

ICT Mumbai Campus

ICT- Marathwada
Jalna (MARJ) Campus

ICT- IOC Bhubaneswar
(IOCB) Campus

ANNUAL REPORT | 2023-24



INSTITUTE OF CHEMICAL TECHNOLOGY

Mumbai | IOC Bhubaneswar | Marathwada Jalna

Category I Deemed to be University (MHRD/UGC)
Elite Status and Centre of Excellence, Govt. of Maharashtra
“National Rank 6 in Atal Innovation Ranking (ARIIA) 2021” by MHRD

<http://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 cutting-edge 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 endeavors, while extending well beyond the confines of the classroom, will aim to enhance public welfare and our attempts to dissipate 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.

PLEDGE

I AM ICTian. This is my institute, I take deep pride, but without vainglory; to it I owe solemn obligations that I am eager to fulfil. I Climb These steps into a grand shrine of knowledge and portal of excellence. I am privileged to be a part of a great tradition, rich culture and ethos built by selfless services of great many individuals. I take great pride in its achievements and eminence. I will be in a company of knowledge seekers, givers and servers. It will be my endeavor to protect its reputation and legacy. I will participate in none but honest enterprise. I shall shun prejudice of all kinds and perform actions that are deemed righteous morally, ethically, professionally and legally. To my fellow I pledge, in the same full measure I ask of them, integrity and fair dealing, tolerance and respect, and devotion to the repute and dignity of our institute; with the consciousness, always, that our special expertness carried with the obligation

TO SERVE ICT, INDIA AND MANKIND WITH COMPLETE SINCERITY.

ANNUAL REPORT: 2023-2024



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Mumbai | IOC Bhubaneswar | Marathwada Jalna

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“National Rank 6 in Atal Innovation Ranking (ARIIA)- 2021” by MHRD

<http://ictmumbai.edu.in>

World Renowned for Quality of Education, Research and Connectivity with Industry

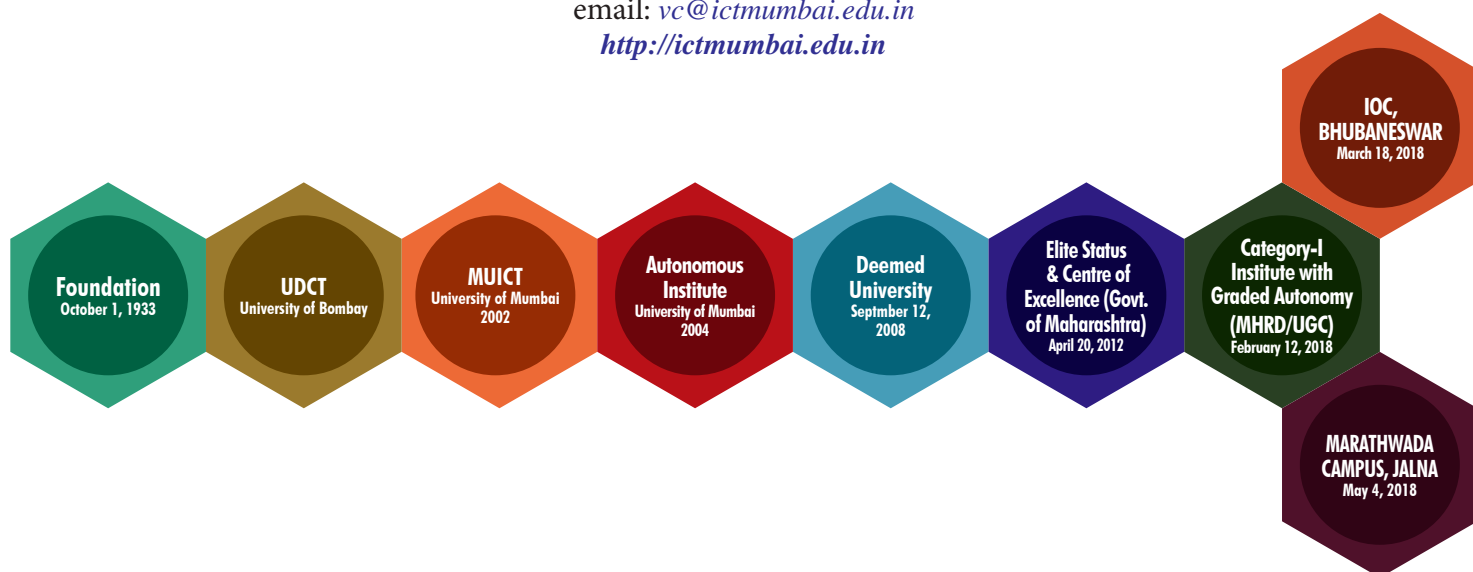
Nathalal Parekh Marg, Matunga (EAST)

Mumbai - 400 019, India

Telephone: (91-22) 3361 1111/ 2222; Fax: (91-22) 3361 1020

email: vc@ictmumbai.edu.in

<http://ictmumbai.edu.in>



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INSTITUTE AUTHORITIES



PADMAVIBHUSHAN DR. R. A. MASHELKAR

FRS, FNA, FTWAS, FASC, FNAE, FNASC, FICHEME (UK), FIICHE, FMASC, FIICHE

Chancellor

Former Director General CSIR and Secretary, DSIR, GOI CSIR Bhatnagar
Fellow and President, Global Research Alliance, Pune

E-mail: ram@mashelkar.com



PROFESSOR (DR.) ANIRUDDHA B. PANDIT

Vice Chancellor

J.C. Bose National Fellow (DST-GOI)

ICT, Matunga, Mumbai - 400 019.

Tel.: 022-33611001, 33611111/2222, Fax: 022-33611002

E-mail: vc@ictmumbai.edu.in/ab.pandit@ictmumbai.edu.in

Website: www.ictmumbai.edu.in



PROFESSOR U.S.

ANNAPURE

Director

ICT- Marathwada Campus, Jalna

E-mail: director@marj.

ictmumbai.edu.in/ us.annapure@ictmumbai.edu.in



PROFESSOR P.R. VAVIA

Director

ICT- Mumbai IndianOil Odisha
Campus, Bhubaneswar

Email : director@iocb.ictmumbai.edu.in
pr.vavia@ictmumbai.edu.in



DR. PARAG NEMADE

Deputy Director and Incharge IPC

ICT- Marathwada Campus, Jalna

Email : pr.nemade@ictmumbai.
edu.in



PROFESSOR R.R.

DESHMUKH

Registrar

ICT, Matunga,
Mumbai - 400 019

Tel : 022-33611016

FAX : 022-33611020

Email : registrar@ictmumbai.edu.in/
rr.deshmukh@ictmumbai.edu.in



DR. SANJAY MEHENDALE

Vice-President, Ion Exchange
(India) Ltd. Ph.D. 1986 - Textiles

President

UDCT Alumni Association

Tel.: 91-22-3361 1361

E-mail: sv.mehendale@ionexchange.co.in/
uaasecretariat@org.in

Website: www.udctalumni.org

BOARD OF GOVERNORS



Dr. R. A. Mashelkar

FRS, FNA, FTWAS, FASc, FNAE, FNASc, FChemE (UK), FIChE, FMASc, FIChE

Chancellor Institute of Chemical Technology, Mumbai

CSIR Bhatnagar Fellow and President Global Research Alliance

Former Director General CSIR and Secretary, DSIR, GOI

Padmavibhushan Awardee 2014



Professor (Dr.) Aniruddha B. Pandit

FTWAS, FNA, FASc, FNASc, FMASc, FIChE

Vice Chancellor

J.C. Bose National Fellow (DST-GOI)

ICT, Matunga, Mumbai - 400 019.



Professor Manoj Kumar Tiwari

FNAE, FNASc, FIIE, FIIE, and FIETI

Member

Head Academic Institute/
Organization of National Importance having
International Standing

Director

NITIE, Mumbai



Smt. Sandra Shroff

Chancellor's Nominee

Vice President

United Phosphorous Ltd.



Shri U. Shekhar

Member

Nominated by the Board,
Eminent Industrialist,

Chairman,
Galaxy Surfactants Ltd.



Member

Additional Chief Secretary

Higher & Technical Education Department,
Government of Maharashtra



Professor P. V. Devarajan FMAS

Member

Dean (RI)

Department of Pharmaceutical Science
and Technology,
Institute of Chemical Technology, Mumbai



Shri Nitin Deshmukh

Member

Distinguished Alumni,
CEO, Kotak Private Equity



Professor R.V. Adivarekar

Member

Dean, Human Resource Development

Tel.: 91-22-3361 1028/2811

dean.hrd@ictmumbai.edu.in



Shri J. R. Shah

Member

Distinguished Alumnus,

Director,

Jayvee Organics Polymers Pvt. Ltd.



Professor V.G. Gaikar

Member

Senior Most Professor

Department of Chemical Engineering,
Institute of Chemical Technology, Mumbai



Shri M. B. Parekh

Member

Distinguished Alumni,

Chairman and Managing Director,

Pidilite Industries Ltd.



Shri S.M. Vaidya

Invitee

Chairman,

IndianOil Corp Ltd. New Delhi



Dr. Abhay Jere

Member

Distinguished Alumni,

Chief Innovation officer, AICTE,

CEO, MHRD, New Delhi



Professor R. R. Deshmukh

Member Secretary,

Registrar

Institute of Chemical Technology, Mumbai

DEANS OF THE INSTITUTE



Professor (Dr.) Aniruddha B. Pandit

FTWAS, FNA, FASc, FNASc, FMASc, FIICHe

Vice Chancellor

J.C. Bose National Fellow (DST-GOI)

Tel.: 022-33611001,

vc@ictmumbai.edu.in

ab.pandit@ictmumbai.edu.in



Professor R. R. Deshmukh

Registrar

Tel.: 91-22-3361 1016/2658

registrar@ictmumbai.edu.in

rr.deshmukh@ictmumbai.edu.in



Professor A. V. Patwardhan

Dean, Academic Programmes,

Tel.: 91-22-3361 1026/2011

dean.ap@ictmumbai.edu.in

av.patwardhan@ictmumbai.edu.in



Professor Prashant S. Kharkar

Associate Dean,

Academic Programmes

and Coordinator, ICT-NICE

Tel : 91-22-3361 2225

adean.ap@ictmumbai.edu.in



Professor R.V. Adivarekar

Dean, Human Resource

Development

Tel.: 91-22-3361 1028/2811

dean.hrd@ictmumbai.edu.in



Professor P. V. Devarajan,

FMAS

Dean, Research and Innovation

Head, ICT-NICE

Tel.: 91-22-3361 2210/1030

dean.ri@ictmumbai.edu.in

pv.devarajan@ictmumbai.edu.in



Professor R.S.N. Sahai

Dean, Infrastructure and Campus

Development

Tel : 91-22-3361 2759

rsn.sahai@ictmumbai.edu.in



Professor V.N. Telvekar

Dean, Internal Quality Assurance

Tel.: 91-22-3361 1019/2219

vn.telvekar@ictmumbai.edu.in

dean.iqa@ictmumbai.edu.in



Professor S. T. Mhaske

Dean, Off Campuses

Tel.: 91-22-3361 2401/2412

st.mhaske@ictmumbai.edu.in



Dr. Ashwin Mohan

Associate Dean, Internal Quality

Assurance Cell (IQA)

Tel : 91-22-3361 2665

as.mohan@ictmumbai.edu.in

associatedean.iqa@ictmumbai.edu.in



Professor A.R. Athalye

Vice President-Tech. Asso. and

Dean-Student and Alumni Affairs

Tel : 91-22-3361 2816

ar.athalye@ictmumbai.edu.in



Dr. Parag Gogate

Controller of Examination

Tel : 91-22-3361 1027/2024

pr.gogate@ictmumbai.edu.in

coe@ictmumbai.edu.in



Dr. Anant Kapdi

Central Placement Coordinator

Tel.: 91-22-3361 2609

ar.kapdi@ictmumbai.edu.in

ictplacement@ictmumbai.edu.in



Dr. P. D. Vaidya

Nodal Officer

Tel.: 91-22-3361 2014

pd.vaidya@ictmumbai.edu.in

nodal.officer@ictmumbai.edu.in



Dr. D. V. Pinjari

Associate Dean - Human Resource

Development

Tel: +912233612121

adean.hr@ictmumbai.edu.in

HEADS OF DEPARTMENT AND COORDINATORS OF COURSES AND CENTRES



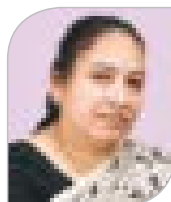
Professor Virendra Rathod

Head, Department of
Chemical Engineering
Coordinator, UGC-NRC-CE
Tel: 91-22-3361 2001/2020
vk.rathod@ictmumbai.edu.in



Professor N. Sekar

Head, Department of
Speciality Chemicals Technology
Tel: 91-22-3361 2701/2707
n.sekar@ictmumbai.edu.in



Professor Rekha Singhal

Head, Department of
Food Engineering and Technology
Tel.: 91-2-3361 2501/2512
rs.singhal@ictmumbai.edu.in



Professor S. T. Mhaske

Head, Department of Polymer
and Surface Engineering
Tel.: 91-22-3361 2401/2412
st.mhaske@ictmumbai.edu.in



Professor R.D. Kale

Head, Department of Fibres and
Textile Processing Technology
Tel.: 91-22-3361 2801 /2813
rd.kale@ictmumbai.edu.in



Dr. Mohan Narayan

Head, Department of Physics
Tel.: 91-22-3361 2651/2662
m.narayan@ictmumbai.edu.in



Professor S.V. Joshi

Head, Department of
Pharmaceutical
Sciences and Technology
Tel: 91-22-3361 2201/2224
sv.joshi@ictmumbai.edu.in



Dr. Amit Pratap

Head, Department of
Oils, Oleochemicals &
Surfactant Technology
Coordinator of Centre of Excellence
of Process Intensification
Coordinator, PGD CTM
Tel.: 91-22-3361 2551
ap.pratap@ictmumbai.edu.in



Professor B.M. Bhanage

Head, Department of Chemistry
Tel: 91-22-3361 2603
bm.bhanage@ictmumbai.edu.in



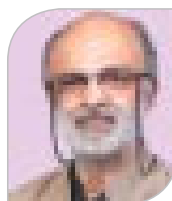
Professor V.R. Gaval

Head, Department of
General Engineering
Tel.: 91-22-3361 2751/2756
vr.gaval@ictmumbai.edu.in



Dr. Ajit Kumar

Head, Department of Mathematics
Tel.: 91-22-3361 2676
a.kumar@ictmumbai.edu.in



Professor A. B. Pandit

Co-coordinator, Homi Sethna
ICT-DAE Centre
for Chemical Engineering
Education and Research
Tel.: 91-22-3361 2012 / 1001
ab.pandit@ictmumbai.edu.in



Professor Samir R. Kulkarni

Head, Department of Biological
Sciences and Biotechnology, and Co-
ordinator, DBT ICT Center
Tel. :91-22-33612320
sr.kulkarni@ictmumbai.edu.in



Smt. Madhavi M. Wadkar

Senior Librarian
Professor M. M. Sharma Library
Tel.: 91-22-3361 1126
mm.wadkar@ictmumbai.edu.in
library@ictmumbai.edu.in



Dr. (Mrs.) K.V. Marathe

Coordinator, Certificate course on
Chemical safety and
Risk Management,
Tel.: 91-22-3361 2016
kv.marathe@ictmumbai.edu.in

HEADS OF DEPARTMENT AND COORDINATORS OF COURSES AND CENTRES



Dr. Jyoti Gokhale

Coordinator, Food Biotechnology
Tel.: 91-22-3361 2510
js.gokhale@ictmumbai.edu.in



Dr. Ratnesh Jain

Certificate Course on Practice of
Chemical Technology, and
Coordinator, Bioprocess
Technology
Tel : 91-22-3361 2024
rd.jain@ictmumbai.edu.in



Professor G. S. Shankarling

Coordinato, ICT-NMR and
Coordinator, Perfumery
and Flavour Technology
Tel: 91-22-3361 2708
gs.shankarling@ictmumbai.edu.in



Dr. Prajakta Dandekar Jain

Coordinator, M.Tech.
Pharmaceutical Biotechnology
Tel.: 91-22-3361 2210 /1029
pd.jain@ictmumbai.edu.in

ICT, Mumbai



Main Office and the its Entrance,
ICT Mumbai Marathwada (MARJ) Campus, Jalna



Research Laboratory, IOCB Campus

OFFICERS OF THE INSTITUTE



Ms. S. A. Bhavsar

P.A. to Vice Chancellor

Tel.: 91-22-3361 1001
vc@ictmumbai.edu.in



Shri A. S. Sathye

Assistant Registrar (Acad)

Tel : 91-22-3361 1201
ar.acad@staff.ictmumbai.edu.in



Shri. S. B. Kadam

Assistant Registrar
(Finance and Accounts)

I/c Assistant Registrar
(Administration)

Tel.: 91-22-3361 1256
ar.fin@staff.ictmumbai.edu.in
ar.adm@staff.ictmumbai.edu.in



Mrs. Madhuri Shete

System Engineer

Tel : 91-22-3361 1103
mm.dicholkar@ictmumbai.edu.in



Dr. S. M. Mane

Stores Superintendent

Tel.: 91-22-3361 1301
stores@staff.ictmumbai.edu.in



Ms. Malini Shah

Counselor

Tel : 9870496238
Visiting Hour:
Mon, Wed, Thu, Sat
Time: 12.30 pm to 7.30 pm
malinishah702@gmail.com

WARDENS AT ICT HOSTELS



Hostel 1

Dr. C. S. Mathpati

Tel.: 91-22-3361 2017



Hostel 2

Mrs. Madhavi Wadkar

Tel.: 91-22-3361 1126



Hostel 3

Dr. Smt. J. S. Waghmare

Tel.: 91-22-3361 2559



Hostel 5 and Head Warden

Professor D.D. Sarode

Tel.: 91-22-3361 2760



UAA BOARD OF GOVERNORS

OFFICE BEARERS



Dr. Sanjay Mehendale

President

Email: sv.mehendale@ionexchange.co.in
Vice-President, Ion Exchange (India) Ltd.
Ph.D. 1986 - Textiles



Shri K. Sahasranaman

Sr. Vice President

Email: k.sahasranaman@gmail.com
B.Chem. Eng. 1977



Prof. Parag Gogate

Vice President

Email: pr.gogate@ictmumbai.edu.in
Professor of Chemical Engineering, ICT
B.Chem. Eng. 1996,
M.Chem. Eng. 1998,
Ph.D. (Tech.) 2002



Shri Nilesh Lele

Hon. Secretary

Email: nileshlele@gmail.com
Founder, Exelon Foodbio Advisors Pvt. Ltd.
B.Chem. Eng. 2000



Dr. Tipanna Mariyappa

Hon. Treasurer

Email: tipanna_m@yahoo.com
Proprietor, Chemtip Laboratories
B.Sc. (Tech.) 1993, M.Sc. (Tech.) 1997, Ph.D. (Tech.) 2000



Shri Dilip G. Udas

Imm. Past President

Email: udasdg@gmail.com
Director, Ultraconserve Pvt. Ltd. B.Sc. (Tech.) 1972 - Department of Speciality Chemicals Technology
* UAA-ICT Distinguished Alumnus

BOARD OF GOVERNORS - MEMBERS



Shri Vijay Sane

Email: vsane@rediffmail.com
Visiting Faculty at ICT.
B.Sc. (Tech.) 1979 - Department of Speciality Chemicals Technology



Mrs. Maharukh Rustomjee

Email: maharukhrustomjee@gmail.com
Founder Director, Rubicon Research Pvt.Ltd. B.Pharm 1982, M. Pharm 1984
* UAA-ICT Distinguished Alumnus



Prof. Shreerang V. Joshi

Email: shreerangvjoshi@rediffmail.com
Professor of Pharmaceutical Chemistry, ICT.
B.Sc. (Tech) Technology of Pharmaceuticals & Fine Chemicals, 1984



Shri. Rajeev Panse

Email: rajeevpanse@gmail.com
CEO, Advantage HR
B.Pharm 1984

**Dr. Shalini Deb**

E-mail: debshalini@gmail.com
 Syngene International Limited,
 Bangalore
 Research Scientist, DBT-ICT
 Centre for Energy Biosciences
 B.Sc in Biotechnology (2005),
 M.Sc in Biotechnology (2007),
 Ph.D. Biotechnology (2017)

**Prof. Vikas Telvekar**

Email: vn.telvekar@ictmumbai.edu.in
 Associate Professor of
 Pharmaceutical Dept, ICT.
 B.Sc.Tech. Pharma. 1996
 M.Sc.Tech. Pharma. 1998
 Ph.D.Tech. 2003

**Prof. Ashok Athalye**

Email: ar.athalye@ictmumbai.edu.in
 VP-TA Ex-Officio Member
 BSc (Tech) 1988, MSc (Tech) 1990,
 PhD Tech (1994)
 Textile Chemistry, UDCT

**Dr. Hitesh Pawar**

Email: hs.pawar@ictmumbai.edu.in
 Professor DBT-ICT Centre for
 Energy Biosciences, ICT,
 Ph.D. 2015

**Prof. Dr. Virendra Rathod**

Email: vk.rathod@ictmumbai.edu.in
 Professor of Chemical Engineering,
 ICT, Ph.D. (Tech.) 2007

**Dr. Ram Sabnis**

Email: ramsabnis@yahoo.com
 Patent Agent, Smith,
 Gambrell & Russell LLP,
 Atlanta, USA Ph.D. 1990,
 Department of Speciality
 Chemicals Technology

**Mr. Dinesh Chopra**

Email: dk2001@hotmail.com
 Advisor for Transformational
 Business Growth Strategies,
 B.Sc Tech. 1984



TECHNOLOGICAL ASSOCIATION

Technological Association or TA as it is well known among the students is one of the oldest student run body for the welfare of Institute of Chemical Technology, dating its inception in 1944.

There are 8 Clubs, 1 Intra-College Festival and 3 Inter-College Festivals in the Technological Association.

Since Years TA's motto has always been Student Welfare through activities ensuring overall personality development. TA ensures that every student at the Institute learns in a healthy environment giving them opportunity to showcase their talents.

The 8 Clubs of the TA are Art Club, Music Club, Manthan Club, Literary Club, Entrepreneurship Cell, Bombay Technologist, Sports Club, TED's ICTMumbai.

The Intra-College Festival is called the FUNTECH. The 3 Inter-College Festivals are Vortex - The Chemfest (Technical Festival), Manzar (Cultural Festival), Sportsaga (Sports Festival).

The tentative dates for the Inter-College festivals are as follows:
 Manzar 2019: Jan 31 to Feb 03 2019
 Sportsaga 2019: Mar 7 to Mar 17 2019
 Vortex 2019: Oct 17 to Oct 20 2019



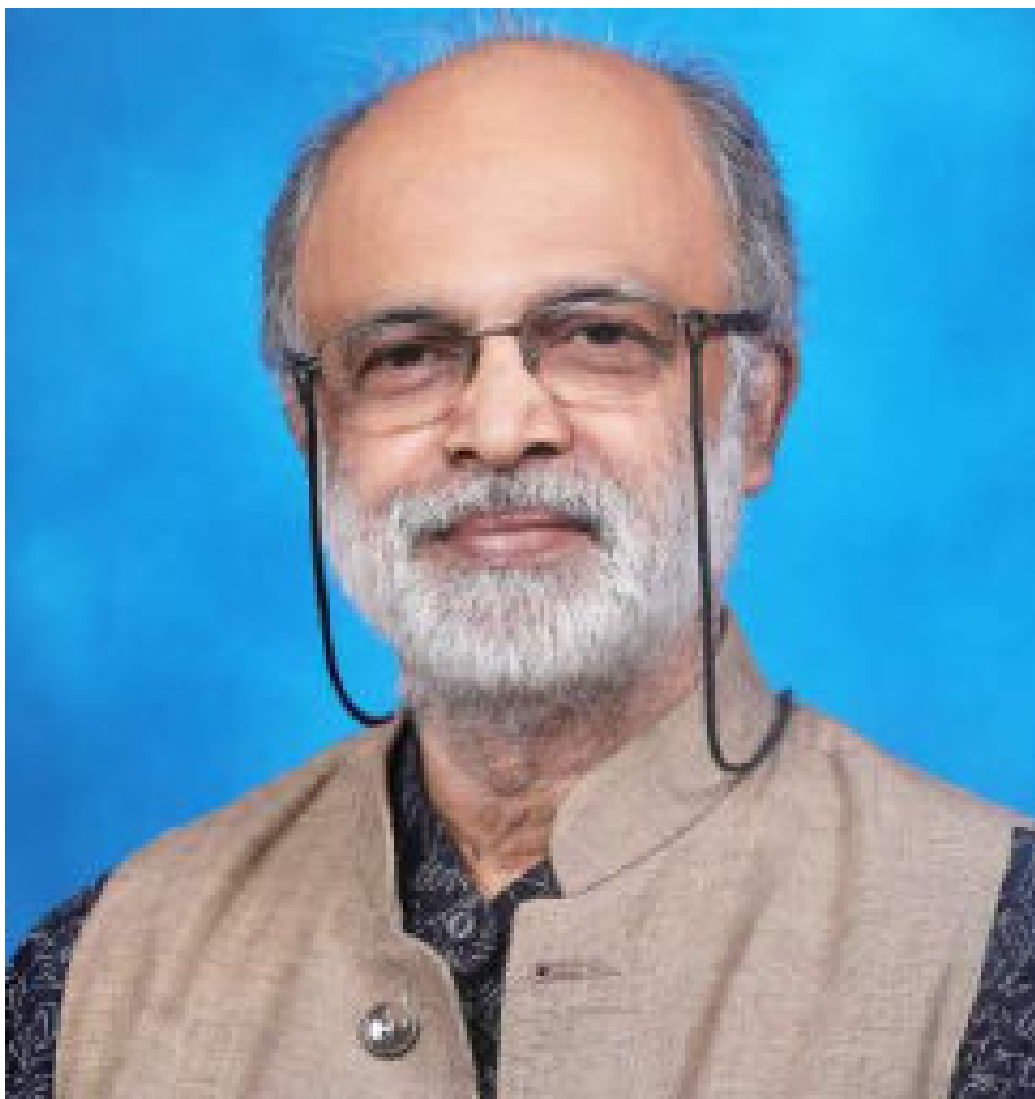
INSTITUTE OF CHEMICAL TECHNOLOGY
Mumbai







INSTITUTE AUTHORITIES AND PROFILES OF DEPARTMENTS



Prof. Aniruddha Bhalchandra Pandit

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

F.T.W.A.S., F.N.A., F.A.Sc., F.N.A.Sc., F.N.A.E., F.M.A.Sc.,

Vice-Chancellor

Jagdish Chandra Bose National Fellow (DST-GOI)

U.G.C. Research Scientist 'C'

PREAMBLE

The Institute of Chemical Technology (ICT), Mumbai is a unique Institute which was established on 1st October 1933 as a University Department of the Bombay University (UDCT), completing 89 years of glorious past. ICT has created its own brand over the years which has been recognized by several prestigious awards and accolades to the faculty, students and alumni individually and also as an institute. Under the World Bank's Technical Education Quality Improvement Program (TEQIP), ICT was granted full autonomous status in 2004 and declared as Deemed-to-be University on September 12, 2008 by the MHRD under Section 3 of the UGC Act of 1956. It was bestowed an Elite Status and Centre of Excellence on par with IITs, IISc and IISERs in the State Assembly on April 20, 2012 by the Government of Maharashtra based on its stellar performance, on par with the institutes of national importance. the genesis of ICT Mumbai is truly educative and its achievements are inspirational. It has now three campuses: main (Mumbai), and two off-

campuses, Bhubaneswar, Odisha and Marathwada, Jalna. the later were opened during 2018-19 with innovative Integrated Master's degree and research programmes. We are just about coming out of a huge Global crisis due to the pandemic and as a leading Technological and Engineering Institute, ICT has to play an exemplary and a leading role as it has done in the past in the time of every national and Industrial demand. This time the situation is different though, as in addition to the technological contribution, we have to address the clarion call of Atmanirbhar Bharat, as a priority.

ICT, Mumbai is housed on 16 acres of land in Mumbai and is running 9 UG (Chemical Engineering; 7 branches of Chemical Technology; 1 Pharmacy), 18 PG (9 inter-disciplinary) and 29 Ph D programmes (11 interdisciplinary), 1 PG Diploma in Chemical Technology Management for doctoral students and 1 PG Certificate Course in Chemical Safety and Risk Management for all UG and PG students. ICT is governed according to special Statutes which go beyond Deemed University concept as approved by the Government of Maharashtra. In a historic decision on February 12, 2018, the University Grants Commission declared Category I Deemed to be University status to ICT which has maintained high academic standards (NAAC grade of A++ CGPA 3.77 out of 4). the Minister of Human Resource Development, the Central Government is striving hard to introduce a liberalized and social relevant academic regime in the education sector with emphasis on linking autonomy with quality and societal relevance. the recently declared National Education Policy (NEP 2020) coupled with Science, Technology and Innovation Policy (STIP) has charted out a clear path of implementation of both the programs with emphasis on and innovation and in the Education of Chemical Sciences. ICT has to play a leading role by setting the trend as a torch bearer. Coming out of this unprecedented COVID 19 crisis, this academic freedom needs to be used for the betterment of the society and associated education using innovative ALL ENCOMPASSING teaching and knowledge dissemination methods, along with the creation of socially relevant knowledge having wider acceptance and ease of implementation.

TWO OFF-CAMPUSES

March 18, 2018 marked a unique milestone in the chequered history of ICT which crossed for the first time the confines the State of Maharashtra and entered the beautiful and benevolent State of Odisha. ICT is indeed fortunate that the launching of the Institute of Chemical Technology, Mumbai Indian Oil Odisha Campus (ICT Mumbai-IOC), Bhubaneswar was done at the auspicious hands of Hon'ble Shri Ram Nath Kovind, THEN the President of India in the august presence of Hon'ble Shri S.C. Jamir, Governor of Odisha; Hon'ble Shri Dharmendra Pradhan, then Union Minister for Petroleum and Natural Gas, Skill Development and Entrepreneurship, now THE Minister of Education and a galaxy of bureaucrats, distinguished academics and citizens, stalwarts from industry and well-wishers from across the country. This new campus currently being operated using IIT-Kharagpur extension cmpus has already bagged Best Educational Institute Awards for the past two years.

Now, the Government of Odisha has sanctioned a land over 73 acres for the ICT-Mumbai Odisha campus which has now been taken in possession with the marking of the boundary. All modern research facilities are created over there through the support of IOC and this activity IS pursued and followed by top echelons of IOCL and the Honourable Minister Shree Pradhan personally. the construction activity for the new campus has been entrusted to NBCC, with a promise of its completion by 2024.

Furthermore, on May 4, 2018 Foundation Stone of the Marathwada campus was laid on 203 acres land at Siraswadi, Jalna at the hands of then Chief Minister of Govt. of Maharashtra, Shri Devendra Fadnavis, Shri Raosaheb Danve, M.P. and President, Maharashtra BJP, Shri Babanrao Lonikar, Gaurdian Minister and Shri Arjun Khotkar, Minister of State among many others. the State cabinet had sanctioned a budget of Rs 397.00 crore in its meeting held on 24th April 2018 and

the utilization and infrastructure creation at both the campuses has started in the right earnest. the places for the campus development have been finalised and have started with the engagement of all the stake holders through discussion. the final plan of Phase I with a financial outlay of nearly 63 Crores has been approved by the Government of Maharashtra and work is expected to begin soon for the construction of the new campus as per AICTE, recommended norms.

