Murdoch University
1 4 2	Dr. Prerna Goswami	ICCTAW-2020: International Conference on Computing Technologies for transforming the Automated World	International		18/04/2020 to 19/04/2020	Atharva College of Engineering, Mumbai	Atharva College of Engineeri ng, Mumbai

1 4 3	Dr. Prerna Goswami	Virtual IEEE International Conference on Power, Energy, Control and Transmission Systems	International		10/12/2020 to 11/12/2020	SEC, Chennai, Tamilnadu (Online)	IEEE and Sri Sairam Engineering college, Chennai
1 4 4	Dr. Prerna Goswami	CISPSSE 2020: International Conference on Computational Intelligence for smart power system and sustainable energy	International		29/07/2020 to 31/07/2020	Government College of Engineering, Keonjhar, Odisha.	IEEE & Government College of Engineering, Keonjhar, Odisha.
1 4 5	Dr. Prerna Goswami	FDP on Applications of Different Control techniques for Sustainable Energy	National		(08/09/2020 to 12/09/2020)	Government College of Engineering, Keonjhar, Odisha.	TEQIP, ICT and GCE Keonjhar
1 4 6	Dr. Prerna Goswami	IEEE INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE FOR SMART POWER SYSTEM AND SUSTAINABLE ENERGY, (CISPSSE 2020)	International		29/07/2020 to 31/07/2020	Government College of Engineering, Keonjhar, Odisha.	IEEE and GCE keonjhar
1 4 7	Parag R Gogate	Refresher course on Chemical Engineering	National		Feb-19	Mumbai	Indian Chemical Council

1 4 8	Invited lecture	National	Feb-19	Thanesar, Haryana	Kurukshetra University
1 4 9	Refresher course on Chemical Engineering	National		Cuddalore, TN	Indian Chemical Council – Southern Regional Center
1 5 0	Invited lecture	National		Mumbai	Cipla
1 5 1	Refresher course on Chemical Engineering	National	Aug, Sept-19	Mumbai	ICT for BPCCL
1 5 2	Workshop on Renewable Resources & Sustainable Technologies	National	Sep-19	Guwahati	
1 5 3	AOSS 4	International	Sep-19	China	Nanjing University
1 5 4	Refresher course on Chemical Engineering	National	Oct-19	Mumbai	AMIC
1 5 5	Invited lecture	International	Oct-19	Ukraine	Lviv Polytechnic, Ukraine
1 5 6	Invited lecture	International	Oct-19	Ukraine	Lviv Polytechnic, Ukraine

1 5 7	Refresher course on Chemical Engineering	National	Nov, Dec-19	Mumbai	Indian Chemical Council
1 5 8	Invited talk at Annual Convention	National	Dec-19	Jaipur	INAE
1 5 9	Refresher course on Chemical Engineering	National	Feb-20	Mumbai	Indian Chemical Council
1 6 0	National Convention of Institution of Engineers	National	5/6th Sept 2019	Guwahati	Institute of Engineers (IEI)
1 6 1	Workshop on "Renewable Resources and Sustainable Development"		4&5th September 2019,	at Guwahati	ASTU, Aasam
1 6 2	Workshop		9th Sept 2019	Tezpur	Tezpur University
1 6 3	International Conference in Advances in Chemical Engineering	International	4-7th February 2020	Dehradun	UPES
1 6 4	International Conference in Advances in Chemical Engineering	International	4-7th February 2020	Dehradun	UPES
1 6 5	International Conference in Advances in Chemical Engineering	International	4-7th February 2020	Dehradun	UPES
1 6 6	Workshop	National	Feb-20	NIRRH	ICMR

1 6 7	Dr.Prajakta dandekar jain	Conference	International	20-Jan	Mumbai	European Organ- on-chip Society ICMR
1 6 8	Dr.Prajakta dandekar jain	Workshop	National	Feb-20	NIRRH	
1 6 9	Dr.Prajakta dandekar jain	Conference	International	20-Feb	Mumbai	Controlle d Release Society- Indian Chapter
1 7 0	Dr.Prajakta dandekar jain	Conference	International	20-Feb	Mumbai	Controlle d Release Society- Indian Chapter
1 7 1	Dr.Prajakta dandekar jain	Conference	International	20-Feb	Mumbai	Controlle d Release Society- Indian Chapter
1 7 2	Dr.Prajakta dandekar jain	Conference	International	20-Feb	Mumbai	Controlle d Release Society- Indian Chapter

1 7 3	Dr.Prajakta dandekar jain	Conference	International	20-Feb	Mumbai	Controlled Release Society- Indian Chapter
1 7 4	Dr.Prajakta dandekar jain	Conference	International	20-Feb	Mumbai	Controlled Release Society- Indian Chapter
1 7 5	Dr.Prajakta dandekar jain	Conference	International	20-Feb	Mumbai	Controlled Release Society- Indian Chapter
1 7 6	Dr.Prajakta dandekar jain	Conference	International	20-Feb	Mumbai	Controlled Release Society- Indian Chapter
1 7 7	Dr.Prajakta dandekar jain	Conference	National	1-Dec	Indian Institute of Technology-Delhi, India	Bioprocessing India
1 7 8	Dr.Prajakta dandekar jain	Conference	National	1-Dec	Indian Institute of Technology-Delhi, India	Bioprocessing India

1 7 9	Dr. Sathish Dyawanapelly	Faculty Development Programme (FDP) on "Research Writing, Publishing, and Presentation"	National		Feb, 3rd-7th 2020	Varanasi	IIT-BHU
1 8 0	Dr. Sathish Dyawanapelly	Faculty Development Program (FDP): Fundamentals of Effective Teaching, Learning and Assessment in Higher Education	National		September 07th – 11th, 2019	Bhopal	IISER- Bhopal
1 8 1	Dr. Sathish Dyawanapelly	Faculty Development Program (FDP): Short term course on Scanning Electron Microscopy Imaging, EDS & EBSD	National		June, 16th - 21st June, 2019		IIT- Roorkee
1 8 2	Prof. Padma V. Devarajan	Conference	National		1-5 th June 2020	Online	Disso research presentati ons India (DRPI) 2020 Online
1 8 3	Prof. Padma V. Devarajan	Conference	National		1-5 th June 2020	online	Disso research presentati ons India (DRPI) 2020 Online

1 8 4	Prof. Padma V. Devarajan	Conference	National	5 th June 2020	online	Disso research presentati ons India (DRPI) 2020 Online
1 8 5	Prof. Padma V. Devarajan	Conference	International	12-15 th February	DAE-Convention centre, Mumbai.	SFRR- India and Bhabha Atomic Research Centre
1 8 6	Prof. Padma V. Devarajan	Conference	International	12 th & 13 th September 2019	Hotel Radisson, Zirakpur, Chandigarh, India.	DISSO- INDIA Chandiga rh 2019

187	Dilip D Sarode	Symposia	International	22/12/2020 - 25/12/2020		Ministry of Science and Technology, Ministry of Earth Sciences, Minister of Health and Family Welfare of Government of India in collaboration with CSIR
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188	Dilip D Sarode	Conference	International	2020	Visvesvaraya National Institute of Technology, Nagpur (India)	International Conference Advances in Civil Engineering (ACE 2020) 5-7 November 2020, Visvesvaraya National Institute of Technology, Nagpur (India)
189	Dilip D Sarode	Conference	International	2019		
190	Dilip D Sarode	Conference	International	2018		Guru Nanak Dev Engineering College, Ludhiana, Punjab

191	Dilip D Sarode	Conference	International	2018		Guru Nanak Dev Engineering College, Ludhiana, Punjab
192	DR. SNEHASIS CHAKRABORTY	Conference	National	2019	India	Tezpur University, India
193		Conference	National	2020	India	Jamia Hamdard, New Delhi
194		Training program	National	24th Jan 2020	India	ITCFSAN, Mumbai
195		Training program	National	27th May 2020	India	ITCFSAN, Mumbai
196		Webinar series	National	13th April 2020	India	Amity Institute of Food Technology, India
197		Faculty Development Programme	National	26th Aug 2019	India	HBTU Kanpur, UP, India
198		Workshop	National	10th Aug 2019	India	Navi Mumbai, India

199	Hands on training program	National		5th Feb 2019	India	ICT Mumbai, India
200	Conference	International		2019	India	Tezpur University, India
201	Conference	National		17-18 May 2019	India	NIT Rourkela, Odisha, India
202	Training Program	National		13-17 May 2019	India	IIT Bombay, India
203	3rd International Conference on Mathematical Advances and Applications (ICOMAA2020- online)	International (Online)		June 24-27, 2020	Istanbul	Yildiz Technical University, Istanbul, Turkey.

204	Stuti Borgohain	Indian Women and Mathematics Annual Conference 2019	National	June 10-12, 2019	Mumbai	DAE's National Board for Higher Mathematics and the International Mathematical Union's (IMU) Committee for Women in Mathematics 2019 (June 10-12), Department of Mathematics, Indian Institute of Technology, Bombay, India.
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205	Stuti Borgohain	National Symposium on Applications of Mathematics in Science and Engineering	National		March 29-30 '2019	Mumbai	Veer mata Jijabai Techno logical Institute (VJTI), Matunga, Mumbai : 400019, Maharashtra
206	Stuti Borgohain	Workshop on "Programming using PYTHON (online)	National		July 15- 31' 2020	Online	The academy of Epiphany HI PVT LTD, India
207	Stuti Borgohain	Faculty Development Program on "Open Source Learning Management Pro- gram: Modular-Object Oriented Dynamic Learning Environment (MOODLE)	National		June 16-20' 2020	Online	Departme nt of Electronic s Engineeri ng, Aligarh Muslim Uni- versity, Aligarh in associati on with Spoken Tutorial Project,

208	Stuti Borgohain	Workshop on Decoding Cyber Security Crimes	National	August 19-21' 2019	ICT Mumbai	IIT Bombay	Institute of Chemical Technology under TEQIP-III Twinning program (ICT Mumbai, BITS Mesra and GCE Keonjhar) in collaboration with Cyber Security Corporation, Pune
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2019	Stuti Borgohain	Workshop on 3D Simplified Mathematics with Excel'2019	National	June 24-26, 2019	ICT Mumbai	NES Ratnam College of Arts, Science and Commerce in collaboration with Department of Mathematics, Institute of Chemical Technology and Dass Scientific Research Labs Pvt. Ltd., Ahmedabad
210	Amiya Ranjan Bhowmick	Conference	International	19 Nov - 21 Nov 2019	Kolkata	Indian Statistical Institute, Kolkata
211	Amiya Ranjan Bhowmick	FDP	National	5 Mar - 7 Mar 2020	Mata Vaishno Devi University, Katra, Jammu	AICTE

2 1 2	Amiya Ranjan Bhowmick	Workshop	International	30 Sep - 4 Oct 2020	Trieste, Italy	The Abdus Salam International Centre for Theoretical Physics (ICTP)
2 1 4	Athalye Ashok	Seminar	International	22-24 Dec 2019	Dhaka	Rossari Biotech Ltd
2 1 5	Athalye Ashok	Seminar	National	1/2/2020	Mumbai	Customs Team
2 1 6	Athalye Ashok	Seminar	National	1/24/2020	Ranchi	BIT Mesra
2 1 7	Athalye Ashok	Seminar	National	2/18/2020	Bhadoi	IICT-Bhadoi
2 1 8	Athalye Ashok	Seminar	National	5-6 March 2020	Indore	Vaishnav Institute
2 1 9	Ashwin Mohan	FDP (4-week course)		29-07-2019 to 29-09-2019 to	Online	NPTEL
2 2 0	Ashwin Mohan	FDP (12-week course)		22-07-2019 to 17-11-2019	Online	NPTEL

2	Dr. Annamma	Participated International Conference on Plant Bio-factories: Strategies and Challenges (PBSC 2019)	International	19/12/19to21/12/19	Mumbai	Ramnairin Ruia Autonomous College
2	Anil Odaneth	Deliver lecture at B. K. Birla College (Autonomous), Kalyan	National	19/10/19	Kalyan	B. K. Birla College (Autonomous)
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TEQIP-3

Technical Education Quality Improvement Programme

Annual Report

2019-20

Institute of Chemical Technology, Mumbai

Content

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2. TEQIP-III team
3. Project Implementation
 - i) Student Development Activities
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 - v) Seminars, conferences conducted at ICT
4. Procurement Management
 - i) Institutional Procurement Plan
5. Twinning Programmes
 - i) Birla Institute of Technology, Mesra
 - ii) Government College of Engineering, Keonjhar
6. Centre of Excellence in Process Intensification with focus on Green Chemistry
7. Looking Forward

1. Introduction

TEQIP-III

Objectives

Technical Education Quality Improvement Programme (TEQIP) implemented by the Ministry of Human Resource Development (MHRD), Government of India, is presently in its third phase. The programme has objectives of building, strengthening and improving quality in engineering education institutions. As part of these objectives, system-level initiatives are to be undertaken that will aim to strengthen governance and performance of affiliated technical universities by improving policy, academic and management practices, and guidelines.

In TEQIP III, there is also a strong focus on capacity building by undertaking twinning programs for growth and development. In this regard, ICT has two twinning partners - Birla Institute of Technology, Mesra, Jharkhand and Government College of Engineering, Keonjhar, Odisha. The twinning programme is based on active involvement in encouraging research and development in areas of mutual and complimentary interest through collaborative projects, by creating opportunities for industrial training and placement, internships, and career counselling. The strength of the twinning programmes will be realized in continuous association and determination to take the programme further to success.

Centre of Excellence in Process Intensification with focus on Green Technology

The Centre of Excellence in process intensification, established with focus on green technology continues to perform successfully. Real life and socially relevant problems are undertaken, enabling interdisciplinary research. The centre currently supports **34** doctoral students.

ICT relentlessly works towards achieving the objectives under TEQIP-III. The activities during June 2019 – July 2020 are presented herein.

2. TEAM – TEQIP-III

Core Team



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Faculty Activity Coordinator
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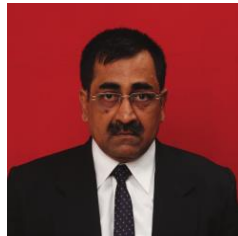
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**Coordinator Centre of
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**Coordinator
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**Coordinator
(Twinning, GCE, Keonjhar)**
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Nodal Officer (MIS)
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**Environment Management
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Departmental Coordinators



Prof. V. K. Rathod
Department of Chemical
Engineering



Dr. Satyajit Saha
Department of Dyestuff
Technology



Dr. R. D. Kale
Department of Fibres and
Textile Processing Technology



Prof. U. S. Annapure
Department of Food
Engineering and Technology



Prof. Amit Pratap
Department of Oils,
Oleochemicals and Surfactants
Technology



Prof. G. U. Chaturbuj
Department of Pharmaceutical
Sciences & Technology



Dr. A. S. Sabnis
Department of Polymer
Engineering and Surface
Coating Technology



Prof. S.S. Sarode
Department of General
Engineering



Dr. Reena Pandit
DBT ICT



Dr. Pawan More
Department of Chemistry



Dr. Ashwin Mohan
Department of Physics



Dr. Amiya Bhowmick
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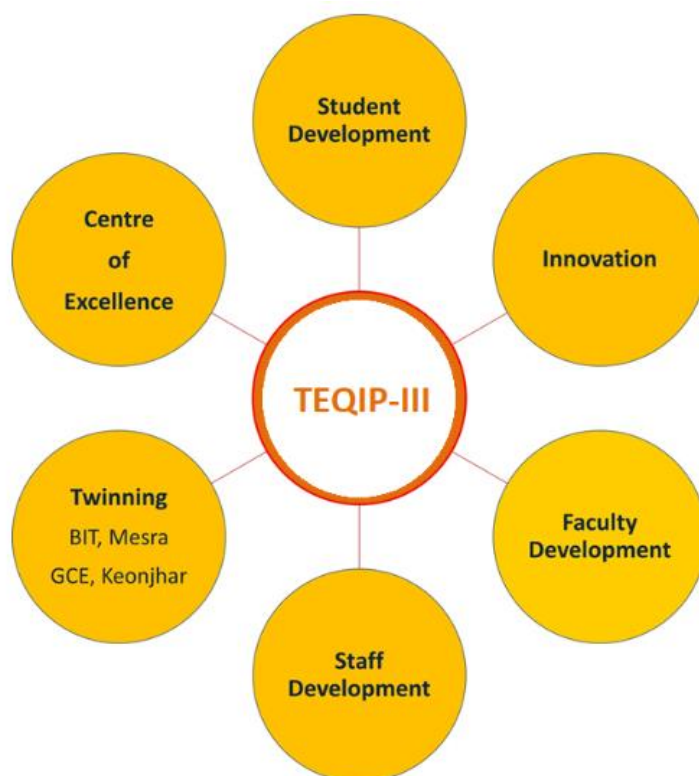
Committee for International Travel

1. Prof. R. S. Singhal, Dean RCRM, Chairperson
2. Prof. M. S. Degani – Department of Pharmaceutical Sciences and Technology, Member
3. Prof. U. S. Annapure - Head , Department of Food Engineering and Technology, Member
4. Dr. Mohan Narayan – Head, Department of Physics, Member
5. Dr. S. T. Mhaske -Head , Department of Polymer and Surface Coating Technology, Member
6. Prof. R. R. Deshmukh, Registrar, Member Secretary

3. Project Implementation

TEQIP-III Activities at a Glance

Highlights



i. Student Development Activities

Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
1.	7/07/2019 - 12/07/2019	Arsalan Pasha, Yukti Bharde, Bhairavi Ekbote, Anooshka Avasare, Tanmay Kothawade, Siddharth Petare	Department of Food Engineering & Technology	Smart India Hackathon	Team named 'Young Strategists' participated in the finals of Smart India Hackathon 2019 Hardware Edition	IIT Indore
2.	11/9/2019 - 13/09/2019	Prayas Acharya, Manindra Mahapatra, Madhuri Kshirsagar, Tamilselvan V.	Department of Pharmaceuticals Science and Technology	Conference	Fundamentals of Dissolution science- A pre-conference workshop of Disso India, 2019 Chandigarh	NIPER SAS Nagar Punjab
3.	30/07/2019	Yogeshsing Rajput, Samadhan Patil	Department of Oils and Oleochemicals Technology	Conference	Malaysian Palm Oil: Enhancing relationships and harvesting opportunities	MPOC, Taj Lands End Mumbai
4.	16/12/2019- 19/12/2019	Yogeshsing Rajput, Rahul Kedar	Department of Oils and Oleochemicals Technology	Conference	Indian Chemical Engineering Congress, CHEMCON 2019 Indian Institute of Chemical Engineers New Delhi	Indian Institute of Chemical Engineers New Delhi
5.	18/7/2019 - 21/7/2019	Deepak Sonawane	Department of Oils and Oleochemicals Technology	Conference	VARSIGMA : lean six sigma green belt certification	Six sigma green belt
6.	25/07/2019	Sagar Yadav, Valmik Jejurkar	Department of Dyestuff Technology	Seminar	National seminar on 'Catalysis for Fine Chemicals'	CSIR-CSMCRI Bhavnagar
7.	25/07/2019	Thakkar Chinmay Deepak	Department of Dyestuff Technology	Seminar	National seminar on 'Catalysis for Fine Chemicals'	CSIR-CSMCRI Bhavnagar
8.	30/07/2019	Nikita Wanjari, Asma Fakir, Rakhi Patil, Chetan Girase	Department of Oils and Oleochemicals Technology	Seminar	Malaysian Palm Oil: Enhancing relationships and harvesting opportunities	MPOC, Taj Lands End Mumbai
9.	30/07/2019	Ninad Mhatre, Kirti datir, Jagruti Jadhav, Rohan Mestry, Deepak Sonawane, Ritu	Department of Oils and Oleochemicals Technology	Seminar	Malaysian Palm Oil: Enhancing relationships and harvesting opportunities	MPOC, Taj Lands' End Mumbai

Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
		Parikh Rohan Parmar, Priya Singha				
10.	12- 13/09/2019	Amit Lokhande, Esha Atter, Pradipkumar, Vinod Ipar, Pooja Todke, Wavhule, Sukhada Shelar, Pawan Kudale	Department of Pharmaceuticals Science and Technology	Conference	Attend conference on 'Dissolution Science & applications'	NIPER, SAS Nagar, Chandigarh 2019
11.	27/8/2019 to 28/08/2019	Arjun Koli	Department of General Engineering	Seminar	Attend the Seminar on "Scientific melding and design of experiments for Injection Melding"	FIMMTECH University road Pune
12.	30/07/2019	Pavan Paraskar	Department of Oils and Oleochemicals Technology	Conference	Malaysian Palm Oil: Enhancing relationships and harvesting opportunities	MPOC, Taj Lands' End Mumbai
13.	25/07/2019 to 27/07/2019	Vaishali Bagul	Department of Food Engineering & Technology	Workshop	Workshop on Industrial Bioprocess and Bioreactor Operations	BITS Pilani
14.	30/7/2019	Pravin Jadhav	Department of Oils and Oleochemicals Technology	Seminar	Malaysian Palm Oil: Enhancing relationships and harvesting opportunities	MPOC, Taj Lands' End Mumbai
15.	01/03/2019	Aditya Basar Yash Gokhale Tanmay Parekh Bhutada, Sandeep Suryawanshi, Roshan Joseph	TEQIP	Home Project	Project Development of functional Wheat Bread with Fermented Legume Flour	Project work
16.	5/8/2019 to 6/8/2019	Akshata Salve	Department of Food Engineering & Technology	Conference	Oral Presentation at International Conference on " Innovations and Technological Advances in Food"	MOP Vaishnav College for Women , Chennai
17.	31/7/2019 to 2/8/2019	Rasika Tupe	DBT ICT	Training Course	Training Course on " Metabolomics by Mass Spectrometry at C CAMP Bangalore	C CAMP Bangalore
18.	30/07/2019	18 students from Oils department	Department of Oils and	Conference	Malaysian Palm Oil: Enhancing relationships and	MPOC, Taj Lands' End Mumbai

Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
			Oleochemicals Technology		harvesting opportunities	
19.	24/5/2019 to 21/7/2019	Punit Gharat	Department of General Engineering	Workshop	Project execution on CFD using OPEN foam software	Summer School on Computational Fluid Dynamics with Open FOAM 2019 at VNIT
20.	19/7/2019	29 students	Department of Polymer & surface Engineering	Seminar	One day Annual seminar of colour society	COLOR SOCIETY, Hotel Kohinoor continental Mumbai
21.	10/8/2019 to 11/8/2019	18 students	Department of Pharmaceuticals Science and Technology	Conference	'Industry Academia Connect'	SVKM Dr. Bhanuben Nanavati College of Pharmacy Mumbai
22.	19/8/2019 to 21/8/2019	Ashwani Patil	Department of Pharmaceuticals Science and Technology	Workshop	'Drug Metabolism and DDI'	ISSX India
23.	19/8/2019 to 21/8/2019	Radhi Deshpande	Department of Pharmaceuticals Science and Technology	Workshop	'Drug Metabolism and DDI'	ISSX India
24.	19/9/2019 to 21/9/2019	Mahin K. I. Vishakha Likhite	Department of Pharmaceuticals Science and Technology	Conference	SSX-2019 4th International Conference organised by Society for the study of Xenobiotics SSX -India Theme: Exploring impact of ADMET and Modelling Science & Technology on drug discovery and Development	SSX India
25.	25/7/2019	Amritha T	Department of Fiber &Textile Processing Technology	Seminar	National seminar on catalysis for fine Chemicals	CSIR-Central Salt and marine chemicals research Institute Bhavnagar
26.	12/9/2019 to 14/9/2019	S. K. Vineeth	Department of Polymer & surface Engineering	Conference	Oral Presentation at conference on Recent Advances in Materials and manufacturing	KLE Dr. Sheshgiri College of Engineering and Technology, Belagavi, Karnataka
27.	24/9/2019 to 27/9/2019	Hitesh Kumar Singh	Department of Polymer &	Conference	International Conference on	Rubber Technology

Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
			surface Engineering		Advances in Polymer science & Rubber Technology	Centre IIT Kharagpur
28.	9/9/2019 to 10/9/2019	Amit Lokhande and Pooja Todke	Department of Pharmaceuticals Science and Technology	Conference	MHRD Institute Innovation Council & AICTE National Mentoring Bootcamp , Delhi	New Delhi
29.	8/9/2019 to 11/9/2019	Mayur Ladole, Nilesh Jadhav	Ecell	Boot Camp	National Boot camp & exhibition for beat innovation – organised by MHRD.	IIC National Coordination Team MHRD Innovation Cell AICTE New Delhi
30.	17/10/2019 to 19/10/2019	Dr. Sandeep More , Sushil , Satardekar, Anil Bhadke, Siddhiki	Department of Fibers &Textile Processing Technology	Conference	International conference on Advances in chemical and materials sciences (ICCM-2019)	Mangalore University
31.	18/10/2019 to 21/10/2019	Gauravi Yashwantrao, Valmik Jejurkar	Department of Dyestuff Technology	Conference	Poster presentation at National Organic symposium trust The XV J-NOST Conference	Department of Chemistry, University of Delhi
32.	16/2/2020	Praful Patil	Department of Dyestuff Technology	Conference	International conference on smart Materials for sustainable technology	SMST 2020, Bogmallo Beach Resort Goa
33.	10/9/2019 to 14/9/2019	Yogeshsing Rajput and Chetan Girase	Department of Oils and Oleochemicals Technology	Workshop	One-week workshop on ‘ Introduction to Environment Health & safety’	at IIT Mumbai
34.	10/10/2019 to 12/10/2019	Mohd Riyaz Beg	Department of Pharmaceuticals Science and Technology	Conference	International conference on: Frontiers in Neuroscience and Neurochemistry: Dynamic Challenges and Approaches	Department of Toxicology, School of chemical and life sciences, New Delhi
35.	28/8/2019	Pavan Paraskar	Department of Oils and Oleochemicals Technology	Conference	Conference on Characterization of polymers and polymeric products - CPP-2019	ICT Mumbai
36.	18/9/2019	Modassir Hussain	Department of General Engineering	12 Week Course	Swayam Course ‘Fundamentals of surface engineering mechanisms, processes and characterizations’	Swayam SDP course

Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
37.	16/9/2019 to 17/9/2019	Maduja Katkar	Department of Polymer & surface Engineering	Conference	Prakalp -2019 15 th National Chemical Engineering Students Conference	MIT school of Chemical engineering, Pune
38.	22/2/2020 to 25/2/2020	Ashish Yadav	DBT ICT	Conference	International conference on Smart Materials for sustainable Technology: Fundamental to applications in Healthcare and energy	SIRMB, Bongmallo Beach Resort Goa
39.	22/2/2020 to 25/2/2020	Suraj Kapale	Department of Pharmaceuticals Science and Technology	Conference	Poster presentation at the International conference on Smart Materials for Sustainable Technology (SMST - 2020)	Society for interdisciplinary Research materials and Biology, Bogmallo Beach Resort, Goa
40.	1/11/2019 to 2/11/2019	Aminul Islam SK.	Department of Oils and Oleochemicals Technology	Conference	Conference on Natural Product Processing for therapeutic Applications	IIT, Madras
41.	5/1/2020 to 8/1/2020	Supriya Pandit, Babita Chaudhary, Manoj Bhatia	Department of Fibers &Textile Processing Technology	Workshop	Workshop on Interpretation of Instrumental methods	Department of Chemistry & International Research Centre Sathyabama Institute of Science and Technology, Chennai
42.	17/10/2019 to 18/10/2019	Shruthy Seshadrinathan	Department of Food Engineering & Technology	Conference	Poster presentation in the annual conference of Biological engineering society 2019	IIT, Madras
43.	3/10/2019 to 4/10/2019	Suramya Mishra, Jasam Pattanaik, Uttam Dixit, Harshal Patil	Department of Fiber &Textile Processing Technology	Conference	International Conference 'intexcon:2019: INDIA Opportunities for Strategic Investment in Textiles'	Diagonal Consulting India Ravi Mathai Auditorium IIM Ahmedabad Gujarat
44.	20/12/2019 to 23/12/2019	Shweta Singh and Mahesh Mengade	Department of Pharmaceuticals Science and Technology	Conference	71st Indian Pharmaceutical congress IPC: Indian Pharmaceutical Congress	Indian Pharmaceutical congress Associations, Chennai

Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
45.	10/5/2019	Avinash Phirke, Parulekar Dattatray	Department of General Engineering	Workshop	Workshop on Basic Formwork / shuttering Design "	ACC Thane Complex, Thane
46.	7/11/2019 to 9/11/2019	Parulekar Dattatray	Department of General Engineering	Workshop	5th National convention FS 2019 'Innovations in Ferrocement - Acceptance in Construction Sector'	Ferrocement Society, Nashik
47.	19/10/2019	Avinash Phirke	Department of General Engineering	Workshop	5th National Convention on 'Innovations in 'Ferrocement-Acceptance in Construction Sector' Nashik	Ferro Cement Society, India
48.	14/12/2019 to 16/12/2019	Akshita Angirishi	Department of Pharmaceuticals Science and Technology	Conference	7th Bioprocessing India Conference	CSIR Mysuru 570020
49.	6/11/2019 to 8/11/2019	Pritam Bagwe, Khushboo Maurya	Department of Pharmaceuticals Science and Technology	Conference	Schrodinger training Hands on training one to one interaction with Schrodinger scientists on computer aided drug designing	Schrodinger Mysore
50.	24/10/2019 to 26/10/2019	Sita V. G.	Department of Pharmaceuticals Science and Technology	Conference	International Conference on Neurological Disorders and Therapeutics	Scientific Committee, ICNDT-2019
51.	29/10/2019 and 5/11/2019	Amit Lokhande	Department of Pharmaceuticals Science and Technology	MHRD IIC event	Global Innovator Festa from New Delhi to Daegu Korea	International Start up exposure
52.	25/11/2019 to 29/11/2019	Mahesh Joshi	Department of Fiber & Textile Processing Technology	Workshop	Workshop on Waste to wealth -the Paradigm, practice and potential IIT Kharagpur	IIT, Kharagpur
53.	6/11/2019 to 8/11/2019	Akshata Pahelkar	Department of Pharmaceuticals Science and Technology	Workshop	Schrodinger training Hands on training one to one interaction with Schrodinger scientists on computer aided drug designing	Schrodinger Mysore
54.	28/11/2019 to 29/11/2019	Divya Jain, Sharda Dsouza, Apoorva Phadke Umesh	Department of Pharmaceuticals Science and Technology	Conference	International Training cum workshop - Quality by Design Practical	QbD Expert Mumbai

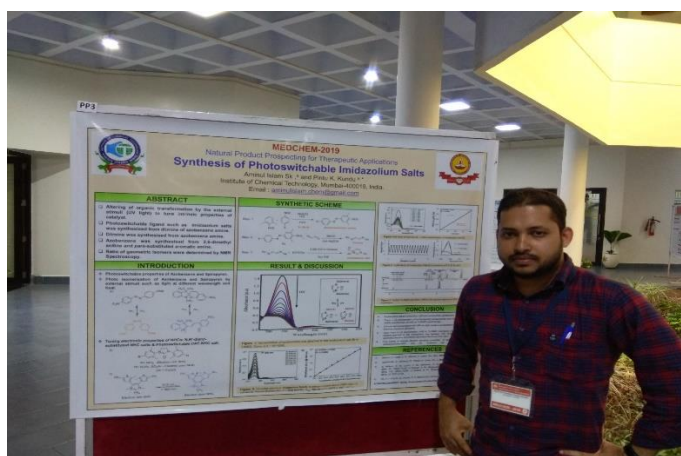
Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
		Shinde Srushti Tambe Durgesh Kumar Jha			Implementation of tools & Tactics of QbD & L60 in Pharmaceutical product Development	
55.	11/12/2019 to 13/12/2019	Tejal Mule and Custan Fernandes	DBT ICT	Workshop	Training programme on Validation & Monitoring during large scale Manufacturing of Bio therapeutics	COE Biopharmaceutical Technology, Delhi
56.	19/11/2019 to 21/11/2019	Vinaya Deshmukh	Department of Mathematics	Conference	Poster Presentation at International conference – ‘India Biodiversity Meet - 2019’	at Indian statistical Institute, Kolkata
57.	19/11/2019 to 21/11/2019	Supriya Bhagat	Department of Mathematics	Conference	Poster Presentation at International conference ‘India Biodiversity Meet- 2019’	at Indian statistical Institute, Kolkata
58.	19/11/2019 to 21/11/2019	Urbi Datta	Department of Mathematics	Conference	Poster Presentation at International conference ‘India Biodiversity Meet- 2019’	at Indian statistical Institute, Kolkata
59.	16/10/2019 to 18/10/2019	Gowri Shankari S	Department of General Engineering	Conference	6th Industrial Green Chemistry World Convention & Ecosystem	IIT Bombay
60.	10/12/2019 to 12/12/2019	Marianne Saldanha	Department of Chemical Engineering	Workshop	Design of Experiments	IIT Delhi
61.	17/11/2019	Pratik Kakade, Shivraj Naik	Department of Pharmaceuticals Science and Technology	Conference	Controlled Release society Indian Chapter organised one day National Seminar on Translational Research: from Bench to Bedside	CRS, Nagpur
62.	20/11/2019 to 24/11/2019	Vaishali Bagul	Department of Food Engineering & Technology	Conference	New Horizons in Biotechnology	CSIR National Institute for Interdisciplinary science and Technology and the Biotech Research Society
63.	19/11/2019 to 21/11/2019	Babita Chaudhari, Supriya Pandit,	Department of Fiber &Textile	Workshop	Workshop on Exploring Biophysical Techniques	Department of Biophysics,

Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
		Kautubh Patankar	Processing Technology		for Protein Purification and Characterization	University of Mumbai
64.	26/12/2019 to 30/12/2019	Shweta Ramesh	Department of Mathematics	Conference	IISA Conference (INDSTATS2019- Innovations in data and statistical Sciences)	Indian Institute of Technology, Mumbai
65.	9/12/2019 to 13/12/2019	MD Akatar	Department of Mathematics	Conference	workshop 'Deep learning and Machine learning approaches and its applications'	NIT Calicut
66.	14/12/2019	Amol Gore	Department of Chemical Engineering	Seminar	74th Annual Convention of OTAI and one day seminar of latest technique in instrumental analysis	Oil Technologists Association of India (WZ) Matunga, Mumbai
67.	20/12/2019 to 22/12/2019	Akshay Bhujbal + 6 students	Department of Chemistry	Conference	3rd National Conference on New Frontiers in chemistry - From Fundamentals to Applications-III NFCFA 2019 Goa	Birla Institute of Technology, Palani
68.	14/12/2019	18 students from Oils Department	Department of Oils and Oleochemicals Technology	Seminar	74th Annual Convention of OTAI and one day seminar of latest technique in instrumental analysis	Oil Technologists Association of India (WZ) Matunga, Mumbai
69.	13/12/2019 to 15/12/2019	Deepankar Biswas	Department of General Engineering	Conference	International conference on Industry Interactive Innovations in Science, Engineering & Technology	SSRN Elsevier
70.	15/12/2019 to 19/12/2019	Sunu Subramanian	Department of Chemical Engineering	Conference	CHEMCON2019 IIT Delhi	CHECON 2019 IIT Delhi
71.	20/12/2019	Shyam Sundar Gupta	Department of Chemical Engineering	Conference	National Conference on New Frontiers in Chemistry from fundamentals to Applications-III	Birla Institute of Technology, Palani
72.	28/11/2019 to 29/11/2019	Sita VG, Dhananjay Jadhav, Manoj Pawar	Department of Pharmaceuticals Science and Technology	Workshop	QBD training workshop Pharmaceuticals product development	QBD analysis and implementation for product development, Mumbai
73.	14/12/2019 to 16/12/2019	Pooja More	DBT ICT	Conference	7th Bioprocessing India Conference by CSIR CFTRI Mysuru	CSIR-Central Food Technological Research Institute Mysuru

Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
74.	14/12/2019 to 16/12/2019	Moushmi Chakraborty	Department of Chemical Engineering	Conference	BPI CSIR-CFTRI Central Food Technological Research Institute Mysuru	CSIR-Central Food Technological Research Institute Mysuru
75.	14/12/2019 to 16/12/2019	Aniket Arun Chavan	DBT ICT	Conference	BPI CSIR-CFTRI Central Food Technological Research Institute Mysuru	CSIR-Central Food Technological Research Institute Mysuru
76.	14/12/2019 to 16/12/2019	Vishwanath Khadye	DBT ICT	Conference	BPI CSIR-CFTRI Central Food Technological Research Institute Mysuru	CSIR-Central Food Technological Research Institute Mysuru
77.	14/12/2019 to 16/12/2019	Ankur Jadhav	DBT ICT	Conference	BPI CSIR-CFTRI Central Food Technological Research Institute Mysuru	CSIR-Central Food Technological Research Institute Mysuru
78.	16/12/2019 to 19/12/2019	Chandrakant Bhogale	Department of Chemical Engineering	Conference	IIChe Awards for the year 2019: IIChe NRC Award 3rd Best Paper in "Indian Chemical Engineer" 2018	IIT Delhi
79.	10/12/2019 to 12/12/2019	Aditi Yerudkar	Department of Chemical Engineering	Conference	7th International Conference on Advances in Energy Research	IIT Bombay
80.	14/12/2019	8 students from Dyes Department	Department of Dyestuff Technology	Seminar	74th Annual Convention of OTAI and one day seminar of latest technique in instrumental analysis	Oil Technologists Association of India (WZ) Matunga, Mumbai
81.	14/12/2019	12 students from Dyes Department	Department of Dyestuff Technology	Seminar	74th Annual Convention of OTAI and one day seminar of latest technique in instrumental analysis	Oil Technologists Association of India (WZ) Matunga, Mumbai
82.	14/12/2019 to 16/12/2019	Yogesh V N.	Department of Food Engineering & Technology	Conference	7th Bioprocessing India Conference	CSIR-Central Food Technological Research Institute Mysuru
83.	16/12/2019 to 17/12/2019	Pavan Kumar Jadhav and Dnyaneshwar Kolhe	Department of Oils and Oleochemicals Technology	Conference	21st Education Course on "Greases for Sugar Industry"	Sayaji Hotels Ltd Kolhapur
84.	16/10/2019 to 17/10/2019	Sweta Pawar	Department of Chemistry	Conference	6th Industrial Green Chemistry World Convention & Ecosystem	IIT Bombay