Many of the student from the first batch graduating in July 2023 have already received job offers and has secured admission in foreign universities for their future studies.

All the three campuses and the programmes have been approved by the AICTE and the UGC, Government of India.

AWARDS TO ICT IN ACADEMIC YEAR 2022-2023

ICT has been receiving awards, recognising its technological and societal contributions every year and in the academic year 2022-2023, the notable awards received are as stated below:

1. The NIRF ranking 2022 was announced on 15th July, 2022 and ICT was ranked – 14th at University level, 28th Overall, 25th as Research Institute, 18th in Engineering and 7th in Pharmacy.
2. Green University Auditing and Accreditation is a Set of Global Indicators of Sustainability for assessing Governance, Academics, Builtup Spaces, Landscaping, Water Management, Energy Sourcing & Saving, Air Quality Level, Health, Hygiene & Resource Utilization. Green University Audit of Institute of Chemical Technology was conducted by the “Green Mentors” Agency and in August, 2022, ICT has achieved 446 Points out of 500 Points & earned Platinum Ranking in the Platinum Green University Accreditation Standards for the Period of Academic Year 2021-2024. Similarly ICT received the certificates for the Energy Audit and Environment Audit for 2021-2024.
3. ICC-K.V. Mariwala Award for Effective Chemical Industry-Academia Partnership for the year 2021 has been presented to ICT in September, 2022.
4. Institute of Chemical Technology-Indian Oil Odisha Campus has been conferred with the Outstanding Institute Award on 27 April 2022 by the Odisha Education Leadership Awards 2022 Presented by World Education Congress.
5. On 27th April, 2023, ICTM-IOCB was awarded as Best Academic Institutions by Odisha Leadership Awards 2023.
6. Vice Chancellor, Prof. A. B. Pandit has been bestowed upon prestigious “Fellow of United States National Academy of Engineering (US-NAE)” for his contribution to Cavitation Reactors from concept to commercialization, and engineering solutions to improve the lives of under-served people in February, 2023.
7. Prof. A. B. Pandit has been nominated as a member of the CSIR Society for the period of three years vide CSIR Circular No. D.O. No. 18-1(2)/2023-PD/76 dated 23rd March, 2023. Hon’ble Prime Minister of India is the President (ex-officio) of CSIR Society.
8. In July, 2022, Padmabhushan Professor J.B. Joshi has published more than 100 research papers in the premium journal, Chemical Engineering Science. This is a very unique distinction and Honour received by Professor J.B. Joshi. He is only a second author in the history of the journal to have a century of publications to his credit. On this occasion, a virtual special issue commemorating & celebrating this achievement titled “Century in CES” will be published by the journal Chemical Engineering Science to coincide with the upcoming GLS conference in Canada.
9. All India MSME association has been elected for the Honorary Membership of the association as “Successful Educationalist/Academician” on Professor G.D. Yadav in September, 2022.

10. On 24th February, 2023, Professor G.D. Yadav received Life Time Achievement Award of the Indian Drug Manufacturers Association in Mumbai.
11. Professor Uday S. Annapure, Director, ICT-MAJ has been conferred with Shri Somalal Vyas - SEA Innovation Award 2022 by the Solvent Extractors' Association of India in collaboration with FoodTech Pathshala. This Award is for his successful innovative approach to "Designing of the process for the intensified synthesis of triglyceride of octanoic acid with an application of sonication and evaluation of frying characteristics of octanoic acid" in September, 2022.
12. Professor Vandana Patravale crossed 10,000+ citations as per google scholar record in September, 2022.
13. The Council of the Indian Chemical Society has nominated Prof. Vandana Patravale for Professor R S Varma Memorial Award, 2022 in recognition of her scholastic contribution to the field of chemical sciences. the Award will be formally given at the 59th Annual Convention of Chemists of the Indian Chemical Society to be held during December 16-18, 2022 at the Department of Chemistry & Chemical Biology, Indian Institute of Technology (ISM), Dhanbad, Jharkhand.
14. Professor Parag Gogate, Department of Chemical Engineering has been elected as a Member of Council of the Indian Institute of Chemical Engineers (IChE) 2022 in September, 2022.
15. Professor Parag Gogate was honoured with 'Malaviya Memorial (Senior Faculty) Award' for the year 2021 by the Biotech Research Society (BRS) on 7th December, 2022.
16. Professor P.D. Vaidya, Department of Chemical Engineering has been selected for 'Professor M.M. Sharma Science and Technology Award' by the Marathi Vidyan Parishad on October 20, 2022.
17. Dr. Prajakta Dandekar-Jain from Department of Pharmaceutical Sciences and Technology received "Uncha Maza Zoka" award from Z Marathi for her research in pharmaceutical biotechnology in August, 2022.
18. Dr. Prajakta Dandekar Jain has been bestowed by the Swami Vivekanand Yuva Puraskar award for 2022 by RSS Jankalyan Samiti Maharashtra Prant on 18th January, 2023.
19. Dr. Nitu Jha has won the "Climate Hackathon Challenge Award" in the "What industries should do to mitigate climate change?" Energy Swaraj Foundation has selected her for this Award for her unique ideas on climate change action and environmental correction in November, 2022.
20. Dr. Nitu Jha has been selected for the membership in the Indian National Young Academy of Sciences (INIAS) in February 2023 for the period of 5 years.
21. Dr. Aarti More has been bestowed by the Technical Paper award under the institute category at the 30th and 31st Indian paint conference organized by Indian Paint Association on 20th January, 2023.
22. ICT student team led by Suraj Kapale & Harshal Patil (Zero Spillage Milking Can) & Ameya (Preservative Free Juices) for showcasing an innovative concept & winning a Prize of Rs.1 Lakh each in the specified category of Smart India Hackathon 2022 organised by AICTE at IIT Roorkee in August, 2022.
23. ICT's Startup, S4S Technologies Pvt. Ltd., led by our Alumnus Dr. Tushar Gaware was highly acclaimed by the Hon'ble Prime Minister Shri Narendra Modi during Kisan Sammelan 2022 held on 17th October, 2022. Kisan Sammelan 2022 had 300 startups and the PMO office short-listed 5 of them for one-to-one interaction of PM with the proprietor. Dr. Gaware explained about the unique business model, revenue generation, and empowerment of women through micro entrepreneurship to Hon'ble Prime Minister.

ICT CONNECTIVITY WITH INDUSTRY

The role of industry in promoting education and research at ICT has its roots in its foundation. Leading industrial magnates from textile and chemicals industry and philanthropists donated funds to establish many faculty positions (amounting to 19 such endowments) and laboratories right from its humble beginning and research started from the inception keeping faculty engaged in development of industry. Faculty used to offer free consultation to industry until 1955 for its growth and many new industries (nearly 600 first generation entrepreneurs) were started by ICT graduates, contributing to the industrial growth of the nation. This interaction and collaboration is even more today.

With the help of almost 100 research projects currently functioned at ICT from the Government and industry, new laboratories, creation of additional infrastructure, ICT is striving hard to meet the aspirations of all the stake holders.

ICT has been closely working with industry and the Government ever since its inception in the interest of the nation. Currently several active MOUs with many national and international renowned universities in USA, Canada, UK, Germany, France, Australia, Finland, Spain, and with multinationals such as Mitsubishi, Huntsman, Unilever, Biorad, Coka Cola, Pepsico, Reliance, etc. are in place (www.ictmumbai.edu.in). Bestowed with numerous awards and accolades, ICT has created a niche for translational research and technology development and transfer and is often cited as an role moel for Academia and Industrial connect.

ICT : CULTURE, CREATIVITY AND CONNECTIVITY

- Three campuses from 2018-19
- 3 Padma Vibhushan, 8 Padma Bhushan, 8 Padma Shri awardees; 2 Fellows of Royal Society (among 5 engineers from India); Several Fellowships- FNA, FNASc, FNAE, FRSC, FTWAS, MUSAE, 6 faculty and Alumni as US National Academy of Engineering
- Over 500 first generation entrepreneurs, some owners of Fortune 500 Companies;
- 640 ongoing Ph D Students
- Masters (331 First Year +225 Second Year)
- 360 UG Scholarship
- 41 Ph Ds during Eleventh interim Convocation (virtual) on August 24, 2021, 35 Ph Ds during Eleventh Convocation (virtual) on March 24, 2022, 27 Ph Ds during Twelfth interim Convocation on August 10, 2022 and 33 Ph Ds during Twelfth Convocation on March 4, 2023
- 100+ UG Summer Researcher Fellows
- Highest citation per faculty
- Annual citations more than 10,000
- SCOPUS Awards: 4 faculty in top 10 Chem Engg and 2 in top Chemistry faculty in India: 20th March 2018
- 7 Fellows of INSA, 4 Fellows of TWAS, 3 JC Bose Fellows, 6 Fellows of US National Academy of Engineering
- 23 Endowment Chairs; 15 UGCFR, 8 INSPIRE, 2 Ramanujam, 2 Ramalingaswami fellows
- 49 Endowment Visiting Fellowships; 11 endowments for library
- India's first five Ph Ds in Engineering and from ICT in 1941-42
- 406 Patents filed in last 10 years and more than 400 international publications /year, highest Publications/faculty
- 104 Projects including those from multinational industries
- Many technologies transferred to industry and start-up incubated in ICT

- Highest number of Prime Minister's Ph.D. Fellowships

ICT is not just a Chemical Technology Institute but covers all branches of Chemical Sciences, Engineering and Technology; Product Engineering; Biological Sciences, Engineering and Technology; Materials Sciences and Engineering; and Energy Science and Engineering. Whatever is designated by Nano, Bio and Green Technologies are researched in all departments of ICT.

A recent Sci-Val data analysis (Elsevier) shows the ICT, despite its being a State funded institute, is highly productive and recognised institute (Feb. 2019) and is among top 4 among all disciplines in the country and number 1 in Chemical Engineering.

a) Benchmarking in All Disciplines among Leading Indian Institutes and Universities

Name	Scholarly Output	Field-Weighted Citation Impact	Outputs in Top 35 citation percentile (%)	Collaboration (%)
Indian Institute of Science Bangalore	38371	1.87	18.5	36.1
Indian Institute of Technology, Bombay	32657	1.7	17	35.5
Indian Institute of Technology, Delhi	19297	1.12	13.3	30.6
Indian Institute of Technology, Kanpur	14163	1.05	13.2	25.2
Indian Institute of Technology, Kharagpur	12111	1.06	13.5	19.7
Indian Institute of Technology, Madras	10640	1.02	11.4	28
Institute of Chemical Technology	5185	1.07	18	35.7
University of Pune	6113	0.99	10.8	25.7

b) Bench-marking in Chemical Engineering Discipline

Name	Scholarly Output	Field-Weighted Citation Impact	Outputs in Top 35 citation percentile (%)	Collaboration (%)
Indian Institute of Science Bangalore	1831	1.4	24.8	31.1
Institute of Chemical Technology	1738	1.38	28.2	25.3
Indian Institute of Technology, Kharagpur	1011	1.17	20.5	17.1
Indian Institute of Technology, Kanpur	1437	1.75	29.8	31
Indian Institute of Technology, Bombay	1361	1.05	18.3	32
Indian Institute of Technology, Delhi	1947	1.08	18.2	30.5
Indian Institute of Technology, Madras	1000	0.97	25.1	18.4
University of Pune	344	0.75	18.6	17.8

WHY ICT IS IN ODISHA?

The economy of Odisha is one of the fastest growing economies amongst various States in India. According to recent economic survey, Odisha's gross state domestic product (GSDP) is expected to grow at around 8.5% during current fiscal year. Education is the key enabler of economy of any State; in particular, higher technical education along with related research and innovation. In order to develop any State as preferred destination for industrial services, R&D, it is necessary to invest in training high-quality manpower and develop indigenous technology. This shall enable the State to seize the emerging opportunity and ensure a rate of satisfactory growth.

The primary industries in Odisha are manufacturing; mining & quarrying; electricity, gas and water supply & construction along with considerably less explored Agri-processing industry. The industrial sector's contribution to the state's GSDP by almost 35%. Most of Odisha's industries are mineral-based. Odisha has 25% of India's iron reserves. It has 10% of India's production capacity in steel. Odisha is the top aluminium producing State in India. Two of the largest aluminium plants in India are located in the state. Odisha is the first State in India to reform its power sector and become surplus power generating state.

Similar to Maharashtra in the past, recent years have witnessed large projects in Odisha like Indian Oil's 11th Refinery at Paradip, envisioned as the Energy Gateway to Eastern India, the 15 MMTPA Refinery has been set up at an estimated cost of Rs. 34,555 crore. Other mega-projects include large Coal Gasification Plant at Angul, World's Largest Phosphatic Fertilisers Plant at Paradip, Vegetable Oil Plant at Paradip to name a few. Govt. of India's PSUs, RCF and GAIL are embarking a large scale Fertiliser Plant at Talcher using gasification of coal. Based on Petroleum Refinery at Paradip, Govt. of India has also approved setting up a Petroleum, Chemical, Petrochemical Investment Region (PCPIR) for which Govt. of Odisha has earmarked 250 sq. km of

land. Indeed all these sectors are linked to ICT's educational and teaching/training portfolio and strength. Therefore, it was felt by ICT and endorsed by Hon'ble Minister the need of a World Class Centre of Excellence in Chemical Engineering and Technology in Odisha to catalyse structured and focused growth of petro-chemical, chemical, polymer, textiles and fibres, herbal and pharmaceuticals, pesticide, Speciality Chemical and fine chemicals, perfumers and flavours, rubber chemicals industry in Odisha. All of these For SEZ, PCPIR and Innovation hubs in Pharmaceuticals, Govt. of Odisha needs extensive and innovation input from Institute like the ICT, Mumbai. the Govt. of Odisha has been kind enough to allot over 73 acres of land to start our own campus and the plan and the grand vision has already been discussed at the highest level with a proactive participation of Hon. Minister Shree Dharmendra Pradhan and the Chief Minister Hon, Shree Naveen Patnaik.

INNOVATIVE PROGRAMMES AT ICTM-IOC BHUBANESWAR AND COLLABORATION WITH IIT-KHARAGPUR

As a consequence to the MOU between IOC and ICT on 16th November 2017, a proposal was submitted to the IOC Board giving the details of plan to promote several activities including setting up of campus at Bhubaneswar.

1. Integrated M. Tech. after 12th Standard (HSSC) of 5 years duration consisting of 15 trimesters with alternate term in industry, with major in Chemical Engineering and minor in 6 different disciplines. To ensure improved quality and industry relevance in curricula development for integrated M. Tech. (6 trimesters in industry and 9 in institute) in the field of Chemical Engineering as major branch with minor in Petrochemicals, Textiles, Polymers and Materials, Foods and Pharmaceuticals, and Energy Engineering. the last two trimesters will be for promotion of experimental and design project to promote entrepreneurship and start-up companies.
2. Executive M. Tech. (1 month in classroom followed by 2 months in parent company for 2 years) for industrial personnel
3. Ph. D. programmes in various disciplines.

All these programmes are new and were introduced in India for the first time and are currently in its third year of running. During the industrial internship the industry will be requested to offer stipend making the education affordable to one and all. IIT Kharagpur has signed an MOU with ICT for running the Executive M. Tech. (e-M.Tech.) together whereby the student will spend time on both campuses and also they will partner in creation of Centres of Excellence in Research and Innovation. Currently the IIT-KGP extension Centre in Bhubaneswar is currently made available for ICTM-IOCB programmes. the campus is equipped with modern and sophisticated instruments for carrying out high class research and innovation at these proposed Centres of Excellence to develop technology and to support Research & Development in industry and Skill Development in Chemical Engineering, Petrochemicals, Textiles, Polymers, Pharmaceuticals, Energy, etc. for the country and especially the region.

Executive M. Tech. Degree (e-M.Tech.) Programme: (Two Years with Alternate Short Terms in Class Room (1 month) and Parent Industry (2 months))

Executive MBA programmes are run for working professionals by various management institutes which typically cater to management of business, finance, and administration. This programme is different from them. the idea behind launching this programme is to train executives having industrial experience with managerial experience or responsibilities who could rise to the top of the organisation with training and research in technical field in an industrial set up. the programme is of two years duration.

The executive M Tech program (e-M.Tech.) is thus geared at giving training in research, innovation industrial practices, law, sustainability and management to experienced and senior

professionals who want to continue to work without losing continuity in the work place and also be a student pursuing a degree. There is a subtle difference in this program in comparison with other programs. These executives are many times involved in issues related to research, innovation, business expansion, environment, law and human resources, plant operation, design and development, marketing. In many PSUs, it is found that some are transferred to R and D or plant operations, without having any idea of the field resulting into considerable loss of time and resources.

The executive from all process industries are eligible for this programme. These industries range from all large scale industries to small scale industries – Refinery, Coal, Energy, Chemicals, Polymer, Materials, Steel, Pharmaceuticals, Food Processing, Biotechnology, Fertilizers and the like. They will study in the class room on the campus for a short term of 4 weeks during which s/he will undergo course work in different subjects as well as start literature search and plan for research. They will continue to carry out the research activities in the parent industry during alternate terms. During the parent industry term (PIT), s/he will continue the research work, home assignments, and other related course work. the student is continuously monitored and participates in classroom discussions, home assignments and research project. the e-M. Tech. student is also supposed to mentor one-two students from the Integrated Master's degree programmes during their industrial internship. the student will be co-guided by two faculty members, each from ICT and IIT.

ICT IN MARATHWADA

The economy of Maharashtra is one of the fastest growing economies amongst various States in India and the Marathwada region needs a lot of development from the view point of high quality education and industrial development. ICT was therefore asked by the State Government to set up an off campus site there which was enthusiastically supported by ICT Alumni from the region. According to current economic survey, gross state domestic product (GSDP) is expected to grow at around 8.5% during current fiscal year inspite of the current pandemic. Education is the key enabler of economy of any State; in particular, higher technical education along with related research and innovation. In order to develop any State as a preferred destination for industrial services, R&D, it is necessary to invest in training high-quality manpower and develop indigenous technology. This shall enable the State to seize the emerging opportunity and ensure a rate of satisfactory growth. Jalna region has been identified as region of Mosambi, under the programme of one product one region. MOU has been signed with Praj Industries Ltd., Pune to develop and process the products coming out of Mosuambi.

INNOVATIVE PROGRAMMES AT ICT MUMBAI MARATHWADA CAMPUS JALNA

The programmes similar to those conducted at ICT IOC Bhubaneshwar campus will be conducted. the executive M. Tech. programme will be taken up later.

1. Integrated M. Tech. after 12th Standard (HSSC) of 5 years duration consisting of 15 trimesters with alternate term in industry, with major in Chemical Engineering and minor in 6 different disciplines. To ensure improved quality and industry relevance in curricula development for integrated M. Tech. (6 trimesters in industry and 9 in institute) in the field of Chemical Engineering as major branch with minor, (i) Petrochemicals, (ii) Foods Engineering & Technology, (iii) Pharmaceuticals Engineering, (iv) Lipid Technology, (v) Polymers and Materials Engineering & Technology, (vi) Speciality Molecules Engineering, and (vii) Energy Engineering
2. Ph. D. programmes in various disciplines.

Centres of Excellence will be created in collaborative mode as stated above and the first one will

be COE in Cellular Agriculture with participation of industry and an MOU is signed with Good Food Institute in this regard and also Praj Industries Ltd., Pune.

Engineering Challenges and Social and Industrial Relevance of programmes

If you are admitted to this grand institution, which is strictly based on merit, it is assured that the education you receive will be of the highest order and, in the years to come, will place you at the cutting-edge of science and technology where you will develop products and services that greatly improve the lives of those around you. Do you wonder as to what relevance these programmes have vis-a-vis 'white collared' engineering programmes and are these programmes as rewarding? No virtual world can be created without materials produced by niche and eco-friendly sustainable technologies. We all live in the world of chemicals, molecules and products, which are transformed to give quality and longevity to life. In this context, let me direct your attention to the "Grand Challenges", as they are referred to by the US Academy of Engineering though very global in nature and these are:

- | | |
|--|------------------------------------|
| 1. Advancing health informatics | 2. Engineering better medicines |
| 3. Making solar energy more affordable | 4. Providing access to clean water |
| 5. Reverse-engineering the human brain | 6. Advancing personal learning |
| 7. Engineering tools for scientific discovery | 8. Managing the nitrogen cycle |
| 9. Providing clean energy from fusion | 10. Securing cyberspace |
| 11. Preventing nuclear terror | 12. Enhancing virtual reality |
| 13. Developing new methods of carbon sequestration | |
| 14. Restoring and improving urban infrastructure | |

All these challenges are uniquely physicochemical in nature and an education in chemical engineering or chemical technology particularly, empowers and enables you to tackle these. There is a confluence of chemical sciences and engineering with biological sciences and engineering. the technologies related to producing advanced materials, clean energy generation and storage, medicines, high-end drugs, nutraceuticals, food products, fertilizers, agrochemicals, polymers, surface coating materials, laser dyes, colorants, pigments, adhesives, textiles, fibres, oleochemicals, surfactants, lubricants, water treatment and purification, air pollution abatement, bio-processing, downstream processing and a myriad of related issues involve high degree of science and engineering. How are we going to feed billions of people, remain in harmony with nature, and develop sustainable processes and technology? What will be their energy and material needs? Life expectancy is getting extended. Addressing these challenges requires a multifaceted effort that traverses the fields of chemistry, engineering, biotechnology, information technology and nanotechnology, engineering mathematics, environmental engineering and the curriculum and courses offered in various programmes at the Institute have judiciously incorporated subjects from all these disciplines. Our programmes directly allow being on the forefront of these rewarding careers. the new challenge in the form of COVID 19 has prompted us to come up with new and an innovated thought processes which has to be evolved with new priorities to be listed out, coupled with the directives suggested by the National Educational Policy (NEP), 2020.

More importantly, you will be tutored and mentored by some of the nation's most eminent scientists and engineers who themselves are the vanguard of research in these fields, thereby ensuring that the knowledge passed onto you is pertinent, real experience and updated. Teaching without research is barren and our planners thus were visionary in bringing research component in our teaching to solve real problems. These researcher-cum-teachers are always on their toes

and work longer hours to be on the forefront. This invigorating atmosphere is witnessed in my institute. There is no nine-to-five culture; working extended hours is a habit here imbibed by students and teachers alike. Besides, a large number of members the ICT faculty acts as consultants/ advisors to industry with a strict condition that no institutional material facility is used for these industrial consultations. Research projects investigated in our labs are of both academic sanctity and industrial relevance. So the proverbial 'Practise what you preach' is indeed executed by the faculty members, which also gets translated in their teaching; many of them actually earn their salaries through the one-third share of the consultation fees paid to the institute.

The Institute's strong multi-disciplinary research programmes have helped create a unique learning environment that places great emphasis on synergizing knowledge from several sources to develop creative and effective solutions to many of the problems faced in industry and society. This eclectic combination of a rigorous and up-to-date curriculum, excellent laboratory and demonstration facilities, world-renowned faculty and a conducive learning environment brimming with the next generation of great minds that sets the Institute apart. the ICT is held in high esteem by other premier institutes, industry and government for many of its unique characteristics and achievements. All of them deem that ICT is different; distinctly and significantly different! Outsiders always wonder how a small university department, with poor funding has managed to excel and that too without any public glare or publicity? the magic mantra for our success is a concoction of dedicated faculty, meritorious students, admirable support staff, distinguished alumni, strong connect with industry, and assistance to all needy students, a grand alumni association and above all relevance of our programmes in national wealth creation.

CLOSING REMARKS

"I am sure by now you would have realized as to why the ICT is held in high esteem and its uniqueness and heritage among all institutes of higher learning in India and looked to lead the new initiatives proposed by NEP 2020. Great institutes are not built overnight. All the academics of ICT, who act as researcher, consultants to industry, member of several important professional bodies and government committees since its inception and based on the interactions with alumni, government officials, faculty from leading institutes in India and abroad, can reveal a trend- that is- quality of education, the brand name of institute and future prospects, far outweigh any other consideration on the minds of students and employers, foreign universities admitting ICT's UG students for PG courses alike, while choosing an institute, than the cost of education. Indian parents sacrifice many things to educate their off-springs in the best of schools and colleges; many times not fully knowing about the institute or the courses they offer.

If you get selected through our admission process, which is transparent and strictly on merit, with all government policies in place, my congratulations and best wishes to you. I hope I have convinced you, to join this great institute. the opportunities that lie in store for you during your years with us and once you graduate will truly be enormous, if you are sincere, committed and motivated to learn. If you are unlucky this time because you fall short of the cut-off criteria at undergraduate level, try again for master's and Ph.D. programmes after your graduation. Should your destination be some other place for whatever compelling reasons, let me wish you the very best for all your future endeavours.

The Rich. the Poor. the Marginal. the Privileged. the Underprivileged all have studied here. They made it BIG. Do not ask how to do. Do it. Underestimate NOT, who you could be. Think Big. Dream Big. Do not dismiss your dreams and see, how you can contribute to the nation and the society. To be without dreams is to be without hope; to be without hope is to be without purpose.

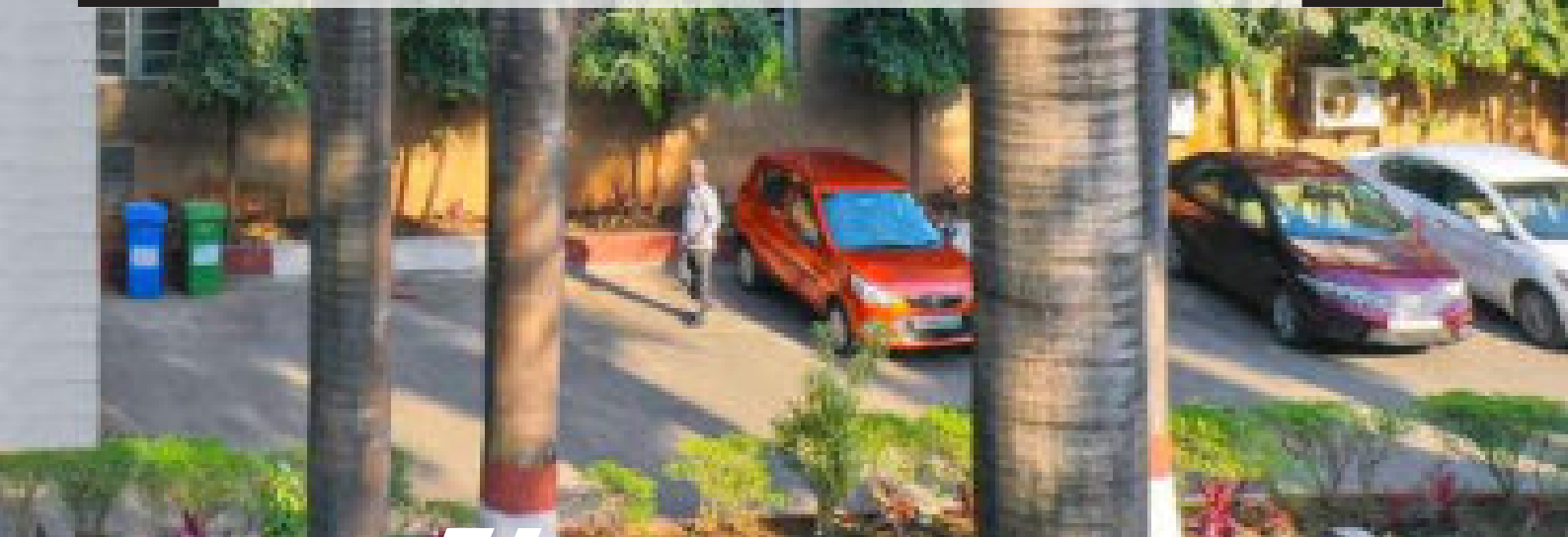
The very best to you; wherever you go.

Prof. Aniruddha B. Pandit





NATIONAL AND INTERNATIONAL CERTIFICATION





Ministry of Education
Government of India



Certificate

NATIONAL INSTITUTIONAL RANKING FRAMEWORK

INDIA RANKINGS 2022

Institute of Chemical Technology, Mumbai
Ranked 28 in Overall Category

CHAIRMAN, NIA

MEMBER SECRETARY, NIA



Ministry of Education
Government of India



Certificate

NATIONAL INSTITUTIONAL RANKING FRAMEWORK

INDIA RANKINGS 2022

Institute of Chemical Technology, Mumbai
Ranked 14 in University Category

CHAIRMAN, NIA

MEMBER SECRETARY, NIA



Ministry of Education
Government of India



Certificate

NATIONAL INSTITUTIONAL RANKING FRAMEWORK

INDIA RANKINGS 2022

Institute of Chemical Technology Mumbai
Ranked 7 in Pharmacy Category

CHAIRMAN, NIRF

MEMBER SECRETARY, NIRF



Ministry of Education
Government of India



Certificate

NATIONAL INSTITUTIONAL RANKING FRAMEWORK

INDIA RANKINGS 2022

Institute of Chemical Technology, Mumbai
Ranked 18 in Engineering Category

CHAIRMAN, NIRF

MEMBER SECRETARY, NIRF



Ministry of Education
Government of India



Certificate

NATIONAL INSTITUTIONAL RANKING FRAMEWORK

INDIA RANKINGS 2022

Institute of Chemical Technology, Mumbai
Ranked 25 in Research Category

CHAIRMAN, NEA

MEMBER SECRETARY, NEA



QS Asia University Rankings | 2022

qs.com

Institute of Chemical Technology (UDCT), Mumbai

183=

in QS Asia University Rankings 2022

November 2021

Ben Sowter, Senior Vice-President,
QS Quacquarelli Symonds





DISTINGUISHED FACULTY

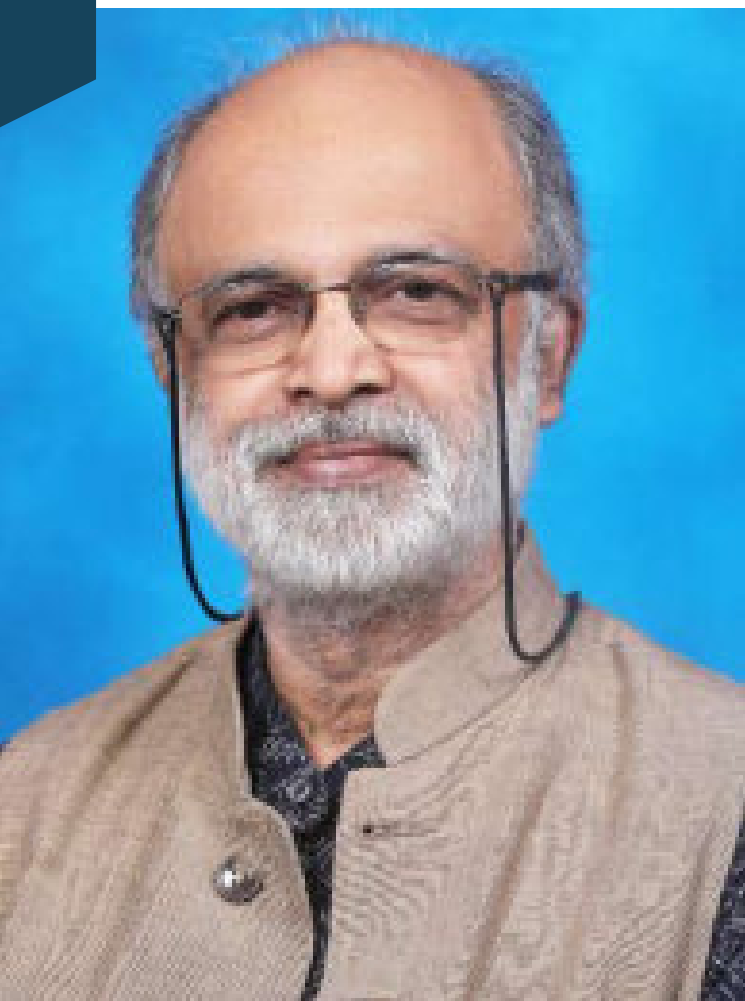
PADMA VIBHUSHAN
PROF. M. M. SHARMA
Emeritus Professor of Eminence
Former Director, UDCT (ICT)



PADMA BHUSHAN
PROF. J. B. JOSHI
Emeritus Professor of Eminence
Former Director, UICT (ICT)

PADMA SHREE
PROF. G. D. YADAV
Emeritus Professor of Eminence
Former Vice Chancellor, ICT





VICE CHANCELLOR

PROF. ANIRUDDHA 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)

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.