Sr. No.	Period of activity	Participants	Department	Activity	Brief description	Location
85.	14/12/2019	Mayur Ladole, Nilesh Jadhav	Department of Chemical Engineering	Conference	74th Annual Convention of oil Technologists Association of India on "Latest techniques in Instrumental Analysis"	ICT Mumbai
86.	14/12/2019 to 17/12/2019	Mohamad Bhat	Department of Food Engineering & Technology	Conference	10th ASIA Pacific Drying Conference 2019	National Institute of Technology Rourkela India
87.	26/12/2019 to 30/12/2019	Supriya Bhagat	Department of Mathematics	Seminar	Seminar session in the 2019 IISA conference (INDATATS 2019 - Innovation in Data and Statistical Sciences)	IIT Bombay
88.	26/12/2019 to 30/12/2019	Urbi Datta	Department of Mathematics	Conference	IISA Conference (INDSTATS2019- Innovations in data and statistical Sciences)	Indian Institute of Technology, Mumbai
89.	14/12/2019 to 16/12/2019	Ajit Ktkar, suraj Sharma, Yuvaraj M., Yashi Rastogi	Department of Chemical Engineering	Conference	7th Bioprocessing India at CSIR Mysuru 570020	CSIR Mysuru 570020
90.	22-25 February 2020	Perna Kane, Ashish Yadav Pritesh Patil, Babita Chaudhary, Praful Patil, Gauri Ingole	Department of Chemical Engineering	Conference	International conference ' Smart Material for Sustainable Technology' (SMST2020).	Bogmallo Beach Resort, Goa

Photos:



Aminul Islam Sk, has attended 'Natural Product Prospecting for Therapeutic Applications' conference



Perna Kane, Ashish Yadav Pritesh Patil, Babita Chaudhary, Praful Patil, Gauri Ingole students of Department of

organized by the Department of Chemistry in the Indian Institute of Technology, Madras during 1st to 2nd November 2019



Chemical Engineering attended International conference entitled ' Smart Material for Sustainable Technology' (SMST2020) during 22-25 February 2020 at Bogmallo Beach Resort, Goa



During 7-9 Jan. 2020 attended ICT students Sushant Pawar, Prerna Kane, Kaustubh Patankar, Harsh Joshi, Pradeep Wanghule, Shweta Singh and Mahesh Mengade with other participants at 'Productivity Enhancement Programme' organized by Vyatka Vikas Kendra-India

72nd Annual Session of Indian Institute of Chemical Engineers CHEMCON 2019 attended by Yogeshsing Rajput Sunu Subramanian during 15-19 dec.2019



Amit Lokhande, Esha Atter, Pradipkumar, Vinod Ipar, Pooja Todke, Wavhule, Sukhada Shelar, Pawan Kudale students of Pharmaceuticals Science and Technology attended conference on "Dissolution Science & applications" at Nipper, SAS Nagar, Chandigarh during 12-13 September 019



Ms. Moushmi Shyamal Chakraborty, Pooja More and Ankur Prakash Jadhav attended “7th Bioprocessing India Conference” -14th -16th December 2019 at CSIR-CFTRI, Mysuru, Karnataka, India



Prashant Upadhaya a PhD student took hands on training in radiolabelling of pharmaceutical moieties at the Division of Cyclotron and Radiopharmaceutical Sciences, Institute of Nuclear Medical Allied Science, Delhi from 14th Oct. 2019 to 11th Nov. 2019



"2- Days International Training Workshop of Quality by Design" conference attended by Divya Jain Sharda Dsouza, Apoorva Phadke, Umesh Shinde, Srushti Tambe Durgesh Kumar Jha during 28th - 29th November 2019 at Vile Parle, Mumbai



Report on Scientific Moulding and Design of Experiments for Injection Moulding Seminar” attended by Arjun Koli on 28th Aug. 2019



Yogeshsing Rajput and Chetan Girase had attended a workshop, which was held on 10th to 14th September,

2019, "Introduction to Environmental Health and Safety" at IIT Bombay



Yogeshsing Rajput and Samadhan Patil had attend a seminar, which was held on 30th July 2019, "Malaysia-India Palm oil Trade Fair and Seminar". Organized by Malaysian Palm Oil Board and Malaysian Palm Oil Council.



Malaysia-India Palm oil trade fair (POTS) attended by Students of M.Tech Oils, Oleochemicals and Surfactants Technology, ICT Mumbai. on 30th July 2019



Team from Prof. A. B. Pandit lab (Mayur Ladole, Nilesh Jadhav, Sarjerao Doltade and Gaurav Dastane), Institute of Chemical Technology, Mumbai won the first prize at "Climate Launchpad National Finals of Green Start-up Competition 2019" for Water Disinfecting Devices for Rural and Urban India. Now, this team will go to Amsterdam, Netherlands for International finals where there are 53 countries going to participate. This competition is jointly organized by European Institute of Innovation and Technology (EIT) and climate collective.



Students of M. Tech Perfumery and Flavour technology (I & II year) participated in 74th Annual Convention OTAI one day seminar on 'Latest Techniques in Instrumental Analysis' on 14th December 2019

2. Innovation

Status/Plan for Innovation/Incubation

- ICT has actively participated in many national innovation contests such as the Smart India Hackathon (SIH), National innovation contest, etc.
UG, PG and PhD students actively participated in these contests.
- For the Smart India Hackathon, one of the teams of ICT had created a novel non-invasive glucometer using vitreous humor (fluid in the eye) and another team had developed a method to find impurities in oilseeds and other grains using a normal camera with their RGB values. The prototypes mentioned in the SIH are being worked on under the guidance of industrial and academic experts.
- Recently, ICT held an Online Covid-19 Challenge in which the teams had to come up with innovative ways to deliver quality education in times like this pandemic. The ideas of the winners are being validated.
- Innovation council cell periodically holds Fireside chats with successful entrepreneurs from various industries. We will be hosting Mr. Nitin Deshmukh in our next fireside chat. The IIC plans on hosting many such fireside chats in the future as well.
- Many competitions were held to promote entrepreneurship. For example, Connexio, a model making competition which addresses real-life industry problems was held in the annual - Chemical Fest 'Vortex'.
- ICT also hosted a twoday E-Cell Summit in which there were talks by entrepreneurs, competitions and seminars, all related to innovation. IIC also has a tie-up with SINE, the incubation centre of IIT-B. Apart from that, the institute and IIC are fortunate to have a large number of industry experts willing to guide young entrepreneurs and shape their innovative minds.
- In the near future, ICT has planned on conducting more seminars based on the theme of innovation. Fireside chats with budding young entrepreneurs will also be organised from time to time.

Activities conducted in the Academic Year 2019-20

- On 21st September 2019, a group of 100 students from ICT-Mumbai visited a post-tree-plantation site of Hariyali Drive. The Hariyali drive focuses on afforestation in the hills of Thane district. Also, Yatr organised a post-plantation care drive in association with Hariyali foundation. A sense of enthusiasm filled the air when all participants gathered on time and started the journey to Navi Mumbai.
- Institute Innovation Council organised Innovation Day celebrations on October 15, 2019. Chief Guest Padma Vibhushan Prof. J. B. Joshi, and Guest of Honour Shri S. M. Mokashi- former President, UAA shared their experiences in this programme.
- ICT has organised a series of lectures through Masterclass, presented by VORTEX. The first lecture of the series was given by Mr Deepak Gadhia on 20th August 2019. Mr. Gadhia is the founder of Gadhia solar energy systems. He took the company from a small start-up into the largest manufacturer of Scheffler concentrating systems.
- The second lecture of Masterclass was given by Prof. Bhattacharyya on "Black Holes" on 25th September 2019
- My Story - Entrepreneur's Life & Crossroad by Mr. Abhishek Bansal, the founder of Albans Group and an ICT alumnus was organised on 30th Sept. 2019. Mr. Bansal spoke on his journey from a student to a successful entrepreneur. His talk was very well received by an audience of a packed

auditorium and there were many questions and one-to-one interactions. The event was a grand success, and an inspiration to organize more such in the future.

- My Story - Innovator's Life & Crossroad- Motivational Speak: by Sarjerao Doltade on 16 Sep.2019 on the E-cell orientation. Sarjerao Doltade is a Ph.D student who has already secured funding of over Rs 2 crores for his two start-ups. Mr Doltade shared his views on entrepreneurship and explained why entrepreneurship is important. He also shared his own experience, explaining his struggle in establishing his own start-up.
 - An Innovative lecture on co-pyrolysis of biomass with plastics to produce high quality biofuels was given by Dr. R. Vinu, Associate Professor, Department of Chemical Engineering and National Center for Combustion Research and Development, Indian Institute of Technology, Madras on 10th October 2019
 - E-Cell ICT Mumbai and IIT Bombay organised Illuminate (Entrepreneurship workshop) on 20th Oct. 2019 at ICT.
 - 80 students participated in the workshop. Institute Innovation Show Case and promotional event on Science on NATIONAL SCIENCE DAY 28th Feb. 2020
- Sentence incomplete the concept behind the event was to convey the importance and joys of a science/ technology, research and innovations to students selected from schools in the vicinity of ICT. The event provided a platform to school students and researchers to showcase their skills and interests in science.





Innovation Day Celebration
15th Oct. 2019

**lecture on Masterclass:
by Mr Deepak Gadhia**



**Lecture on Black Holes:
by Prof Bhattacharyya
on 20th Aug. 2020**



TECHNOLOGICAL ASSOCIATION'S THE CHEMFEST presents **CHAMP 2019**

VORTEX 2019

Dr. Arnab Bhattacharya
Chair, Science Popularization and Public Outreach, TIFR Mumbai

"THE PERIODIC TABLES OF THE UNIVERSE"

14TH SEPTEMBER 2019 KV AUDITORIUM 5:30 PM

ALL ARE WELCOME AND ENTRY FREE!

MASTERCLASS & LECTURE

Black Holes

DR. SUDIP BHATTACHARYYA

Masterclass Second Lecture by Prof Bhattacharyya on "Black Holes"



ENTREPRENEUR IN SPOTLIGHT

Speaker **ABHISHEK BHANSAL**
FOUNDER AND MD
ANSAL GROUP

10th SEP 5:30 PM KV Audi



My Story - Entrepreneur's Life & Crossroad – Motivational Speak - Share by Abhishek Bhansal



My Story - Innovator's Life & Crossroad-
Motivational Speak : by Sarjerao Doltade
on 16 Sep.2019



Innovator
Lecture
by Dr. R. Vinu
on 10th
Oct.2019

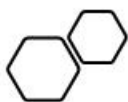
Innovation Council of ICT



**An Innovative lecture on
Co-pyrolysis of Biomass with
Plastics to Produce High
Quality Biofuels - From
Fundamentals to Applications.**

Dr. R. Vinu
 Associate Professor, Department of Chemical
 Engineering and National Center for Combustion
 Research and Development, Indian Institute of
 Technology Madras

Date : 10th October 2019
Time : 2pm to 3pm



Entrepreneurship workshop

E-Cell ICT Mumbai and IIT Bombay organised Illuminate (Entrepreneurship workshop) on 20th Oct. 2019 in the Institute of Chemical Technology, Mumbai, 80 students participated in the workshop.



IIC Innovation Show Case and promotional event on Science On the Occasion of NATIONAL SCIENCE DAY : 28th Feb. 2020

ICT shines at MHRD IIC INNOVATION AWARD 2019

The innovation cell of MHRD (IIC) has taken various initiatives to encourage creative thinking in technology and device development among students of various levels by formation of the Institute Innovation councils. Nationwide competitions were held to hold this spirit and boost innovation and research aptitude among students of higher education. The first prize for the national level best innovation for the year 2019 was awarded to Shri. Amit Sanjay Lokhande pursuing a PhD programme under the guidance of Prof. Padma V. Devarajan in the Department of Pharmaceutical Sciences and Technology, ICT. Amit was awarded this prize

for developing a PREG- \checkmark -DET: A kit for the detection of early pregnancy in cattle. From among a total of 1600 applications at state level of which 43 were selected for national level presentation. He received the award at the hands of Hon'ble MHRD minister of India Shri Ramesh Pokhriyal in a grand function organised on 11th September 2019 at AICTE, HQ, New Delhi First annual Innovation Festival of MHRD's Innovation Cell. After that Amit Lokhande was selected as a member of the student delegation to South Korea as a part of India Korea Start-up exchange program from 31st Oct to 4th Nov 2019, funded by MHRD/AICTE Innovation cell, India and CCEI Daegu, South Korea to participated in Global Innovator Festa (GIF) 2019, Daegu South Korea.

Also, among top 10 Innovations Miss. Pooja Todke represented India at Canada India Centre for Excellence (CICE) program at Sprott School of business school, Carleton University, Ottawa, Canada for the innovation titled "NANO-Gr-DET: A Point of Care Blood Group Detection Kit".



Amit Lokhande receives Hon'ble dignitaries from AICTE and MHRD



Pooja Todke represented India at Canada India Centre for Excellence (CICE) program



Amit Lokhande Receiving Certification from Kyu Hwang Yeon, President at 5th Global Innovator Festa (GIF) 2019, Daegu, South

3. Faculty Development Activities

Sr. No.	Period of Activity	Name	Department	Activity	Location
1.	8/07/2019 to 13/07/2019	Dr. Chandu Madankar	Department of Oils and Oleochemicals Technology	One-week course on Nanotechnology Advances in Engineering Materials and Manufacturing	Department of Production Engineering, VJTI Mumbai
2.	8/07/2019 to 13/07/2019	Dr. A. R. Rao	Department of Polymer & surface Engineering	One-week course on Nanotechnology Advances in Engineering Materials and Manufacturing	Department of Production Engineering, VJTI Mumbai
3.	8/07/2019 to 13/07/2019	Dr. A. S. Sabnis	Department of Polymer & surface Engineering	One-week course on Nanotechnology Advances in Engineering Materials and Manufacturing	Department of Production Engineering, VJTI Mumbai
4.	20/07/2019 to 21/07/2019	Prof. S. Sathaye	Department of Pharmaceuticals Science and Technology	CRC Pharma LLC New Jersey, USA organised International workshop on Translational Research Strategies for Drug Discovery and Clinical Development	Radisson Blu Plaza Hotel Banjara Hills Hyderabad
5.	29/07/2019 to 31/07/2019	Dr. S. T. Mhaske	Department of Polymer & surface Engineering	Continuing Professional Development Programme on Holistic Development for Personal & professional excellence	ESCI campus old Bombay road Hyderabad 500032
6.	5/8/2019 to 10/08/2019	Mrs. Madhavi Wadkar	Library	National Workshop on e-Resources Access, Management, and usage Analysis	Infocity Gandhinagar, Gujarat
7.	5/3/2019 to 8/03/2019	Dr. V. Divya	Department of Mathematics	Attend the workshop on " Big Data, Bioinformatics and Proteomics" at IIT Bombay	IIT Bombay
8.	24/07/2019 to 26/07/2019	Dr. V. Divya	Department of Mathematics	Attend the workshop on "Opensource CFD" at IIT Bombay	IIT Bombay
9.	26/07/2019	Prof. R. V. Jayaram	Department of Chemistry	Chief Guest for the inaugural of Alchemy Association - A subject Association of post graduate Department of Chemistry and for the key note address	ST Aloysious college Karnataka
10.	24/7/2019 to 26/07/2019	Dr. V. Divya	Department of Mathematics	Attended workshop on " Machine Learning and its applications in biology for teachers" at IISER Pune	IISER Pune
11.	25/07/2019	Dr. C. S. Mathapati	ICT	Workshop on AICTE Approval Process 2019-20	AICTE , Delhi

Sr. No.	Period of Activity	Name	Department	Activity	Location
12.	24/5/2019 to 21/7/2019	Mhir Panda aditi Yerudkar	Department of Chemical Engineering	Project execution on CFD using OPEN foam software	
13.	17/8/2019 to 21/8/2019	Dr. Nabanita Sadhukhan	Department of Dyestuff Technology	Workshop on " Strategic Quality Initiatives in Technical Education"	at Mount Abu
14.	1/8/2019	Dr. Neetu Jha	Department of Physics	Attended Swayam Course Nanotechnology Sciences and Applications	Swayam FDP course
15.	10/8/2019	Prof. P. V. Devarajan and Amit Lokhande	IIC Cell	Attend the one-day workshop on " Art of Reasoning & critical Thinking"	All India Institute Andheri Mumbai
16.	5/7/2019 to 8/7/2019	Prof. U. S. Annapure & Dr. A. Kalekar	ICT	Faculty development programme for Students Induction programme organised by AICTE	At O Sandhan, Bhubaneswar
17.	13/9/2019	Dr. R. D. Jain	Department of Chemical Engineering	Attend Select Bio : Lab on a Chip and microfluidics conference	Biosciences India Pvt Ltd, Hyderabad
18.	13/9/2019	Dr. P. D. Jain	Department of Chemical Engineering	Attend Select Bio : Lab on a Chip and microfluidics conference	Biosciences India Pvt Ltd, Hyderabad
19.	22/8/2019 to 23/8/2019	Dr. A. R. Rao	Department of Polymer & surface Engineering	National Conference on " Materials for Advanced Technology & Applications"	G. S. Mandal's Maharashtra Institute of Technology Beed Bypass Road Aurangabad
20.	10/8/2019	Dr. S. Reshamwala	DBT ICT	Attend the workshop on " The art of reasoning and critical thinking"	LOGOS organizes at Andheri Mumbai
21.	2/9/2019 to 7/9/2019	Prof. N. Sekar	Department of Dyestuff Technology	IIT Hydrabad organized short term course on " Concepts and applications of the finite element method	IIT Hyderabad
22.	25/11/2019 to 29/11/2019	Prof. R. N. Jagtap	Department of Polymer & surface Engineering	Quality Improvement programme on " Waste -To Wealth Paradigm Practice and Potential	IIT Kharagpur
23.	19/9/2019 to 21/9/2019	Prof. M. S. Degani	Department of Pharmaceuticals Science and Technology	Attend the SSX-2019 4th International Conference Society for the study of Xenobiotics SSX -India Theme: Exploring impact of ADMET and Modelling Science & Technology on drug discovery and Development	SSX India

Sr. No.	Period of Activity	Name	Department	Activity	Location
24.	22/2/2019 to 25/02/2019	Pritesh Patil	Department of Chemical Engineering	Conference on Smart Materials for sustainable Technology	Bogmallo Resort Goa
25.	11/10/2019 to 13/10/2019	Prof. V. R. gaval and Dr. R. S. N. Sahai	Department of General Engineering	International conference on Polymer Processing and characterization (ICPPC-2019)	Mahatma Gandhi University Kottayam Kerala India
26.	11/9/2019	Dr. V. H. Dalvi	TEQIP	Attend the first Innovation Festival organised by MHRD Innovation Cell	New Delhi
27.	11/10/2019 to 12/10/2019	Dr. A. R. Rao	Department of Polymer & surface Engineering	5th International Conference on Polymer Processing and characterization	Kottayam Kerala India
28.	31/8/2019 to 1/12/2019	Sandip Kale	DBT ICT	Intellectual Property certificate courses by FICCI	FICCI, New Delhi
29.	31/8/2019 to 1/12/2019	Dr. Pooja joshi	DBT ICT	Intellectual Property certificate courses by FICCI	FICCI, New Delhi
30.	31/8/2019 to 1/12/2019	Deepak Sarada	DBT ICT	Intellectual Property certificate courses by FICCI	FICCI, New Delhi
31.	1/8/2019 to 31/12/2019	Dr. Mohan Narayan	Department of Physics	NPTEL Online Certification Course	Online
32.	25/11/2019 to 29/11/2019	Dr. R. D. Kale	Department of Fiber & Textile Processing Technology	Attend the workshop on "Waste: the paradigm, practice & potential " at IIT Kharagpur	IIT Kharagpur
33.	18/9/2019	Dr. Vivek Gaval	Department of General Engineering	Swayam Course on " Fundamentals of surface engineering mechanisms, processes and characterizations"	Swayam FDP course
34.	14/10/2019 to 18/10/2019	Prof. A. v. Patwardhan	Department of Chemical Engineering	Attend the Professional development training programme at IIT Trichy	IIT Trichy
35.	11/10/2019	Prof. V. B. Patravale	Department of Pharmaceuticals Science and Technology	Participated in 24th Annual National Convention of Association of Pharmaceuticals Teachers of India at Dehradun Uttarakhand	Dehradun Uttarakhand
36.	27/9/2019 to 28/9/2019	Prof. P. V. Devarajan	Department of Pharmaceuticals Science and Technology	RISC-2019: Rural Innovates Start -up Conclave	National Institute of rural Development and Panchyati Raj, Hyderabad

Sr. No.	Period of Activity	Name	Department	Activity	Location
37.	13/12/2019 to 15/12/2019	Prof. R. R. Deshmukh	Department of Physics	International conference on Liquid crystals, Liquid crystalline Polymers and Nanosystems ICLCPN-2019	International unit on Micromolecular science and Engineering, Mahatma Gandhi University, Kottayam, Kerala
38.	21/10/2019 to 25/10/2019	Dr. A. S. Rane	Department of Mathematics	Attend the workshop on "Mind Meditation and Human Values- A scientific Perspective"	IIT Delhi
39.	15/12/2019 to 23/12/2019	Prof. S. P. Deshmukh	Department of General Engineering	National workshop on "Strategic Quality Initiatives in Technical Education"	Port Blair
40.	11/11/2019 to 15/11/2019	Dr. V. H. Dalvi	Department of Chemical Engineering	One-week training programme on Introduction to machine Learning and Deep Learning with Applications to Engineering Systems	Government college of Engineering Jalgaon
41.	19/10/2019	Prof. U. S. Annapure	Department of Food Engineering & Technology	One day National Multidisciplinary Conference on Nature resource based sustainable development with special reference to tribal community rights	Shikshak Sanchalit Shikshan Sanstha, Palghar
42.	25/11/2019 to 29/11/2019	Prof. R. V. Adivarekar	Department of Fiber & Textile Processing Technology	Workshop on Waste to wealth the Paradigm, practice, and potential	IIT, Kharagpur
43.	22/10/2019	Dr. Ajit Kumar	Department of Mathematics	NPTEL Online Certification course Operations research	Swayam course
44.	12/09/2019 to 13/09/2019	Prof. P. V. Devarajan	IIC Cell	Conference on Dissolution Science and Applications Theme: Ensuring Built- in Quality through Dissolution Studies	Radisson Blu Plaza Hotel Banjara Hills Hyderabad
45.	18/12/2019 to 20/12/2019	Prof. U. S. Annapure	Department of Food Engineering & Technology	ICFOST-2019 Conference	Tezpur University, Karnataka
46.	29/11/2019	Dr. Amit Pratap	Department of Oils and Oleochemicals Technology	Brain storming session on "Value Added Products of castor" at Hyderabad Telangana state	ICAR-Indian Institute of Oilseeds Research, Hyderabad
47.	4/11/2019 to 23/11/2019	Dr. Pawan More	Department of Chemistry	Orientation programme at University of Mumbai	UGC Human Resource Development Centre University of Mumbai

Sr. No.	Period of Activity	Name	Department	Activity	Location
48.	25/11/2019 to 29/11/2019	Dr. Reena Pandit	DBT ICT	AICTE Quality Improvement programme 'Waste to Wealth Paradigm Practice and Potential '	IIT Kharagpur
49.	16/12/2019	Prof. V. R. Gaval and Mahesh Divekar	Department of General Engineering	One day Proficiency Improvement Programme on Advances in Plastic Moulding the Automotive Research Association of India	ARAI Pune



Prof. V. R. Gaval and Dr. R. Sahai presenting their research papers at ICM MAP held at kottayam between 11th Oct to 13th October 2019



Dr. Sandeep More attended the international Conference "International Conference on Advances in Chemical and Material Sciences" at Department of studies in chemistry Mangalore University, Mangalagangothri, Karnataka, India during October 17-19, 2019.



Prof. A. V. Patwardhan has participated in the "Professional Development Training" during 14th to 18th October 2019 at Indian Institute of Management Tiruchirappalli.



Prof. R. R. Deshmukh and Prof. U. S. Annapure attended the First International conference on “Advances in Plasma Science and technology (ICAPST) organised by department of Physics Shri shakti Institute of Engineering and Technology, Chennai during 12-14 February 2020

4. Staff Development Activities

Sr. no.	Period of Activity	Support Staff Name	Department	Activity	Brief	Location
1.	27/06/2019	Mr. Parag More	Academic	NAAC Process	One day workshop on "Data Organization in revised accreditation framework of NAAC"	VIT Mumbai
2.	July Aug 2019	Mrs. Arya Kadam	Academic	Course	Two-month course on "GST practitioner"	Initiative Institute of Professional Training & research, Dadar East
3.	27/7/2019 to 31/07/2019	Milind Thorat	Department of Physics	Staff Development	National workshop on "NBA & NAAC Accreditation"	ESCI campus old Bombay road Hyderabad 500032
4.	20/8/2019	18 Support Staff	TEQIP	Workshop at ICT	Conducted Class IV Support Staff workshop on "Positive thinking + Creativity" by Prof. A. B. Pandit	At ICT
5.	30/8/2019	30 Support Staff	TEQIP	Workshop at ICT	Conducted TEQIP-III supported workshop on Decoding cyber security crimes for support staff	At ICT
6.	14/10/2019 to 18/10/2019	Bharat Dhingankar, Sumit Ghanekar, Parag More	ICT	Training Programme	Five days Residential training Programme on " Maharashtra Civil Services Rules" for supporting staff	Lonavala
7.	1/8/2019 to 31/01/2020	Mrs. Bhagyashri Joshi	Admin Department	Course	MIS with Tally Course content	DEVELEARN Data Sciences Institute
8.	15/11/2019 and 18/11/2019	Faculty and Staff	ICT	Workshop at ICT	two days' workshop on "Early childhood care and development"	Dr. Swati Partani, Maniben Nanavati College Mumbai
9.	19/7/2019 to 20/7/2020	Vinay Sakpal	Department of Academic	Qualification Upgradation	Pursing a degree course in Law with M. S. College of Law	M. S. College of Law



Organised workshop on 'Decoding Cyber Security Crimes' for Support staff on 31st Aug. 2019 by Cyber Security Corporation Pune



Celebrated "YOGA DAY" with Faculty and Support Staff on 21st June 2019

5. Seminar, Conference etc. Conducted at ICT

Sr. No.	Period of Activity	Department	Objectives	Beneficiaries No.
1.	9/8/2019 to 30/8/2019	UG Students of ICT	Induction Programme	280 students
2.	21/06/2019	DBT ICT	Workshop on searching Patent Databases and understanding patent claims	30 M Tech and 16 PhD Students
3.	21/06/2019	ICT All Department	"Yoga Day" on 21st June 2019 with Faculty, students and Staff by Ms. Shilpa Salim	All Faculty, Students and Staff
4.	13/07/2019 to 14/07/2019	Department of Pharmaceuticals Science and Technology	Workshop on Advanced computer Aided Drug Design and computational Biology	Students

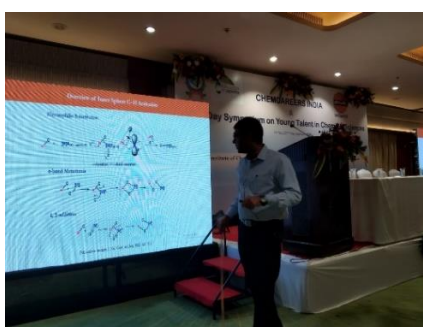
Sr. No.	Period of Activity	Department	Objectives	Beneficiaries No.
5.	19/09/2019 to 20/09/2019	Department of Pharmaceuticals Science and Technology	8th Indian Chitin and Chitosan Society Symposium at Institute of Chemical Technology, Mumbai	Students
6.	27-28/07/2019 & 3-4/08/2019 & 10-11/08/2019	Department of Chemical Engineering	Six day workshop over three weekends in July -Aug 2019 in the IPC on " PyCT2019: Python and Machine Learning"	Students
7.	16/07/2019	DBT ICT	Awareness Session on BIRAC's Biotechnology Ignition Grant (BIG) by Dr. Shraddha Chauhan Manager IIT Bombay	48 Students
8.	4/08/2019 to 7/8//2019	ICT	Youth Empowerment and Skills 4-day continuous program by Shreyans Mehta State Youth Coordinator – Maharashtra, for Art of Living Programs	101 Students
9.	21/8/2019 to 22/8/2019	Department of Fiber &Textile Processing Technology	Two days workshop titled ' Analysis of Basics chemicals Textile Auxiliaries colourants' by Dr. Kedar Kulkarni	34 Students
10.	19/8/2019 to 21/8/2019	ICT	Workshop on Decoding Cyber Security Crimes, at ICT	Students, Staff & Faculty
11.	20/8/2019	ICT	Workshop on "Positive thinking + Creativity" by Prof. A. B. Pandit for support staff	18 Support Staff
12.	30/8/2019	ICT	Workshop on Decoding cyber security crimes for support staff by Cyber Security Corporation Pune	30 Support Staff
13.	19/8/2019 to 21/8/2019	ICT	Workshop on Decoding Cyber Security Crimes by Cyber Security Corporation Pune.	Students, Staff & Faculty
14.	13/9/2019	Department of Chemical Engineering	The Asian And Mideast Institute of Chemists (AMIC) organised a Refresher course in Chemical Engineering for chemists	Dr. P. R. Gogate
15.	19/9/2019 to 20/9/2019	Department of Pharmaceuticals Science and Technology	8th Indian Chitin and Chitosan Society symposium at ICT Mumbai	145 Students
16.	29/9/2019	TEQIP	TA Fresher's 2019 Personality contest, One man show , Solo Dance Rap, Fashion Show	280 UG Students
17.	9/10/2019	Department of Fiber &Textile Processing Technology	Orientation of First year B Tech /M Tech/ Msc students	130 UG, PG students
18.	16/11/2019 and 23/11/02019	Department of Dyestuff Technology	Workshop: Literature Survey: How to use e sources effectively" by Dr. Vivek Patkar Vice President Marathi Vidnyan Parishad	83 Students
19.	10/10/2019	ICT	Celebration of Foundation day of ICT at KV auditorium	Students of ICT
20.	16/11/2019	Department of Chemical Engineering	One day seminar on "Green technology"	35 students

Sr. No.	Period of Activity	Department	Objectives	Beneficiaries No.
21.	15/11/2019 and 18/11/2019	ICT	Two days workshop on Early childhood care and development by Dr. Swati Partani, Maniben Nanavati College Mumbai	6 Faculty and 12 Staff
22.	02/12/2019	Department of Pharmaceuticals Science and Technology	Informative seminar on Applications of Cytation 5 (Cell imaging multimode reader from Bio Tech Instruments) for cellular studies	39 Students from the department of PST
23.	19/12/2019	Department of Fibers &Textile Processing Technology	Workshop on Statistics with Statecraft by Mr. Saurabh Agarwal, HBTU Kanpur	30 Research students
24.	27/12/2019	Department of Chemistry	Workshop titled 'Emerging Trends in Organic Synthesis'	36 Students
25.	5/12/2019	Department of Oils and Oleochemicals Technology	Workshop on Literature Surve to train the PG and PhD students on how to do a literature survey and review it by Dr. Vivek Patkar	65 Students
26.	17/01/2020 to 18/01/2020	ICT all Department	E-Summit 2020	286 students

Photos:



74th annual convention of oil technologist's association of India seminar and exhibition on "Latest techniques in instrumental analysis" on 14th Dec. 2019



CHEMCAREERS India & One day Symposium on Young Talent in Chemical Sciences on 21st to 22nd November 2019



Cyber security Workshop for Faculty, Students held on 21-24 Aug 2019



Department of Chemistry organised workshop on “Emerging Trends in Organic Synthesis” by on 27th December 2019



Art of Living: Student Excellence & Learning Program (SELP)
“Student Excellence & Learning Program (SELP)” and “Yoga for Youth Empowerment and skills program” delivered by Vyakti Vikas Kendra India scheduled from 4th -7th Aug. 2019 during Induction Program at ICT. The programs were largely appreciated by students and found useful for enhancement of learning capabilities thereby employability.



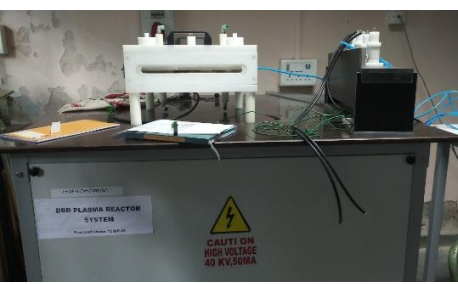











ICT E-Cell & Innovation council hosted a flagship event – ‘E-Summit’ on 18th and 19th January 2020 with Dr. Abhay Jere, Chief Innovation Officer, MHRD, Government of India as the Guest of Honour who delivered the Key Note Address. ‘A spectacular event in which over 400 budding young student innovators and to be entrepreneurs from all over the country participated in challenging competitions and upskilling workshops. In the summit eminent personalities from Government organisations, industry, national institutes such as Dr. Unnat Pandit (Program Director, Atal Innovation Mission, NITI Aayog), Mr. Shashank Randev (Founder VC at 100X.VC), Dr. Omkar Rai (Director General STPI), Dr. Arokiaswamy Velumani (Founder and MD, Thyrocare), Gaur Gopal Das (lifestyle coach & motivating Speaker), Mr. Sachin Teke (Founder m-indicator) delivered inspiring and thought-provoking talks. The event was jointly organised with TEQIP-III twinning partner BIT, Mesra. The event has motivated students to dream of becoming entrepreneurs and triggered innovative thinking.