Aniruddha B. Pandit was born on 7th December 1957 in Mumbai, Maharashtra. He earned his B. Tech (Chem) degree from Indian Institute of Technology (IIT), Banaras Hindu University in 1980 and earned his Ph.D. (Tech) degree from University Department of Chemical Technology (now ICT), in 1984. From 1984 till 1990 he worked in the Department of Chemical Engineering, University of Cambridge, United Kingdom as a Research Assistant & then as a Research Associate with Prof. J. F. Davidson, working in the area of bubble break-up and design of multiphase reactors. He developed many novel designs of gas-liquid contactors and also developed new impeller designs.

ACADEMIC & RESEARCH CONTRIBUTIONS: After returning to India in 1990, he joined ICT as a UGC Research Scientist 'B' and was subsequently promoted to Scientist 'C' (Professor's Grade) in 1996. He was instrumental in starting a major activity & program in the area of Hydrodynamic Cavitation for intensification of physical and chemical processing applications. He has successfully exploited the cavitation phenomena for a variety of operations such as crystallization, emulsification, nano-particle synthesis and processes such as esterification, oxidation etc on industrial scale. He has been an active industrial consultant for many large size national and international companies.

A unique creative approach of using fundamental knowledge, coupled with simple, elegant experiments has resulted into novel cavitation reactors. Prof. Pandit has authored over 400 publications, 5 books and over 12 chapters (with over 21700

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

Recognized Research guide for

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

Guided students:

Ph.D. : 63, Masters : 102

Total Research Publications :

National/International : Total Publications: 448 (SCOPUS), Citations: 24560 (SCOPUS)(May 2023), H-Index: 84 (SCOPUS) (May 2023)

Patents (granted in last 5 years): 47

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

Awards:

- ISTE National award for outstanding research, 1995

- Prof. R.A. Rajadyaksha Best Teacher award, on 15 occasions in the past 20 years
- VASVIK award, 1996
- Fellow, Maharashtra Academy of Science 1997
- IChE - Herdilia award for excellence in basic research, 2001
- Distinguished Alumnus award, Institute of Technology-Banaras Hindu University, 2004
- Distinguished Alumnus award, UICT, 2008
- INSA, Best Teacher award, 2012
- Vishwakarma Medal of Indian National Science Academy 2015
- Fellowships of, Maharashtra Academy of Sciences, 2000
- Indian National Academy of Engineering, 2006, Indian Academy of Sciences, 2008
- Indian National Science Academy, 2009
- National Academy of Sciences in India, 2009
- Fellow of TWAS 2015
- Nominated as a member of the CSIR Society, Government of India, 2023
- Secured First Position as Scientist in India in the Engineering and Technology field by Research. com, 2023
- Selected as 'Fellow of the United States National Academy of Engineering (US-NAE)' 2023

(SCOPUS) and has 33 applied and granted patents & is on the Editorial board of five International Scientific Journals. He has guided 58 PhDs and 94 Masters students so far.

OTHER CONTRIBUTIONS : In addition to his research contribution, Prof. Pandit has contributed to innovation in teaching, at graduate and undergraduate levels, demonstration experiments for elaborating the physical principles of many chemical engineering operations. He is actively involved in working with committees in the area of harnessing solar energy & with tribal population in extending the chemical engineering principles for drying of farm/ forest product & water disinfection for potable water. He is a president of a NGO named Land Research Institute dealing with the Energy and Town planning sector.

Administrative Contributions: Prof. Pandit has taken over the charge as Vice Chancellor of Institute of Chemical Technology on November 29, 2019. Prior to this, he has acted as a Dean in his capacity of Human Resource and earlier as Dean of Research Consultancy and research Mobilization. He has been the coordinator of ICT-DAE center for Chemical Engineering Education and Research since its inception in 2008. He is on the editorial board on 5 international journals and is an associated editor of Ultrasonic Sonochemistry. He has successfully guided and completed international science collaborations with Universities from France, Australia and the Netherlands. He is also on the project appraisal and evaluation committees of the DST and UGC, Govt of India. He is currently serving as a member of the BOG of the IIT Bombay. He has been an active industrial consultant to many national and international industries.



EMERITUS PROFESSOR OF EMINENCE

PROF. M. M. SHARMA

*B. Chem. Eng., M.Sc. (Tech.) (Bombay), Ph. D. (Cambridge), D.Sc.(h.c.) (I.I.T., Bombay; Delhi; Kharagpur; B.H.U.; Roorkee) (Calcutta) (Kanpur) (Bundelkhand) (Lucknow) (h.c.), LL.D. (Mumbai) (h.c.), FEng, FRS, FNA, FASc, FNASc, FTWAS, C Chem, FRIC (U.K.), C. Eng., FICHe (U.K.), FIChE, FICS, FBRS
email: profmmsharma@gmail.com*

Man Mohan Sharma FEng (born May 1, 1937 in Jodhpur, Rajasthan) is an Indian chemical engineer. He was educated at Jodhpur, Mumbai and Cambridge. at the age of 27 years, he was appointed Professor of Chemical Engineering in the Institute of Chemical Technology (UDCT), Mumbai. He later went on to become the Director of Institute of Chemical Technology (ICT/ UDCT/ UICT), the first chemical engineering professor to do so from ICT.

In 1990, he became the first Indian engineer to be elected as a Fellow of Royal Society, UK. He was awarded the Padma Bhushan (1987) and the Padma Vibhushan (2001) by the President of India. He has also been awarded the Leverhulme Medal of the Royal Society, the S.S. Bhatnagar Prize in Engineering Sciences (1973), FICCI Award (1981), the Vishwakarma medal of the Indian National Science Academy (1985), G.M. Modi Award (1991), Meghnad Saha Medal (1994), and an honorary Doctor of Science degree from Indian Institute of Technology, Delhi (2001). Man Mohan Sharma obtained Bachelor of Chemical Engineering (1958) from UDCT (ICT) and subsequently MSc (Tech.) in 1960. He obtained Ph.D. (Chemical Engineering) (1964) at Cambridge University with PV Danckwerts. In 1964, he returned to India as Professor at the University of Bombay, and later became Director of the University Department of Chemical Technology (UDCT), now ICT (Institute of Chemical Technology - A Deemed to be University). He served the institute for 33 years. He has been honored by several universities including IITs by honorary doctorates.

Awards

Professor Sharma is a recipient of a number of prestigious academic honours and awards. He is a Fellow of the Indian Academy of Sciences, Bangalore, Honorary Fellow of the National Academy of Sciences (India), Allahabad, Fellow of the Royal Society, London. Subsequently he was elected Honorary Fellow by the Royal Academy of Engineering and is Foreign Associate of the US National Academy of Engineering. He is recipient of Padma Bhushan and Padma Vibhushan.

Academic Career

Professor Sharma made contributions to chemical engineering science and technology. His studies on Bronsted based catalysis in CO_2 hydration (published in the Transactions of Faraday Society) and subsequently kinetics of COS absorption in aqueous amines and alkanolamines brought out linear free energy relationship between CO_2 and COS absorption in solutions of amines and alkanolamines. He has contributed extensively on the role of microphases in multiple reactions which he pioneered. He also became an independent Editor of Chemical Engineering Science at a young age. He taught different subjects in chemical engineering and encouraged his doctoral students, from the very beginning, to publish independently their work in renowned journals.

Under his stewardship, UICT got autonomy of UGC. He brought about all-around improvement in all the departments of the Institute leading to exceptionally high number of Ph.D.s each year based on the number of faculty members. He served in Petroleum and Natural Gas as Chairman of the SAC and in the SAC to Cabinet and PM. He was INSA Council Member (1980-82) and Vice President (1987-88).



EMERITUS PROFESSOR OF EMINENCE PROF. J.B. JOSHI

B.Chem.Eng., M.Chem.Eng., Ph.D. (Tech.)

FNA, FTWAS, FASc, FNAE, FMASc

Emeritus Professor, Homi Bhabha National Institute;

Adjunct Professor, Department of Chemical

Engineering; Louisiana State University, USA and

Curtin University, Australia

Former Director, ICT Mumbai.

Professor Jyeshtharaj Bhalchandra Joshi is an outstanding chemical engineering professional who has developed novel processes, designs, products and implemented in large, medium and small-scale industry including design of more than 1000 reactors for commercial operation. He has developed efficient designs of cookers and stoves and held more than 300 workshops for promoting science awareness among school going students. As President of Marathi Vidnyan Parishad, he has been actively driving the task of improving scientific temper of the society through different activities. Professor Joshi has done truly outstanding work in the area of multiphase reactors which has been widely acclaimed. He has succeeded admirably in developing design procedures for multiphase sparged and mechanically agitated reactors, which form heart of the chemical process industry. He was Director of ICT (1999-2009). Professor Joshi has guided 91 Ph.D. and 60 Masters thesis. He has published more than 500 papers in international cited journals and more than 60 state of the art reviews/ monographs/ book chapters. He has more than 17000 citations and h-index of 64. He has been honoured with Padma Bhushan by the President of India. He has passion to interact with students and young professionals for mutual inspirations and service to society.

The list of prominent awards includes: Fellowship of TWAS, INSA, IASc, INAE; S.S. Bhatnagar Prize 1991 (CSIR), Young Scientist Award 1981 (INSA), Amar-Dye-Chem Award 1983 (IChE), Young Associate 1983 (IASc), Fellow Maharashtra Academy of Sciences, 1987, Herdillia Award 1989 (IChE), Maharashtra State National Award 1991 (ISTE), VASVIK Award 1992, Diamond Award 1994 (UDCT), Dr. K.G. Naik Gold Medal 1995 (MS University Baroda), Chemtech Foundation Award, Goyal Foundation Award 1998 (Kurukshetra U), Vishwakarma Medal 2000 (INSA), 2000; State Best Teacher Award 2004 (Maharashtra), Dr. Anji Reddy Innovator of the year Award 2005 (IChE), Diamond Award 2007 (IChE), J. C. Bose Fellow, 2008 (DST), Life Time Achievement Award (Indian Chemical Council), Sayed Husain Zaheer Medal 2008 (INSA), ICT Superstar 2012 (ICT Mumbai), Eminent Engineer Award 2018 (Engineering Council of India), Lakshya Distinguished Leadership Award 2018 (NITIE Mumbai).

AWARDS:

Padma Bhushan (Govt. of India, 2014),

Shantiswarup Bhatnagar Prize (Engineering Sciences, 1991),

Eminent Engineer Award

(Engineering Council of India, 2018). Elected to the US National Academy of Engineering: For research, innovation, and education in green chemistry, catalysis, nanotechnology, and chemical engineering leading to clean and green technologies.

Subjects Taught:

Fluid Mechanics, Multiphase Reactor Design

Research Interests:

Fluid Mechanics, Multiphase Reactor Design, Computational Fluid Dynamics, Atomic Energy, Solar Energy, Bio-Energy.

Recognized Research Guide for: Ph.D. (Tech.) in Chemical Engineering, Nuclear Engineering, Ph.D. (Science)

Guided students: Ph.D. 86, Masters: 60

Post Doctoral: 24

Total Research Publications -

National : 25

International: 500

Current Students:

PhD. 10

Masters: Nil

Post-Doctoral: 4

Citations: 16203 (according to Scopus)

H-index: 62 (according to Scopus)



EMERITUS PROFESSOR OF EMINENCE PROF. G. D. YADAV

*B. Chem. Eng. Ph.D. (Tech.), D.Sc. (Hon. Causa, DYPK),
FTWAS, FNA, FASc, FNASc, FNAE, FRSC (UK),
FISTE, FIChemE (UK), FIChE, FICS*

Former Vice Chancellor and R.T. Mody Distinguished Professor

Tata Chemicals Darbari Seth Distinguished Professor of Innovation and Leadership

J.C. Bose National Fellow (Govt. of India)

Adjunct Professor, RMIT University, Melbourne, Australia

Adjunct Professor, University of Saskatchewan, Saskatoon, Canada

Conjoint Professor, University of New Castle, Australia

Padmashri by President of India (Fourth Highest Civilian Honour)

Research Interests :

Green Chemistry and Technology (Fundamental and applied aspects of green chemistry and engineering, particularly in the design and development of benign and eco-efficient processes in the chemical and allied industries such as bulk chemicals, intermediates, pharmaceuticals, fine chemicals, perfumes and flavours, and inorganics); Catalytic Science and Engineering (New catalytic materials, phase transfer catalysis, ionic liquids, reactions in supercritical carbon dioxide, catalysis modelling and simulation, biocatalysis in non-aqueous media, synergism of chemical catalysis with microwaves and ultrasound, and cascade engineered catalysis, renewable materials as feedstock for value added chemicals, biorefinery); Nanomaterials and nanocatalysis (Solid acids, superacids and bases, supported metals as nanocatalysts, sulphated zirconia, UDCaT series of novel catalysts, ion exchange resins, heteropoly acids, clays, and zeolites, novel redox materials, carbon nanotubes); Biotechnology (Enzyme catalysis in pharmaceutical transformations in non-aqueous media, chiral separations, biomass conversion, biorefinery, Synergism of Microwaves and Enzymes); Energy Engineering (Petroleum Engineering, Flow through porous media, Network modelling, Novel methods of enhanced oil recovery; Coal conversion, Hydrogen generation and storage)

Professor G.D. Yadav was conferred Padmashri By the President of India in 2016. He has won over 125 national and international honours, awards, fellowships, editorships, etc. Several Life Time Achievement Awards have been bestowed on him by prestigious organizations. He is an elected Fellow of all National Science and Engineering Academies in India which is rare: Indian National Science Academy (INSA), Indian Academy of Sciences (IASc), National Academy of Sciences, India (NASI), Indian National Academy of Engineering (INAE) and the World Academy of Sciences, Trieste (TWAS). He is a Fellow of Royal Society

of Chemistry, UK, Institution of Chemical Engineers, UK, Indian Institute of Chemical Engineers, Indian Chemical Society, and Indian Society for Technical Education, among others. He is one of the topmost engineering scientists and academicians in India, who despite being an administrator, is still actively involved in guiding Ph.D., patenting, publishing, consulting and transferring technologies to industry. He has given more than 670+ talks including prestigious orations, plenary lectures, keynote addresses and seminars across the world in his illustrious career. He has been an active consultant to industry with more than 70 assignments and over 70 sponsored research projects for past 30 years. He has been involved in many policy making prestigious committees of central and state governments, UGC, AICTE, NBA, CSIR, DBT, MHRD, NAAC, CII, FICCI, etc. He has provided inspiring leadership to the Institute of Chemical Technology (ICT), the Indian Institute of Chemical Engineers (IICChE), Catalysis Society of India, and Maharashtra Academy of Sciences. As President of IICChE in 2001, he changed the face of IICChE and made it a vibrant body. Under his dynamic leadership, ICT has established two new campuses, ICT Mumbai Indian Oil Odisha Campus Bhubaneswar with complete support of Indian Oil Corporation and partnership of IIT Kharagpur for research and innovation and Marathwada Jalna campus. Both these campuses will have innovative programmes of education and innovation which will create entrepreneurs and are unparalleled example in India and demonstrate Prof Yadav's vision and leadership of academia. ICT has won many awards under his leadership including the University of the Year Award by FICCI (2018). Five documentaries are available on YouTube on his life and vision.

Prof. Yadav was elected to the US National Academy of Engineering: For research, innovation, and education in green chemistry, catalysis, nanotechnology, and chemical engineering leading to clean and green technologies. 1) This is a really big honour and international recognition. This year's list also includes Satya Nadella and Elon Musk along with Professor Yadav. This is second year in succession where ICT has been recognised. Out of 18 such Fellows of NAE, USA who are Indian Nationals, alive today, 5 are from ICT.

Prof. G.D. Yadav has been selected as the National Science Chair (Mode 1) by the Science and Engineering Research Board (SERB) of the DST, Govt of India, for the period of 3 years.

Prof. G. D. Yadav has been conferred the "Prof. Jai Krishna Memorial Award 2021" by the Indian National Academy of Engineering (INAE) for his outstanding contributions in the field of Engineering. the Award will be conferred in the Award Ceremony to be held virtually during the INAE Annual Convention scheduled on December 15-17, 2021.

Subjects Taught: Fundamentals of Green Chemistry and Technology

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

Guided students:

Ph.D.: 97, M. Tech.: 107, Postdoc: 34

Total Research Publications

National: 8, International: 439

h-Index: 64; i-10 index 316,

Citations: 15,000+

Patents:

Total Patent Application Filed: 102;

Total Patents Granted: 62;

(a) Total Indian Filed: 58;

(b) Total Indian Granted: 36;

(c) Total International Filed: 44;

(d) Total International Granted: 26

AWARDS and Recognitions : (Over 125)

- Padmashri (Govt. of India, 2016),
- D.M. Trivedi Life Time Achievement Award by Indian Chemical Council,
- Dr B.P. Godrej Life Time Achievement Award by Indian Institute of Chemical Engineers,
- Professional Award (100 Rotary Clubs),
- Founding Chair, ACS India International Chapter
- President Indian Chemical Society
- President, Maharashtra Academy of Sciences
- Former President, Catalysis Society of India
- Former President, Indian Institute of Chemical Engineers
- Council Member, Indian National Science Academy (2019-)
- Independent Director: Godrej Industries Ltd, Aarti Industries Ltd, Meghmani Organics Ltd, Bhageria Chemicals Ltd, Clean Science & Technology Pvt Ltd.

ADJUNCT FACULTY



PROF. SURESH K. BHARGAVA

Dean of Applied Sciences,
College of Science, Engineering
and Technology, RMIT University
GPO Box 2471V,
Melbourne 3001, AUSTRALIA
email: E24099@ems.rmit.edu.au



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),
98-481-55416 (M);
Fax 2590-2601
email: ashwini.nangia@gmail.com
ak.nangia@ncl.res.in



Dr. RAM SABNIS

1120 Lyndhurst Way
Roswell, GfA 30075
USA
email : ramsabnis@yahoo.com



Dr. SANJEEV S. KATTI

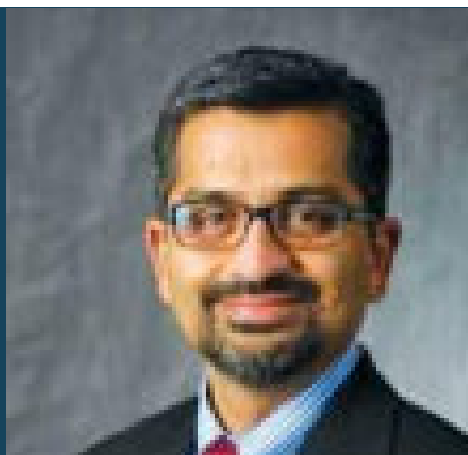
Director General
ONGC Energy Centre
8th Floor, Core - 4
SCOPE Minar, Laxmi Nagar
Delhi - 110092
Phone: +91-11-22406625
email: sanjeev_katti@ongc.co.in



Dr. RAJENDRA SARDESAI

520, Arbolada Drive
Arcadia, California 91006-2112
U.S.A.
email: raj.sardesai@gmail.com

ADJUNCT FACULTY



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
Tel: +44 (0) 118 378 8388



Dr. MUKUND S. CHORGHADE

Associate of the Department of Chemistry and Chemical Biology
FAS[^]FCOR[^]CCB-Oth,
Harvard, FAS Chemistry and Chem Biology
Mallinckrodt Chemistry Lab
12 Oxford St Cambridge MA 02138
email: mukundchorghade@fas.harvard.edu



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.
Tel : 25560870
email : ce@mum.hwb.gov.in;
kamachi@mum.hwb.gov.in



PROF. M.A. SHENOY

302, Amartaru Building No.4,
Near Pinky Cinema,
New Nagar Das Road,
Andheri (E.)
Mumbai – 400 069
M - 9819531336
email: prof.mashenoy@gmail.com



Dr. AJAYAN VINU

New Castle University, Australia
Tel: (02) 49218669
email: ajayan.vinu@newcastle.edu.au

ADJUNCT FACULTY



Dr. VIVEK V. RANADE

Professor School of Chemistry
and Chemical Engineering,
Research Centre in
Sustainable Energy
Queens University, Belfast
University Road, Belfast
BT7 1NN, Northern Ireland
United Kingdom
Tel: +44(0)2890 973091
email: v.ranade@qub.ac.uk



PROF. ANANT PARADKAR

Professor of Pharmaceutical
Engineering Science,
Norcroft Building (ex IPI), 3.17
Centre for Pharmaceutical
Engineering Science,
Pharmaceutical Engineering,
University of Bradford, UK
Tel: +44 (0) 1274 233900
email: a.paradkar1@bradford.ac.uk



PROF. SUDDHASATWA BASU

Director, CSIR-Institute of Minerals
& Materials Technology (IMMT);
Council of Scientific & Industrial
Research (CSIR), Bhubaneswar
Professor (on lien), Department of
Chemical Engineering, I.I.T. Delhi
Tel +91 (0674) 2567126; 2379400;
email: sbasu@immt.res.in;
dir@immt.res.in



PROF. AJAY K. DALAI

Professor of Chemical Engineering
and Canada Research Chair
in Bio-Energy and Environmentally
Friendly Chemical Processing,
Department of Chemical and
Biological Engineering,
College of Engineering,
University of Saskatchewan
57 Campus Drive, Saskatoon,
SK Canada S7N 5A9
email: ajay.dalai@usask.ca
Phone No. (306) 966-4771



Shri. DILIP UDAS

Distinguished Alumnus
Vice President - UAA
email: udasdg@gmail.com
M – 9820287783



PROF. RAMANI NARAYAN

2527 Engineering Building /
C-10 Engineering Research
Complex
Michigan State University,
East Lansing, MI -48824
Tel: (517) 432-0775;
Fax: (303) 265-9072
email: narayan@msu.edu

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Dr. J. S. YADAV

Former Director, CSIR-IICT and Bhatnagar Fellow, Trustee and Director of Research, Indrashil Institute of Technology, PO Rajpur, Taluka Kadi, Mehsana 382730, Gujarat;
Tel. (02764) 278-813, 278-815 (O) 98-492-40801 (M);
email: jsyadav@iist.edu.in, yadavfna@gmail.com



PROF. TAKEHIKO SASAKI

Associate Professor,
Division of Transdisciplinary Sciences, Department of Complexity Science and Engineering
3H8, Interdisciplinary Bldg.
3F, Kashiwa Campus
The University of Tokyo, Japan
email: takehiko@k.u-tokyo.ac.jp



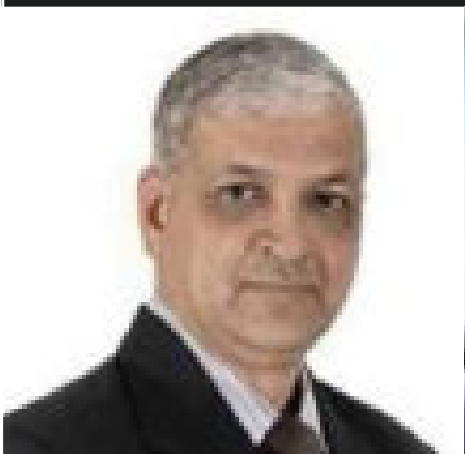
PROF. MASAYUKI SHIRAI

Faculty of Engineering,
Department of Chemistry and Bio-engineering, Iwate University, Japan
email: mshirai@iwate-u.ac.jp



Dr. SESHADRI S. RAMKUMAR

PhD, FTA (Honorary)
Professor, Nonwovens and Advanced Materials Laboratory
Texas Tech University
Lubbock, TX, USA
Tel (Main Office): (001) 806 742 4567
Fax: (001) 806 885 2132
email: s.ramkumar@ttu.edu
Website: <http://www.tiehh.ttu.edu/sramkumar>



Dr. RAJIV PADHYE

Director, Centre for Materials Innovation and Future Fashion
School of Fashion and Textiles
College of Design and Social Context, RMIT University,
25 Dawson Street, Brunswick,
Victoria 3056, Australia
Tel.: +61-3-9925 9124
Mobile: +61417501853
email: rajiv.padhye@rmit.edu.au



Dr. PRASAD POTLURI

Professor of Robotics and Textile Composites,
School of Materials
James Lighthill Building-E1B,
The University of Manchester
Manchester, M13 9PL
email: prasad.potluri@manchester.ac.uk
Tel: 0161 306-4128

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PROF. R. P. IYER

Ph.D. FRSC.

Vice President and

Chief Scientific Officer

Co-founder, Spring Bank

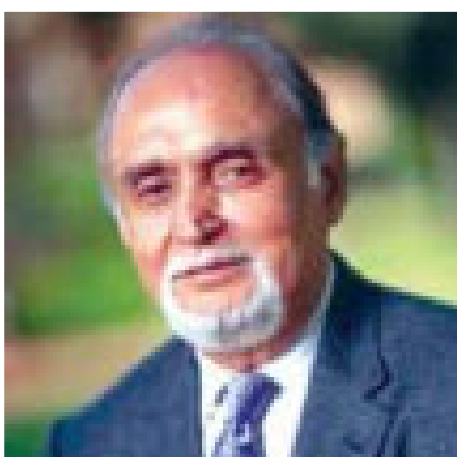
Pharmaceuticals

MA, USA

Tel. 508-473-5993, Ext 101

Fax. 508-473-6375

email : kiyer@springbankpharm.com



Dr. DHIREN R. THAKKER

317, Dalton Drive

Raleigh, NC 27615

email : dhiren_thakker@unc.edu

Tel: 919-870 5126 (Res)

919- 962 0092 (Off.)

Fax:919-966 3525



Dr. KAILAS THAKKER

317 Dalton Drive

Raleigh, NC 27615-1655

919-870-5126(home)/919-549-9703

919-878-7195(fax)

Mobile 919-605-4928

email: kdt1229@gmail.com



Dr. PRAKASH D. TRIVEDI

SBU HEAD - POLYMERS

Gharda Chemicals

email : pdtrivedi@gharda.com

prakashtrivedi46@gmail.com

587, Parag, 18th Road,

Khar, Mumbai - 400 052.

Mob: - 9820283881



Dr. JEEVAN PRAKASH GUPTA

Chairman Environmental

Impact Assessment,

Ministry of Environment,

Forest and Climate Change,

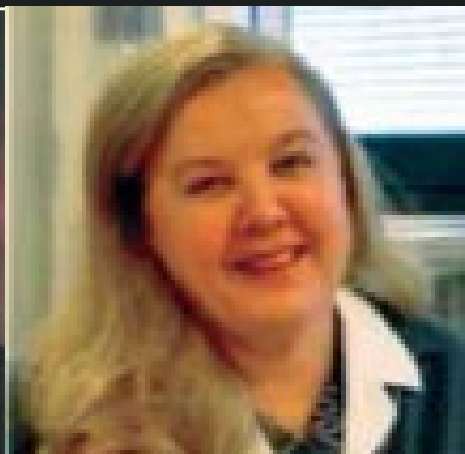
Govt. of India

A-1/2, Panchsheel Enclave,

New Delhi-110 017.

Tel: +91-9810141635

email: jpglobalconsultinggroup@gmail.com



PROF. RIITTA KEISKI

Professor in Mass and Heat Transfer

Department of Environmental and

Chemical Engineering

Room number: PR 328,

PO Box 8000,

FI – 90014, University of Oulu,

Finland

Pentti Kaiteran katu 1, Linnanmaa.

Tel: +358 29 448 2348

email: riitta.keiski@oulu.fi

ADJUNCT FACULTY



PROF. INMACULADA ORTIZ

Department of Chemical Engineering and Inorganic Chemistry, University of Cantabria, Spain
AV. de los Castros, s/n, 39005, Santander, Cantabria, España
Tel: 34942201585
email: ortizi@unican.es



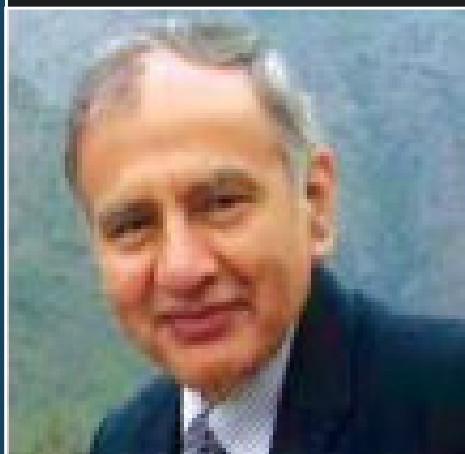
PROF. ANGEL IRABIEN

Department of Chemical and Biomolecular Engineering, University of Cantabria, Spain
AV. de los Castros, s/n, 39005.
Tel: 34942201597
Mob: 34629560552
Fax: 34942201591
email: angel.irabien@gmail.com



PROF. ABHAYA K. DATYE

Distinguished Regents Professor and Department Chair, Chemical and Biological Engineering, Department, University of New Mexico, MSC 01 1120
Albuquerque, NM 87131-0001
(For courier deliveries: Suite 1300, Farris Engineering Center, 1901 Redondo Dr. NE)
Tel: (505) 277-0477 (direct);
email: datye@unm.edu



PROF. R. S. VARMA

U.S. Environmental Protection Agency, ORD National Risk Management Research Laboratory, Water Systems Division/ Water Resources Recovery Branch
26 West M.L.K. Dr., MS 443, Cincinnati, Ohio 45268, USA
Tel: (513)-487-2701
Fax: (513)-569-7677
email: Varma.Rajender@epa.gov



PROF. MUKUND V. KARWE

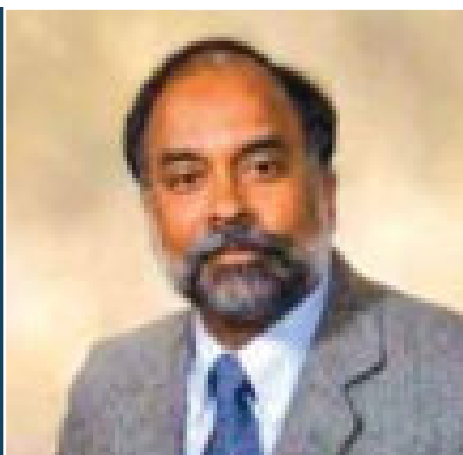
Professor and Chair, Department of Food Science
65 Dudley Road, School of Environmental and Biological Sciences, Rutgers University,
New Brunswick, NJ 08901-8520
Tel: (732) 2-5487 / Lab 2-5560
Fax: (732) 932-6776
email: mkarwe@sebs.rutgers.edu



PROF. SHYAM S. SABLANI

Associate Professor of Food Engineering, Department of Biological Systems Engineering, Washington State University, 1935 E. Grimes Way, Pullman, WA 99164-6120.
Tel: 509-335-7745,
Fax: 509-335-2722
email: ssablani@wsu.edu

ADJUNCT FACULTY



PROF. RAMASWAMY C. ANANTHESWARAN

Professor of Food Science
Director for Education by
Non-Traditional Delivery,
Chair of the Cocoa, Chocolate,
and Confectionery Research Group
305 Rodney A. Erickson Food
Science Building,
University Park, PA 16802
email: swamy@psu.edu
Work Phone: 814-865-3004



Dr. KALIDAS SHETTY

Professor of Plant Science and
Founding Director of Global Institute
of Food Security and International
Agriculture,
Associate Vice President for International
Partnerships and Collaborations,
North Dakota State University,
374 D Loftsgard Hall, 1360 Albrecht
Blvd., Fargo, ND 58102, USA
Tel: (701) 231-5058
email: kalidas.shetty@ndsu.edu
kalidasshetty@yahoo.com



Dr. C. ANANDHARAMA KRISHNAN

Director,
Indian Institute of
Food Processing Technology
Ministry of Food Processing Industries,
Government of India,
Pudukkottai Road,
Thanjavur - 613 005 Tamil Nadu, India.
email: director@iifpt.edu.in



KESHUN LIU, Ph.D.