Department of Chemistry conducted Techfest of “RASAYANAM 2020” during 16-17 January 2020







4. Procurement Management






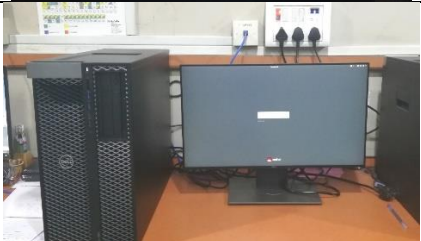
Sr No	Name of Item	Department	Procurement Method	Photo
1	3 years Campus Licenses for MATWORKS with Full suit (all Toolboxes) along with academic online training suits that will be available for all the students and faculty	Department of Mathematics	Direct Contract	NA
2	GE/Plastic Extruder unit Co rotating twin screw extruder system	Department of General Engineering	Shopping	
3	HPLC System	Department of Food engineering and Technology	Shopping	
4	PHY/Atmospheric Pressure Plasma Generator	Department of Physis	Shopping	
5	OLT/Paint testing setup	Department of Oils oleochemicals and surfactant Technology	Shopping	




Sr No	Name of Item	Department	Procurement Method	Photo		
						
6	TXT/Oil Free High Vacuum Pump	Department of Fibers and Textile processing	Shopping			
7	TXT/Muffle Furnace	Department of Fibers and Textile processing	Shopping			
8	TXT/BET Surface Area Analyzer	Department of Fibers and Textile processing	Shopping			
9	TXT/Deep Freezer	Department of Fiber and Textile processing	Shopping			
10	OLT/Gas Chromatography	Department of Oligochemicals and surfactant Technology	Shopping			





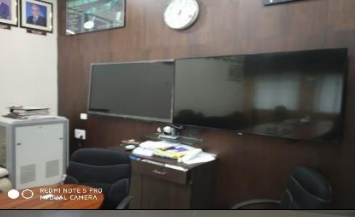


Sr No	Name of Item	Department	Procurement Method	Photo
11	OLT/Distilled water set up	Department of Oils oliochemicals and surfactant Technology	Shopping	
12	OLT/Weighing Balance	Department of Oils oliochemicals and surfactant Technology	Shopping	
13	OLT/Refractometer	Department of Oils oliochemicals and surfactant Technology	Shopping	
14	OLT/ Ph Meter	Department of Oils oliochemicals and surfactant Technology	Shopping	
15	PHY/1400 °C High Temperature Muffle Furnace	Department of Physics	Shopping	
16	PHY/ Chiller for 3kW X-ray generator	Department of Physics	Shopping	

Sr No	Name of Item	Department	Procurement Method	Photo
17	5 Workstations	Department of General Engineering	Shopping	
18	HPC Cluster	Department of Mathematics	Shopping	
19	POL/3D SLA PRINTER	Department of Polymer & Surface Coating Technology	Shopping	
20	POL/Hot Air Oven	Department of Polymer & Surface Coating Technology	Shopping	

Sr No	Name of Item	Department	Procurement Method	Photo
21	POL/Probe Sonicator	Department of Polymer & Surface Coating Technology	Shopping	
22	POL/HIGH SPEED DISPERSER	Department of Polymer & Surface Coating Technology	Shopping	
23	PHT/ FOURIER TRANSFORM INFRARD SPECTROMETER	Department of Pharmaceutical Science & Technology	Shopping	
24	PHT/FLUORESCENCE SPECTROFLUORIMETER	Department of Pharmaceutical Science & Technology	Shopping	
25	FBT/Water Activity Analyser	Department of Food engineering and Technology	Shopping	
26	FBT/ HIGH VOLUME HIGH SPEED COOLING CENTRIFUGE	Department of Food engineering and Technology	Shopping	

Sr No	Name of Item	Department	Procurement Method	Photo
27	TXT/Synthesis Reactor	Department of Fiber and Textile processing	Shopping	
28	TXT/DI Water System	Department of Fiber and Textile processing	Shopping	
29	TXT/Computers	Department of Fiber and Textile processing	Shopping	 
30	CE/UV Vis Spectrophotometer	Department of Chemical Engineering	Shopping	
31	CE/ Dell T7920 workstation	Department of Chemical Engineering	Shopping	

Sr No	Name of Item	Department	Procurement Method	Photo
32	DYE/ DSC-TGA	Department of Dyestuff Technology	Shopping	
33	CHE/UV-Visible double beam Spectrophotometer	Department of Chemistry	Shopping	
34	CHE/Air- Nitrogen Generator	Department of Chemistry	Shopping	
35	Scopus	Library	Direct Contract	Online Access
36	Grammarly Software	Library	Direct Contract	Online Access
37	All-In-One Desktop	VC Office, TEQIP	Shopping	
38	Laptop	VC Office, TEQIP	Shopping	

Sr No	Name of Item	Department	Procurement Method	Photo
39	Multifunction Printer	VC Office, TEQIP	Shopping	
40	LED TV Screen	All Department	Shopping	
41	Classroom Attendance System	All Classrooms	Shopping	
42	Classroom Projector System	All Classrooms	Shopping	
43	Video Conferencing System	IPC, VC office, DPST, CE	Shopping	
44	Air Conditioner	All Department	Shopping	
45	All in one Desktop Computers	VC Office	Shopping	
46	Subscription for iThenticate Software	Library	Direct Contract	Online Access

5. Twinning Programme

ICT is mentoring two Institutes under TEQIP-III; Birla Institute of Technology, Mesra and Government College of Engineering, Keonjhar. The initiatives undertaken as a mentor institution include strengthening networks between mentee institutions to foster collaboration by conducting workshops and seminars, facilitating student visitations and summer internships, and creating opportunities for industry readiness. A detailed list of activities carried out for under twinning and mentoring program is listed in the table below.

Birla Institute of Technology, Mumbai

Action Plan: 19-20

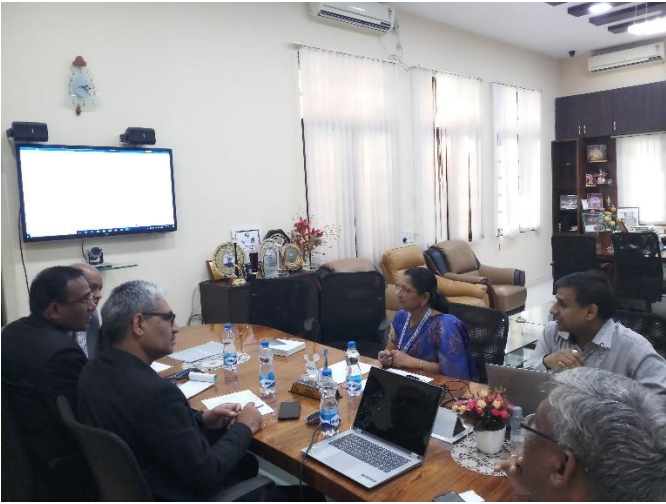
S. No	Suggestive activity	Remark / Comment	Activity Approx. Date
1	The action plan for twinning activities implemented in last year and & current year planned	Revision and Completed	31 st Jan 2020
2	No. of courses/ classes/workshops conducted by the faculty of Institute under subcomponent 1.3 for students of 1.1 institute for training and academic development and vice versa (Min 1 per program per year).	Two workshops (i) Advanced Materials- Synthesis, instrumentation, and characterization (ii) Soft Computing	1 st week March 2020
3	No. of courses delivered by 1.3 institution for students of 1.1 institutions (Min 1 per program per year). (10% syllabus covered).	Dr. A. K. Rane for Mathematics Dr. Ramakanta Nayak for Physics and Dr. Rambabu Dandela for Chemistry subjects	7-8 th Nov. 2019 15-28 Feb 2020 2-7 th March 2020
4	No. of Trainings conducted for faculty/ support staff of 1.1 institute by Institute under sub component 1.3 for training and academic development and vice versa (Min 1 per program per year).	DECODING CYBER SECURITY CRIMES (For faculty of GCE) Library staff and a few support staff from administration will be trained at ICT	19-21 st Aug. 2019 April 2020

5	No. of Seminars / Techfest, and conferences conducted by Institute under sub component 1.3 for 1.1 institute for students to share research and discuss technological advancements in dynamic industrial and business environment (Min 1 per year).	VORTEX: 19 MANZAR (Entrepreneurship) (i) International IEEE conference on “Intelligent for smart power system and sustainable energy” at GCE, Keonjhar (ii) International conference on “Advances in Civil engineering” at GCE Keonjhar (iii) International conference in Mechanical Engineering at GCE Keonjhar	10-13 Oct. 2019 30 th to 31 st Jan 2020 23rd and 24 th April 2020 23 and 24 th May 2020
6	% of faculty perusing collaborative research (10%).	Deferred	
7	No. of departmental partnership for joint research activities for applied research and technological development (1 per program) Or Exchange and adoption of good academic-administrative practices between the twinning partners	Biometric system practiced at ICT (admin) Studio developed for lecture recoding (academic)	31 st Jan 2020 4 PM
8	Number of Industry partnership for joint R & D, and internships (Min 1 per year).	Faculty and students from Civil Engg. And Mech Engg. Department of GCE will be at ICT for Joint R&D Internships during May/ June 2020 with Capacit'e Infraprojects Limited.	Cancelled due to COVID Pandemic
9	Career Planning Sessions by 1.3 institution for 1.1 institution (2 Sessions).	Visit of Industry personnel will be arranged by Dr D. D. Sarode during March / April 2020	Cancelled due to COVID Pandemic
10	Number of Seminars and learning forums conducted by Institute under sub component 1.3 for 1.1	Exam Reforms – Discussion with CoE, Prof. V. K. Rathod	31 st Jan 2020 at 4:00 PM

	institute on Governance practices, institutional management, academic and non-academic reforms (Min 1 per year).		
11	Number of faculty of 1.1 institute inducted on various bodies (BoG, BoS, Senate etc.) of 1.3 Institute for learning on good governance practices and vice versa.	<p>Professor (Dr) Ganapati D. Yadav, was invited for 6th meeting of Board of Governors of Government College of Engineering, Keonjhar</p> <p>Prof. A. B. Pandit, Vice Chancellor ICT or any senior faculty member of ICT will attend the next BOG of GCE and deliver a lecture</p> <p>Faculty from GCE will attend the next Academic Council Meeting of ICT</p>	<p>14.09.2019 at 3.00 PM</p> <p>8th or 15th Feb 2020</p>
12	Collaborative social activities, endeavours of social importance and activities of all round development of students and faculty (joint activities under NSS, NCC, other social and rural welfare schemes)	ICT will send students to take part in the activities organized under NSS GCE	
13	Workshop conducted on Outcome Based Education (NBA) by Institute under subcomponent 1.3 for 1.1 institute.	<p>Co and PO software training Programme</p> <p>Discussion with Dr. S. C. Chakraborty and Dr. S. More</p>	1 st week of Feb 2020
14	<p>Assistance given by the Institute under subcomponent 1.3 for 1.1 institute in filling-up of SAR for getting accreditation.</p> <p>Or</p> <p>Guidance/support on Conduct of induction training; Startup activities i.e. awareness workshops, entrepreneurship fests, organizing competitions etc.; Increase in student graduation</p>	<p>Support for revising SAR will be provide by Dr. S. C. Chakraborty and Dr. S. More will visit GCE, Keonjhar during 1st week of Feb 2020.</p> <p>ICT librarian, Mr. A. Lokande will visit during the induction programme for first year students at GCE during Aug 2020.</p>	<p>1st Feb 2020</p> <p>Cancelled due to COVID Pandemic</p>

<p>rates/transition rates; Increase in GATE qualified graduates; Establishment of Smart classrooms/ promoting MOOCs etc.</p>		
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Photos:



Academic meeting with faculty Members of ICT Mumbai and BIT Mesra on 17th and 18th Jan. 2020



RASAYANAM 2020 organised by ICT, Mumbai attended by faculty members of BIT Mesra on 17th Jan. 2020



Prof. V. K. Rathod visited BIT Mesra on 4th February 2020 for the Mock activity pertaining to forthcoming NBA compliance visit.



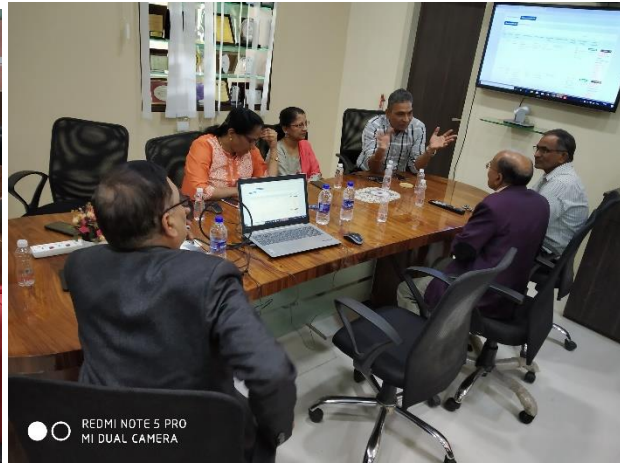
Industry Academia Symposium: Ripple 20 organised by BIT Mesra participated by ICT, faculty Prof. D. D. Sarode and Prof. A. R. Athalye on 24th Jan 2020



Meeting on “Academic Examination Reforms” conducted at ICT, Mumbai on 23rd Jan 2020 attended by Dean and COE of ICT, Mumbai and BIT, Mesra faculty



Prof. P. R. Vavia, Dean AP, ICT Mumbai explained about MIS for Administration at ICT to Dr. Padmini Padmanabhan(Dean AP BIT, Mesra), Dr. R. P. Sharma and Dr. J. P. Pandey (COE-BIT, Mesra) faculty from BIT Mesra on 23rd Jan 2020



A meeting of the visiting team of BIT Mesra, TEQIP Coordinators and faculty members of the General Engineering Department, ICT, was held on 24th January 2020



MOCK NBA Documentation check by Dr. S. P. More and Dr. S. C. Chakraborty for PG programmes Mtech CS, Mtech IT MCA Mtech Mechanical at BIT Mesra on 29th Jan. 2020



Entrepreneurship Summit is the flagship event of the Entrepreneurship Cell which promotes and celebrates the spirit of Entrepreneurship in ICT. E-Summit ICT 2020 participated by BIT Mesra Faculty Prof. K. Mukhopadhyay on 18th Jan 2020

Government college of Engineering, Keonjhar

Action Plan: 2019-2020

S. No	Suggestive activity	Remark / Comment (2019-20)
1	The action plan for twinning activities implemented in last year and & current year planned	<p>The long term and short-term Action plans were discussed on 31st Jan 2020 at ICT Mumbai</p> <p>GCE Keonjhar faculty members</p> <p>Prof. Trilochan Sahu, Principal, GCE Keonjhar</p> <p>Dr. Ramesh Mohapatra, TEQIP Coordinator, GCE Keonjhar</p> <p>Sri Mukesh Bathre, HOD, CSE, GCE Keonjhar</p> <p>Sri Dayanidhi Jena, HOD, BS&H and PIC, Cultural Society, GCE Keonjhar</p> <p>ICT Faculty Members</p> <p>Prof. A. B. Pandit, Vice chancellor,</p> <p>Prof. R. R. Deshmukh, Registrar</p> <p>Prof. P. V. Devarajan, TEQIP Coordinator, Chairperson</p> <p>Prof. R. V. Adivarekar, TEQIP Nodal Officer Finance</p> <p>Prof. V. K. Rathod, TEQIP Nodal Officer Procurement</p>

		<p>Prof. P. D. Amin, EAP Coordinator</p> <p>Dr. Ajit Kumar, TEQIP Twinning, Coordinator BIT, Mesra</p> <p>Dr. D. D. Sarode, TEQIP Twinning Coordinator, GCE, Keonjhar</p>
2	No. of courses/ classes/workshops conducted by the faculty of Institute under subcomponent 1.3 for students of 1.1 institute for training and academic development and vice versa (Min 1 per program per year).	<p>(i) Mr. MAK Kerawala conducted lectures on “Basic Electricity, Network Theory” during 9th -12th Feb. 2020 to first year Engineering students at GCE Keonjhar.</p> <p>(ii) Dr. Hitesh Pawar visited GCE Keonjhar conducted workshop on “ Advanced Materials Synthesis instrumentation & characterisation ” on 10th Feb. 2020 also delivered a lecture on chemistry for students during 9th -12th Feb. 2020</p> <p>(iii) Mr. Deepankar Biswas conducted lectures on “IC Engines and Theory of Machines” during 13th -15th Feb 2020 to Mechanical engineering students of GCE, Keonjhar</p> <p>(iv) Mr. Vikramsing Korpale visited to GCE Keonjhar to delivered lectures on “Metrology and Quality Control” during 13th -15th Feb 2020</p> <p>(v) Prof. V. R. Gaval and Dr. RSN Sahai conducted lectures of Engineering Mechanics for First year students during 24th to 29th Feb. 2020</p> <p>(vi) Prof. V. R. Gaval and Dr. RSN Sahai conducted workshop on “Industry Academy Interaction: Present and Future of Engineering and Technology” at GCE Keonjhar during 24th to 29th Feb. 2020</p>
3	No. of courses delivered by 1.3 institution for students of 1.1 institutions (Min 1 per program per year). (10% syllabus covered).	<p>Dr. A. S. Rane for Mathematics during 7-8th Nov. 2019</p> <p>Dr. Ramakanta Nayak for Physics during 15-28 Feb 2020</p> <p>Dr. Rambabu Dandela for Chemistry subjects during 2nd - 7th March 2020</p>
4	No. of Trainings conducted for faculty/ support staff of 1.1 institute by Institute under sub component 1.3 for training and academic development and vice versa (Min 1 per program per year).	Conducted workshop on “DECODING CYBER SECURITY CRIMES” (For faculty of GCE) during 19-21 st Aug. 2019
5	No. of Seminars / Techfest, and conferences conducted by Institute under sub component 1.3 for 1.1	1. VORTEX: 19 conducted by ICT Mumbai students during 10-13 Oct. 2019

	institute for students to share research and discuss technological advancements in dynamic industrial and business environment (Min 1 per year).	<p>2. “MANZAR 2020” the Cultural fest organized by students from 30th Jan 2020 – 2nd Feb 2020.</p> <p>3. “FUNTECH 2020” organised by ICT students during 3-14 Jan. 2020</p>
6	% of faculty perusing collaborative research (10%).	Being discussed
7	No. of departmental partnership for joint research activities for applied research and technological development (1 per program) Or Exchange and adoption of good academic-administrative practices between the twinning partners	<p>1. The meeting with faculty members of Department of General Engineering, ICT, Mumbai and GCE Keonjhar was held on 31st Jan 2010, at 3:00 PM in the Board Room of Institute of Chemical Technology, Matunga Mumbai</p> <p>2. Biometric system practiced at ICT (admin) Studio developed for lecture recoding (academic) on 31st Jan 2020 4 PM</p>
8	Number of Industry partnership for joint R & D, and internships (Min 1 per year).	<p>Activity Planned in the March 2020:</p> <p>Faculty and students from Civil Engg. And Mech Engg. Department of GCE will be at ICT for Joint R&D Internships during May/ June 2020 with Capacit’e Infraprojects Limited. (deferred)</p>
9	Career Planning Sessions by 1.3 institution for 1.1 institution (2 Sessions).	<p>(i) Prof. V. R. Gaval and Dr. R S N Sahai conducted interviews of third year students during 24th to 29th Feb. 2020, to shortlist for internship in various industries during summer vacations.</p> <p>(ii) Prof. V. R. Gaval and Dr. R. S. N. Sahai provided guidance to GCE, Keonjhar Heads of Departments for preparing placement brochure during their visit on 25th Feb. 2020</p>
10	Number of Seminars and learning forums conducted by Institute under sub component 1.3 for 1.1 institute on Governance practices, institutional	Prof. V. K. Rathod, COE, ICT Mumbai discussed and shared information about Exam Reforms with the Team of faculty members of GCE, Keonjhar on 31 st January 2020 4:00 PM in the Board Room ICT, Mumbai.

	management, academic and non-academic reforms (Min 1 per year).	
11	Number of faculty of 1.1 institute inducted on various bodies (BoG, BoS, Senate etc.) of 1.3 Institute for learning on good governance practices and vice versa.	<ol style="list-style-type: none"> 1. Professor (Dr) Ganapati D. Yadav, was invited for 6th meeting of Board of Governors of Government College of Engineering, Keonjhar on 14th September 2019 at 3.00 PM 2. BOG Meeting Invitation sent to Prof. Trilochan Sahu, Principle GCE, Keonjhar which was scheduled on 11th March 2020. 3. Prof. D. D. Sarode was nominated by VC to attend the 8th meeting of Board of Governors of Government College of Engineering, Keonjhar, held on 16th March 2020 at 11:30 AM
12	Collaborative social activities, endeavours of social importance and activities of all round development of students and faculty (joint activities under NSS, NCC, other social and rural welfare schemes)	<p>Activity Planned:</p> <p>ICT will send students to take part in the activities organized under NSS GCE (deferred)</p>
13	Workshop conducted on Outcome Based Education (NBA) by Institute under subcomponent 1.3 for 1.1 institute.	<ol style="list-style-type: none"> 1. Training Programme for CO and PO mapping conducted by Dr. Snehasis Chakraborty on 1st Feb 2020 at ICT, Mumbai attended by GCE, faculty.
14	<p>Assistance given by the Institute under subcomponent 1.3 for 1.1 institute in filling-up of SAR for getting accreditation.</p> <p>Or</p> <p>Guidance/support on Conduct of induction training; Startup activities i.e. awareness workshops, entrepreneurship fests, organizing competitions etc.; Increase in student graduation rates/transition rates; Increase in GATE qualified graduates; Establishment of Smart classrooms/ promoting MOOCs etc.</p>	<p>Prof. V. R. Gaval and Dr. R. S. N. Sahai provided guidance to GCE, Keonjhar faculty for preparations of SAR necessary for NBA during their visit on 26th Feb. 2020</p>

Photos:



ICT, Mumbai organised workshop on “Decoding Cyber Security Crimes” for faculty members of GCE Keonjhar at ICT, Mumbai during 19-21 Aug. 2019





Dr. Akshay Rane(Mathematics), Dr. Ramakanta Naik (Physics) and Dr. Rambabu Dandela (Chemistry) visited GCE, Keonjhar to cover syllabus of students during 6th - 8th Nov. 2019.