Research Chemist, Grain Chemistry
and Utilization Lab,
National Small Grains and
Potato Germplasm Research Center
U.S. Dept. of Agriculture,
Agricultural
Research Service, Aberdeen,
Idaho 83210, USA
email: Keshun.Liu@ars.usda.gov



PROF. V. A. JUVEKAR

Professor of Chemical Engineering,
IIT, Mumbai
MOB: 9869869831
email: vaj@iitb.ac.in



PROF. R. V. CHAUDHARI

School of Engineering - Chemical
and Petroleum Engineering
Deane E. Ackers
Distinguished Professor
Learned Hall, Room 4141C,
University of Kansas,
1530 West 15th Street
Lawrence, KS 66045
Tel: 785-864-1634
email: rvc1948@ku.edu

ADJUNCT FACULTY



PROF. BALA SUBRAMANIAM
School of Engineering - Chemical
and Petroleum Engineering,
Dan F. Servey
Distinguished Professor
Learned Hall, Room 4156
University of Kansas,
1530 West 15th Street,
Lawrence, KS 66045
Tel: 785-864-2903
email: bsubramaniam@ku.edu



Dr. SANJEEV S. TAMBE
Former Head Chemical
Engineering division
NCL Pune
B-32, Sylvan Retreat,
Range-Hills Road, Ashoknagar,
Shivajinagar, Pune 411020, India
Tel: +91 9850030789
email: tambe.sanjiv@gmail.com



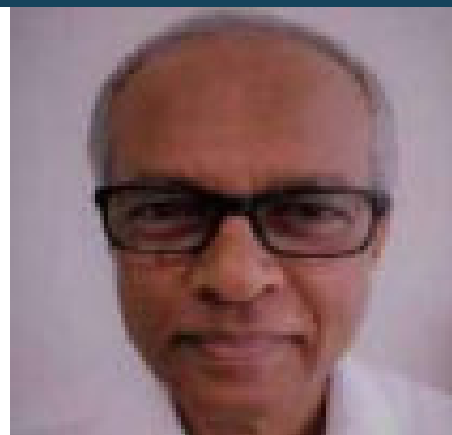
Dr. V PRAKASH
Distinguished Scientist of
CSIR-INDIA
Former Director of CFTRI-INDIA
Mysore 570 002 INDIA.
Tel: 9845048854
email: prakashvish@gmail.com



Dr. VIJAY G. HABBU
Senior Vice President (Chemicals),
PETCHEM Sector, Reliance
Industries Ltd.,
Ghansoli, Mumbai - 400 701.
Tel. : 27895406 {R}/9967544135 {M}
email : vijay.habbu@gmail.com;
vijayhabbu@ril.com



Dr. CRK REDDY
DBT Energy Biosciences Chair
DBT-ICT Centre for Energy
Biosciences, ICT,
Matunga, Mumbai - 400 057.
Mob:9429641246
email: crkcsmcric@gmail.com



Mr. SWAPAN K. RAY
A-1004,Tharwani Rosabella,
Sector - 35 D, Kharghar,
Navi Mumbai - 410 210.
Tel: 9867609116
email: sapan.kr.ray@gmail.com;
Swapan.Ray@ril.com;

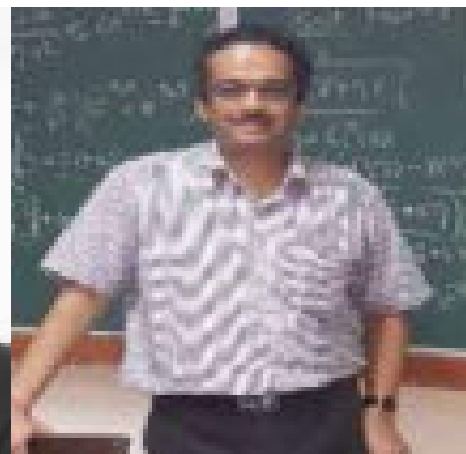
ADJUNCT FACULTY



Dr. SUDHAKAR Y. MHASKAR
5, Amar Prabha, Plot no 25,
Jay Prakash Nagar, Goregaon (E),
Mumbai – 400063.
email : raksahmys@gmail.com;
Mob: +91-9819544684



PROFESSOR P. RAMESH BABU
CRANN & School of Chemistry
Trinity College, Dublin- 2
Tel. : +353- (1)- 896 2602
email : babup@tcd.ie;



PROFESSOR YOGESH M. JOSHI
Department of Chemical
Engineering,
Indian Institute of Technology
Kanpur,
Kanpur – 208 016.
Tel. : 512 259 7993 {M}/ (F) 512 259
0104
email : joshi@iitk.ac.in;



DR. RAMAN P. YADAV
Professor, Department of Medical
Biotechnology, MGM School of
Biomedical Sciences, & Technical
Director, MGMIHS OMICS
Research Center, MGMIHS,
Navi Mumbai.
Mob: 08779257513
email: dr.ramanyadav@yahoo.com

Additional Adjunct Faculty

1. **Mr. Adnan Ahmad**,
Sainik Farm, New Delhi.
2. **Professor Radha V. Jayaram**,
Retired Professor, Institute
of Chemical Technology,
Mumbai.
3. **Prof. K.V. Ramanujachary**
Department of Chemistry
and Biochemistry Rowan
University, Glassboro, USA.
4. **Prof. Daniel J. Sweeney**,
Massachusetts Avenue
Cambridge, Massachusetts.
5. **Prof. Sanjay V. Deshmukh**
M.Sc., Ph.D, DSc(hc), LLB, DSc(hc),
Former Vice-Chancellor,
University of Mumbai,
Professor of Life Sciences,
University of Mumbai 98.
6. **Dr. Nishigandha Naik**
Assistant Director and
Director (Addl. Charge) –
Superannuated Mumbai 63
7. **Dr. Mukund Keshao Gurjar**
Director (R&D) & Chief
Scientific Officer, Emcure
Pharmaceuticals Limited,
Pune.
8. **Dr. M. G. Kulkarni**,
Emeritus Scientist, Formerly
Head Polymer Science
and Engineering Division,
CSIR National Chemical
Laboratory, Pune
9. **Dr. C R K Reddy**, DBT
Energy Biosciences Chair,
DBT- ICT Centre For Energy
Biosciences ICT, Matunga,
Mumbai 57
10. **Dr. K. V. Seshadri**,
Navi Mumbai -400706.



DISTINGUISHED ADJUNCT FACULTY (2019-2023)



**PROF. RYOJI NOYORI,
NOBEL LAUREATE**

Director-General of CRDS,
Japan Science and Technology Agency
(JST)
Director of Science Museum,
Japan Science Foundation
RIKEN Fellow, RIKEN University
Professor, Nagoya University, JAPAN
Email :noyori@jst.go.jp;
mirei.takizawa@jst.go.jp



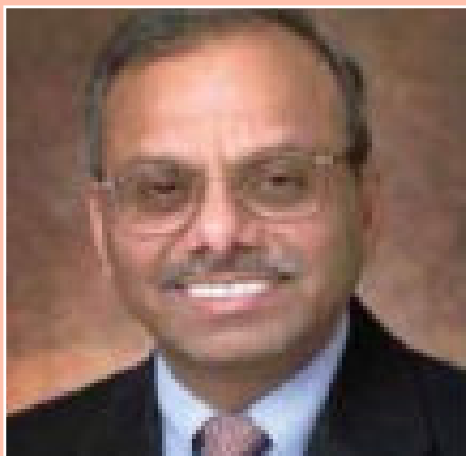
PROF. ARUN S. MUJUMDAR

Director, M3TC, Faculty of
Engineering and Department of
Mechanical Engineering
National University of Singapore
9 Engineering Drive 1
Singapore 117576
Tel: (65) 6516 4623;
E-mail: arunmujumdar123@gmail.com
mpeasm@nus.edu.sg



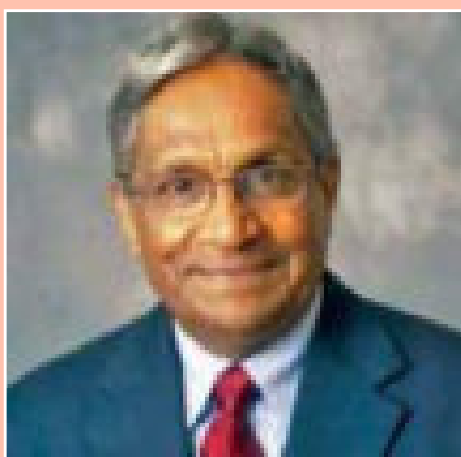
Dr. A.V. RAMA RAO

Chairman and Managing Director
Avra Laboratories Pvt. Ltd.
Avra house, 7-102/54, Sai enclave,
Habsiguda, Hyderabad – 500007,
Telangana, INDIA,
Tel: +91 040 27178571
Email: ramarao@avralab.com
info@avralab.com



PROF. RAKESH AGRAWAL

Winthrop E. Stone
Distinguished Professor
of Chemical Engineering,
Purdue University,
School of Chemical Engineering,
Forney Hall of Chemical Engineering,
480 Stadium Mall Drive,
West Lafayette,
IN 47907-2100 USA
Tel: (765) 494-2257 (office)
Email: agrawalr@purdue.edu



**PROF. DORAISWAMI
RAMKRISHNA**

H.C. Peffer Distinguished
Professor
Forney Hall of Chemical
Engineering, 480 Stadium Mall
Drive, Purdue University
West Lafayette, IN 47907, USA
Tel: (765)-494-4066
E-mail: ramkrish@ecn.purdue.edu



PROF. RAJAMANI KRISHNA

Emeritus Professor
University of Amsterdam
Van 't Hoff Institute for Molecular
Sciences.
Amsterdam, the Netherlands
Email: R.Krishna@uva.nl



DISTINGUISHED ADJUNCT FACULTY (2019-2023)



Dr. S. SIVARAM

INSA Senior Scientist and
Honorary Professor,
Indian Institute of
Science Education and Research,
Dr. Homi Bhabha Road, Pune 411008;
Tel: (020) 2590-8434 (O),
4120-5731 (R), 98-607-99954 (M);
Email s.sivaram@iiserpune.ac.in;



PROF. DAMODAR ACHARYA

Formerly Director IIT, Kharagpur,
Formerly Chairman, All ICTE,
New Delhi and Formerly Vice
Chancellor,
Biju Patnaik University of Technology,
Bhubaneswar,
Chairman Advisory Board,
SOA University, Khandagiri Square,
Bhubaneswar – 751 030.
Tel: 06742350885
Email: acharyadamodar94@gmail.com



PROF. CHENNUPATI JAGADISH

Distinguished Adjunct Professor of
Physics and Chemical Engineering
ANU College of Science,
Australian National University
Email: Chennupati.Jagadish@anu.edu.au



Shri. VIJAY B. SAMANT

President and CEO
VICAL, 93/73, Powne Centre Drive
Suite 100, Sandiago
California, CL 92121-3088, USA.
Email: VBSamant@vical.com



PROF. SANJOY BANERJEE

Distinguished Professor and Director,
CUNY Energy Institute
Steinman Hall, 326,
Mechanical Engineering,
The City College of New York
Tel: (212) 650-5728
Fax: (212) 650-6660
Email: banerjee@che.ccny.cuny.edu

D.SC. (HONORIS CAUSA)

**Third
Convocation,
March 8,
2014**



**BHARAT RATNA
Professor C.N.R. Rao**
National Research
Professor
Linus Pauling Research
Professor & Honorary
President Jawaharlal
Nehru Centre for
Advanced Scientific
Research, Bangalore
[http://www.jncasr.ac.in/
cnrrao](http://www.jncasr.ac.in/cnr Rao)



**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
[http://gmwgroup.
harvard.edu](http://gmwgroup.harvard.edu)



**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
[https://isis.unistra.
fr/laboratory-of-
supramolecular-
chemistry-jean-
marie-lehn/](https://isis.unistra.fr/laboratory-of-supramolecular-chemistry-jean-marie-lehn/)



**Nobel Laureate
Professor Robert H.
Grubbs**
Victor and Elizabeth
Atkins Professor of
Chemistry
California Institute of
Technology, USA
[https://grubbsgroup.
caltech.edu/](https://grubbsgroup.caltech.edu/)

**Seventh
Convocation,
February 23,
2018**



**Nobel Laureate
Professor Ryoji Noyori**
Director-General of CRDS,
Japan Science and Technology Agency (JST),
Director of Science Museum, Japan Science Foundation,
RIKEN Fellow, RIKEN University Professor, Nagoya University, Japan
http://noy.chem.nagoya-u.ac.jp/R_Noyori-E/

**Ninth
Convocation,
September 2,
2020**



**PADMAVIBHUSHAN
Dr. Anil Kakodkar**
Chairman, Rajiv
Gandhi Science,
and Technology
Commission, Former
Chairman, Atomic
Energy Commission



**PADMASHRI
Dr. K.H. Gharda**
Chairman and
Managing Director,
M/s. Gharda
Chemicals Ltd.



Department of **CHEMICAL ENGINEERING**



PROF. V. K. RATHOD

B. Tech. (Nagpur, 1999), M. Tech. (Nagpur, 2001),

Ph.D. (Tech.) (Mumbai, 2006)

Professor of Chemical Engineering

Head of the Department

Course Co-ordinator, M.Tech. Green Technology





PROF. V. K. RATHOD

B. Tech. (Nagpur, 1999), M. Tech. (Nagpur, 2001), Ph.D. (Tech.) (Mumbai, 2006)
Professor of Chemical Engineering

Head, Department of Chemical Engineering

Course Co-ordinator, M.Tech. Green Technology

SUBJECTS TAUGHT:

Heat Transfer,
 Advance heat
 transfer, separation
 processes, Fluid flow
 and Heat transfer,
 Multiphase Reactor,

Technology, Ph.D. (Science) in Chemistry

Guided students: Ph.D.: 34, Masters: 116

PDF: 12

Total Research Publications-

National: 01 International: 252+

Patents: 01 H-Index: 57, Citations: 10125+

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

Best Professor contributing in Research award by C. B.
 Murarka charitable trust in 2019-20.

Chemical Reaction Engineering, Material & Energy
 Balance calculation, pharmaceutical Engineering,
 Chemical Engineering Laboratory, Unit operations
 in Biotechnology, Bioreactor Design and Industrial
 Bioprocess Automation

RESEARCH INTERESTS:

Separation process, Extraction of Natural ingredients,
 Enzyme catalyzed reactions, Waste Treatment, Catalysis,
 Separation of biomolecules, Enzyme Preparation,
 modification and separation, Nanomaterial synthesis

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

Chemical Engineering, Bioprocess Technology, Green

PROF. S. S. BHAGWAT

B. Chem. Eng., M.Chem.Eng., Ph.D. (Tech.)

Professor of Chemical Engineering

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. 44, Masters: 84

Total Research Publications-

National: 10, International: 101

Patents: 11 H-Index:

23, Citations: 1976

AWARDS:

- IICChE 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
- Fellow, Maharashtra Academic of Sciences 2007





DR. V. H. DALVI

B.Chem. Eng., M.S., P.D.ENG. (Enschede, the Netherlands), Ph.D.(Austin, USA)

R.A. Mashelkar Assistant Professor.

Co-coordinator, DBT-ICT Centre for Energy Biosciences

SUBJECTS TAUGHT: Process Simulation Laboratory, Advanced Mass Transfer, Mathematical Methods in Chemical Engineering, Optimization Methods in Chemical Engineering, Data analysis

RESEARCH INTERESTS : Molecular Simulations, Process Modeling and Simulations, Solar Thermal Systems, Renewable energy

Recognized Research guide for

Ph.D. (Tech) in Chemical Engineering

Total Research Publications- 31

Guided students: Ph.D. : 3 (ongoing:7) Masters: 13 (ongoing:6)

National: Nil, International: 37

Patents: 6 applied 4 granted

PROF. V. G. GAIKAR, F.N.A.E

B.Chem.Eng , M.Chem.Eng., Ph.D. (Tech.)

Bharat Petroleum Distinguished Professor of Chemical Engineering and Former First Vice Chancellor, Dr. Babasaheb Ambedkar Technological University (Maharashtra-ATU)



SUBJECTS TAUGHT: BioReaction Engineering, BioSystem Engineering, Chemical Process Control

RESEARCH INTERESTS: Renewable Energy Resources, CO₂ Reduction to Chemicals, Molecular Simulation, Chemical Process Development and Engineering, Clean Technology, Hydrotropy and Interfacial Sciences, Reactive Separations.

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

Guided students: Ph.D. 51, Masters: 93

Total Research Publications- National: 04, International: 188

Patents:11, H-Index:34 (Scopus), 39 (Google Scholar)

Citations: 4005 (Scopus), 4703 (Google Scholar)

AWARDS AND HONOURS:

- Fellow, Indian National Academy of Engineering (2008)
- Fellow, Maharashtra Academy of Sciences (2004)
- Eminent Engineer, Institution of Engineers(India) (2019)
- Acharya PC Ray Memorial Lecture, Institution of Engineers (India) (2019)
- UAA Distinguished Alumnus, 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 Career Award, (1994)
- Young Scientist Medal, Indian National Science Academy(1992)
- Young Associate, Indian Academy of Sciences (1992)



DR. PARAG R. GOGATE

B. Chem. Eng., M. Chem. Eng., Ph.D. (Tech.)

Professor of Chemical Engineering

**Course Co-ordinator, Certificate course on Practice of Chemical Technology,
Controller of Examinations**

SUBJECTS TAUGHT:

Chemical Reaction Engineering,
Cavitation for Green Processes
Processes, Process Calculations,

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, 2018; 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; Rajib Goyal Prize, 2018; Fellow, Indian National Academy of Engineering, 2019; Invitational Research Fellowship of Japan Society for the Promotion of Science (JSPS), 2020; Fellow, Institution of Chemical Engineers, UK, 2020; UGC Mid Career award by University Grants Commission, New Delhi, 2020; Mention in the Top 2% Scientists in the world in the area of Chemical Engineering (first in India) in analysis by Stanford University, 2020; IICChE Anij Reddy Innovator of the year award 2021; Outstanding Professor Award given by Indian Specialty Chemicals Manufacturing Association, 2021

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. 22, Masters: 64

Total Research Publications- National: 17, International: 395

Citations as per Scopus: 22500 H-index : 78

AWARDS:

Anil Kumar Bose Medal of the Indian National Science Academy (INSA), 2011; The SCEJ Award for Outstanding

Dr. SACHIN JADHAV

Ph.D. (Tech.) in Chemical Engineering

ASSISTANT PROFESSOR IN CHEMICAL ENGINEERING

SUBJECTS TAUGHT: Chemical Process Control, Chemical Engineering Operations, Chemical Engineering Laboratory, Research Methodology

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 Dynamics and Control, Drying, Crystallization, Sustainability Analysis

Recognized Research Guide for: Chemical Engineering

Guided students: Ph.D.: (ongoing 1); Masters: (6 completed + 2 ongoing)

Total Research Publications-

National: 01, International: 16

Citation : 770+; H-Index: 09





PROF. ANAND VINAYAK PATWARDHAN

Ph.D. (Tech.) Chemical Engineering

Professor of Chemical Engineering

Dean (Academic Programmes)

SUBJECTS TAUGHT:

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

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, Ph.D. (Green Technology)

Guided students: Ph.D.: 20, Masters: 53

TOTAL RESEARCH PUBLICATIONS : National: 61, International: 80, H-Index: 27; Citations: 3210

PROF. LAKSHMI KANTAM MANNEPALLI

B.sc., MSc., Ph.D (Chemistry)

(FNA, FTWAS, FNASc, FRSC, FMASc)

Dr. B. P. Godrej Distinguished Professor of Green Chemistry and Sustainability 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. : 42

TOTAL RESEARCH PUBLICATIONS:

National/ International: 360

Citations : 17878 ; H-Index: 71

Patents : 52

AWARDS:

- 2022- Fellow of Indian National Academy of Engineering, India
- 2019- Goyal Award, Applied Sciences, Kurukshetra University, Kurukshetra
- 2019- ICC -D.M.Trivedi Life time Achievement Award
- 2018-TWAS Fellow, Chemistry and Sustainability Engineering

- 2015-J.C.Bose Fellow (SERB-DST)
- 015- Eminent Scientist Award Catalysis Society of India;
- 2015- Dr.Burjor P. Godrej Distinguished Professor of GreenEngineering
- 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



DR. KUMUDINEE V. MARATHE
B E and M Tech in Metallurgical Engg
Associate Professor in Metallurgical Engg.

SUBJECTS TAUGHT: Material Science and Engg, 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. 04, Masters: 40

Total Research Publications- National: 48, International: 37

H Index: 17, Total Citations: 1928, Impact factor (Scopus): 39.644

PROFESSOR ANIRUDDHA BHALCHANDRA PANDIT

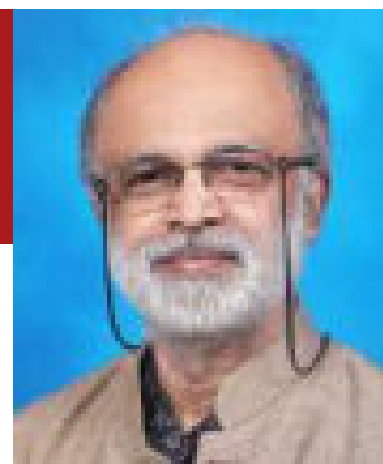
F.N.A., F.T.W.A.S., F.A.Sc., F.N.A.E., F.N.A.Sc., F.M.A.Sc.

Sir J. C. Bose National Fellow, GoI (2015-2020; 2020-2025)

UGC Research Scientist 'C'

Vice Chancellor

Institute of Chemical Technology



SUBJECTS TAUGHT: (past 2 years) Chemical Project Engineering and Economics, Separations Processes (jointly with Prof. A. V. Patwardhan)

RESEARCH INTERESTS:

Physical and Chemical Processing applications of Cavitation phenomena, Sonochemistry, Study of opportunities in industrial wastewater treatment and its reuse applications, Mixing in Mechanically agitated contactors:

Experimental and CFD Investigations, Design of nozzles for hydrodynamic cavitation: Experimental and CFD Investigations, Modeling of Stoves, Optimization of cooking devices, Pyrolysis of biomass for value-added products, Microbial disinfection using hydrodynamic cavitation, Protein modification, Cell disruption, Selective recovery of intracellular biomolecules at the cell disruption stage.

Recognized Research Guide for:

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

Guided students: Completed: Ph.D.: 63, Masters: 102, Ongoing: Ph.D.: 10, Masters: 10

Total Research Publications: 448 (Scopus; 19-05-2022)

Citations: 24560 (Scopus; 19-05-2022) H-Index: 84, Patents: Granted: 6, Applications Filed: 24, Patents: Granted: 4 Applications Filed: 26

AWARDS (SINCE PAST ONE YEAR):

- Secured First Position as Scientist in India in the Engineering and Technology field by Research.com, 2023
- Nominated as a member of the CSIR Society, Government of India, 2023
- Selected as 'Fellow of the United States National Academy of Engineering (US-NAE)' 2023



PROF. B. N. THORAT

B.Chem. Eng, M.Chem. Eng, D.H.S.T., Ph.D. (Tech)

**Senior Professor of Chemical Engineering
(Former Director, ICT - IOC, Bhubaneswar)**

SUBJECTS TAUGHT:

Basic Course in Entrepreneurship & Advanced course in Entrepreneurship, Chemical Engineering Operations, Perspective of Society, Science & Technology,

Separation Processes in Chemical Engineering

RESEARCH INTERESTS :

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

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

Guided Students: Ph.D. 36, Masters: 69; PDF:07

Total Research Publications- National: 03, International: 157 (Google Scholar), Patents: 5 granted, H-Index:28, Citations: 2893, i10-index: 62

AWARDS:

- Zayed Sustainability Award, UAE's pioneering global Award, 2021 for startup

- Gunther Oertel Startup Innovation Award for Microbot 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 atADC-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 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.



PROF. PRAKASH D. VAIDYA, FMASC, FICS

B. E. (Chem. Engg.), M. Chem. Engg., Ph.D. (Tech.) in Chem. Engg.

Nodal Officer and RCF Professor of Chemical Engineering

SUBJECTS TAUGHT:

Chemical Reaction Engineering, Industrial & Engineering Chemistry, Environmental Engineering

RESEARCH INTERESTS:

Energy transition

(ICCU, H₂ Production, Biofuels)

Recognized Research Guide for: Ph.D. (Tech.) in Chem. Engg., Ph.D. (Tech.) in Green Tech., Ph.D. (Sci.) in Chemistry

Guided students: Ph.D. 24, Masters: 48

Total Research Publications - International: 115, H-Index: 33, Citations: 5000, Patents (granted in last 5 years): 03

AWARDS:

Manmohan Sharma Science & Technology Award (2022)
SHV Energy Sustainable Fuels Open Innovation Challenge Winner (2022)
Dr. Naresh J. Suchak Innovation Award (2021)

DR. MANISH YADAV

B. Chem. Eng., M. Chem. Eng., Ph.D. (Tech.) in Chemical Engineering

Assistant Professor of Chemical Engineering

SUBJECTS TAUGHT:

Transport Phenomena, Chemical Engineering Laboratory

RESEARCH INTERESTS:

Chemical Reaction Engineering, Nanotechnology, Crystallization

Recognized Research guide for M.Chem. Engg., PhD (Tech) in Chem. Engg.

TOTAL RESEARCH PUBLICATIONS:

National: 01, International: 18

Citation: 266; H-Index: 10





PROFESSOR ASHWIN W. PATWARDHAN

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

Professor of Chemical Engineering

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
Guided students:

Recognized Research Guide for Ph. D. (Tech.) as well as Ph. D. (Sci.)

Guided students: Ph.D.26, Masters: 51

Total Research Publications- International: 126 Total Citations = 2300; H-Index = 27

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.

DR. PARAG R. NEMADE

B. Chem. Eng., M. S. and Ph.D. (University of Colorado)

Deputy Director, ICT, Marathwada Campus, Jalna, and Associate Professor, Department of Chemical Engineering



SUBJECTS TAUGHT:

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

RESEARCH INTERESTS:

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

Recognized Research guide for : PhD. (Tech) in Chemical Engineering, Oils, Oleochemicals and Surfactant Technology, Ph.D. (Sci) in Chemistry

Guided students: Ph.D.: 05, Masters: 32 Ongoing PhD: 08, Masters: 02

TOTAL RESEARCH PUBLICATIONS: National: 01, International: 27

Patents applied: 03 Patents granted: 05

H-Index: 15 (Scopus); 16 (Google Scholar),

Citations: 1000 (Scopus); 1205 (Google Scholar)

AWARDS:

- 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. C.S. MATHAPATI

B.Chem.Engg., M.Chem.Engg., Ph.D (Tech)

Associate Professor of Chemical Engineering, Warden Hostel - 1

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

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, 12; Masters: 23

TOTAL RESEARCH PUBLICATIONS: International: 56



PROFESSOR A. M. LALI

B. Chem., M. Chem., Ph.D. (Tech.) (Chem. Eng.)

**Professor of Chemical Engineering,
Head, DBT-ICT-Centre for Energy Biosciences**

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; Ongoing 27, Masters: Guided: 72; Ongoing 5

Total Research Publications- National: Nil, International: 72

Patents (granted in last 5 years): 23 (International) and 3 (National)

Filled: 106 International 47 (National)





PADMASHRI PROFESSOR GANAPATI D. YADAV

B. Chem. Eng.(Mumbai, 1974). Ph.D. (Tech.) (1980), N.A.E. (US), F.N.A.I. (US), F.T.W.A.S., F.N.A., F.N.A.Sc., FASc, FNAE, Ch.E., F.I.Chem.E.(UK), F.M.A.Sc., F.I.I.Ch.E., F.I.C.S. F.R.S.C. (UK), F.I.S.T.E, F.B.R.S.I.

National Science Chair (SERB/Govt. of India) & Emeritus Professor of Eminence

Former R. T. Mody Distinguished Professor & Former Tata Chemicals Darbari Seth Distinguished Professor of Leadership & Innovation and Former Vice Chancellor

Former Jagdish Chandra Bose National Fellow (DST-GOI)

Adjunct Professor, RMIT University, Australia, University of Saskatchewan, Canada,

Conjoint Professor, University of New Castle, Australia, Distinguished Adjunct Professor , IIT Guwahati, Distinguished Visiting Professor, SOA University, Bhubaneswar

SUBJECTS TAUGHT: Fundamentals of Green Chemistry and Technology

RESEARCH INTERESTS: Green Chemistry and Engineering, Catalysis, Chemical Engineering, Energy Engineering, Biotechnology, Nanotechnology, and Development of Clean and Green Technologies, Net zero goal, green hydrogen production technology, carbon dioxide refineries and valorization of (waste) biomass and waste plastics

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

Guided students: Ph.D. 108; Ongoing: 8; Masters: 142; Ongoing: 13; PDF:48, ongoing 3

Total Research Publications: National: 525, International: 505

Impact Factor per publication: 4.693;

h-Index: 68; i10 Index: 338, Citations: 16700

Patents: 121

NATIONAL AND INTERNATIONAL AWARDS:

- Fellow of Several National and International Organizations,
- Awarded PADMASHRI by the Government of India on 28th March 2016. Only second Indian to be elected as Fellow of US National Academy of Inventors (2022), and one among 21 Indians Elected to the US National Academy of Engineering



PADMASHRI PROFESSOR GANAPATI D. YADAV

B.Chem.Eng. (Mumbai, 1971), M.Chem.Eng. (Mumbai, 1972), Ph.D. (Tech.) (Mumbai, 1977), FNA, FTWAS, FASc, FNAE, FMASc,

Foreign Member US National Academic of Engineering

Distinguished Emeritus Professor, Homi Bhabha National Institute; Emeritus Professor of Eminence Institute of Chemical Technology.