GCE Keonjhar faculty members meeting with Prof. A. B. Pandit, Vice chancellor, Prof. R. R. Deshmukh, Registrar and ICT TEQIP core Team on 31st Jan. 2020 to discuss the action Plan.



Meeting with faculty members of Department of General Engineering and GCE, Keonjhar at ICT, Mumbai on 31st Jan. 2020



Meeting with Common subject faculty Members and GCE Keonjhar faculty on 31st Jan 2020 to discuss the forthcoming events to be organised in GCE, Keonjhar



Dr. Hitesh Pawar conducted One day workshop on “Advance Analytical Tools in Characterization” at GCE Keonjhar on 17th Feb. 2020



Mr. MAK Kerawala visited GCE Keonjhar to cover syllabus of students during 7th – 9th Feb 2020



The Lecture session was arranged for three days 13th Feb to 15 Feb 2020 delivered by Mr. Deepankar Biswas and Mr. Vikram Korpale to the students of GCE, Keonjhar.



Prof. V. R. Gaval and Dr. RSN Sahai conducted workshop on “Industry Academy Interaction: Present and Future of Engineering and Technology” at GCE Keonjhar during 24th to 29th Feb. 2020




Prof. V. R. Gaval and Dr. R. S. N. Sahai interacted with third year students to short list the candidates for internships in Mechanical and Electrical Engg. On 27th Feb 2020




Prof. V. R. Gaval and Dr. R. S. N. Sahai provided guidance to GCE, Keonjhar faculty for preparations of files necessary for NBA and for placement brochure during their visit on 25th Feb. 2020

6. Centre of Excellence - Process Intensification with focus on Green Chemistry


The Centre of Excellence in process intensification has been established under TEQIP. Currently, 36 projects are on-going which are ably led by nearly 30 faculty members and 34 research associates from different departments. A detailed list of research projects being carried out is listed in the table below.


Project Title: Synthesis of 5-Hydroxymethyl Furfural (HMF) from chitosan biomass using ionic liquids (ILs)	
Guide	Student
Dr. Ratnesh Jain	Pankti Ganatra
Department	Chemical Engineering
Project Abstract: The current paucity in fossil fuel reserves and the concerns about global warming have paved the way for the utilisation of sustainable resources in the coming future. As an efficient alternative, biomass sources, especially carbohydrate derivatives are highly abundant, widely	

distributed in nature and are renewable. They serve as greener and sustainable raw materials for manufacturing numerous valuable intermediates (such as alcohols, carbonyl compounds and carboxylic acids) for the chemical industry and for the production of various polymeric materials.² Amongst the speciality chemicals, 5-hydroxymethylfurfural (HMF) is a potential building block for a variety of industrially important organic molecules, for more than one hundred and seventy-five valuable bio-based products, as well as twenty high-performance polymers. In recent times, considerable efforts have been made by various researchers to produce 5-HMF from ligno-cellulosic biomass. However, efficient production of 5-HMF suffers due to the need of specific solvents and catalytic system.⁴ During the past decade, chemical applications of ionic liquids (ILs) have received increasing attention. This is because of their enormous potential as a green solvent, which could also work as a “designer solvent” and “catalyst”.³ ILs are normally defined as salts that are liquid below 100 °C and exhibit unique characteristics, such as negligible vapour pressure, no flammability, high thermal stability and close to infinite structural variation. Chitosan, obtained by the deacetylation of chitin, is the second most abundant biopolymer after cellulose. It is readily available from crustacean waste such as crabs, shrimps and also from fungi, in a range of molecular weights, ranging from 5×10⁴ to 2×10⁶ Da and degrees of deacetylation, from 40 to 98%, respectively.⁶ Additionally, chitosan exhibits great structural similarity to cellulose, thus establishing itself as an important biomass for the synthesis of HMF. The combination of ILs and HMF production has become an important field in its own right, since ILs benefit the selectivity of the conversion of hexoses to HMF and open up the possibility of one-pot reactions, directly based on crude biomass.⁵ Over the years, the major problem observed in the synthesis of HMF in aqueous conditions is that the selectivity of the reaction is hampered by the irreversible hydrolysis of HMF to formic acid and levulinic acid. High yields can be obtained in high-boiling solvents such as DMSO, but suffer from difficult product recovery. Another important side reaction in the dehydration of hexoses is the formation of polymers known as humins. These species are formed from different intermediates in the reaction and their rate of formation increases as the concentration of the reacting sugar increases. These side reactions may be prevented by utilising ILs for the synthesis of HMF from chitosan, wherein they would not only act as a solvent, but may also work as a catalyst and increase the yield of 5-HMF. Thus, the present research work will focus on the synthesis of 5-HMF from chitosan, using ionic liquids, with an objective to maximise the yield of 5-HMF. The aim is to explore a variety of ILs and green conversion methods to maximise the production of 5-HMF. In addition to this, the effect of different operating parameters, in each stage of conversion to the final, value added product, will be investigated.


Project Title: “Functional Dyes, Way to Bypass ‘Finishing’ In Textile Manufacturing”	
Guide Name: Dr. Sandeep P. More	Student Name: Pranay Satardekar
Department	Fibres & Textile Processing Technology
Project Abstract: The ‘Finishing’ is one of the most vital part of textile wet processing technology as it imparts end value to the textile materials, however finishing industries are most chemical intensive industries and lead to create huge pollution load on environmental systems. In order to bypass the post effluent problem of these finishing processes we need to focus on developing the solutions which will carry out both dyeing and finishing simultaneously and helps to reduced	

combine effluent effect of both dyeing and finishing on the environment. The designing and synthesis of novel Functional Dyes will be the key to achieve this efficacy. The aim of the research is to synthesize different derivatives of functional dyes and study its various physio-chemical properties for the development of the existing conventional textile processing and also decides its application in various fields of smart textile and chemistry based on its properties.

Project Title: Colour Removal from Textile Effluent using emulsions.	
Guide Name:	Student Name:
Prof. (Dr.) Ravindra D. Kale	Babita U. Chaudhary
Department	Fibres & Textile Processing Technology
Project Abstract: Now a day's emulsion technique is emerging as an effective method for color removal from textile effluent. Here, water in oil nano-emulsion was used for removal of color from textile effluent. Two nano-emulsions, i.e., turpentine oil emulsion and cyclohexanol emulsion, were prepared by using high-speed homogenizer followed by ultrasonication. The textile dye effluent of reactive dyes (Reactive Blue 21 and Reactive Black 5) was treated with turpentine emulsion with a treatment ratio of 1:1, 1:3, 1:5, 1:7, 1:10 at room temperature. Similarly, cyclohexanol emulsion was used for the treatment of Reactive Blue 21 and Reactive Black 5), direct dye, acid dye, basic dye, Disperse dye and metal complex dye The treatment ratio of 1:1, 1:3,1:5, 1:7, 1:10 was maintained for reactive dyes and 1:10 for the remaining dyes at room temperature. The treated effluent was tested for color removal efficiency as well as COD and BOD. Also, in this study, the reusability of emulsion and recovery of the solvent was also investigated. The characterization of emulsions such as particle size and zeta potential, were also carried out.	

Project Title: Development of Nanocellulose from Biomasses and its Modification for the Application in New Generation RO Membrane	
Guide Name:	Student Name:
Prof (Dr).S.T.Mhaske	Dhananjay Arun Patil
Department	Polymer & Surface Engineering and Technology
Project Abstract: We intend to develop a chemically benign process for shape selective preparation of nanocellulose in a large scale using various naturally sourced raw materials such as cotton, linen, jute and other wastes biomass. We would then	

modify their surface through a combination of mechanical and chemical means and investigate for relevant applications. The modification will include surface functionalization with suitable molecules to obtain materials with varying surface energies, which could be used as an alternative to conventional RO membranes for water purification, deposition on surface without compromise on surface aesthetics for facile cleaning and stain repellency.

Project Title: “Utilization of waste for value added products using novel and green technology Utilization”.	
Guide Name:	Student Name:
Prof. V.K.Rathod	Jyoti Dhananjay Londhe
Department	Chemical Engineering
Project Abstract: <p>This project is aiming to extract oil from seeds of manilkara zapota (chikoo seeds) by using Three Phase Partitioning (TPP). TPP is a recent advancement in the field of oil extraction, for partial purification of protein. This process makes use of t- butanol as a solvent and ammonium sulphate as a precipitating salt. The slurry of material is prepared by adding sample seeds to water with continuous stirring. This is followed by the addition of ammonium sulphate and t-butanol subsequently under constant stirring. After completion of extraction, the mass is centrifuged, and the upper organic layer containing oil is removed and evaporated to obtain the oil. Different parameters like solute to water ratio, slurry to t-butanol, slurry to salt, time are optimized.</p>	


Project Title: “Lipase catalysed synthesis and its applications”	
Guide Name:	Student Name:
Dr. Hemchandra K.Chaudhari	Suraj Shyamkumar Kapale
Department	Pharmaceuticals sciences and Technology
Project Abstract: <p>Lipases (triacylglycerol acyl hydrolases, E.C. 3.1.1.3) are pervasive enzymes of considerable physiological implication and industrial potential. Lipases occur broadly in nature; however microbial lipases are commercially important. This project entitled “Lipase catalysed synthesis and its applications’ showcased use of microbial lipases in synthesis of intermediate and active drug moiety for pharmaceutical usage. Enzyme catalysis mostly follows twelve principles of green chemistry which shall not be overlooked by looking the current scenario of pollution created through wastes from chemical factories. Keeping these points in mind and our interest in developing new technologies for synthesis of medicinally important heterocycles. The project mainly deals with the easily available lipase enzyme which can be used for three component condensation leading to the formation active drug moiety of which are considered to be highly important in medicinal products. The approach toward the formation of active drug moiety is as shown in</p>	

figure 1. The confirmation of formation of active drug moiety was briefly done by IR spectroscopy, Mass Spectroscopy and NMR. As discussed earlier, lipases are becoming increasingly important in high-value applications and we broadly cover one aspect of its application in medicinal field. The characterisation, optimization and large scale up of the reaction is ongoing. Overall this project widely focusses on the lipase and its estimation in pharmaceutical fields which will be very beneficial for society.

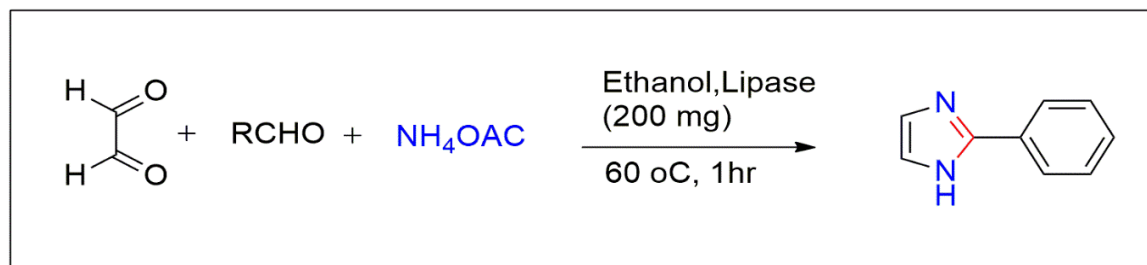






Figure 1. Approach of synthesis using lipase catalyst


<p>Project Title:</p> <p>” Intensification of Synthesis of Levulinic acid as building block and subsequent conversion to MTHF using ultrasonic irradiations”.</p>	
<p>Guide Name:</p>	<p>Student Name:</p>
<p>Prof. P.R.Gogate</p>	<p>Madhuri M. Kininge</p>
<p>Department</p>	<p>Chemical Engineering</p>
<p>Project Abstract:</p> <p>The demand for petroleum dependent chemicals and materials has been ever increasing despite the dwindling of their fossil resources. Considering the eventual fate for the petroleum based industry, significant attention is being given to obtain the valuable chemical resources from alternative routes especially based on the sustainable biomass, which falls into the category of green chemistry. Due to the fact that lignocellulosic biomass is the most abundant and renewable biomass available on the earth, there is a huge potential for converting lignocellulosic biomass into platform chemicals or the building blocks which can then be used for a variety of chemicals. Despite the potential, the conversion process is marked by disadvantages of requirement of high processing times, harsh chemicals/solvents, multiple processing steps and most importantly higher costs of production. Use of a process intensification approach such as ultrasound assisted processing can lead to development of efficient processes that can give greener routes for the production of chemicals and more importantly in a cost effective manner. Passage of ultrasound through a liquid medium generates cavitation effects such as liquid streaming, turbulence, intensified rates of transfer, thermal hot spots and production of radicals which can play a major role in deciding the extent of intensification of chemical reactions. Reactions, which are otherwise slow or do not occur at ambient conditions can be intensified by 2 to 50 times or made to occur under less conditions with the help of cavitation. Though lot of efforts have been made to study effect of ultrasound on different reactions, dedicated efforts to develop processes for efficient conversion of biomass into value added chemicals with possible intensification using ultrasound are lacking. Considering this analysis, the present project focuses on understanding the role of ultrasound in intensifying the reactions as well as pretreatment fundamentally considering the controlling reaction mechanism and the rate controlling steps. Balanced coupling the chemistry aspects (identification of reaction mechanisms, understanding the effect of various parameters</p>	


and the key rate controlling steps) with the chemical engineering aspects (optimization of operating parameters, intensification using ultrasound and scale up of ultrasonic reactors) forms the main factor that prompts the success of the proposed project. The model building block and the target value added chemical selected in the work include levulinic acid and methyltetrahydrofuran respectively but the design related information generated in the project are likely to be applicable to all such building blocks and subsequent conversion processes.

<p>Project Title:</p> <p>Finishing of Nonwovens using green technology.</p>	
<p>Guide Name:</p>	<p>Student Name:</p>
<p>Dr. Usha Sayed</p>	<p>Swati Ravindra Korgaonkar</p>
<p>Department</p>	<p>Fibres & Textile Processing Technology</p>
<p>Project Abstract:</p> <p>Today consumers are becoming more aware of the need to protect the environment, and companies use these terms to promote their goods or services with eco-labels. Environmentally friendly (also eco-friendly, nature friendly, and green are terms used to refer to goods and services, laws, guidelines and policies claiming to inflict minimal or no harm on the environment. Clothing is an integral part of our lives and green or environmental concerns have started to draw more and more attention in the textile and clothing sector. Eco friendly clothing is created from resources that are environmentally friendly and sustainable. Consideration is given to the product's total life span as well as its impact on the planet, in other words, the carbon footprint .Eco friendly clothing is created from resources that are environmentally friendly and sustainable, and efficient management of obtaining green clothing requires to consider all stages, starting from designing for the environment, obtaining raw materials,producing garments, distributing them to the channels, stores and also considering their reverse logistics and waste.</p> <p>The competitive environment forces industries to redesign their existing structures and to attain sustainable approach via research and development.</p> <p>Nonwoven fabrics are engineered that may be a limited life, single- use fabric or a very durable fabric. Nonwoven fabrics provide specific functions such as absorbency, liquid repellency, resilience, stretch, softness, strength, flame retardancy, washability, cushioning, filtering, bacterial barrier and sterility. These properties are often combined to create fabrics suited for specific jobs, while achieving a good balance between product use-life and cost. They can mimic the appearance, texture and strength of a woven fabric and can be as bulky as the thickest paddings. In combination with other materials they provide a spectrum of products with diverse properties, and are used alone or as components of apparel, home furnishing, health care, engineering, industrial and consumer goods. Thus, this project deals with modification of nonwonven materials for numerous applications like medical wipes and hygiene products like bandages, wound, dressings, surgical gowns, drapes and covers, caps and face masks and also wipesfor personal care market.</p>	

Project Title: Development of organic solvent resistance nanofiltration	
Guide Name: Dr. Parag R. Nemade	Student Name: Olviya Gonsalves
Department	Chemical Engineering
Project Abstract: Solvent resistant nano-filtration also called, as Organic solvent nanofiltration is a pressure driven filtration and excludes the use of extra energy consumption. Hence, SRNF can be cost and energy-effective. In this research, Poly aryl ether ketone (PAEK) is the polymer used for development of organic solvent nanofiltration. PAEK has high mechanical stability, high temperature resistance and is chemically inert to organic solvents. Phase inversion technique used for development of OSN. Development of PAEK membrane under different conditions, different polymer concentration, and different pore forming agents for nanofiltration. Perform studies related to ternary phase diagram for PAEK-Solvent-Antisolvent and stability of the membrane to different solvent. Application for dye separation in presence of solvent for enhancement of dye concentration.	

Project Title: “Biobased, Nano formulations of nonedible vegetable oils for pesticidal applications.”	
Guide Name: Prof. Jayashree M Nagarkar	Student Name: Kartiki B Jadhav
Department	Chemistry
Project Abstract: Use of synthetic pesticides is associated with various disadvantages such as environmental pollution, development of resistance in pests and hazards to aquatic life. —Neem oil, Karanj oil and Castor oil are natural pesticides and have excellent pesticidal properties. Karanj based products are found to be effective against insect pests of stored grains, field and plantation crops, and household commodities. Hence this oil is emulsified by using a biobased surfactant. Surfactant plays a key role in stabilizing these emulsions. Most of these formulations are stabilized by using either ionic or nonionic surfactants. They pose severe problems to the environment if these surfactants are not biodegradable. Biobased surfactants can replace them partially and reduce the problem to some extent. The proposed study would lead to green, cheaper, simple and feasible optimized process of emulsification of nonedible vegetable oils using biosurfactant..Karanj oil and extract of biosurfactant form nanoemulsion. The application of such formulations can be extended for pest control.	

Project Title: Green advantages of Metallosurfactants in organic transformation-solubilization, rate enhancement, and product separation.	
Guide Name:	Student Name:
Prof. Radha V Jayaram	Hanuman N Gaike
Department	Chemistry
Project Abstract: <p>In fine chemicals and pharmaceuticals industry, there is growing awareness for greener, more sustainable technologies & efficient chemical synthetic approaches to reduce environmental and health hazards. Lately, use of alternative reaction media that circumvent the problems associated with volatile organic solvents (VOC) has attracted lots of attention. Although aqueous solvent is cheap and easily available alternative to VOCs, its use is hindered, in case of poorly water-soluble reactants. In such case, surfactants can be used as an inert solubilizing agent to resolve solubilization problem, which can also act as a catalyst. Surfactants are amphiphilic molecules adsorb at the interfaces & reduce surface tension between the two immiscible phases. At critical micelle concentration (CMC), it spontaneously self-assemble to form intricate structures, called “micelle”. Micellar system has been extensively explored in chemical reactions as it offers enhanced reaction rates and selectivity. This effect is referred to as micellar catalysis, occurs due to an increased local concentration of the reactants at the surface or in the interior of the micelle; stabilization of the transition state of the reaction due to a favourable interaction with the surfactant molecules; and a combined polarity, microviscosity, and charge effect inside the micelle etc. However, it has been observed that surfactants produce rather modest rate effects. To exploit the benefits of micellar catalysis it is imperative to have certain modification in structure of surfactant molecule to impart certain functional modalities. Metallosurfactants are such class of functional surfactants in which transition metal ion is present as structural component. Due to presence of transition metal ion in surfactant molecules the properties associated with these metal ions like magnetic, electrical, redox and catalytic properties can be imparted to the surfactants and hence can bring about the interface of the system. Metal ions are well known to have template effects and assist chemical reactions in several ways such as Lewis acid catalysis; charge neutralization; activation of nucleophilic functions or coordinated water molecules by substantially decreasing their pKa, and, hence, nucleophilic catalysis; assistance in leaving group departure etc. Our proposed work is mainly focus on synthesis of new metallosurfactants and its application as catalysts in various organic transformations.</p>	

Project Title: “Novel Cloud Point Extraction (CPE) of Bio-actives from Fruit Industry Waste.”	
Guide Name:	Student Name:
Dr. Shalini S. Arya	Pavankumar More
Department	Food Engineering and Technology
Project Abstract:	

Food industry has experienced a revolutionary development for more green and efficient technologies for extraction of food bio-actives due to the technical, scientific and economical headrace of traditional extraction techniques. These food bio-actives are vital nutrients that are present in food in very small quantities. Fruits, vegetables and their waste are potential sources of bio-actives later is sensitive to temperature, light and oxygen.

Cloud point extraction (CPE) is one of novel; green; energy and cost-efficient extraction technique of bio-actives used for this study which works at temperature within 50-60 °C with food grade, non-toxic, safe and environment friendly non-ionic surfactants. CPE reduces the consumption of solvent, extraction time and disposal costs. As compare with other techniques; this has some advantages like low cost, speed, better efficiency, environmentally lower toxicity and safety. The CPE aids the extraction of bio-actives from fruits, vegetables and medicinal plants, it also used to separate and purify the proteins, analysis of food constituent, additive, mineral and residues of pesticide, antibiotic and packaging material. There are some factors which affect CPE efficiency, such as surfactant type & concentration, pH, electrolytes concentration, equilibration temperature and extraction time.

With the hypothesis of successful use of the cloud point extraction technique for effective and green extraction of food bio-actives from fruit and waste with better quality and their successfull application in foods with effective antioxidant, health beneficial colorant and preservative properties.

Project designed with principle objectives were:

1. To optimize the Cloud Point Extraction (CPE) conditions for better extraction recovery and quality of bio-actives.
2. To compare the CPE with conventional method.
3. To develop the degradation kinetics for bio-actives due to cloud point extraction.
4. To study the shelf-life and food application /evaluation of extracted bio-actives.


Outcomes of the projects till date are:

Study concluded that CPE method can be successfully applied in the extraction of bioactive from any food systems for clean and green extractives label.

CPE will be a suitable alternative to extraction and determination of bio-actives that has uses in dietary applications and thus offering alternative to organic solvents.

CPE will be a suitable alternative to the conventional extraction techniques (Solvent extraction, ultrasound assisted extraction, microwave assisted extraction, etc.)



Non-ionic surfactants will be classified as either relatively nontoxic, environment friendly or harmless reagents.

<p>Project Title:</p> <p>“Green approach towards the synthesis of conductive paint from biomass”</p>	
<p>Guide Name:</p> <p>Dr. Surajit Some</p>	<p>Student Name:</p> <p>Madhuri Bhakare</p>
<p>Department</p>	<p>Dyestuff Technology</p>
<p>Project Abstract:</p>	

Biomass is the great and cheap source for the synthesis of graphene. Graphene is known as a wonder material in scientific community because of its property and uses. Graphene has various applications ranging from biological to building materials. Graphene is used as a drug carrier, building material, catalyst, supercapacitor, desalination, flame retardant etc. Synthesis of graphene is rather a tedious process and involves expensive starting materials. The yield after the reaction is also very less so it's a need of a time to yield more graphene which can be used in many fields. Biomass is the great area where anyone can seek for the things they wanted. It's a cheap alternative for synthesis of graphene. Populus wood mass, as a precursor, was first carbonized under the nitrogen atmosphere to obtain carbon and by again by chemical activation it turned into the graphene. Dead camphor leaves are also thermally reduced to create few layers of graphene. Mango peel is also used to synthesize a graphene. Such cheap graphene source can be used to synthesize graphene and that can be used for the preparation of the conductive paint.

<p>Project Title:</p> <p>Deep Eutectic solvent as “Greener media” for oxidation reaction.</p>	
<p>Guide Name:</p> <p>Prof. (Dr.). G. S. Shankarling</p>	<p>Student Name:</p> <p>Rupali Bhise</p>
<p>Department</p>	<p>Dyestuff Technology</p>
<p>Project Abstract:</p> <p>Enforcing environmental legislation has generated increasing need for cleaner methods of chemical production, which eventually lead for search of technologies that reduce or, preferably, eliminate the generation of waste and avoid the use of toxic and/or hazardous reagents and solvents. This transition towards greener synthesis has lead to development of media which focuses on economic value to eliminating yield rather than on chemical yield. Ionic liquid emerged as promising media for organic reaction. A number of successful reactions have been reported in ionic liquid such as Diels–Alder, Friedel–Crafts, olefin hydrogenation, hydroformylation, oligomerization and Heck and Suzuki coupling reactions.</p> <p>Oxidation processes rely upon environmentally damaging oxidants and have poor atom efficiencies. Thus, there is an increasing demand for oxidation processes that are catalytic and use environmentally benign oxidants. Oxidation processes have been performed in ionic liquids such as oxidation of olefins, oxidation of alcohols. However due to moisture sensitivity and non-biodegradable components the use of ionic liquid is questioned. Hence a new class of solvent was developed named as “Eutectic mixture” or “Deep eutectic sovents” in order to differentiate it from ionic liquid. DES is formed by mixing two solid components which form mixtures which are liquid at room temperature. DESs share many characteristics of conventional ILs (e.g. they are nonreactive with water, nonvolatile, and biodegradable), but their low cost makes them particularly desirable (more than conventional ILs) for large-scale synthetic applications. DES of quaternary ammonium salts and hydrogen bond donors like urea, organic acids, glycerol or amides developed by Abbott and coworkers. Till date, the applicability of DES have been explored in areas of biocatalysis, electrodeposition of alloys, ionothermal materials synthesis and as an electrolyte for dyes sensitized solar cells. We have recently reported condensation reaction and halogenation reactions in DES. A variety of other reactions such as N-alkylation, hydrazones formation, N-insertion are under communication. These solvent possesses properties that are comparable to room temperature ionic liquids (RTILs), but are advantageous because they can be easily prepared in high purity, at low cost, and their components are completely biodegradable with no toxicity. Hence the utility of DES in oxidation reaction is proposed.</p> <p>It has been observed that industrially performed catalytic oxidation reactions often suffer from drawbacks such as poor</p>	

conversion and selectivity due to over-oxidation, corrosive reaction media, lack of solvent and catalyst recycling, and negative environmental impact due to evaporation of the solvents. In order to provide a methodology that addresses these problems, DES will be investigated as reaction media. The salient features of these deep eutectic solvents are that they have negligible vapor pressure, provide accelerated reaction rates, and possess enhanced potential for recycling, in addition to their compatibility with a variety of organic compounds. DES is observed to play a dual role of catalyst as well of solvent and can be recycled and reused for without any significant loss of catalytic activity. Hence their potentiality will be tested for oxidation reaction.

<p>Project Title:</p> <p>Bio- coloration: A promising method of natural coloration of textiles</p>	
<p>Guide Name:</p> <p>Prof. Dr. R. V. Adivarekar</p>	<p>Student Name:</p> <p>Akankshya Panda</p>
<p>Department</p>	<p>Fibres & Textile Processing Technology</p>
<p>Project Abstract:</p> <p>Biosynthesis of the colorants for food, cosmetics and textile application has attracted increased interests in recent years. Nature produces many bio-colorants from various resources including plants, animals, and microorganism.</p> <p>A great variety of synthetic dyes are used for textile dyeing and other industrial applications. During textile processing, inefficiencies in dyeing results in about 2 to 50% of the applied material being lost to the wastewaters. Most of these compounds are also highly resistant to microbial attack, and thereby they are hardly removed from the effluent by conventional wastewater treatments. Majority of the synthetic dyes in commercial use are azo dyes which can produce carcinogenic and mutagenic aromatic amines on undergoing a reductive cleavage of the azo linkage under anaerobic degradation and these dyes are banned. There have been numerous efforts in substituting banned dyes by the relatively more safe dyes.</p> <p>In the developed economies demand for garments made out of natural dyed fabrics are increasing day by day and these consumers are ready to pay for the additional cost, although not necessarily such articles are always costlier than those of synthetically coloured. Thus natural dyed material constitutes a niche market.</p> <p>The research revolves around obtaining various pigment producing organisms through screening of various ecosystems for its microbial biodiversity that are capable of elaborating various pigments. The use of agricultural waste as media for growth of the isolates has been focussed. Characterization of microbial colourants and its analogy to the existing synthetic /natural dyes to compare their viability is the major area of focus. The produced pigment will then be applied on the substrate to check their end use.</p>	
<p>Project Title:</p> <p>“Process development and method intensification of Fluazinam”</p>	
<p>Guide Name:</p>	<p>Student Name:</p>

Professor.Dr. Vikas .N. Telvekar	Yatin Gadkari
Department	Pharmaceutical Sciences and Technology

Project Abstract:

Because of protectant Fungicidal nature, Fluazinam is an excellent active ingredient of pesticides and highly useful in the agrochemical industry. It acts by inhibiting the germination of spores and the development of infection structures. It is an extremely potent uncoupler of oxidative phosphorylation in mitochondria and also having high reactivity with thiols. It's a need to synthesize it efficiently in a proper form with simple operations at low cost in an environmentally friendly manner. So, this project entitled "Process development and method intensification of Fluazinam" involves the synthesis of Fluazinam through intermediate for agrochemical usage.

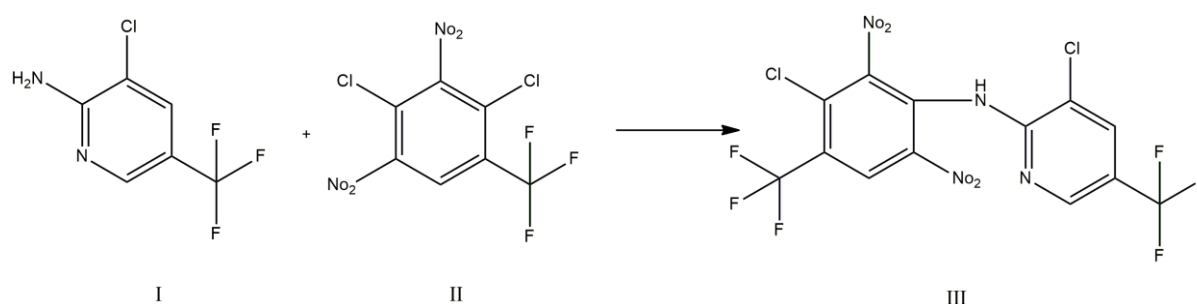


Figure 1. Scheme for Synthesis of Fluazinam

I - 2-amino-3-chloro-5-trifluoromethylpyridin,


II - 2,4-dichloro-3,5-dinitro-trifluorotoluene,

III- Fluazinam


The method comprises the following steps: performing a reaction on 2-amino-3chloro-5-trifluoromethyl pyridine and 2,4- dichloro -3,5- dinitrobenzotrifluoride in the presence of an organic solvent, an alkali and a catalyst at a specified reaction temperature to obtain the desired product


Initially, we screened and designed schemes for the synthesis of 2-amino-3-chloro-5-trifluoromethylpyridine and 2,4-dichloro-3,5-dinitro-trifluorotoluene which are required intermediates for the synthesis of Fluazinam. The formation of the intermediates is confirmed by Mass Spectroscopy and NMR spectroscopy. The characterisation, optimization and scale-up of the reaction intermediates are ongoing simultaneously.

Our interest is not only synthesizing fluazinam, efficiently in a proper form with simple operations but also recycling of alkali, catalyst and solvent so that generation of waste can be reduced with commercial significance.

Project Title: "Greener way of Production of High-Performance Colorants- Xanthene and Quinonoids."	
Guide Name: Prof. Dr. N. Sekar	Student Name: Puja Gupta

Department	Dyestuff Technology
Project Abstract:	
<p>Production of high-performance colorants from xanthene class (fluorescent dyes) and quinonoid class (pigments) involve reactions catalysed by Aluminium Chloride wherein Aluminium Chloride is used in larger amounts (in mole ration) and at higher temperatures. In place of Aluminium Chloride greener reagents and milder conditions will be used.</p>	


Project Title:	
Synthesis of Metal and Metal oxide nanomaterials and its application in catalysis.	
Guide Name:	Student Name:
Prof. Bhalchandra M. Bhanage	Shilpa Prabhakar Gowalkar
Department	Chemistry
Project Abstract:	
<p>The most significant and challenging part of catalyst development is the development of a green method in the aspect of optimization of energy needs and the use of non-conventional energy sources. Conventional synthesis of metal and metal oxide nanomaterials requires a large number of resources and energy. Most of the conventional techniques used for the synthesis of nanomaterials include the high-temperature chemical reduction reaction, laser ablation, ion implantation, chemical vapor deposition, and photolithography. The use of conventional techniques and higher energy requirements have resulted in the high cost of nanomaterials. The use of non-conventional, green and easily available energy sources like solar energy for heating and photo-induced formation of nanomaterials is recognized as important enabling technologies in synthesis. The project aims to develop a cost-effective and greener protocol for nanomaterials preparation and its application as a catalyst. In parallel, it will enable the conversion of low-value chemical feedstock, lignocellulosic biomass, or industrial waste to valuable chemicals.</p>	


Project Title:	
Synergistic strategy for phycoremediation of hypersaline saline and municipal liquid waste (MLW) water along with macroalgal biomass cultivation	
Guide Name:	Student Name:
Dr. Reena Pandit	Gayatri K. Pillai
Department	DBT-ICT Centre for Energy Biosciences
Project Abstract:	


According to the UN-Water report 2019, over 80 % of all wastewater returns to the environment without being treated leading to health hazards and environmental pollution. A humongous volume of wastewater discharged into the marine environment adversely affects the marine flora and fauna adding up to the ever-increasing marine pollution

Also, rapid industrial development and population growth globally have led to a large and growing need for freshwater. This demand for freshwater has led to a steep rise in desalination plants, which consequently has threatened the marine ecosystem with its hypersaline brine effluent. Many desalination facilities have adopted strategies of codischarging the hypersaline brine with untreated or partially treated wastewater to meet the ocean's salinity. But this method is far from a holistic approach. The conventional remediation techniques lack the potential for remediation of this mixed effluent. An alternative method to these conventional method is being researched widely.


Keeping these scenarios in check the present study envisages designing an efficient method using marine macroalgae. Wastewater remediation by macroalgae has an added economic advantage as the biomass generated can be used to produce a plethora of commodity chemicals and energy molecules. For this purpose, in the present study, *Ulva lactuca* and *Enteromorpha prolifera* species were grown in salinity amended water (SAW) which was prepared by mixing hypersaline brine and municipal liquid waste (MLW). The macroalgae was adapted to the SAW and a DGR of 15% was achieved. The nutrient removal rate (mg g⁻¹ DW L⁻¹ d⁻¹), removal efficiency (% d⁻¹) and total nutrient removed (%) was evaluated to examine the bioremediation potential of these macroalgae. The total nutrient removal rates obtained in the present study using the macroalgae holds promise in using them for bioremediation. Thus, a synergistic approach of bioremediating hypersaline brine and municipal waste liquid along with the production of algal biomass for valorization is being put forward through this study.


<p>Project Title:</p> <p>Production of sugar fatty acid esters by biocatalyzed continuous processes.</p>	
<p>Guide Name:</p> <p>Dr. Annamma A. Odaneth</p>	<p>Student Name:</p> <p>Tejal Mule</p>
<p>Department</p>	<p>DBT-ICT Centre for Energy Biosciences</p>
<p>Project Abstract:</p> <p>Sustainable process development implies an effective use of renewable and non-renewable natural resources. The existing process employ non-renewable resources, whose depletion is inevitable. Exhaustion of these resources has enforced the search for renewable alternatives. Natural renewable energy is therefore explored as potential substitutes to overcome the existing crises in a sustainable and eco-friendly manner. In this regard, use of waste materials for production of sugar fatty acid esters (SFAEs), an important detergent was evaluated from cardboard wastes which is a major source of cellulosic biomass. The production of SFAEs involves three aspects a) Enzyme production for the catalysis b) Production of sugars c) Catalysis of the sugars and fatty acids. The first aspect was accomplished by production of β-glucosidase utilizing cardboard waste as substrate by fungal fermentation for catalysis. The second aspect of sugar production from the cardboard waste is being worked. Different pre-treatment parameters and commercial enzymes have been evaluated to improve enzymatic hydrolysis of cardboard waste for obtaining high sugar yield. So far, the maximum biomass hydrolysis of above 50% has been achieved. Still, further optimization of process conditions is required for further improvement in the sugar yield. Later, in the third aspect the concentrated sugars will be utilized for the synthesis of sugar fatty acid esters (SFAEs).</p>	

Project Title: Develop a viable process for preparation protein isolates from indigenous oil seeds for food applications and surfactant synthesis	
Guide Name: Dr. Jyotsna Waghmare	Student Name: Rakhi Patil
Department	Oils Oleo-Chemicals and Surfactants Technolgy
Project Abstract: Oilseeds are sources of energy and nutrition. The main product of oilseeds is oil which finds uses as food fat and also as industrial raw material for development of various oleochemicals. After extraction of oil from seed or fruit we obtain the meal/cake as the waste, but in the waste greatest value lays. The commercial oil cake produced during expeller pressing of oil seed, contains desirable byproduct. In defatted oil cake protein, starch, fat, crude fiber and ash are the prominent components. Upward trending world population and increasing costs for traditional food proteins provide many incentives for utilization of oilseed proteins directly in human diets. The utilization of oilseeds and their cakes for edible purposes gets limited, due to the presence of ant nutritional constituents like phytates, oxalates and mycotoxins. There is need for upgrading the cakes for further incorporation into foods and food products. Cottonseed production in India is 150 lakh tones, oil content is cottonseed is about 18% and protein content in cottonseed meal is about 40-42 % but meal contains coloring phenolic pigments which are harmful for humans and ruminant animals. The non-availability of suitable process limits the use of such an important and valuable commodity. Hence Project will be concentrated on removal of gossypol from cottonseed meal, protein extraction and concentration and application in various food products and surfactant synthesis.	