SUBJECTS TAUGHT: Fluid Mechanics, Multiphase Reactor Design

RESEARCH INTERESTS: Fluid Mechanics, Multiphase Reactor Design, Computational Fluid Dynamics, Atomic Energy, Solar Energy, Bio-Energy

Recognized Research Guide for: Ph.D. (Tech.) in Chemical Engineering, Nuclear Engineering, Ph.D. (Science)

Guided students: Ph.D. 91, Masters: 60

Post-Doctoral: 25

Total Research Publications - National: 40, International: 628, Current

Students: PhD: 10, Masters: Nil, Post-Doctoral: 4, Citations: 26,547

(according to Google Scholar), H-index: 80 (according to Scopus)

NATIONAL AND INTERNATIONAL AWARDS:

- Padma Bhushan (Govt. of India, 2014), Shantiswarup Bhatnagar Prize (Engineering Sciences, 1991),
- Eminent Engineer Award (Engineering counsel of India, 2018),
- Emeritus Professor of Eminence (Institute of Chemical Technology, 2019).



Department of SPECIALITY CHEMICALS TECHNOLOGY



PROF. N. SEKAR

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

Professor of Tinctorial Chemistry

Head of the Department



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 Speciality Chemical Technology, Green

Technology, Ph. D. (Science) in Chemistry, Ph.D in Textile Chemistry

Guided students: Ph.D. 42, Masters: 24

TOTAL RESEARCH PUBLICATIONS : National : 16 International: 324

Cumulative impact factor: 205, **H-Index:** 29, **Citations:** 3873

Patents (granted in last 5 years): 07

AWARDS:

- Fellow of Society of Dyers and Colourists, (UK)
- Fellow of Indian Chemical Society
- Fellow of Maharashtra Academy of Sciences

PROF. GANAPATI SUBRAY SHANKARLING

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

**Professor of Speciality Chemical Technology,
Co-ordinator, Perfumery and Flavor Technology**

SUBJECTS TAUGHT:

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; 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 Speciality Chemical 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: 147

H-Index: 25, Citation : 2565

Patents (granted in last 5 years) : 20





Dr. SURAJIT SOME
Ph.D (IIT-Kharagpur)
UGC-FRP Assistant Professor

of benzene intermediate-I, Experimental Dyeing, Preparation of Intermediates, Preparation of Dyes, Statistical Design of Experiments, Analysis of Intermediates and Dyes and Fibers.

RESEARCH INTERESTS:

Design and Synthesis of graphene derivatives and their applications; Flame retardants, Energy storage materials, Bio-probes, Waste stream treatment, Advanced catalysts, Semiconductor materials, Anticancer materials, Sensors and Surfactants.

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

Guided students: Ph.D.: 3 (Ongoing: 04), Masters: 01 (Ongoing: 04), Postdoc: 04
Total Research Publications- International: 52

Cumulative impact factor: 250.92 (5.018 per publication), **H-Index:** 23, **Citation:** 1955 (37.6 per publication), **Patents (granted in last 5 years):** 19

SUBJECTS TAUGHT:

M.Tech Course: Mechanism of Organic Reactions, Specialty Chemicals Chemistry and Technology, Organic Materials for Electronics. B.Tech Course: 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

AWARDS:

- Research Professor Award 2020 from POSTECH, South Korea.
- Research Professor Award 2020 from GIST, South Korea.
- Research Fellow Award 2013 from National Research Foundation (NRF), South Korea.
- Best Researcher Award 2012, Sungkyunkwan University, South Korea.
- Fellowship of Creative Research Initiative (CRI) 2011, South Korea.
- Fellowship of National Research Foundation (NRF) 2009, South Korea.
- Fellowship of Postdoctoral Research Program of Sungkyunkwan University 2009, South Korea.
- Dr. D. S. Kothari Fellowship Award 2008.
- Qualified GRADUATE APTITUDE TEST IN ENGINEERING – 2004, with all India Rank 204.
- Qualified CSIR- NET for UGC fellowship and Lecturership in Chemical Sciences, Council of Scientific and Industrial Research, New Delhi, held in June 2003.

Dr. SATYAJIT SAHA
Ph.D. (Chemistry)
UGC-Assistant Professor

SUBJECTS TAUGHT:

Crop Protecting Chemicals, Advances in Colorants, Introduction to Green Chemistry, Analytical Chemistry and Quality Control Techniques, Azo colorants, Heterocyclic intermediates in colorants, Reaction Mechanism and Reagent Chemistry, Chromatographic Techniques and Preparation of dyes and intermediates, Analysis of inorganic raw materials used in Speciality Chemical industry, Chemistry and Technology of Pigments, Preparation, analysis of dyes, intermediates, optical brighteners and functional colorants, Chemistry and Technology of Benzene Intermediates-I and II, Experimental Dyeing

RESEARCH INTERESTS:

Organocatalytic transformations to synthesize bioactive molecules and molecules of industrial relevance, Enantioselective organocatalytic transformations, Molecular engineering via supramolecular non-covalent interactions to design AIE-active molecules for applications

in sensing, imaging, and optoelectronics, Development of covalent organic polymers (COPs) for environmental remediation, gas storage, sensing, and catalysis, Diversity oriented synthesis of annelated N-heterocycles, Synthesis of organic sensitizers for Dye Sensitized Solar Cell applications and luminescent molecules for Organic Light Emitting Diodes, etc, Green chemistry and implementation of sustainable technologies in the synthesis of specialty molecules, Synthesis and development of novel molecules for fragrance and flavor industry.

Recognized Research Guide for: Science (Chemistry)

Guided students: Ph.D. : 1, Masters : 2

TOTAL RESEARCH

PUBLICATIONS: International: 25, H-Index: 12; Citations data: 801

AWARDS:

- Fellow of the Indian Chemical



Society-2020

- Life Member of Chemical Research Society of India (CRSI)-2020
- Editorial Board Member of Current Organocatalysis, Bentham Science (2020-2022)
- Research Excellence Award from Indian Chemical Society-2020
- ACS Journal award-2020
- SERB Young Scientist Research grant- 2015
- FWO Visiting Postdoctoral Fellowship from Belgium, 2011



Dr. NABANITA SADHUKHAN

Ph.D.

UGC-FRP Assistant Professor

SUBJECTS TAUGHT:

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

RESEARCH INTERESTS:

Synthesis functional amphiphilics 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

AWARDS:

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

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. RAVINDRA D. KALE

Ph.D. (Tech.)

Professor of Textiles Chemistry

Head of the Department

PROF. RAVINDRA D. KALE

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

Professor of Textiles Chemistry

Head of the Department



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

Guided students: Ph.D.: 6, Masters: 37

TOTAL RESEARCH PUBLICATIONS: 75

National: 08 International: 66

H-Index: 1 Citations: 497, ilo-index-24

Patents (Filed in last 5 years): 3 Granted (1), 02(Filled)



PROF. (Dr.) RAVINDRA V. ADIVAREKAR

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

Professor in Fibres Chemistry and

Dean HRD

SUBJECTS TAUGHT:

Technology of Textile Dyeing, Technology of Fibres, Technology of Textile Dyeing, Technology of Textile Printing, Experimental Dyeing (Lab), Evaluation of dyes and speciality chemicals, Theory of Textile Coloration, Experiments in Printing, Chemistry of Natural Fibers, Dyeing of Natural Fibers, Dyeing of Man-made Fibers, Printing of Textiles, Printing (Lab)

RESEARCH INTERESTS:

Natural Dyes and Mordants; Fibre Modification; Regeneration of protein and its applications; Respiratory filtration; Extraction of lignin and its applications; Nanocellulose; Superabsorbent; Dyeing and Printing of Textile; Mass Production and extraction of Microbial Enzymes and Colourants for Textile Processing; Medical Textile; Colour fastness of Textile Materials; Detergency of Textiles, Ionic liquids, and Dendrimers for Textiles, Flame Retardancy of Textile, Graphene Nanotechnology, etc.

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. : 23, Masters: 55

TOTAL RESEARCH PUBLICATIONS: 224

National: 102 **International:** 74, **H-Index:** 20 **Citations :** 1212,

Patents: 01 (Granted), 02 (filed) ilo Index =41



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

SUBJECTS TAUGHT:

Textile wet processing machinery, Continuous processing of textiles Technology of pre-treatments, Garment Processing, Evaluation of performance textile.

RESEARCH INTERESTS:

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

TOTAL RESEARCH PUBLICATIONS:

National :04 International : 10
h-Index: 03; Citations: 127

PROF. (Dr.) ASHOK R ATHALYE
B.Sc., B.Sc. (Tech.), M. Sc. (Tech.), Ph. D. (Tech)
Professor in Textile Chemistry
VP - Technological Association and
Dean – Student Affairs

Subjects Taught:

Technology of Finishing, Sustainable textile processing, Theory of Textile Colouration, Wet Processing of Textiles, Laboratory Management Systems, Advanced Textile Processing, Finishing and Evaluation of Textiles, Advanced Textile Materials Environmental Aspects in Textile Processing

Research interests:

Sustainable textile processing, Automotive Textiles, Recycling and Upcycling of Textile Waste Material, Agro Textile, Reducing Water Carbon Footprint.

TOTAL RESEARCH PUBLICATIONS: 110

National: 75 International: 35
h-Index: 16; i10 index: 14,
Citations: 426





Dr. SANDEEP MORE
B.Sc., M.Sc. (Organic Chemistry), Ph.D.
Assistant Professor

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.: 0, Masters: 29

TOTAL RESEARCH PUBLICATIONS: 18

National : 2, International : 20

H-Index : 11, Citations : 479

AWARDS:

DST INSPIRE Faculty Award
 Early Career Research Award

DR. SANTOSH SHIVAJI BIRANJE
B.Text., M.Tech., Ph.D. (Tech)
Assistant Professor



SUBJECTS TAUGHT

Pretreatment, Technology of Textile Polymer, Technical Textiles, Advanced Textile Materials, Research Methodology, Advanced Textile Characterization (LAB), Dyeing of Natural Fibres (LAB), Dyeing of Manmade Fibres (LAB), Techniques Experiments in Printing (LAB)

RESEARCH INTERESTS:

Sustainable textile wet processing, Fibre Science, Extraction and modification of biopolymers, Electrospinning of biopolymers, Biocomposites (thin films, hydrogels, and aerogels) based on nanocellulose and polysaccharides for potential tissue engineering and wound healing, 3D Printing.

TOTAL RESEARCH PUBLICATIONS: 20

National: 03 International: 17

Conference Proceedings: 01 Book chapters: 02

Citations: 277 h-index: 09, i10-index: 09

DR. SAPTARSHI MAITI

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

Assistant Professor

SUBJECTS TAUGHT

Technology of Yarn & Fabric Manufacturing,
Testing of Textile Materials, Technology of
Finishing, Analysis of Textile Chemicals and Fibres
(LAB), Finishing & Evaluation of Textiles (LAB),
Wet Processing of Textiles (LAB), Evaluation of
Dyes & Speciality Chemicals (LAB).



Department of FOOD ENGINEERING AND TECHNOLOGY



PROF. REKHA S. SINGHAL

Ph.D (Tech) (Food Technology)

Professor of Food Technology

Head of the Department





PROF. REKHA S. SINGHAL

Ph.D. (Tech) (Food Technology)

Professor of Food Technology

Head of the Department

SUBJECTS TAUGHT:

Food Additives and Ingredients, Principles of Food Analysis, Technology of Dairy, Animal and Plantation Products, 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. 42, Masters: 110

TOTAL RESEARCH PUBLICATIONS:

National: 44, **International:** 385+

H-index as per scopus/google scholar: 59/75;

Citations as per scopus/google scholar: 15,649/24,569

AWARDS:

- Young Scientist Award, Association of Food Scientists and Technologists (I), Mysore, for the year 1995;
- Fellowship, Maharashtra Academy of Sciences for significant contributions to Engineering Sciences and Technology for the year 2007;
- Fellowship, Association of Food Scientists and Technologists (I), Mysore, for the year 2009.
- 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.
- Recipient of the Best Teacher Award (Professor D.V. Rege-AFST Mumbai Chapter-2011 Endowment) 2016-17, 2018-19 and 2020-21
- 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.
- Fellow, Indian National Science Academy, 2022
- Distinguished Alumnus Award, UDCT Alumni Association, 2021.



PROF. UDAY S. ANNAPURE
B. Tech., M.Sc. (Tech.), Ph.D. (Tech.)
Professor of Food Chemistry
Director, ICT - MARJ (on deputation)

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: 18, Masters: 83

TOTAL RESEARCH PUBLICATIONS:

National: 10, International: 161, Patents: 2

H-Index: 33 (Scopus); 37 (Google Scholar),

Citations: 3685 (Scopus); 5067 (Google Scholar)

AWARDS:

Sri Somalal Vyas – SEA Innovation Award (2022)

Recipient of “UGC-BSR Mid-Career Award Grant” (2021)

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
Coordinator, Food Biotechnology

SUBJECTS TAUGHT :

Chemistry of Food Constituents; Nutrition; Food Packaging; Food Biotechnology; Nutraceuticals and Functional Foods; Basics of Human Nutrition, Advances in Nutrition; Food Packaging Science and Technology.

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. 15+, 2 as co-guide (awarded), 2 (ongoing), Masters: 84 (completed) 3 (ongoing)

TOTAL RESEARCH PUBLICATIONS:

National: 02, International: 62, Book Chapters: 2, Book: 1

AWARDS:

"Dupont NutriScholar Award" Most Nutritious Food Idea 2017





Dr. SHALINI S. ARYA

B. Tech, M. Tech., PhD (Food Engineering and Technology)

Associate Professor of Food Technology

SUBJECTS TAUGHT :

Chemistry of Food Constituents, Nutrition, Advances in Nutrition, Waste utilisation, Technology of Cereals, Legumes, Pulses and Oilseeds, Technology of Plantation Crops, Technology of Fruits and Vegetables and Tubers, Basics of Food Science and Technology, Biotechnology of fermented foods, Technical Analysis I and II(P), Food Microbiology (P), Food Chemistry (P), Food Analysis (P), Food Processing I and II (P)

RESEARCH INTERESTS :

Cavitation for food processing and preservation, vegan meat alternatives, vegan dairy alternatives, plant based nutraceuticals, bioactives, novel green extraction techniques, 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, Indian Flat Breads, 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, 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: PhD: Awarded: 6, Ongoing – 4 ; Masters: 50

Total Research Publications:

National: 14,

International: 100

H-index as per Scopus/google scholar- 28/22;

Citations as per Scopus/google scholar: 1662/2703

AWARDS:

- Executive committee, GYA (2022-23); (2020-21)
- Member, Global Young Academy, (2018- 2024)
- Member, Indian National Young Academy (INIAS), INSA
- Member, Task Force, Mission Millet, Ministry of Family welfare and health (2023-24)
- TWAS-Focal person, TWAS, Italy (2023-24)
- Member, OWSD, Italy
- CNPq-TWAS post Doctoral Fellowship (2019)
- 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)
- Young Scientist Award, Starch Update, 2007

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: 1 (awarded)+ 8 (ongoing), Masters: 14

TOTAL RESEARCH PUBLICATIONS:

National: 01, International: 64, h-Index: 19, Citations: 1229

AWARDS:

AFSTI Young Scientist Award 2021

Best PhD thesis in Agricultural Engineering by ICAR, 2017.

DAAD Fellowship under Re-invitation program of former DAAD scholarship holders 2018;

Recipient of the Best Teacher Award (Professor D.V. Rege–AFST Mumbai Chapter–2011 Endowment) 2017-18 and 2019-20.



DR JYOTI SONTAKKE- GOKHALE

UGC Assistant Professor

Programme Coordinator, M. Tech. in Food Biotechnology

SUBJECTS TAUGHT:

Nutrition; Waste Management in Food Processing; Food Biotechnology; Design and Analysis of Experiments; Biotechnology of Fermented Foods; Bioprocess Engineering and Technology; Nutraceuticals and Functional Foods; Enzymes in Food and Feed Industry; Technical Analysis Lab; Biochemistry lab; Microbiology Lab; Food Analysis Lab II; Food Biotechnology Lab

RESEARCH INTERESTS:

Enzymes in Food Processing; Biocatalysis; Extraction; Waste management; Fermentation Technology; Green Technology; Nutraceuticals and functional foods; Plant-based foods

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

Guided students: Ph.D.: 4 (ongoing), Masters: 15 (Completed) and 8 (ongoing)

Total Research Publications:

International: 15 Book chapters 7

H-Index: 9; Citations: 223



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 and Edible Oil Processing, Processing of Oils, Fats and Waxes, Processing of Oleochemicals and Cosmetics, Processing of Soaps, Surfactants and Detergents and Triboapplications laboratory, Functional Fluids and Performance Chemicals, Byproducts Utilization and Waste Management

RESEARCH INTERESTS:

Tribo applications of oils and fats, Surfactants, Additives & specialty products, structural modifications of oils, fats and fatty acids, microbial Biosurfactants

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

Guided students: Ph.D.: 17, Masters: 86;

Ongoing students: Ph. D. 14, Masters 12

Total Research Publications: 96

National: 18; International: 78, H-Index: 16, Citations: 768

Patent : 01

PROFESSOR (DR.) R. D. KULKARNI

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

Professor of Oil Technology

Vice Chancellor, Mumbai University

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 (completed): Ph.D.: 15, Masters: 60

Ongoing students: Ph.D.: 07, Masters: 06

Total Research Publications : 77

National: 20, International: 57

Google Scholar: (H-Index 19, Citations: 1,325, I10 Index: 32

Scopus: (H-Index 16, Citations: 800, I10 Index: 22

Patents (granted): 3

Books and monographs: 07 (International: 04 ; National: 03)





PROFESSOR (DR.) J. S. WAGHMARE

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

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: 45

Total Research Publications-

National: 05, International: 85

Patents : 02

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; Technology of Oleochemicals; Chemistry of Oils, Lipids, Essential oils and their applications; Cosmetics Science; Microbiology and Biochemistry Lab; Technology and Science of Essential Oils.

RESEARCH INTERESTS:

Processing of Oleochemicals, Biolubricants, Enzymatic applications, Supercritical fluids processing, Essential Oils, Cosmeceuticals, Bio-Surfactants, Green catalysis.

Recognized Research Guide for: PhD (Tech) in Oils, Oleochemicals and Surfactants Technology

Guided students: PhD 01; Masters 16

Ongoing students: PhD 01; Masters 10

Total Research Publications: 23

National: 03, International: 20

Citations-415, H Index- 7

AWARDS:

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

2. 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. PINTU K. KUNDU

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

UGC -FRP Assistant Professor

SUBJECTS TAUGHT:

Chemistry of Oils and Fatty Acids; Supramolecular Chemistry of Nanomaterials; Chemistry of Perfumery Chemicals; Structural Elucidations by Advanced Spectroscopy; Technology of Perfumery Chemicals.

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) in Chemistry

Guided students: Ph. D: 3 (ongoing),

Masters: 6 (ongoing). B . Tech: 2 (ongoing)

TOTAL RESEARCH PUBLICATIONS:

International: 17, H-Index: 11; Citations: 1011

RESEARCH PROJECTS (GOVT. AND PRIVATE INDUSTRY SPONSORED) AND AWARDS:

Core Research Grant (CRG) by Science and Engineering

Research Board (SERB) (status - ongoing)

Early Career Research Award (ECRA) by Science and Engineering

Research Board (SERB) (status - completed)

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





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. FMAS, FICS

Professor of Pharmaceutical Chemistry

Head of the Department

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. Pharm.

Ph. D. (Sci.), Ph. D. (Tech.)

TOTAL RESEARCH PUBLICATIONS:

International : 12

Patents: 31

H-Index : 6 Citations: 121

SUBJECTS TAUGHT:

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

RESEARCH INTEREST:

Synthesis of Natural Products of

AWARDS

1. Vividhlaxi Audyogik Samshodhan Vikas Kendra (VASVIK) Award 2019 (May 2022)
2. Best Paper Award in Review Article Category by IDMA (2020-21)(April 2022)
3. Fellow of Maharashtra Academy of Sciences (2021)
4. Life Fellow, Indian Chemical Society (2022)

PROF. P. D. AMIN

B. Pharm. (Mumbai, 1982), M. Pharm. (Mumbai, 1984),

Ph.D. (Tech.) (Mumbai, 1988)

Professor of Pharmacy



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 (R and D), 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

Guided students: Ph.D. 27; Masters: 64;

Patents : Granted - 4

TOTAL RESEARCH PUBLICATIONS:

National: 5, International: 51

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

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. Recent fields of green chemistry like flow chemistry and electrochemistry for efficient and pollution free organic transformation useful in drug synthesis.

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

Guided students: Ph.D.: 07, Masters: 20

TOTAL RESEARCH PUBLICATIONS-

International 43 Citations 708 and H-index 18

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

AWARDS:

Best Teacher award by B Pharm ICT, Mumbai, 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 novel molecules using Computer Aided Drug Design/ Molecular modelling. Synthesis of designed novel molecules by conventional or novel routes and evaluation of synthesized molecules for pharmacological activity. Process chemistry and methodology development using green and enzyme catalyst. Impurity synthesis and evaluation for activity.

Recognized Research Guide for: Pharmaceutical Chemistry, PhD (Sci.) in Chemistry and Biochemistry.

Guided students: Ph.D. : 02, Masters: 15

TOTAL RESEARCH PUBLICATIONS-

International: 34

Citations: 656, H-Index- 16

AWARDS:

Best Teacher award by B Pharm ICT, Mumbai, Awarded with UGC SAP for Doctoral Programme Mentor for winner team of Smart India Hackathon 2022



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

RESEARCH INTERESTS:

Drug design including ligand, structure and fragment based drug design. Synthesis of focused libraries of potential bioactive molecules for infectious 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), Ph.D.(Biotech), Guided students: Ph.D.: 32, Masters: 80

TOTAL RESEARCH PUBLICATIONS-

National: 7, International: 89

H-Index: 24, Citations: 1525

SUBJECT TAUGHT:

B.Pharm, B.Tech Pharm, M.Pharm
 (Pharmaceutical Chemistry, Medicinal Chemistry, Rational Drug Design, Organic Chemistry and Spectroscopy)

AWARDS:

1. Fellow of Maharashtra Academy of Sciences
2. Best Teacher Award of ICT (2012-13, 2014-15)
3. Gharda award 2008-2009 for research publications.
4. Distinguished Alumni Award conferred by C. U. Shah College of Pharmacy, 2007 Mumbai

DR. NITIN D. AROTE

B. Sc. (Pune, 1997), B. Sc. (Tech.) (Mumbai, 2000), M. Sc. (Tech.) (Mumbai, 2003), Ph. D. (Tech.) (Mumbai, 2007).

Associate Professor in Pharmaceutical Technology.



SUBJECT TAUGHT:

Drug Synthesis Approaches, Pharmaceutical Organic Chemistry Pharmaceutical Analysis and Green Chemistry, Advanced Pharmaceutical Technology, Pharmaceutical Organic chemistry, Research Methodology

RESEARCH INTEREST:

Process Chemistry, API Polymorphism Invention of new reactions and reaction and application in synthesis of bioactive molecules, process development. Development of synthetic route for the API, agrochemicals and fine chemicals and intermediates.

Recognized Research guide for M.Tech., M. Pharm. Ph. D. (Sci.), Ph. D. (Tech.)

Guided Students: Ongoing Ph.D: 2, Ongoing M.Tech(Pharma): 6

TOTAL RESEARCH PUBLICATIONS-

International: 4 Citations 152 and H-index 5

Patents: 8



Dr. PRAJAKTA DANDEKAR JAIN

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

UGC FRP Assistant Professor of Engineering Sciences
Coordinator, M.Tech. Pharmaceutical Biotechnology

Total Research Publications

National: 01, International: 110, Citations: 2252, H-Index: 25

AWARDS:

1. "Swami Vivekanand Yuva Puraskar 2023" by RSS Jankalyan Samiti, Maharashtra Branch, Pune, for work related to 3D cell culture and organ-on-chip technologies, January 2023
2. "Unch Maza Zoka" Award for Women Achievers by ZEE Entertainment Enterprises Ltd, Mumbai, for work related to 3D cell culture and organ-on-chip technologies, August 2022
3. Savitribai Phule Stree Gaurav Puraskar by Maharashtra Seva Sangha, Mulund, Mumbai, for work related to organ-on-chip technology, April 2021
4. N. R. Kamath Book Award for book entitled 'Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis', AAPS Advances in the Pharmaceutical Sciences Series, Springer, September 2020
5. M.V. Deshpande Young Scientist Award at the 11th Asia Pacific Chitin and Chitosan Symposium, October 2016
6. 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, July 2014
7. DAE Young Scientist Research Award, 2012
8. Young Associate of Maharashtra Academy of Sciences for the contribution and Engineering and Technology, 2012
9. Ramanujan Fellowship, DST, 2012 Fellowship, DST, 2012

SUBJECTS TAUGHT

Pharmaceutical Biotechnology, Drug Store management

RESEARCH INTERESTS

3D Cell Culture, Electrospun Nanofibers and Tissue Engineering; High-throughput cellular models for toxicity, efficacy and bioassays; Bioprinting; Green Biotechnology and Green Chemistry

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.: 10, Masters: 34



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 Products

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. 21, Masters: 77

Patents : 12

TOTAL RESEARCH PUBLICATIONS-

National: 72, International: 04,
Citations : 958, H-index : 17

PROF. VANDANA. B. PATRAVALE

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

Professor of Pharmaceutics

SUBJECTS TAUGHT:

Cosmeticology, Advanced Pharmaceutics, Targeted Drug Delivery systems, Pharmaceutics VI, Validation and regulatory affairs, Industrial Pharmacy Laboratory, Novel drug delivery systems.

RESEARCH INTERESTS:

Novel nanocarriers for cosmeceuticals and other pertinent areas of national relevance with major emphasis on malaria, cancer and neurodegenerative disorders.

Specific research interest include

1. Nanotechnology based drug and gene delivery systems (lipid, polymeric, micellar nanocarriers, nanosuspensions, micro/nanoemulsions and self-micro/nano emulsifying systems) for bioavailability enhancement and/or targeting.
2. Vaccines and adjuvants
3. Nanodiagnosics,
4. Tissue engineering and scaffolds
5. Medical devices viz. coronary stents, intrauterine devices etc.
6. Novel carriers for solubilization and formulation development thereof
7. New polymer and lipid conjugates, surfactant synthesis
8. Exploring potential of indigenous excipients
9. Modified release dosage forms for all routes of administration

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

Guided students: Ph.D.: 30, Masters: 74

Total Research Publications:

National: 11, International: 109, H-index: 53, Citations: 11047

Patents (granted in last 5 years): 17

AWARDS:(last 5 years):

- Top Most Healthcare Leaders (Global) organized by World Health and Wellness congress award (2023)
- Top Most Healthcare Leaders (Global) organized by World Health and Wellness congress award (2022)
- Ranked as the top 2% most-cited scientists in a list published

by Stanford University (2022)

- Abdul Kalam National Innovation Fellowship from Indian National Academy of Engineering (INAE) (2021)
- Independent Director, Sahajanand Medical Technologies Pvt. Ltd., Gujarat, India (2021)
- Gandhian Young Technological Innovation (GYTI) Award (2020)
- Kukreja Oration Award by the India Section of International Academy of Cardiovascular Sciences (2020)
- Dr. Manjushree Pal Memorial Award for the best Pharmaceutical Scientist-2019 (2019)
- Prof. Indira Parikh 50 women in education leaders award by 7th World Education Congress (2018)
- Shri Amrut Mody Distinguished Researcher Award by Indian Pharmaceutical Association Maharashtra State Branch's Amrut Mody Research Fund Committee (2018)
- UGC-BSR Mid Career Award Grant 2018 by University Grants Commission
- Gandhian Young Technological Innovation (GYTI) award 2018 under category MLM (More from less for Many) by BIRAC-SRISHTI (2018)
- Gandhian Young Technological Innovation (GYTI) award 2018 under category Socially Relevant Innovation by BIRAC-SRISHTI (2018)



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. : 19, Masters: 60

TOTAL RESEARCH PUBLICATIONS-

National: 27, International: 81

H-Index: 20, Citations: 1722

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)

Dean, Internal Quality Assurance (IQA)

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. 14, Masters: 44

TOTAL RESEARCH PUBLICATIONS-

International: 72

Citations : 1092, H-index : 18

PROF. P. R. VAVIA

B. Pharm., M.Pharm., Ph.D. (Tech), FIPA, FMASc

Director ICTM-IOCB Campus on deputation 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



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 FICS

B. Pharm. (Pune, 1998),

M. Pharm. Sci. (Pharmaceutical Chemistry) (Mumbai, 2000),

Ph. D. (Tech.) (Pharmaceutical Chemistry) (Mumbai, 2004)

Associate Dean - Academic Programmes, Coordinator - ICT NICE (Incubator Venture Centre), and Professor of Medicinal Chemistry



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: 38

Total Research Publications: International 69; National 04
H-Index: 19, Citations: 1278

Patents (Last five years):

International: Granted: 01 (US), Published: 07; Filed: 06
National: Published: 04, Filed: 06

AWARDS

- 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)
- Newton Bhabha Researcher Links Workshop 2019 (In collaboration with University of Birmingham, Birmingham, UK)
- Life Fellow, Indian Chemical Society (2022)



DR. SHIRISHKUMAR D. AMBAVADE

Associate Professor

Department: Pharmaceutical Sciences and Technology

Email Address: sd.ambavade@ictmumbai.edu.in

Phone [Mobile] 9421640269

Research Interest:

Pharmacological evaluation of drugs acting on the central nervous system specifically, for memory enhancement, anti-Alzheimer's, antiepileptics, antidepressants, and anti-anxiety. Evaluation of the role of HDAC in CNS diseases and their pharmacotherapy. Development and evaluation of herbal-originated drugs for the treatment of CNS diseases and disorders, Gastrointestinal diseases, diabetes, and anti-inflammatory activity. Courses Taught : Human anatomy and physiology, Pathophysiology, Pharmacology, Advance Pharmacology, Receptor Pharmacology, Molecular Pharmacology, Clinical Pharmacology, Research Methodology, Drug Regulatory Affairs, Pharmaceutical Jurisprudence, Clinical pharmacology and drug interactions, Topics in pharmacology.

Publications: 35

H index 14;

i10 index 14

Awards:

- Gold medal for Ph. D thesis by European Ayurvedic Academy, 2007.
- Outstanding Reviewer Award from Elsevier (Journal of Ethnopharmacology) 2018

PROF. PADMA V. DEVARAJAN

Ph. D (Tech) (Pharmaceutics)

Professor of Pharmacy

Dean (Research and Innovation)



SUBJECTS TAUGHT:

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

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.Pharm (Pharmaceutics), M.Tech Pharmaceutical Technology, M. Tech Pharmaceutical Biotechnology, PhD – Pharmaceutics, Pharmaceutical Technology, Biotechnology, Nanotechnology

Guided students: Ph.D. 54, Masters: 87, Total Research:141

Publications:

National: 5, International: 95, Citations: 3342, H-Index- 29

AWARDS:

- Fellow of the Indian Chemical Society- 2020
- Fellow of the Maharashtra Academy of Sciences, India – 2006
- UAA-ICT Distinguished Alumnus Award (Academics)-2021
- President of the Society for Pharmaceutical Dissolution Science, 2021
- “PANJABRAO DESHMUKH OUTSTANDING WOMAN SCIENTIST AWARD 2019” of the Indian Council of Agricultural Research (ICAR), July 2020.
- “OPPI SCIENTIST AWARD 2018” for contribution to research in Veterinary and human healthcare in infectious diseases & cancer, by Organization of Pharmaceutical Producers of India (OPPI), October 2018.
- 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 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, December 2017.
- 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. 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, by Institute of Chemical Technology, Mumbai. April 2016
- PROF. C.J. SHISHOO AWARD for Research in Pharmaceutical Sciences, conferred by the Association of Pharmaceutical Teachers of India (APTI), September 2013.



Department of **POLYMER AND SURFACE ENGINEERING**



PROF. SHASHANK T. MHASKE

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

Professor of Polymer Technology

Head of the Department



PROFESSOR (DR.) S. T. MHASKE

Ph.D. (Tech) (Polymer Technology)

Dean, Off-Campuses

Head of the Department

Professor of Polymer Technology

SUBJECTS TAUGHT:

Compounding and Polymer Processing, Evaluation and Characterization of Polymers, Polymer Processing & Technology, Nanotechnology and their Application, Polymer Blends and Alloys.

RESEARCH INTERESTS:

Utilization of Bioresources for Value-added Products, Sustainability and Circular Economy of Polymers, Ecological and Economical Product and Process Developments towards Commercialization, Rheology of Polymers.

Recognized Research Guide for:

M. Tech/ Ph. D (Tech) in Polymer Engineering & Technology,

M. Tech/ Ph.D (Tech) in Surface Coating Technology,

M. Tech/ Ph. D (Tech) in Green Technology,

Ph. D (Science) in Chemistry.

Guided Students:

Ph.D. (Tech.): Completed – 16, Ongoing - 13,

Ph.D. (Sc): Completed – 03, Ongoing - 5,

M. Tech.: Completed – 78, Ongoing – 15.

Total Research Publications:

International: 142 (Scopus),

Total Citations: 2447 (Scopus),

h-index: 25 (Scopus),

Patents: 06, European: 02 (Granted), Indian: 04 (Granted), 02 (Filed),

Book Chapters: 10 (RSC, CRC Press, Elsevier, Springer, etc.)

AWARDS:

- Fellow, Maharashtra Academy of Sciences. Govt. of Maharashtra.
- Auditor for auditing of Producers/Importers & Brand-owners (PIBOs) Plastic Waste Processors (PWP), Central Pollution Control Board (CPCB), Ministry of Environment, Forest and Climate Change, Govt. of India.
- Technical Expert, Plastic Waste Committee, Maharashtra Pollution Control Board (MPCB), Single Plastic Use, Environmental Ministry of Govt. of Maharashtra.
- Expert to Technical Advisory Committee (TAC) of LPG Equipment Research Centre (LERC) – Joint Venture of BPCL, IOCL and HPCL.
- Editor to Economic Times- “Polymer” Journal.
- Jury Member to Economic Times Award.
- National Award for Technology Innovation in “Green Polymeric Materials & Products” By Dept. of Chemicals and petrochemicals, Ministry of Chemicals and fertilizers. Govt. of India.
- Young Associate, of Maharashtra Academy of Sciences. Govt. of Maharashtra.
- Best Teacher Award, ICT (2015).

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, High Performance Coatings, Technology of Printing Inks, Specialty Plastics, Paint Processing and Characterization, Radiation Curable Coating, Environmentally Friendly Coatings, Additives for polymers, Specialty Polymers, Polyelectrolyte and ionomers

RESEARCH INTEREST:

Biopolymers for coatings, adhesives and biodegradable packaging films, Resins for Radiation curable coatings, 3D Printing, Microencapsulation, Controlled Radical Polymerization for Tailor-made Polymers, High temperature and corrosion resistant coating, Recycling of polymers from waste to wealth.

Recognized Research Guide for:

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

Guided Students:

Guided students: Ph.D.: 15, Masters: 120

Ongoing students: Ph.D.: 6, Masters: 10

Total Research Publications:

International: 58 (Scopus),
Total Citations: 714 (Scopus),
h-index: 17 (Scopus),
Patents: Granted 05, Applied 03

AWARDS:

- Member, FSSAI Scientific panel on Packaging



Dr. ANAGHA SHAMSUNDAR SABNIS

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

Associate Professor in Technology of Plastics and Paints

RESEARCH INTERESTS:

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

Recognized Research Guide for:

Ph.D. (Tech.) / M.Tech. in Polymer Engineering & Technology
Ph.D. (Tech.) / M.Tech. in Surface Coating Technology
Ph.D. (Science) in Chemistry

Guided Students:

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

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

Total Publications:

International: 55 (Scopus),
Total Citations: 1367 (Scopus),
h-index: 20 (Scopus),
Patents: Granted 02, Applied 01

AWARDS:

- Recipient of 8th National Awards for Technology Innovation in Petrochemical & Downstream Plastics Processing Industry (2017-18), Govt. of India (Second Rank)
- CRISP fellowship by Cherening (UK Govt.) and Rolls Royce.
- Super Achiever Award for Excellence in research in Polymers and Paint Technology, (WISE) (UNESCO)

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

Dr DIPAK V. PINJARI

B.Tech. M.Tech. Ph.D. (Tech) Chemical Engg

UGC Assistant Professor (Engineering Sciences) and DST Inspire Faculty

▼ Fellow

SUBJECTS TAUGHT:

Environment Health and Safety of Polymers and Coating, Structure Property relationship of polymers, High Polymer Chemistry, Introduction to Polymer Science, Advanced Characterization Laboratory of Polymers, Introduction to Nanotechnology, Environmental Sci. & Tech.

RESEARCH INTERESTS:

Cavitation Engineering and Technology, Fiber Science, Cellulose Chemistry and Application, Synthesis of Nanomaterials, Polymer Engineering and Technology, Surface Coating and Technology and Sustainable Developments

Recognized Research Guide for:

Ph.D. (Tech.) / M.Tech. in Polymer Engineering & Technology

Ph.D. (Tech.) / M.Tech. in Surface Coating Technology

Ph.D. (Tech.) in Chemical Engineering

Ph.D. (Science) in Chemistry

M.Tech in Perfumery and Flavours Technology

M.Tech in Bioprocess Technology

Guided Students:

Guided students: Ph.D.: 06, Masters: 15

Ongoing students: Ph.D.: 06, Masters: 10

Total Publications:

International: 100 (Scopus),

Total Citations: 4616 (Scopus),

h-index: 36 (Scopus),

Patents: Granted 01, Applied 06

AWARDS:

- Fellow, Maharashtra Academy of Science (2022)
- Guest Editor, Chemical Engineering and Processing: Process Intensification (Voices of Young Generation: Process Intensification), an Elsevier Journal.
- Member, the National Academy of Sciences, Allahabad, India (NASI) 2020 – till date
- Member, Early Career Advisory Board, Chemical Engineering and Processing: Process Intensification, an Elsevier Journal.
- Expert Member of the Department of Science and Technology (Multilateral Department) for the first SCO Young Scientist Conclave 2020 (to be organized in India). Shanghai Cooperation Organization (SCO) consists of 8 countries.



- SPS Young Scientist Award 2019 by Scientific Planet Society, Dehradun, India
- BRICS Young Scientist Award 2019 by Ministry of Science and Technology of BRICS Countries (Brazil, Russia, Indian, China and South Africa).
- Accolades from Qingdao International Academy Park (QIAP), Government of China for work in the area of Material Science and Chemical Engineering. the QIAP has requested to join the park in June 2019.
- Member, Global Young Academy, Germany (2019-2024)
- Awarded Infosys Social Innovation Award 2018-2019 by Infosys Foundation, Bengaluru, India.
- INAE Young Associate 2017 by the Indian National Academy of Engineers, New Delhi, India
- INAE Young Engineer Award 2016 by the Indian National Academy of Engineers, New Delhi, India
- Finalist, INSA Medal for Young Scientist 2015 and 2016
- Finalist, NASI Young Scientist Awards 2014 and 2015
- Awarded Fulbright OLF Award 2015 by OIE and CIES (State Departments, US Federal Government, Washington, USA)
- Awarded Young Engineers Award 2014-2015 by the Institution of Engineers (India)
- Awarded Wipro Earthian Award 2013 by Wipro foundation, Bangalore (India)
- Young Associate, Maharashtra Academy of Science (2013)
- Awarded M. P. Chary Memorial Award 2013 for research and technological contribution (below 35 years) by Indian Institute of Chemical Engineers (IChE), India.

Dr. A. R. RAO

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

Assistant Professor of Polymer Technology



SUBJECTS TAUGHT:

Technology of Thermoplastics Processing of Polymers, Polymer Composites and Post processing of polymers, Analysis and Characterization of polymers.

RESEARCH INTERESTS:

Biobased polymers, Biodegradable and biodegradation of Polymers, Polyurethane Resins, Polymer blends, Control Radical Polymerization, Anticorrosive coatings, Polymer Nanocomposites, Phase Change materials.

Recognized Research Guide for:

Ph.D. (Tech.) / M.Tech. in Polymer Engineering & Technology

Ph.D. (Tech.) / M.Tech. in Surface Coating Technology

Guided Students:

Guided students: Ph.D.: 0, Masters: 14

Ongoing students: Ph.D.: 02, Masters: 11

Total Publications:

International: 08 (Scopus),

Total Citations: 60 (Scopus),

h-index: 03 (Scopus)

AWARDS:

- Recipient of AICTE-RPS Research Grant



DR. A. P. MORE

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

Assistant Professor in Plastics and Paints

RESEARCH INTERESTS:

Nanoparticles, Anticorrosive coating, Layered Double Hydroxide, Bio-based Resin, Conductive polymers, Polymer composites.

Recognized Research Guide for:

Ph.D. (Tech.) / M.Tech. in Polymer Engineering & Technology

Ph.D. (Tech.) / M.Tech. in Surface Coating Technology

Guided Students:

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

Ongoing students: Ph.D.: 01, Masters: 16

Total Publications:

International: 30 (Scopus),

Total Citations: 240 (Scopus),

h-index: 09 (Scopus)

AWARDS:

- Technical paper award- Institute Category in Indian Paint Association (IPA) 2023 conference
- Open Innovation challenge – Application innovation for vestenamer in Evonik, 2022
- DST Inspire Fellowship Govt. of India.

SUBJECTS TAUGHT:

Polymer science and technology, High Polymer Chemistry, Identification of resins and polymers lab, Structure-property relationships in Polymers, Nanomaterials, Synthesis, and characterization of resin and polymers lab, Synthesis, processing and characterization of colorants lab, Analysis and testing of paints.



Department of CHEMISTRY

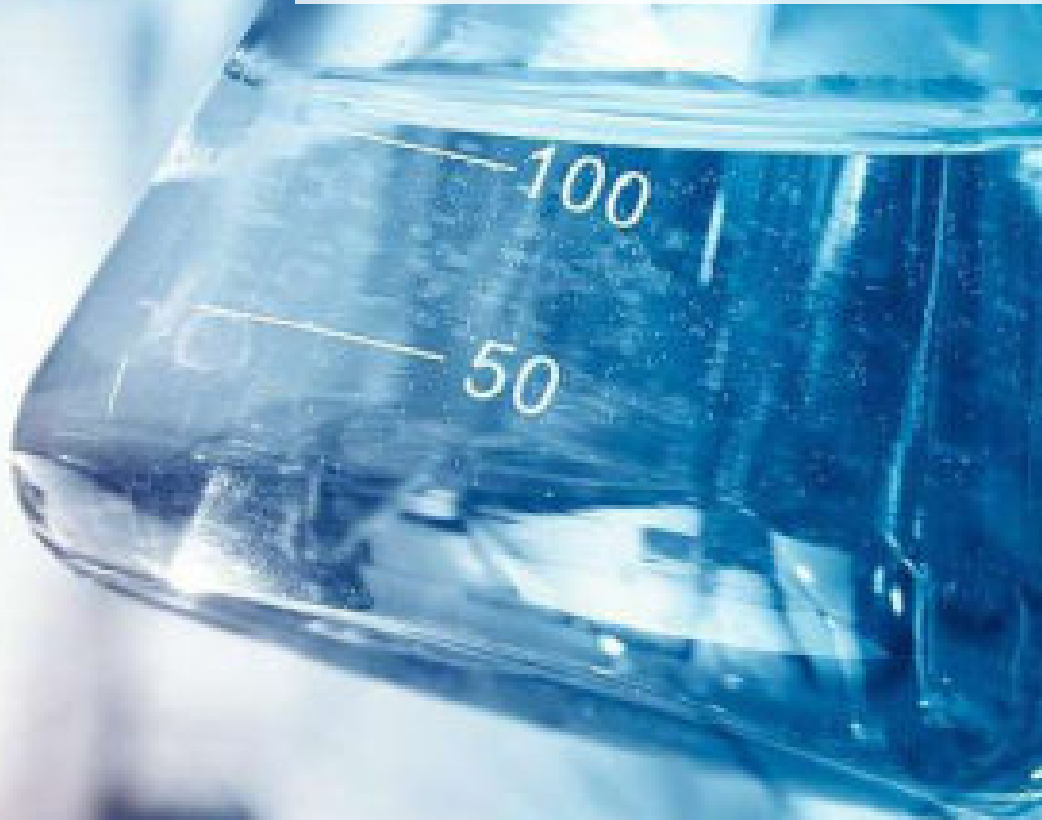


PROF. BHALCHANDRA M. BHANAGE

M.Sc, Ph.D. (FRSC, FMASc)

Professor of Industrial and Engineering Chemistry

Head of the Department





PROF. BHALCHANDRA M. BHANAGE

M.Sc, Ph.D. (FRSC, FMASc, FBRI, FICS)

Professor of Industrial and Engineering Chemistry
Head of the Department

Guided students: Ph.D. 50, Masters: M.Sc. 25; M.Tech. 21

TOTAL RESEARCH PUBLICATIONS:

National: 03, International: 431, Edited Books: 2; Book Chapters: 31

Citations: 17175; H-Index : 67

PATENTS : Granted: 29; Filed: 6

AWARDS:

- Fellow of the Royal Society of Chemistry, UK (FRSC)
- Fellow of the Biotech Research Society of India (FBRSI).
- Fellow of the Indian Chemical Society (FICS)
- Fellow of the Maharashtra Academy of Sciences (FMASc)
- Dr Sarojini Devi Memorial Award, by Higher Education Forum, 2018
- ISCMA Outstanding Professor Award by Indian Specialty Chemical Manufacturer Association for excellence in academic field for the year in 2016
- South Indian Education Society's "Best Teacher Award 2017-2018"
- ISCMA Outstanding Professor Award by Indian Specialty Chemical Manufacturer Association for excellence in academic field for the year in 2015
- Prof. M.M. Sharma Science and Technology Award (Rs 1 lakh and Citation) for contributions in research by Marathi Vidyan Parishad, 2014
- Bronze Medal for Contributions in Research by Chemical Research Society of India, 2012; RSC-PTG best paper award by Royal Society of Chemistry 2011

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.

Dr. VIJAY KUMAR A.

Ph.D.

Assistant Professor in Organic Chemistry



SUBJECTS TAUGHT:

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

RESEARCH INTERESTS:

Organic Synthesis, Biomimetic Organic Synthesis, Aerobic oxidation, Green Reagents Drugs and Natural products Synthesis, Catalysis for Total Synthesis, Valorization of Biomass related products, Supramolecular Chemistry/ Catalysis

Recognized Research Guide for: Chemistry

Guided students: Ph.D. 05; Masters: M.Sc. 16

TOTAL RESEARCH PUBLICATIONS:

International: 40, Book Chapters: 01

Citations: 1950; H-Index : 23

Patents: Granted: 01

AWARDS:

- M.Sc. Chemistry best Teacher Award, CMP Endowment (2019-2020, 2017-2018, 2015-2016, 2014-2015)
- B.Tech. Best Teacher Award (2015-16 & 2014-15)

- INSPIRE Faculty Award, Department of Science and Technology (DST) (2012)
- Postdoctoral Fellowship at Department of Chemistry, BenGurion, University of the Negev, Israel (2012)
- Sri Gopal Kishan Rao Vepachedu Memorial Best Senior Research Fellow Award in Organic Chemistry, Indian Institute of Chemical Technology, Hyderabad, India (2011)
- CSIR-UGC Research Fellowship Award (2006)

PROF. RADHA V. JAYARAM

M.Sc., Ph.D.

UGC BSR Professor

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. 28; Masters: M. Sc.: 31; M.Tech.: 17

TOTAL RESEARCH PUBLICATIONS:

International: 107, **Citations:** 3528; H-Index : 34

Book Chapters: 02, **Patents :** Granted: 01

AWARDS:

- UGC– BSR Faculty Fellowship (2021)
- 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 Woman Teacher award by the Association of Chemistry Teachers India 2015-16
- Dr. K. H. Gharda Reward for “Excellence in research” (2009)



DR. ANANT R. KAPDI

*M. Sc.; M. Sc. By Research (University of York, UK), Ph. D. (University of York, UK)
(FRSC, AVH Fellow)*

UGC FRP Assistant Professor

Former Deputy Director, ICTM-IOC Bhubaneshwar

Central Placement Coordinator

Recognized Research Guide for Chemistry

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

TOTAL RESEARCH PUBLICATIONS

National: 02, International: 100

Book Chapters: 17; Books: 03 (Edited)

H-Index: 34, Citations: 6881

AWARDS:

- British Council UK Education Alumni award finalist 2021-22.
- Fellow of Royal Society of Chemistry, London as Leaders in the Field category, 2021
- Wellcome Trust/DBT India Alliance Early Career Fellow for 2021
- 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

SUBJECTS TAUGHT:

Organic Chemistry, Natural Products, Heterocyclic Chemistry, Analytical Chemistry, Organic Chemistry Practicals

RESEARCH INTERESTS:

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

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 of Analysis, Physical Chemistry Lab., Nanochemistry

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.

RECOGNIZED RESEARCH GUIDE FOR CHEMISTRY

Guided students: Ph.D.: 01, Masters: M. Sc.: 12

TOTAL RESEARCH PUBLICATIONS

National: 01; International: 21

H-Index: 10, Citations: 287

PATENTS: 01



Dr. SHRAEDDHA TIWARI

M. Sc. Ph. D.

Assistant Professor in Physical and Inorganic Chemistry

SUBJECTS TAUGHT:

Physical Chemistry, Physical Pharmacy, Analytical Chemistry, Instrumental Methods of Analysis, Surface and Interfacial Chemistry, Computational Chemistry

RESEARCH INTERESTS:

Neoteric solvents (ionic liquids / deep eutectic solvents), Mechanistic studies of Organic Reactions, Vibrational Spectroscopy, Chemical processes in confined media, Interfacial processes / "on water" processes

RECOGNIZED RESEARCH GUIDE FOR CHEMISTRY

Guided students: Ph.D.: 04, Masters: M. Sc.: 14

TOTAL RESEARCH PUBLICATIONS

International: 22

H-Index: 09, Citations: 393

AWARDS:

- Best Teacher Award, CMP Endowment (2017)
- Best Teacher Appreciation Award, CMP Endowment, Department of Chemistry (2014)
- DST INSPIRE Faculty Award (2013)
- Postdoctoral Research Fellow at Department of Chemistry, School of Science, the University of Tokyo





Department of GENERAL ENGINEERING



PROF. VIVEK R. GAVAL

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

Head of the Department



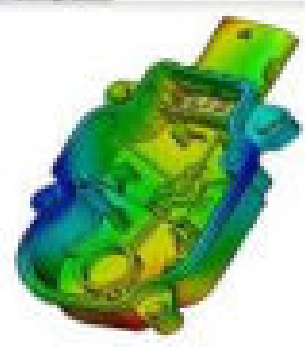
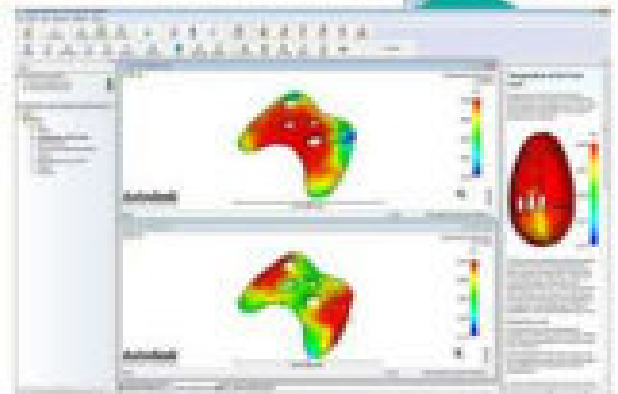
Equipment's Available in Laboratories

CAD/ CAM/CAE Lab



Softwares Available

- Solidworks
- Moldex3D
- AutoCAD 2020
- ANSYS
- Minitab 18.1
- Hypermesh
- Unigraphics-NX
- 3D-Printer (FDM/DLP)



- 3D-Printer (FDM/DLP)



PROF. VIVEK R. GAVAL

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

Professor in General Engineering and Head of the Department

SUBJECTS TAUGHT:

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

RESEARCH INTERESTS:

Particulate filled polymer composites, conversion of Metal parts into plastic parts, Tribology, Improvement in existing injection moulding simulation software's focusing on war page and weld line strength prediction, Solar Energy.

Recognised guide for: Ph.D. (Tech) in Mechanical Engineering and Plastic Engineering.

Guided students: Ph.D.: 04, Ongoing: 12 | Masters guided: 43, Ongoing: 04

RESEARCH PUBLICATIONS: International: 30, h-index: 6, Citations: 128

Patent information: 01 granted, 01 filed.

Projects: 02 (INR 2.5 crores)

PROF. SURESH P. DESHMUKH

D.M.E. (Mechanical) (Ratnagiri 1983), B.E. (Production) (Mumbai 1986), M.E Production (Mumbai 1992), Ph.D. (Tech) (Mumbai 2009)

Professor of Mechanical Engineering and Workshop Superintendent

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.

Recognised guide for: Ph.D. (Tech.) in Mechanical Engineering, Plastic Engineering, Electrical Engineering, Electronic Engineering

Guided students: Ph.D.: 07, Masters: 23

RESEARCH PUBLICATIONS: National:7, International: 65, h-index: 14, i-10 Index: 17, Citations: 592



PROF. DILIP D. SARODE

B.E (Civil) (Mumbai 1986), M.E (Structural) (Mumbai 1989), Ph.D. (Tech) (IIT Bombay 2010), PGD Const Mgt (NICMAR 1987), DCST (Mumbai 1999)

Professor of Civil Engineering and Hostel Head Warden

SUBJECTS TAUGHT:

Concrete Technology, Construction Chemicals, Risk Analysis and its mitigation, Recycling of wastes, Water and wastewater treatment, Recycling of agricultural and industrial waste.

RESEARCH INTERESTS:

Concrete Technology Construction Chemicals - Risk Analysis and its mitigation. Recycling of wastes.

Recycling of agricultural waste and improving soil fertility.

Recognised guide for: M.E. (Plastic), Ph. D. (Tech) in Civil Engineering and Plastic Engineering.

Guided students: Ph.D.: 02, Ongoing: 08, Masters: 11, Ongoing: 7

RESEARCH PUBLICATIONS: National: 14, International: 12, h-index: 5, i10 Index: 3, Citations: 345

Patent Information: National: (granted) 02, International: 01 (Applied)



PROF. R.S.N. SAHAI

B.E (Mechanical Engg.), M.E (Plastic Engg.), Ph.D. (Tech) (Mechanical Engg.) (ICT Mumbai 2013)

Professor of Mechanical Engineering and Dean (ICD)

SUBJECTS TAUGHT:

Engineering Graphics I and II, Energy Engineering, Processing of Plastics, Principle of Plastic Machinery Design, Advance Polymer based Materials in Engineering Applications

RESEARCH INTERESTS:

Applications of Polymer composites in Mechanical Engineering, Natural Fiber Composites, Hybrid Composites, Nano composites, Refrigeration, Thermal Engineering, Heat Exchangers.

Recognized Research Guide for: Ph.D. Tech in (Mechanical Engg.), M.E (Plastic Engg.), and Ph.D. Tech

in (Plastic Engg.), Ph.D. Guide (Ongoing): 9, M.E. Guided: 20

RESEARCH PUBLICATIONS: International: 17, h-index: 04, i10-index -3, Citations: 65

DR. PRERNA GOSWAMI

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

Associate Professor in General Engineering (Electrical)

SUBJECTS TAUGHT:

Electrical Engineering and Electronics (Theory and laboratory),
Basic Electrical and Electronics (Theory and laboratory)

RESEARCH INTERESTS:

Sustainable Energy and MATLAB simulations

Recognised guide for: Ph.D. (Tech.) in Electrical Engineering,

Guided students: Ph.D. Students Ongoing: 11

RESEARCH PUBLICATIONS: National: 10, International: 27, H index 7, i10 index 4, citations 129



DR. DEEPANKAR BISWAS

B.E. (Mechanical) (Mumbai 2012), M.E Mechanical-Thermal Engg. (Mumbai 2014), Ph.D. (Tech) (Mechanical Engg.) (ICT Mumbai 2020)

Assistant Professor of Mechanical Engineering

SUBJECTS TAUGHT:

Energy Engineering, Engineering Graphics-I, CAD/CAM/CAE, Plastic Product Design and Testing of Plastics, Finite Element Analysis, Equipment Design and Drawing-II

DR. VIKRAMSINHA S. KORPALE

B.E. (Mechanical) (2011), M.E. Plastic Engg. (Mumbai 2013), Ph.D. (Tech) (Mechanical Engg.) (ICT Mumbai 2021)

Assistant Professor of Mechanical Engineering



SUBJECTS TAUGHT:

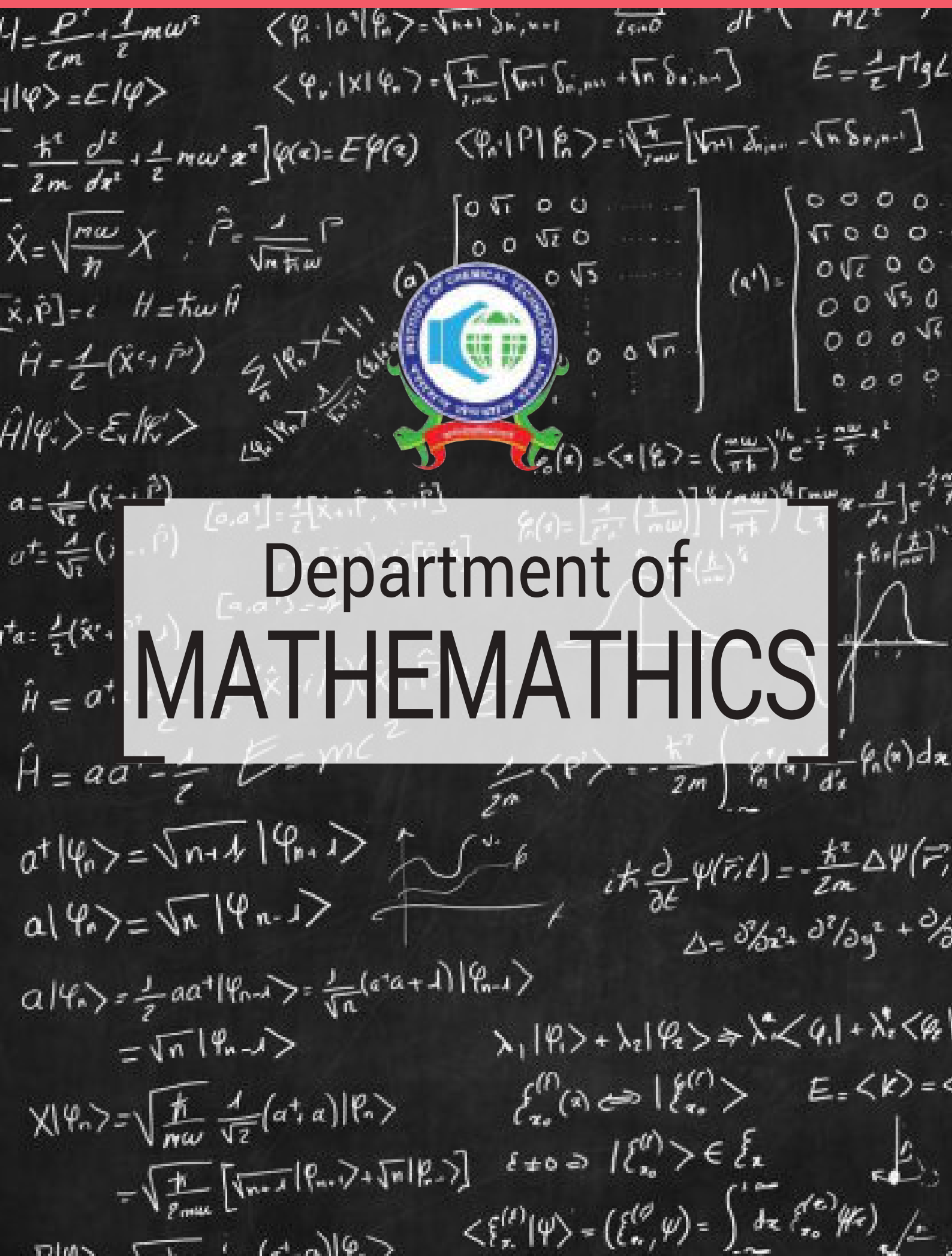
Engineering Graphics I and II, Mold Designing Laboratory, CAD/CAM/CAE and Design of Molds, Plastic Product Design and Testing of Plastics, Structural Mechanics Laboratory, Equipment Design and Drawing-I

RESEARCH INTERESTS:

Thermal design of equipment, Plastic products design and analysis, computational fluid dynamics, Equipment design and analysis, powder-flow equipment designs.

RESEARCH PUBLICATIONS: International: 05, National: Nil, h-index:04, i10 Index:03, Citations: 96





Department of MATHEMATICS



DR. AJIT KUMAR

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

Professor and Head

Department of Mathematics



Dr. AJIT KUMAR

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

Ph. D. (Mumbai University, 2002)

**Professor and Head,
Department of Mathematics**

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

RESEARCH INTERESTS:

Optimization Techniques, Data Analysis, Mathematical Pedagogy

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

Ph. D. Guided: 02

On Going Ph.D. students: 04

Masters Projects Guided: 26

TOTAL RESEARCH PUBLICATIONS:

National: 02, International: 13

Books Published: 05

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: Probability Theory, Machine Learning, Applied Statistics-I, II, III, Mathematical Biology, Stochastic Process, Software Lab.