Project Title: “Green Oleochemicals Based on Gurbet/Branched fatty mataterials”	
Guide Name: Prof. Amit P. Pratap	Student Name: Deepak Sonawane
Department	Oils Oleo-Chemicals and Surfactants Technolgy
Project Abstract: Guerbet alcohols have been known for many years as branched chain fatty materials. This Guerbet/ branched chemistry has made possible the synthesis of a regiospecific, beta-branched hydrophobe which introduces high-purity branching into the molecule. Reaction is related to the Aldol Reaction and occurs at high temperatures under catalytic conditions. Many catalysts have been described in the literature as effective for the preparation of Guerbet Alcohols. These include, nickel, lead salts, oxides of copper, lead, zinc, chromium, molybdenum, tungsten, manganese, palladium compounds and silver compounds. There are advantages and limitations for each type. The Cannizzaro Reaction is a major side reaction and is described as the disproportionation of two molecules of an aldehyde brought about by the action of sodium or potassium hydroxide to yield the corresponding alcohol and acid. One of the major challenge is to over come this hurdles and optimaize the process to derive maximum yield. This study intended to develop a process that utilizes	

the fatty materials obtained from vegetable oils as potential green alternatives against the petrochemicals. Furthermore the products are intended to be biodegradable and environment friendly.

Project Title: Improved green synthesis of Polyglycerol Polyricinoleate (PGPR)	
Guide Name:	Student Name:
Dr. Annamma. A. Odaneth	Darren Jacob Ennackal
Department	DBT-ICT Centre for Energy Biosciences
Project Abstract: <p>Polyglycerol polyricinoleate (E-476, “PGPR”) is a food additive and viscosity modifier used to keep emulsions of oil and high water content system stable such as 80%. In the chocolate industry, PGPR is exploited to reduce the yield stress in the molten chocolate. An enzymatic method for the biocatalytic production of PGPR is being researched widely on account of the disadvantages in chemical synthesis. Benefits of biosynthesis include mild reaction conditions of temperature and pressure, neutral pH and in a solvent-free system, which makes the process environmentally friendly. The current work aims at developing a process for the synthesis of PGPR and its equivalent using a natural (carbohydrate) polyol. The synthesis of polyglycerol is well-established through chemical methods. Finding a replacement for the polyol with similar characteristics will allow the process to be green and environmentally sustainable. The project, therefore, consists of two steps a. Isolation of seaweed polymer (polyol); b. Enzymatic polymerization of ricinoleic acid; and c. Cross-linking of PRA and polyols (glycerol & seaweed polysaccharide). In this study, we have successfully isolated ulvan from seaweed and established the concentration vs viscosity profiles. Studies for the polymerization of ricinoleic acid using immobilized lipases in a solvent-free environment have also been carried out. CalB preparation of lipases yielded the highest degree of polymerization (DOP) of RA with a drop in acid value (AV) of 137 with CALB and was chosen for further work. The next steps are aimed at linking glycerol and Ulvan through reported methods and testing the viscosity of the two. The final PGPR and its alternative product (ulvan-PR) will be characterized as a single molecule for its functional properties and use as an environmentally friendly and food grade emulsifier in the food industries.</p>	

Project Title: Photocatalytic degradation of dyes for effluent treatment	
Guide Name:	Student Name:
Dr Archana Kalekar	Oshnik Chandrakant Maurya
Department	Physics
Project Abstract: <p>The textile processing industry is one of the most polluting industries. It uses large volumes of water; on an average over 100 litres per Kg of fabric processed. The industrial effluent is discharged in natural water resources thus polluting these resources. Many areas in India are facing severe problems due to polluted ground water. In fact, some of process</p>	

houses have been ordered by the Hon'ble High court to shut down and pollution control boards insist on zero liquid discharge which is very expensive and yet may not be an ideal solution. Therefore, it is necessary that effluent is properly treated, and dye molecules are removed from it before it is discharged in natural water reservoirs. Currently, photocatalytic material such as TiO₂, WO₃, ZnO, CuO, Fe₂O₃ etc. are used to degrade /split dye molecules present in the effluent. Nano particles of these materials are found to be more effective in treating effluent due to large surface to volume ratio. However, recovery of nano particles is a great challenge. The degradation of dye molecule is achieved in presence of photons. When photocatalytic material is exposed to the radiation of suitable energy, electron-hole pair is generated and is responsible for degradation / splitting of dye molecules. However, the probability of recombination of electrons and holes will decide the efficiency of this technique. Before they get recombine, if they interact with dye molecules then the degradation / splitting of dye molecule is possible. Hence it is more important that they do not recombine fast or this recombination rate is delayed substantially. Secondly tailoring the bandgap of the above-mentioned materials is crucial. By using suitable dopants, the band gap will be adjusted in such a way that the material absorb energy from the visible spectrum of solar radiation effectively. In the present project, TiO₂ and WO₃ thin films will be deposited using spray pyrolysis on transparent conducting glass plates, which acts as electrode. The bandgap of TiO₂ and WO₃ will be tailored using suitable dopant. Since photocatalytic material is deposited and strongly adhering to the substrate glass plate electrode, the loss of material by erosion will be negligible and hence there is no question of recovery of the material unlike nano particles. However, the deposited film will have nano structure, which will facilitate and speed up dye degradation. Further, to delay electron-hole pair recombination, very small voltage around 1.5 V will be applied between the two electrodes. This voltage will be generated by photo-voltaic mechanism in presence of solar radiation. Thus, solar radiation will be used to induce catalytic activity and to maintain potential difference between the two electrodes. Therefore, this process is environment friendly and will enhance rate of degradation / splitting of dye molecules in the effluent.

Project Title: Separation and racemization of important pharmaceutical compounds of industrial relevance.	
Guide Name:	Student Name:
Professor G.D. Yadav	Ashily Rajendran
Department	Chemical Engineering
Project Abstract: The current research focuses on the biocatalytic racemization of R, S-substrate to the desired S-product or R-product using whole cell microbes, immobilized whole cells, enzymes and immobilized enzymes. The work also emphasis on synthesis with membrane bioreactor, characterization and optimization of heterogeneous biocatalysts for cascade engineered reactions to increase the yield and selectivity for desired racemic product. This research work will also help in development and validation of estimation methods of novel chiral compounds of pharmaceutical industries.	


Project Title: Formulating UV Curable Resin for SLA 3D printing and other general application	
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Guide Name:	Student Name:
Prof. Dr. .R. N. Jagtap	Prashil Desai
Department	Polymer & Surface Engineering and Technology

Project Abstract:

Origin of the proposal, definition of the problem and the objectives

Traditional way of creating the object is form the solid block using grilling, milling, turning and drilling. Throughout the years this technology has evolved and was replaced by electric machining controlled by software and robotics, however it still consists of many troubleshooting and limitations. The constrains of using this technology are time and labor intensive, assembling and fixing which often leads to high product cost. In the recent years it can be seen that huge interest has been exhibited in the technology of “Rapid Prototyping” or “Additive Manufacturing” or in simple terms 3D Printing Technology. Additive manufacturing is a method where object is digitally designed using CAD software and is built up by horizontal layer deposition process. The digital file of the object is spited into many horizontal cross-sections and thus preceded for final printing. Immense research and investments are being made to develop the technology at a commercial scale, along with that the limitations of this technology have been brought down to minimal. Traditional manufacturing follows step by step progression where designing, process planning and manufacturing are done successively, whereas in additive manufacturing all these steps are done simultaneously which enhances the overall manufacture quality and efficiency. Throughout the years many technologies have been developed in the field of rapid prototyping, which works on the same principle of horizontal layer deposition but only differs in printing techniques. Some of the well-established technologies are Fused deposition modeling (FDM), Selective layer sintering (SLS), Laminated object manufacturing (LOM), Digital light projection (DLP), Stereolithography (SLA). Additive manufacturing by Stereolithography is found to be the fastest and gives best resolution among other printing technologies. The resolution of prototype mainly depends on factors like additive manufacturing technology, materials for printing, overall accuracy of the system and post processing requirements. The cutting-edge UV laser curing technology use in this system enhances the print resolution to utmost level giving prototype well finished surface, unlike unusual horizontals cross-section observed in the other additive manufacturing techniques. The fine control on the UV laser guided system builds up the 3D Print with good precision from the source digital file use to design the prototype. The photocuring resin use as the printing material in SLA technology is found to be the best choice among other materials like PLA, ABS, photosensitive powder, etc. which are used in other additive manufacturing techniques. The availability of wide selection of resins in SLA also helps in crafting prototypes with different physical and mechanical properties, were as using other printing materials only handful properties can be achieved. Prototype with high complexity and rapidity can be designed using SLA as compared to other additive manufacturing techniques. Incorporation of nanocomposites in photocurable resins has also gained a major research interest. Dispersing nanocomposites such as ceramics, metals, glass etc. improves the overall structure and property of the prototype giving its surface same as ceramics or metal objects.

Project Title:	
Development of Subcutaneous Implant	
Guide Name:	Student Name:
Dr. Purnima D. Amin	Sunny B. Wankhade
Department	Pharmaceutical Sciences and Technology

Project Abstract:

Chronic pain management by conventional drug therapy is difficult and requires high patient compliance. In animals the situation worsens further. Use of subcutaneous implants can be a boon for patients. Thus analgesic implants can be used for chronic pain management. This would reduce the dose frequency. Depending upon the dose to be administered implants can be either injectable or surgical. Also multiple implants can be administered to maintain the minimum effective dose level.

Selection of drug and polymer becomes crucial for the desired therapeutic effect. Drug with high half-life must be used to attain the desired therapeutic effect. The release of drug from the polymer is also important as it would determine bioavailability of the implant.

Implantable drug delivery system requires large doses of drugs administered by systemic routes. Some of the disadvantages of prolonged parenteral therapy include; Patient discomfort, high cost of treatment, development of systemic toxicity, patient compliance problems.

Hot Melt Extrusion :


Hot Melt Extrusion (HME) technique is a promising technology for manufacturing of implants. It involves application of heat, pressure and agitation through an extrusion channel to mix materials together, and then forcing them out through a die. It blends materials while imparting high shear to break-up particles and disperse them.

It offers several advantages of manufacturing:

- Continuous process
- High throughput
- Solvent-free technique
- Increases solubility and bioavailability of poorly water-soluble drugs
- No downstream processing required
- Useful for low compressibility index Active Pharmaceutical Ingredients (API)
- Exposure to oxygen in extrusion channel is limited

HME has emerged as an alternative to conventional manufacturing process due to its enhanced bioavailability.

Chronic pain management in animals is very difficult due to low compliance. Administering subcutaneous implants would reduce dose frequency and give the desired therapeutic effect for 1-3 months. The subcutaneous tissue is an ideal location for implantation and prolonged drug administration because of its access to implantation and slow drug absorption.

Project Title: “An eco-friendly process modification for the synthesis of Polyethylene oxide towards monodispersity and process intensification for upscale production following green technology protocol.”	
Guide Name: Dr. Nabanita Sadhukhan	Student Name: Tanvi Gupta
Department	Dyestuff Technology

Project Abstract:

Polyethylene glycols $H(OCH_2CH_2)OH$ constitute a class of compounds of growing importance in field of Medicine, Cosmetics and Organic Chemistry. Several synthetic routes for its synthesis has been reported which includes variable number of steps or use of hazardous chemicals. During the course of our work, we needed polyethylene glycols with a well-defined number of ethylene oxide units($n=4$). Using Williamsons ether synthesis, we are trying to synthesize glycols using less steps and environmentally friendly chemicals so that it would be beneficial for the industrial purpose.

Project Title:

Greener approach to process intensification via membrane nanofiltration and/or reverse osmosis in the manufacture of selected haematinics

**Guide Name:**

Prof. Anand V. Patwardhan

Student Name:

Pritesh Patil

Department

Chemical Engineering

Project Abstract:

A haematinic is a nutrient required for the formation of blood cells in the process of haematopoiesis. The main haematinics are iron, B12, and folate. Deficiency in haematinics can lead to anaemia. In cases of haematinic deficiency, haematinics can be administered as medicines, to increase the haemoglobin content of the blood. Iron is required in biosynthesis of heme and heme-containing proteins. Various iron salts listed above like iron sucrose, iron polymaltose, iron sorbitol, find application as haematinics. Iron sucrose is used in treating iron deficiency anaemia in patients undergoing chronic haemodialysis. It replenishes body iron in patients. Iron polymaltose a well-established active pharmaceutical/nutrition raw material or bulk drug used as haematinic drug or in iron deficiency anaemia or as nutritional supplement. Iron sorbitol in elemental iron is used as an injection. This medicine is used to treat anaemia in people, who are unable to take oral forms of iron. Manufacture of above salts has been done traditionally by batch process with variations in quality parameters. These products are high volume and low priced and are proposed to be manufactured by flow chemistry (continuous process) followed by membrane nanofiltration and/or reverse osmosis (concentration of dilute salt solution in continuous mode). The two successive process intensification steps should help for life cycle management of this class of APIs.

Project Title:

Oxidation of p-cresyl methyl ether to p-anisaldehyde

**Guide Name:**

Prof. S. S. Bhagwat

Student Name:

Vaishali Waghmare

Department

Chemical Engineering

Project Abstract:

P-anisaldehyde is an important chemical and chemical intermediate having huge demand in the market because of extensive applications in pharmaceuticals, perfumery and agrochemical industries. It is also used in soap additives, food additives, electroplating. Process for the production of p-anisaldehyde can be categorized as vapor Phase Oxidation, liquid phase oxidation and electrochemical oxidation. Although the liquid phase oxidation of hydrocarbons has been the subject of numerous studies, the reaction mechanism is not simple and there is still no unified view in terms of the control of the catalytic activity and selectivity to oxidize specific substrates. Research is related with the development of a process and optimizing reaction parameters so as to obtain the maximum amount of selectivity for aldehydes along with the minimum amount of by product generation. Study also includes scaling up the oxidation process and developing its technology in order to achieve maximum industrial economic feasibility.

Keywords- Oxidation, p-anisaldehyde, selectivity

Looking forward

This report is a brief glimpse of activities at ICT under TEQIP-III in the period June 2019 – July 2020. ICT will thrive to ensure that the objectives of TEQIP-III are successfully attained. Mentoring is the heart of TEQIP-III is being promoted in research and development in areas of mutual and complimentary interest through collaborative projects, creating opportunities for industrial training, internships, career counselling, and placement opportunities. The strength of the twinning programmes is the continuous association, the camaraderie developed and the joint determination to take the programme to success.



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विद्यापीठ गीत श्री रसायन देविका

उद्घोष तुझा जयघोष तुझा
उत्कर्ष तुझा जल्लोष तुझा
संघर्ष नको संहार नको
संदेश तुझा उपदेश असे
रसायन देविके श्री रसायन देविके ॥ १ ॥

विज्ञानाची एकच भाषा
विज्ञानाच्या दाही दिशा
नकोत सीमा विज्ञानाच्या
जैव रसायन मीलना
दे ध्यास हा मतिवर्धिने
रसायन देविके श्री रसायन देविके ॥ २ ॥

नको प्रदूषित भूजलवायु
विपुल अन्न अन् उदंड आयु
रोग नको अन् नको त्रुटीही
अखंड ऊर्जा निर्मळ पाणी
अक्षर हरिते जगन्माते
रसायन देविके श्री रसायन देविके ॥ ३ ॥

मूर्तीवंत तू कीर्तिरक्षिके
जगन्मान्य तू महन्मंगले
अभियंती अन् रत्नपारिखे
शतप्रणाम हो तुज नायिके
नवक्षितीजे तव चेतना ही
रसायन देविके श्री रसायन देविके ॥ ४ ॥

गणगणश्री तणतणश्री
जैवशिवश्री सृष्टिधारिके
रसायन देविके श्री रसायन देविके
वंदू गणनायिके श्री रसायन देविके ॥ ५ ॥

कवी : प्राध्यापक डॉ. जी. डी. यादव

दि. २७ फेब्रुवारी २०१२

कुलगुरू, रसायन तंत्रज्ञान संस्था

(प्रथम दीक्षांत समारंभ दिनी प्रकाशित.)

दिनांक ६ मार्च, २०१२

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INSTITUTE OF CHEMICAL TECHNOLOGY, MUMBAI

Mumbai, Bhubaneswar, Jalna

Deemed to be University under Section 3 of UGC Act 1956

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TEQIP Phase - III Funded, From The Top Category

I Institute (MHRD/UGC), NAAC A++ , CGPA 3.77/4.00

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Annual Day 2019 , March 19
 Chief Guest :Dr. M.P. Poonia, Vice Chairman,
 All India Council for Technical Education
 Delhi , Shri Aneel Murarka, Managing
 Director, Mirachem Industries Ltd.



ISCMA Award function – 22 January, 2020 Chief Guest – Mr. Adille J. Sumariwalla, Vice-President of Indian Olympic Association ▼



▼ Foundation Day – October 10, 2019 Chief Guest - Professor Bhushan Patwardhan, Vice-Chairman, University Grants Commission.

Dr. R. Vinu, Department of Chemical Engineering, Indian Institute of Technology Madras delivered Alkyl Amines – ICT Foundation Day Young Scientist Award Lecture ▶



Yoga Day 21 June, 2019
Ms. Shilpa Suresh Salim, a certified Yoga trainer delivered a talk on essence of Yoga followed by Yoga session

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