RESEARCH INTERESTS:

Statistics and Machine Learning methods in Ecology, Species distribution models, Statistical inference on growth curve models

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

Guided students: On Going Ph.D.: 04, Masters: 22

TOTAL RESEARCH PUBLICATIONS:

National: 2, International: 32,

Conference Proceedings: 2

Citations: 457; H-Index: 14





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, Partial Differential Equations

RESEARCH INTERESTS:

Numerical Functional Analysis especially Spectral Approximation of Integral operators, Assymmetric functional Analysis, Operator Theory

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

Guided students: Masters: 13 , Ongoing PhD. : 1

Total Research Publications: International: 9

Citations: 23; H-Index: 1

Dr. Vikram Aithal

*Education: B. Sc (University of Mumbai, 2001),
M. Sc. (University of Mumbai, 2003),
Ph. D. (IIT Bombay, 2010).*

SUBJECTS TAUGHT:

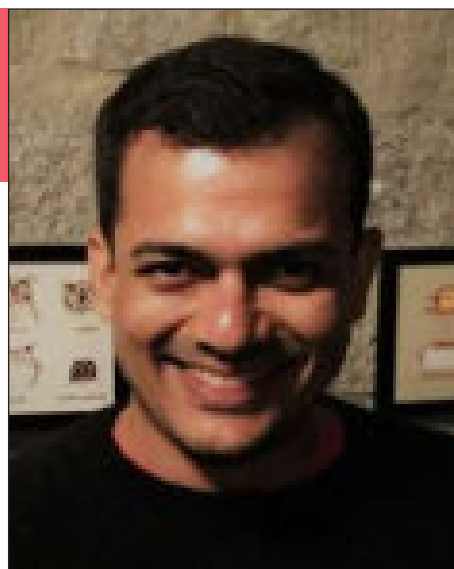
Topology, Complex Analysis, Real Analysis I, Real Analysis II, Functional Analysis, Number Theory, Cryptography

RESEARCH INTERESTS:

Differential Geometry, Geometric Topology.

Total Publications: International - 2.

Guided Students: Masters Projects - 3.





[Department of PHYSICS]



DR. MOHAN NARAYAN

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

Professor of Physics

Head of the Department



Dr. MOHAN NARAYAN

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

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

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

AWARDS (last 5 years):

DST Young Scientist Award 2013; DST Inspire Faculty Award 2012; BRNS Young Scientist Research Award 2014.



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 : 08, Ongoing : 05

Post Doc Fellow: 1, Masters: 02

TOTAL RESEARCH PUBLICATIONS:

National: 05, International: 125

Book Chapter-10, Citations: 4050

H index: 38, i10 index: 85

Highest Impact Factor: 13, Cumulative Impact Factor: 3.64

Dr. ASHWIN MOHAN

B.Sc. (Mumbai, 2007), M.Sc. (Mumbai, 2009), Ph.D. (Germany, 2014)

**Associate Dean, IQA
Assistant Professor of Physics**

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:1 International: 13

h-Index: 5, Citations: 86





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: PhD ongoing 1:

Masters: 3 completed 2 ongoing

TOTAL RESEARCH PUBLICATIONS:

International: 13, h-Index: 05, Citations: 169

Edited book: 01, Book chapters: 05, Publications: 13

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: 18 Citations: 922

Total publications 38

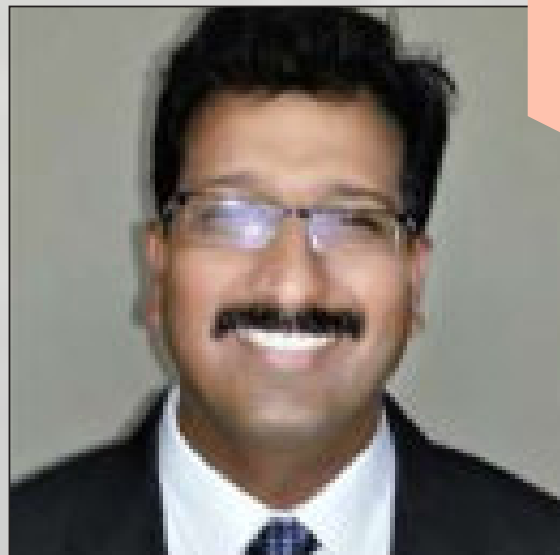




INSTITUTE OF CHEMICAL TECHNOLOGY
(DEEMED UNIVERSITY UNDER SECTION - 3 OF UGC ACT - 1956)



Department of BIOLOGICAL SCIENCES AND BIOTECHNOLOGY



PROF. SAMIR KULKARNI

*Bachelor of Pharmacy,
M.Sc.(Tech): Bioprocess Technology - ICT
Ph.D.(Tech) Chemical Engineering -ICT
Executive Management: IIM Bangalore
Tata Chemicals Darbari Sheth
Distinguished Professor*

**Head: Department of Biological
Sciences and Biotechnology**





PROF. SAMIR KULKARNI

*Bachelor of Pharmacy,
M.Sc. (Tech): Bioprocess Technology - ICT
Ph.D. (Tech) Chemical Engineering
Executive Management: IIM Bangalore*

Tata Chemicals Darbari Sheth Distinguished Professor
Head: Department of Biological Sciences and Biotechnology

RESEARCH INTERESTS:

Biopharmaceutical Product Development, Biosimilars Development, Cell-Line Development, Processing and Analysis. biomarkers for Oncology and Inflammation, Biofuels, Biosensors, Biofertilizers, Nano-Biotechnology.

Recognized Research guide for Ph.D. (Sci.) in Biotechnology, Ph.D. (Tech.) in Bioprocess Technology, Masters in bioprocess technology
Guest Lecturer: IIM Bangalore (Pharma and Biopharma Business Management)

Patents: 13

Therapeutic Protein Products Launched in different Markets: 4
MAbs, 2 Hormonal Proteins, 4 Other Recombinant Proteins

SUBJECTS TAUGHT:

Biological Sciences and Biotechnology,
Industrial Practices for Biopharmaceutical
Processing and Analysis. Commercial
Biosimilars Development

DR. RATNESH JAIN

M.Pharm, Ph.D (Tech) Pharmaceutics

Associate Professor

SUBJECTS TAUGHT:

Biopharmaceutical Engineering, Introduction to
Biopharmaceutical
Manufacturing, Bioprocess technology, Research
Methodology

RESEARCH INTERESTS:

Characterization of Proteins, biologics and biosimilars,
Cell Culture engineering, Continuous process for
polymeric/metal nanoparticles synthesis; Synthesis and
evaluation of biomaterials (Biodegradable polymers,
proteins and nucleic acids) for biomedical and industrial
applications; Material-Protein Interactions.

RECOGNIZED RESEARCH GUIDE FOR Ph.D.

(Tech./Sci.) and Masters in Bioprocess Technology,
Pharmaceutics, Green Technology

Guided students: Ph. D 9 (Ongoing) Masters 5 (Ongoing)

TOTAL RESEARCH PUBLICATIONS:

International: 95, Patents: 5





DR. ANIKETKUMAR K. GADE

B.Sc. (Microbiology), M.Sc. (Biotechnology),
P.G. Diploma in Bioinformatics, Ph.D. Biotechnology

ASSOCIATE PROFESSOR

SUBJECTS TAUGHT:

Biological Sciences, Pharmaceutical Biotechnology,
Bioprocess and Biosystem Engineering.

RESEARCH INTERESTS:

Biogenic synthesis of metal nanoparticles and their role as
antimicrobial agent and development of nano-based products
like nanogels, nanoemulsions, nanocreams, nano-based
agriculture products like nano-fungicides, nano-fertilizers, etc.
Nanoparticle Functionalization

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

Guided students: Ph. D (Guided) – 1, Ph.D. (Ongoing) –3,

M.Sc. (Project) – 32

Total Research Publications: 89; National: 7; International: 82,
Patents (granted in last 5 years): National: 2

Dr. GUNJAN PRAKASH

M.Sc., Ph.D

Associate Professor

SUBJECTS TAUGHT:

Fermentation and Cell Culture, Fundamentals of Food biotechnology,
Genetics, and Cell Culture Technology, Microbiology, Pharmaceutical
Biotechnology.

RESEARCH INTERESTS:

Algal Biotechnology, Molecular and synthetic biology of microalgae
for Biofuels and High-value Chemicals (Algal Protein, Pigments,
Prebiotics) Production,, Nuclear and Chloroplast Engineering, Diatom
Biotechnology, Microbial Fermentation for bio-based Chemicals, Plant
Biotechnology, Plant Secondary Metabolites Production

Recognized Research guide for: Ph.D (Sci.) Biotechnology, Ph.D (Tech)
Bioprocess Technology, M.Tech Bioprocess Technology, M.Tech Food
biotechnology

Guided students: Ph.D.: Guided 8, Ongoing 4, M. Tech: Guided 13;
Ongoing 6

Total Research Publications: National: 2, International: 31 Patents:
Filed-1



Dr. MANJU SHARMA

B.Sc. Biosciences; M.Sc. Microbiology; Ph.D Microbiology

Assistant Professor



SUBJECTS TAUGHT:

General Microbiology & Food Microbiology

RESEARCH INTERESTS:

Waste Valorization: waste to fuel and biobased chemicals, biomass to biogas, Anaerobic/ aerobic fermentation for biobased chemicals, Fermentation of algal biomass for bioactives and value added chemicals, Consortium design & microbiome studies, bioprospecting of industrially important microbes, Thermophilic enzymes, Industrial Microbiology and Microbial biotechnology

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

Guided students: Ph.D: 1, Co-guided 2,

Masters: 2 (Co-guided)

Ph. D (Ongoing): 2, M. Tech (Ongoing) – 4

Total Research Publications:

International: 12, Patents: 1



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), Organic chemistry, Stereochemistry of organic compound, Pharmaceutical organic chemistry.

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 M Tech. Bioprocess Technology, Ph.D. (Chemistry) (Tech.) and M Tech. bioprocess Technology, Ph.D. (Chemistry)

Guided students: Ph. D guided 2, Ongoing 2,

Masters guided 4, Ongoing 3

Total Research Publications: International: 25,

Patents: 10

Dr. SHAMLAN M. S. RESHAMWALA

B.Sc. (Microbiology and Biochemistry), M.Sc. (Biochemistry), Ph.D. (Molecular Biology)

Assistant Professor



SUBJECT TAUGHT:

Bioprocess and Biosystems Engineering, Applied Molecular and Synthetic Biology, Molecular Biology and Biotechnology, Basics of Biology and Application to Technology, Intellectual Property Rights, Design and Analysis of Experiments, Research and Publication Ethics.

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: 16, Patents: Granted-1, Filed -3



MR. DEEPAK SARMA

M.Tech. (BPT), LLB

RESEARCH SCIENTIST

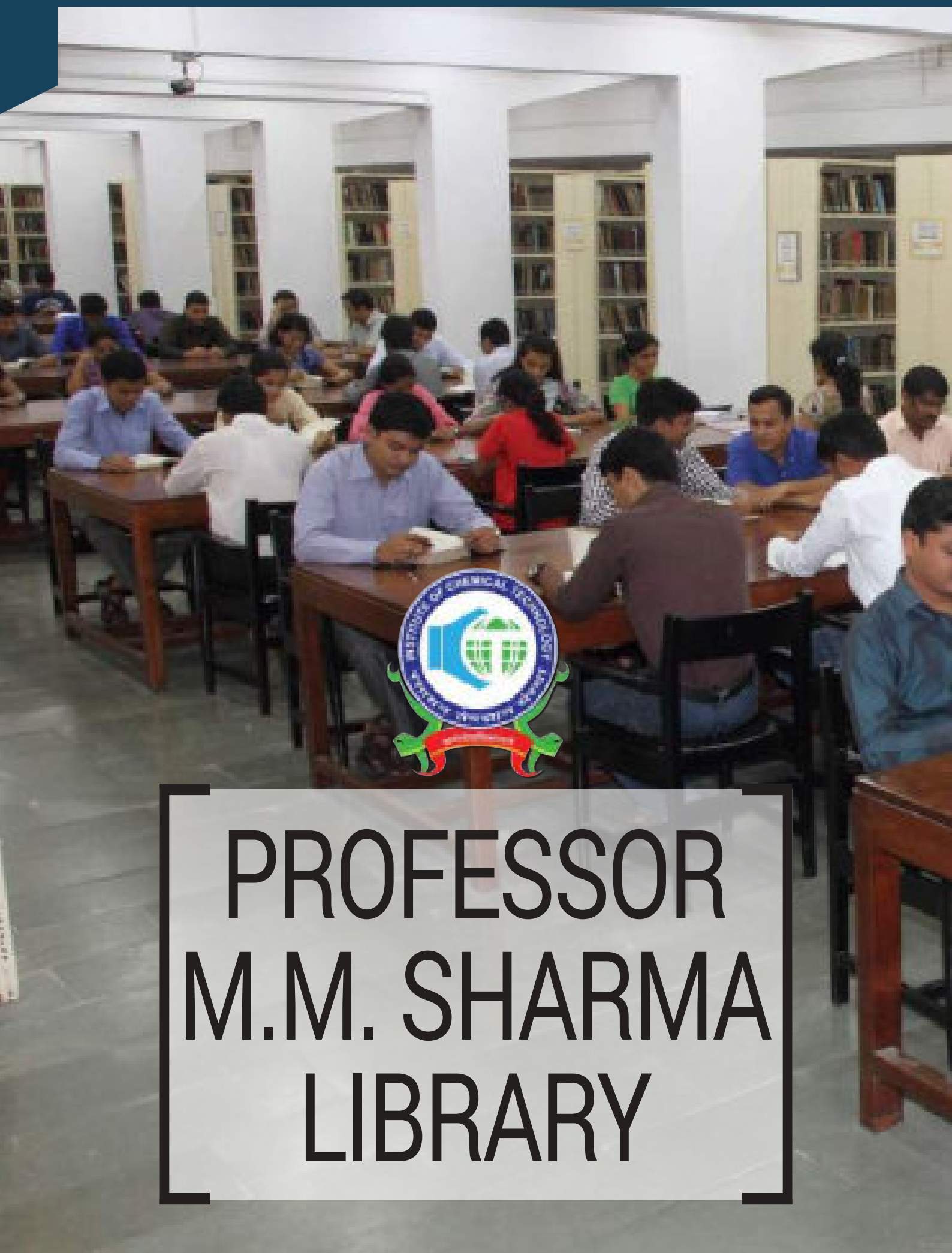
Intellectual Property management & Technology Commercialization unit)

SUBJECTS TAUGHT:

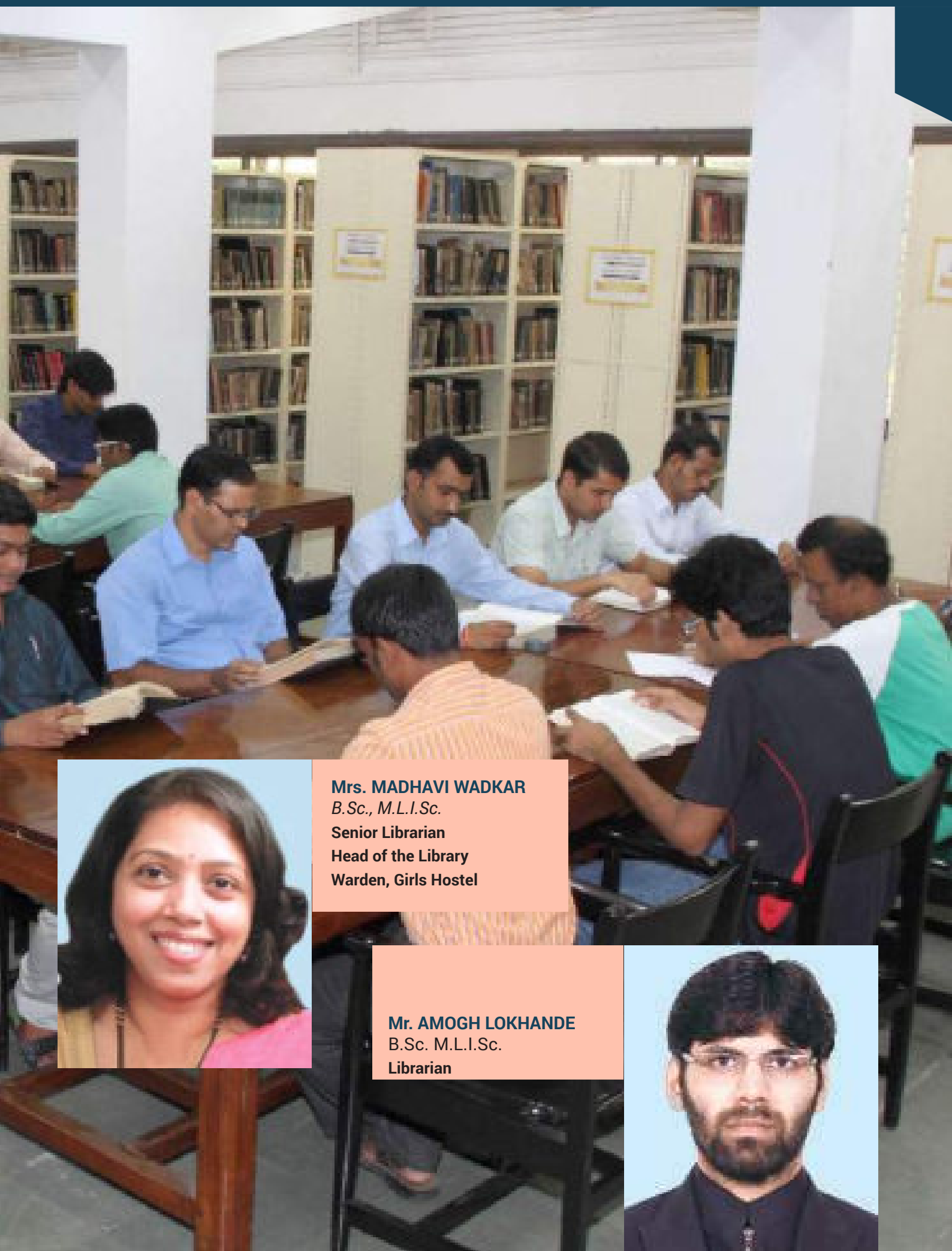
Intellectual Property Rights

RESEARCH INTEREST:

Drafting, reviewing and executing various strategic agreements (MoU, MoA, NDA, MTA etc.), Technology licensing and transfer, Prior art searches for patentability of Inventions, Preparing IP reports, Interviewing the inventors, Patent drafting, filing and Prosecution, Handling of various IP such as Design, Trademark, Copyright, Managing Patent portfolio, Documents for Institutional and administration and financial audits.



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



PROFESSOR M. M. SHARMA LIBRARY

INTRODUCTION:

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

LIBRARY TIMINGS:

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

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

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

LIBRARY LAYOUT:

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

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

MEMBERSHIP:

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

LIBRARY PORTAL:

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

LIBRARY COLLECTION:

Printed Resources

• Books:

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

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

Access: Books can be searched through the computerized catalogue at

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

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

- **Printed Journals:**

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

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

- **Theses:**

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

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

- **Reports:**

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

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

- **Bound Volumes:**

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

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

DIGITAL RESOURCES

- **Databases**

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

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

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

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

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

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

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

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

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

- **eJournals**

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

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

- **eReference Sources**

eReference Module in Chemistry, Molecular Sciences and Chemical Engineering

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

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

Begell Heat Exchanger Design Handbook (HEDH) – Multimedia edition

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

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

- **eBooks**

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

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

- **eVideo Journal**

Access to eVideo Journal published by Jove is available.

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

- **eTheses**

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

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

- **ePatent Database**

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

Access: Contact the library to access this database.

- **Plagiarism check facility**

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

- **eWriting Assistant**

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

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

Services:

Every student has to sign an undertaking (copy of which is available in chapter 9) at the time of taking library membership.

Circulation Service	Reference and Referral service
Current awareness Service	Bibliographic Service
Photocopying service	User Orientation programs
E-resources Training Programs	Book Bank Service

Facilities:

Reading Hall • e-Library • Wi-Fi

Remote access facility to access the e-resources off campus is also available. Please write to library@ictmumbai.edu.in for login credentials. Institutional email id is mandatory for remote access.

Events/Training Programs:

Training programs for the usage of e-resources are organized by the library regularly. Such programs and events are announced through emails & library blog <https://mmslib.wixsite.com/ictlibraryblogpost>. Please subscribe to blog for event notifications.

Contact: Tel: +91-22-33611127-29, email: library@ictmumbai.edu.in





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

Department of Chemical Engineering Upgradation of CE Lab & Safety Audit



Through the generous donation of Batch of 1968, Chem Engg lab has been upgraded. Safety Audit was conducted in various laboratories in Chem. Engg. Dept. on Dec 13, 2019 by Mr. Nilesh Vani, Safety Officer and Dr. Hubert Fernandes, Head R&D, Fevicol Adhesives, Pidilite Industries

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 specialty 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)

Category	Basic Qualification for Admission	Course Requirement
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:

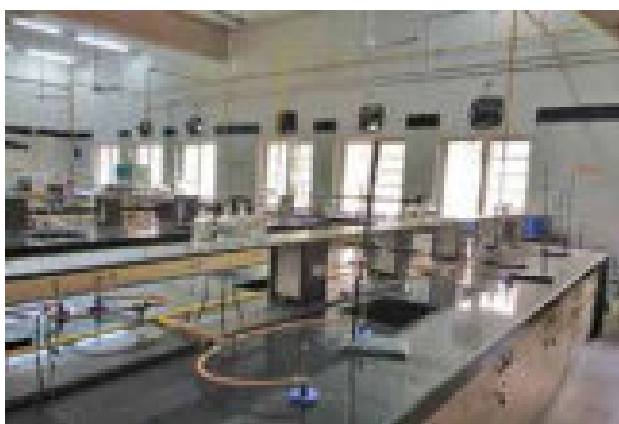
Department of Chemistry was established in 1951 to cater the responsibility of teaching basic chemistry. the department shoulders the responsibility of conducting chemistry courses, theory as well as practical for undergraduate programmes of all the three branches, viz., B.Chem.engg., B. Tech. and B. 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.



Organic Chemistry Undergraduate laboratory and three research laboratories renovated to state-of-art standards



- Major upgrading of equipments for UG, PG practicals as well as research facilities
- Three GC units reinstalled for UG and PG practicals with generous support from UAA
- Raman spectrometer acquired and installed

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 consists of curriculum on Processing of plastics, composites, Design of Molds, Design of processing tools/ machinery, CAD, CAM and CAE, Testing of plastics and 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 a 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 undergraduate and post graduate students of the department and the 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 as well as twin screw extruder. Department is having licensed CAD and CAE softwares 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. Department has recently set up an Environmental Engineering Laboratory having facility of Synthesis of polymeric filter media membrane for water and wastewater treatment. Laboratory is well equipped with facilities for analysis of water and wastewater. All these laboratory facilities are used by M E and Ph D students to do their research work. GATE qualified candidates of M. E. in Plastics Engineering receive AICTE fellowship.

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, 09 in Civil Engineering, 05 in Plastic Engineering, 11 in Electrical Engineering and 04 in Electronics Engineering etc. This year 3 AICTE Doctoral students taken admission, besides 1 student already working under National Doctoral Fellowship. Department is also having industry sponsored Ph D student from BASF and Master's student from Dow Chemicals. Recently the department faculty has been awarded one national patent based on the work done in recently set up Environmental Engineering laboratory under DST funded project. the patent is on "Continuous extraction of pure water from feed with resaturation and reuse of draw". the technology is successfully implemented at Ausa, District : Latur. Department is also involved in execution of Research project funded by DST, Under this project a lake is rejuvenated, 5000lits/hr R O plant is set up which is catering the treated water needs of Ausa town. Another major project under Rajiv Gandhi Science and Technology Commission of Govt of Maharashtra is being executed by one of the faculty.

The 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.

The 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 all the campuses. 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 SPECIALITY CHEMICALS TECHNOLOGY

VISION :

To build world class programmes of excellence in education and research in the specialized area of Speciality Chemical 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. 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

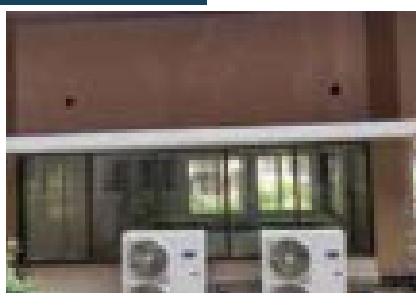
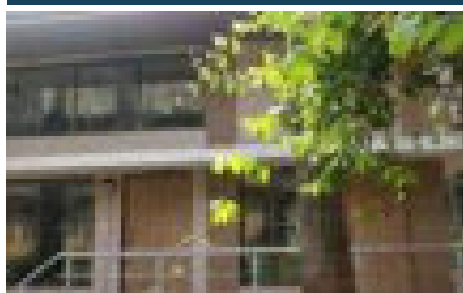
Pursuing world class research in colorants and related areas-basic textile and leather coloration, functional colorants, organic process technology and specialty chemicals

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

ABOUT

Speciality Chemical 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.

Department of Speciality Chemicals Technology



Construction of new NMR laboratory



RESEARCH FOCUS

Late Prof. K. Venkataraman's pioneering work on synthetic Speciality Chemical chemistry, natural colorants, structural elucidation, spectral studies and his books on "The Chemistry of Synthetic Dyes" are still popular and treated as Bible for Speciality Chemical 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 Speciality Chemicals and allied industries especially the Indian Speciality Chemical 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 Speciality Chemical 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 Speciality Chemical 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 Speciality Chemical 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.



Inauguration of Prof. D.V. Rege Centre for Advanced Food Technology on August 15, 2019 by Dr. G. N. Warke, Managing Director of Hi-Media Laboratories Pvt Ltd. the centre was renovated by the generous donation from Hi-Media.



High-Tech FET Conference Room was created with the generous donation by Fine Organic Industries Ltd. in the memory of Mr. Ramesh M. Shah, Founder of Fine Organic Industries Ltd. It was inaugurated by Prof. J.S. Pai, Executive Director, PFNDIAI on November 16, 2019.

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.



ICT Mumbai - IndianOil Odisha Campus, Bhubaneswar



MESSAGE FROM THE DIRECTOR



Greetings from the Institute of Chemical Technology, Indian Oil Odisha Campus, Bhubaneswar, one of the off campuses of Institute of Chemical Technology (then UDCT), Mumbai. the campus was started in 2018 with a unique programme, Integrated M. Tech. after 10+2 in Chemical Engineering as Major and Minor in six different branches of Chemical Technology. From this campus, we also offer M. Tech. programme (Two Years) in various branches of Chemical Technology and Ph. D. in Science/Technology. In view of the massive investment in energy, petrochemicals, chemicals, polymers, textiles, minerals, materials, biotechnology and pharmaceutical industries and food industries in Odisha, ICT Mumbai was requested to open a campus

in Bhubaneswar. Indian Oil Corporation Ltd took a historic decision to support fully a campus of ICT in Bhubaneswar. This is the first of its kind in India where a corporate house has decided to support innovative education and research under its CSR policy to create manpower and job opportunities and entrepreneurs and skill development centres in Eastern India. the campus is equipped with modern equipments for carrying out high-class research and innovation at Centres of Excellence to develop technology and to support Research & Development in industry and Skill Development in Chemical Engineering, Petrochemicals, Textiles, Polymers, Pharmaceuticals, Energy, and Food etc. the nation, at large, will benefit from this initiative.

Our endeavour is not only to provide access to quality education and training but also to create an individual who can earn sustainable livelihood.

Our Vision and mandate is to develop a self-sustainable institution with sophisticated and high-end research facilities in the field of Chemical Technology and its allied branches and to produce well-trained engineers and extraordinary researchers.

Placement of students from first batch of iMTech, Two Year MTech, and PhD scholars has also been progressing well in leading and globally renowned industries and academic institution in India and abroad.

Professor Pradeep Vavia

B. Pharm., M.Pharm., Ph.D. (Tech), FIPA, FMASc

Professor of Pharmaceutics

DIRECTOR, ICTM-IOC Bhubaneswar



FACULTY PROFILE

ICT Mumbai - IndianOil
Odisha Campus, Bhubaneswar



PROFESSOR PRADEEP VAVIA

*B. Pharm., M.Pharm., Ph.D. (Tech),
FIPA, FMASc*

Professor of Pharmaceutics

DIRECTOR, ICTM-IOC Bhubaneswar



Prof. P. R. Vavia

B. Pharm, M. Pharm, PhD. (Tech), FIPA, FMASc

Director, ICTM-IOC Bhubaneswar and Professor of Pharmaceutics

Subjects Taught:

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

Research Interest:

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: 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

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

Dr Rambabu Dandela

Ph. D.

Assistant Professor

Subjects Taught:

Organic chemistry. Analytical chemistry and Advanced Pharmaceutical Chemistry

Research Interest:

Our research interests use organic synthesis to make novel small molecules, which can be utilized to understand and exploit biological systems, chemical biology, quorum sensing, chemical proteomics, pharmaceutical cocrystals, and process R&D of Active Pharmaceutical Ingredients (API)

Recognized research guide for: Chemistry

Guided students: PhD (4 completed, 5 ongoing including 1 Prime Minister Doctoral Fellow),

Masters: 5 (completed). Postdocs 2 (1 ongoing)

Total Research Publications (Scopus): 147

H-Index : 28, Citations: 2292

Number of patents (Filed/Granted): 9

Awards:

1. Life Fellow of Indian Chemical Society (ICS No: 8427, 2021)
2. Associate Member of Royal Society of Chemistry (AMRSC, ID: 691547, 2021)
3. Lifetime Patron Member Orissa Chemical Society (PM/191/20, 2020)
4. Lifetime Member Proteomics Society, India (PSI/LM534, 2020)
5. Lifetime Member Chemical Research Society of India. (CRSI, 2020)
6. Lifetime Member Indian Crystallographic Association (LM 754, 2020)
7. Lifetime Member Indian Council of Chemists (ICC, 2020)
8. Member of International Chemical Biology Society (ICBS, 2020)
9. Lifetime Member National Environmental Science Academy (LM2207, 2020)
10. Lifetime Member Association of Chemistry Teachers (ACT, 2020)



Dr. Ramakanta Naik

Ph. D. (Physics)

Associate Professor



Subjects Taught:

Physics

Research Interest:

Nanostructured Materials, Nonlinear optics, Optoelectronics, Amorphous thin films, Phase transitions

Recognized Research Guide for Physics

Guided students: Ph D: 5 Completed, 6 Ongoing M.Phil.: 10, M.Sc. Tech: 13

Total Research Publications (Scopus): 160, H-Index :26, Citations: 1627

Awards:

- DST-INSPIRE Faculty Award
- Young Scientist Award by Orissa Physics Society



Dr. LISA ROY

Ph.D.

Assistant Professor

Subjects Taught:

Organic, Inorganic, Physical, Computational Chemistry

Research Interest:

Bio-inspired homogeneous catalytic reactions Small molecule activations Gas storage and surface reactions Non- covalent interaction guided catalysis and selfassembly

Recognized research guide for: Computational chemistry

No of publications: 39

Guided students: 3 (Ph.D. Continuing). 10 (Project and Internships)

Total Research Publications (Scopus):

H-Index : 13, Citations: 498

AWARDS:

- Early Career Advisory Board Member of ChemPlusChem (Wiley VcH), Jan 2023-present;
- SERB POWER (Promoting Opportunities for Women in Exploratory Research) Grant, 2021;
- Early Career Advisory Board Member of ChemPlusChem (Chemistry Europe Society. Wiley VcH) Jan 2021-present;
- Visiting Researcher at the Max Planck Institute for Coal Research, Germany (July 2019);
- DST INSPIRE Faculty Fellowship (2017) in Chemical Sciences Division;
- Offered Postdoctoral Fellowship at the Hebrew University of Jerusalem (2017);
- Max-Planck Postdoctoral Fellowship July 2015 - Oct 2017;
- International Travel Support from SERB in 2012 for participating at the 48th STC held at KIT in Germany;
- Qualified the Graduate Aptitude Test in Engineering in 2010;
- Qualified the Joint CSIR-UGC National Eligibility Test 2009.
- CSIR fellowship JRF/SRF from July 2010 - June 2015;
- Qualified State Eligibility Test (2009) held by West Bengal College Service Commission for Lectureship;
- Awarded Motilal Nath Award (2007) by Vivekananda College for excellence in B.Sc. examination



DR. SWAGAT MOHAPATRA

Ph. D.

UGC-Assistant Professor

Subjects Taught:

Chemistry

RESEARCH INTERESTS:

Organic and Organometallic materials for electronic and energy devices

Recognized Research Guide for Chemistry

Guided students: Ph.D: 5 Completed. 6

Ongoing M.Phil/O M.Sc. Tech: 13

Total Research Publications (Scopus): 28

No. of patents (Filed/Granted): 1

H-Index :17, Citations 251

Dr. Sanjib Kumar Acharya

PhD

Assistant Professor

Subjects Taught:

Mathematics I, II. Engineering application of computers I. II. III

Research Interest:

Engineering Mathematics and Engineering application of computers

Recognized research guide for: Mathematics

Guided students: PhD (2)

Total Research Publications (Scopus): 4

H-Index : 2, Citations: 10



Dr. Saikat Bhaumik

Ph.D.

Assistant Professor

Subjects Taught:

Physics

Research Interest:

Nanomaterials. Materials Science, Photophysics, Device Physics, Bioimaging

Recognized Research Guide for Physics

Guided students: 5 (PhD)

Total Research Publications (Scopus): 30, H-Index : 14. Citations: 1555

Number of patents (Filed/Granted): 1

AWARDS:

DST-Inspire Faculty. NET-CSIR fellowship.

Postdoctoral fellowship from NTU Singapore

Dr Nimai Mishra

PhD

Associate Professor

Subjects Taught:

functional materials introduction to materials technology

Research Interests:

Synthesis and optoelectronic application colloidal semiconductor nanocrystals

Recognized research guide for: Mathematics

Guided students: PhD (3)

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 40

H-Index : 21, Citations: 1073

Awards

- Associate fellow of Andhra Pradesh AP Academy of Sciences AFAPS for the year 2019
- Young scientist award at international conference on functional nanomaterial 2019 February (22-26) organised by IIT BHU Varanasi IIT Guwahati and Society for Interdisciplinary Research in Materials and Biology (SIRMB)



Dr Kanchan Chowdhury

PhD

Senior Professor

Subjects Taught:

Thermodynamics, Advanced Thermodynamics, English For Communications, Cryogenic Liquefaction, Cryogenic Refrigeration, Cryogenic Air Separation, Downstream LNG Technology, Refrigeration Systems, Safety in Cryogenic Processes, Heat Exchangers

Research Interests:

Energy analysis of process plants fire safety in hospitals and chemical installations, refrigeration, heat exchangers, cryogenic refrigeration, cryogenic liquefaction, cryogenic air separation, Downstream LNG technology

Recognized research guide for: Chemical Engineering

Guided students: PhD (11)

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 86

H-Index : 19, Citations: 925



Dr Ayantika Sett

PhD

Assistant Professor

Subjects Taught:

Momentum Transfer, Heat Transfer, Chemical Process Control, Chemical Engineering, Thermodynamics, Separation Processes

Research Interests:

Waste Valorisation, Waste Water Treatment, Application of microfluids in waste treatment and biofuel production, paper based microfluids devices.

Recognized research guide for: Chemical Engineering

Guided students: PhD (2), iMTech (8)

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 6

H-Index : 5, Citations: 62



Dr. Ritesh S Malani

PhD

Assistant Professor

Subjects Taught:

Reservoir Engineering, Petroleum Refining, Refinery Engineering, Natural Gas Engineering, Petrochemicals, Research Methodology, Mass Transfer Operation

Research Interest:

Upgradation of Crude Oil, Recovery of Phosphoric Acid from Phosphogypsum, Bio based polyols and polyurethane thereof, Biodiesel synthesis, Heterogeneous Catalysis, Cavitation Processes, etc.

Recognized research guide for:

Petrochemical and Energy Engineering
Guided Students: Master (1 completed, 1 On going)

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 24

H-Index : 13, Citations: 649

Awards:

- Received 2nd award in open category during NGIC 2020, organized by HPCL Green R&D centre, Bengaluru,
- Received Best Paper Award during LAMSYS-16 at Satish Dhawan Space Centre (SDSC) SHAR-Indian Space Research Organisation (ISRO), Sriharikota, Andhra Pradesh, India,
- Received Ambuja Young Researcher's Award for doing postgraduate studies in India after qualifying national level (GATE) entrance examination



Dr Chayan Sarkar

PhD

Assistant Professor

Subjects Taught:

Momentum Transfer, Chemical Reaction Engineering, Advanced Transport Phenomena, Advanced Chemical Reaction Engineering, Mathematical Methods in Chemical Engineering.

Research Interest:

Adsorption, photo catalysis, smart materials modelling and simulation

Recognized research guide for: Chemical Engineering

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 6

H-Index : 5, Citations: 184

Dr Smritilekha Mishra

PhD

Assistant Professor

Subjects Taught:

Nanomaterials, Polymer Science and Technology, Materials Processing, Introduction to Materials Technology

Research Interest:

Polymer Nanocomposite, Surface Modification of Nanoparticles, Bio materials, Plastic Recycling

Recognized research guide for: Materials and polymer engineering

Guided Students: PhD (1), iMTECH (4)

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 15

H-Index : 5, Citations: 66

No. of Patent Filed: 2

Awards:

- ICT Golden Jubilee Research Fund Award 2022-23
- NCTU Taiwan Elite Scholarship 2019 to Carry out Research Work at NCTU, Taiwan
- 3rd Position in Oral Presentation at YRS 2019 IIT Delhi
- Consolation Award Open House Demonstration 2018 IIT Delhi
- 3rd Position in Masters Degree 2015 CIPET Ahmedabad
- Consolation Award at APM-2013 International Conference Lucknow
- 2nd Position in Undergraduate ORAL Talk Vidyansh 2012 CIPET Bhubaneswar





Dr. Sanchari Basu

Ph.D.

Assistant Professor

Subjects Taught:

Industrial Catalysis, Renewable Energy Systems, Conventional Energy and Utilisation, Petrochemicals Technology, Materials and Energy Balance Calculations

Research Interest:

Heterogeneous Catalysis, Reaction

Engineering, Petroleum Refining

TOTAL RESEARCH PUBLICATIONS: 5

Number of Students Guided: 2 (Ongoing iMTech)

Number of patents (Filed/Granted) : 1

Granted

H-Index: 5, Citations: 106

Dr. Shivanand Shankarrao Shirkole

PhD

Assistant Professor

Subjects Taught:

Advances in Food Technology, Food Packaging Science and Technology, Experimental Design and Optimisation in Food Engineering, Introduction to Food Technology Food Processing and Technology I, and Food Processing and Technology II

Research Interest:

Low moisture food safety, Thermal processing of food, Phase transition modeling, Computer aided food engineering, Industries scale process optimisation, Automation in food process operation

Recognized research guide for: Food process engineering

Guided Students: MTech-FET (7 Thesis submitted), iMTech (9)

TOTAL RESEARCH PUBLICATIONS

(SCOPUS): 34

H-Index : 9, Citations: 280

No. of Patent Filed: 2 (1 granted, 1 filed)

Awards:

- Best research award at MTech Agril Engineering level during the academic year 2009-10 by Dr Punjabrao Deshmukh Krishi Vidyapeeth, Akola Maharashtra, India
- Best paper presentation award at 10th Asia Pacific Drying conference (ADC 2019) held at Vadodara, India, (December 14-17, 2019)
- Certificate of recognition for his outstanding service to enhancement of drying R&D and highly significant extensive contribution to the journal in guest editing special issues, his guest editorials editing of numerous free downloadable e-books on drying as well as books in the CRC book series entitled 'Advances in Drying Technology.'



Dr. Pranati Nayak

PhD

Assistant Professor (Ramanujan Fellowship)

Subjects Taught:

Physics

Research Interest:

Material Electrochemistry, 2D Materials (Graphene, Transition Metal Carbide-MXenes) Synthesis, and Application on Flexible Bio Sensors, Graphene Based Device Fabrication, Fundamental Electrochemistry of 2D Materials, Single Entity Electrochemistry

Recognized research guide for: Physics

TOTAL RESEARCH PUBLICATIONS

(SCOPUS): 5

H-Index : 17, Citations: 1326

No. of Patent Filed: 1 granted

Awards:

- 2022 Ramanujan Fellowship SERB, DST

Government of India

- 2018 Newton International Fellowship Royal Society UK 2018 India
- 2018 JSPS post doctoral fellowship Japan
- 2016 DST inspire faculty award DST Government of India
- 2015 Professor A L Laskar award for the best PhD thesis in physics IIT Madras. (Medal+certificate+ INR 5K cash prize)
- 2015 Institute Research Award Dean Academy Research IIT Madras (Certificate + INR 20k cash prize)
- 2012 best poster price in the international conference 'Advanced Nanomaterials ANM 2012' (certificate + INR 3K cash price)
- 2009 GATE 2009 in physics- a national level examination for pursuing a PhD by MHRD Government of India



Dr Pyarimohan Dehury

PhD

Assistant Professor

Subjects Taught:

Project Management and Economics in Chemical Industry, Energy Management

Research Interest:

EV Battery, Thermal Management, Design of Heat Exchangers and Simulation using

Aspen Plus.

Recognized research guide for: Energy Engineering

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 9

H-Index : 7, Citations: 126

Number of Patent: 3

Dr Yatin Gadkari

PhD

Assistant Professor

Subjects Taught:

Advanced Pharmaceutical Chemistry, Drug Delivery Technology, Technology of Fine and Specialty Chemicals, Advanced Pharmaceutical Technology, Active Pharmaceutical Ingredients Technology, Medicinal Chemistry

Research Interests:

Drug Discovery and Development, Drug Design, Nanodrug Delivery System, Methodology Development, Process

Intensification

Recognized research guide for:

Pharmaceutics

Guided Students: 8

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 14

H-Index : 5, Citations: 56

Awards:

TEQUIP Research Fellow, Received International grant from Korean Society of Ginseng, South Korea



Dr Ramesh Devarapalli

PhD

Assistant Professor

Subjects Taught:

Electrical Technology, Electrical Power Systems, Electrical Machines

Research Interest:

Power Systems, Electrical Engineering.

Recognized research guide for: Electrical Engineering

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 63

H-Index : 13, Citations: 537

Ashish Adak

PhD

Assistant Professor

Subjects Taught:

Mathematics I, Mathematics II, Process Simulation Lab-1

Research Interests:

Non-linear Wave Phenomena, Nonlinear Dynamics, Nonlinear Plasma Theory

Recognized research guide for:

Mathematics

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 9

H-Index : 5, Citations: 104

Awards:

UGC- Dr Kothari Postdoctoral Fellowship (DSKPDF); National Postdoctoral Fellowship (NPDF), SERB, DST, Govt of India



Dr Abhay Vijay Kotkondawar

Ph.D.

Assistant Professor

Subjects Taught:

Physical Chemistry, Inorganic Chemistry, Pharmaceutical Analytics, Industrial and Engineering Chemistry

Research Interest:

Photocatalytic Process, Water Splitting Reaction, Electrocatalytic Process,

Environmental Pollution Direction and Monitoring

Recognized research guide for: Applied Chemistry

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 7

H-Index : 5, Citations: 67

Dr. Kruthi Doriya

PhD

Assistant Professor

Subjects Taught:

Biochemical Engineering, Bioprocess Engineering and Technology, mass transfer operations, introduction to biological science and engineering, advanced biochemistry, microbiology/biochemistry

Research Interests:

Biochemical Engineering and Allied Areas

Recognized research guide for: Chemical Engineering

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 8

H-Index : 7, Citations: 660





Dr. NABENDU B PRAMANIK

Ph.D.,

Assistant Professor

Subjects Taught:

Organic Chemistry, Organic and Inorganic Chemistry Practical, Polymer and Materials Science

Research Interests:

Organic Polymeric Materials, Bottle-brush Polymers via ROMP, Polyelectrolytes Multilayer, Hyper-thin membranes for the separation of CO₂, Self-healing polymers, Polymeric Architectures via RAFT, ROMP, ATRP etc.

Recognised Research Guide for: Chemistry

TOTAL RESEARCH PUBLICATIONS: 17

H Index: 9, **Citations** 257

Awards:

Got One Consultancy Research Project from: Nayam Innovation Pvt Ltd, Pune

Dr. SUSHMA CHAKRABORTY

PhD

Assistant Professor

Subjects Taught:

Heat Transfer, Environmental Engineering and Process Safety, Process Development and Engineering, Equipment Design and Drawing, Material Science and Engineering, Chemical Engineering Lab.

Research Interests:

Membrane Separation, Material Synthesis, Waste Water Treatment, Food Processing
Recognised Research Guide for: Chemical Engineering

No. of Students guided: 12 (ongoing iMTech)

TOTAL RESEARCH PUBLICATIONS (SCOPUS): 8

H-Index : 5, **Citations:** 121



Dr. ARANYA MALLICK

PhD

Assistant Professor

Subjects Taught:

Textiles

Research Interests:

Textiles, Polymers, Water Treatment, Natural Multifunctional Colours

Recognized Research Guide for: Textile Engineering.

Guided students: 8 ongoing (iMTech)

Total Research Publications (SCOPUS): 15

Conference Proceedings: International: 25 National: 32

H-Index : 5, **Citations :** 100

VISITING FACULTY



Dr. ASIMA RAFIQ

Ph.D. (Scientist, Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences)

Subjects Taught:

Food Toxicology

Research Interests:

Functional Foods, Extrusion Technology and Novel Food Processing

No. of Students Guided: 4

TOTAL RESEARCH PUBLICATIONS: 15

H Index: 7, Citations 563

Awards:

DBT BIOCARE Project



Dr. SYED ZAMEER HUSSAIN

Ph.D. (Professor and Head, Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences)

Subjects Taught:

Advances in Nutrition

Research Interests:

Food Fortification, Extrusion Technology, Functional Foods, Novel Food Processing Techniques, Non destructive Food Quality Evaluation, Machine Designing

No. of Students Guided: 18

TOTAL RESEARCH PUBLICATIONS: 15

H Index: 16, Citations 1155



DR. RAMAJANAKI IYER

BPharm(UDCT), MMS (Master of Management Studies), Ph.D (Organizational Behaviour) Faculty (Management)

Assistant Professor

SUBJECTS TAUGHT :

Industrial Psychology, Human Resources Management, Industrial Management (General management and Marketing management), Perspectives of Science Technology and Society, Biostatistics (usage of software SPSS), Communication Skills and ethics.

RESEARCH INTERESTS:

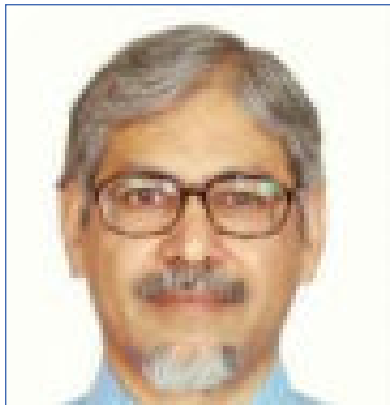
Stress management, Defense mechanisms, Addiction behaviours, Environmental studies and societal impacts, Interplay of science technology and society.

Total research publications: National: 01, International: 17

AWARDS:

Dr Rajadhyaksha Best Teacher's award for Final Year B Chem Engg, ICT Mumbai (2018-19)

Best Teacher's award, Final BTech, ICT Mumbai (2017-18).



Dr. GIRISH MUKUND KHANDEKAR

B.Sc., (Chemistry/Physics) - University of Mumbai

B.Sc.(tech) Pharmaceuticals & Fine Chemicals - UDCT, Univ. of Mumbai

MSc (tech) Pharmaceuticals & Fine chemicals - UDCT, Univ. of Mumbai

PhD(tech), Pharmaceuticals & Fine chemicals - UDCT, Univ. of Mumbai

Post-Doctoral Research - DysonPerrins Laboratory, OXFORD, UK

Work Experience & Achievements:

2016 Till Date:	Work as a freelance consultant for process designing, process improvement, structural elucidation, effluent treatment etc. In addition to this engaged with ICTs, IITs and universities as an external faculty and as an examiner for thesis of M.Tech., PhD students.
2015- 2016:	Joined as President R&D, Atul Limited, Valsad.
2005- 2014:	Joined as V.P.-R & D and retired as Sr. V.P.-R&D from Indofil Chemical Company.
2004- 2005:	Worked as V.P.-R & D and Business Development with Innovassynth Technologies Ltd., Khopoli.
2001- 2004:	Joined as G.M.-R & D in duphar-interfran ltd, Thane in November 2001.
1999- 2001:	Joined Zandu Chemicals Ltd. In October' 1999 as GM-R & D.
1998- 1999:	Joined Sekhsaria Chemicals Ltd, Dombivali as GM-R&D.
1987- 1998:	Joined as a scientist in NOCIL R&D. Left NOCIL as Manager- R & D in NOCIL in 1998

DR. TOGAPUR PAVAN KUMAR

B.Sc. Osmania 2002, M.Sc. Osmania 2004, Ph.D. Osmania (CSIR-IICT) 2011, PG Diploma in Patents Law- NALSAR 2014

Senior Scientist, Coordonator-IPR/ Convener-Business Development/ Manager- InTEC, CSIR-Institute of Minerals and Materials Technology (IMMT), Bhubaneswar- 751013, Odisha, India

Area of Interests:

Basic Research: Organocatalysis-Asymmetric Synthesis, Nucleic Acid Chemistry, Process Chemistry, Medicinal Chemistry, Natural Product Synthesis and Flow Chemistry

IP Management and Business Development: Patent Searches and Analytics using various databases/ SNT Search and Markush Structure Analysis/ Patent Drafting and Portfolio Management

Academic Teaching: Organic Chemistry Courses and Intellectual Property (IIP), Patent Search and Analytics

Technology Development: Process/Technology Development and Demonstration, Client Management, Project Execution and Monitoring, Documentation and Result Submission etc.



SUBHAPRADA NISHTALA

MSc Food Technology, CFTRI

Director In-charge, ITCFSAN (setup jointly by FSSAI and EIC)



Subjects Taught:

Food Safety & Regulations

AWARDS:

AFST(I) FSSAI Food Safety Professional of the Year 2019

Professional Services: Regulatory Advice, Training.

Professional Membership: AFST(I) – President, Mumbai Chapter



DR. SHANTANU KRISHNARAO SAMANT

Ph.D. Tech. (Food Technology)

Mondelēz International Ltd.

Subjects Taught:

Carbohydrate Chemistry & Technology, Biotechnology of Fermented Foods

Research Interests:

Food products, carbohydrates- protein interactions, specialty fats & its applications.

TOTAL RESEARCH PUBLICATIONS – National: 05, International: 08

Conference Proceedings - National: 02

AWARDS:

Received 5 awards from company – Mondelēz International Ltd

Professional Services: Visiting faculty- ICT (from 2017 – present);

Research Council member CFTRI (2013- 2015),

Regulatory Committee member PFNDIAI (past),

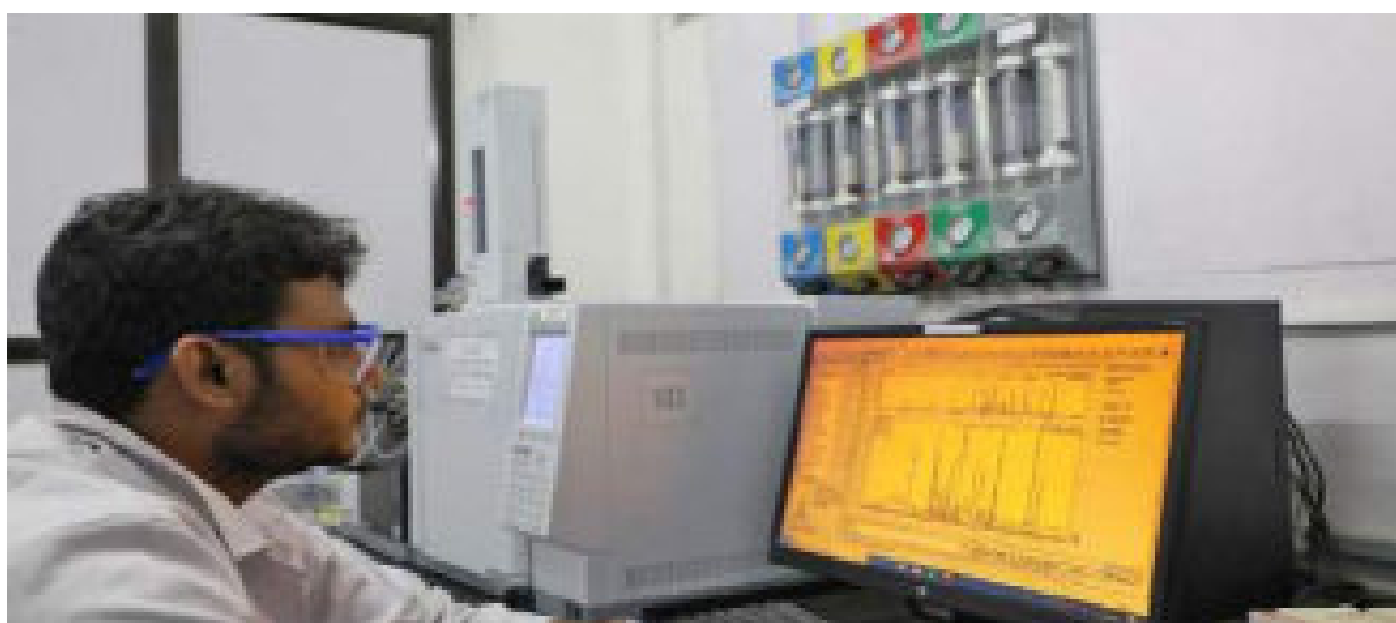
Research Committee member for Food Tech Dept, ICT (past),

Professional Membership: Life Member AFST(I)

Central research facility at ICTM-IOC Bhubaneswar



Central research facility at ICTM-IOC Bhubaneswar





Faculty Members, ICTM-IOC Bhubaneswar



Supporting staff at ICTM-IOC Bhubaneswar



UG & PG laboratory at ICT-IOC, Bhubaneswar



UG & PG laboratory at ICT-IOC, Bhubaneswar



Central Library at ICTM-IOC Bhubaneswar



Technological Association Team with Vice-President Dr. Ayantika Sett



Bus facility at ICTM-IOC Bhubaneswar



Faculty-student's classroom interaction at ICTM-IOC Bhubaneswar



Prof. Pradeep Vavia, Director, ICTM-IOC Bhubaneswar while interacting with CEP participants sponsored by PCI, New Delhi



PhD Research Scholars at ICTM-IOC Bhubaneswar



MTech-Food Engineering and Technology Students of 2020 and 2021 batch (left) and 2022 batch (right)



MTech-Pharmaceutical Chemistry and Technology Students of 2021 batch (left) and 2022 batch (right)



Integrated MTech (Chemical Engineering) Students of 2018 batch



Integrated MTech (Chemical Engineering) Students of 2019 batch



Integrated MTech (Chemical Engineering) Students of 2020 batch



Integrated MTech (Chemical Engineering) Students of 2021 batch



Integrated MTech (Chemical Engineering) Students of 2022 batch

Co-Curricular activities of students at ICTM-IOC



Basketball team (Left) Table tennis event at hostel (Right)



Rangoli competition organized by Cultural club of ICTM-IOC



Cultural performance by ICTM-IOC students including I.Mtech and M.tech (Food and Pharma)

Internship (National/International) for I.Mtech ICTM-IOC Students

National



Every alternate Trimester ICTM-IOC students undergo internship training at different industries and research institute (Some of them are quoted above)

International

INSTITUTE OF CHEMICAL TECHNOLOGY
Bhubaneswar, Odisha Campus Bhubaneswar

RESEARCH OPPORTUNITIES FOR THE STUDENTS SELECTED FOR DAAD-ODISHA LEADERSHIP AWARDS 2023, SPONSORED BY
GERMAN GOVT. RESIDENT

 Dr. Subhankar Nayak Head, Laboratory for Energy Storage Research (Energy & Environment)	 Dr. Subhankar Nayak Head, Laboratory for Energy Storage Research (Energy & Environment)	 Dr. Subhankar Nayak Head, Laboratory for Energy Storage Research (Energy & Environment)
 Dr. Subhankar Nayak Head, Laboratory for Energy Storage Research (Energy & Environment)	 Dr. Subhankar Nayak Head, Laboratory for Energy Storage Research (Energy & Environment)	 Dr. Subhankar Nayak Head, Laboratory for Energy Storage Research (Energy & Environment)

The ICTM-IOC Odisha Research Fellowship is a 10-month full-time research opportunity for students and researchers who provide an opportunity to work on various research projects in various and Odisha universities after being chosen from among over 1000 students globally through a rigorous application and selection process.

INSTITUTE OF CHEMICAL TECHNOLOGY
Bhubaneswar, Odisha Campus Bhubaneswar

RESEARCH OPPORTUNITIES FOR THE STUDENTS SELECTED FOR THE DAAD-ODISHA LEADERSHIP AWARDS 2023, SPONSORED BY
THE GERMAN AND ODISHA GOVERNMENT

Dr. Subhankar Nayak
 Head, Laboratory for Energy Storage Research
 (Energy & Environment)

The ICTM-IOC Odisha Research Fellowship is a 10-month full-time research opportunity for students and researchers who provide an opportunity to work on various research projects in various and Odisha universities after being chosen from among over 1000 students globally through a rigorous application and selection process.



ICTM-IOC Bhubaneswar Campus received Odisha Education Leadership Awards 2023



ICT Marathwada Campus, Jalna



MESSAGE FROM THE DIRECTOR



Dear Aspiring students and parents,

The Marathwada Campus of Institute of Chemical Technology was established at Jalna, and will now be in its fifth year of operation with the intake of fifth batch of Integrated M Tech in Chemical Engineering, and 3rd batch of (Two Year) M. Tech in Food, Pharma and Polymer.

Institute of Chemical Technology, Mumbai is synonymous with world-class education, cutting edge research, and strong Industry ties and its Jalna campus (fondly called as ICT MARJ) is not far behind. ICT MARJ is doing the same thing that Mumbai campus has been doing since the inception. the focus of the education and research is the Chemical and allied technologies. the Institute has won several accolades in research, intellectual property, Industry-Institute interactions, at National and International levels and can

be adjudged from the NIRF, QS, and other rankings.

The Integrated Masters in Technology program is unique program in the country with its trimester pattern, rigorous academic schedule and large Industrial internship component. the program duration is 5 years with three trimesters in each academic year. of the 15 trimesters, the students undergo 9 trimesters of academics in classroom supplemented with 6 trimesters of industrial in-plant training, where the students perform projects applying the knowledge gained in the classroom to practical problems.

Simultaneously, in the tradition of ICT, Doctoral programs also began with induction of 18 PhD scholars. In 2020-21, ICT, Marathwada grew larger with starting of three M Tech Programs in Polymers Technology, Pharmaceutical Science and Technology and Foods Technology.

As IPT (In-Plant Training) is the most attractive part of ICT MARJ, the most significant part here is the Faculty and the Students and the way both of them complement each other in various respect such as teaching-learning, research, co-curricular and extra-curricular activities. the teaching staff is the mixture of both “young minds and the experienced ones”. They are not only involved in the teaching in the best way but also undertake research grants (DST-SERB and others), projects, and patents; publish in reputed journals such as Nature-catalysis; get (inter)national recognitions and awards (Royal Society of Chemistry, FMASc, etc.); and also, are the visiting faculty in international institutions/universities. Such faculty instills the research mindset among the students which is evident in their (students’) life at ICT MARJ.

The students have made the most of it which resulted in them getting their work published under the guidance of the faculty. They have also bagged summer internship at reputed universities in Canada under the scheme MITACS Globalink. This is how we at Jalna campus nurture and develop the research mindset and research culture. This does not mean students here work like machines. We provide very positive ambience to the students where they get good guidance, counselling by the experts, hands-on knowledge about what in reality industry expects from the engineers by the industry experts (we organize fortnightly “Colloquy”). Apart from this, they have college (Student) life in the form of co-curricular and extra-curricular activities, involvement and participation in various Student Clubs, through IDP, National Science Day, Pi Day, Freshers Day to name a few. To know more about it please refer to our campus newsletter- Margjal which is the mirror of our campus life. It tells you what happens at our campus, what kind of research faculty and students are involved, how things work here, and the list will go on (if I start mentioning each activity, I may end up writing a thesis!)

I welcome you to browse our website to learn about the programs, quality and the depth of the academics and research at ICT, Marathwada. I look forward to have you enrolled in the programs at ICT, Marathwada Campus, Jalna (or at ICT MARJ). My best wishes for all the readers!

Prof. (Dr.) Uday S. Annapure

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

DIRECTOR

FACULTY PROFILE

ICT Marathwada Campus,
Jalna



REGULAR FACULTY



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

SUBJECTS TAUGHT:

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

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: 18, Masters: 83

TOTAL RESEARCH PUBLICATIONS: National: 10, International: 161, Patents: 2, Book: 1, Book Chapters: 20, H-Index: 33 (Scopus); 37 (Google Scholar), Citations: 3685 (Scopus); 5067 (Google Scholar)

AWARDS:

- Sri Somalal Vyas – SEA Innovation Award (2022)
Recipient of “UGC-BSR Mid-Career Award Grant” (2021)
- 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. Mumbai Chapter–2011 Endowment) 2014 and 2016.



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, Introduction to Chemical Engineering, Materials and Energy Balance Calculations, Chemical Engineering Thermodynamics I, Momentum Transfer

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 PhD. (Tech) in Chemical Engineering, Oils, Oleochemicals and Surfactant Technology, Ph.D. (Sci) in Chemistry Guided students: Ph.D.: 05, Masters: 32 Ongoing PhD: 08, Masters: 02

TOTAL RESEARCH PUBLICATIONS- National: 01, International: 24 Patents applied: 04 Patents granted: 03, H-Index: 13 (Scopus); 13 (Google Scholar), Citations: 845 (Scopus); 1000 (Google Scholar)

Awards:

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. GIRISH JOSHI

B.Sc.(Physics), M.Sc. (Physics), Ph.D., B.Ed.

Professor, Engg. Physics and Materials

SUBJECTS TAUGHT :

Engineering Physics, Material Science, Semiconductor Devices and Applications, polymer science technology, Material processing, Nano materials.

RESEARCH INTERESTS :

Polymer Nanocomposites- Battery Electrolyte Applications, Dielectric Properties, Graphene Oxide, Quantum dots, thermistor, capacitor Applications, Polymer Blends- Engg. Applications, thermal conductivity, Tribology, High performance composites, Metal Precursor- Electrical and optical properties

Recognized Research guide for: Ph.D. Plastics and Polymer (Technology), Ph.D. (Science) in Physics

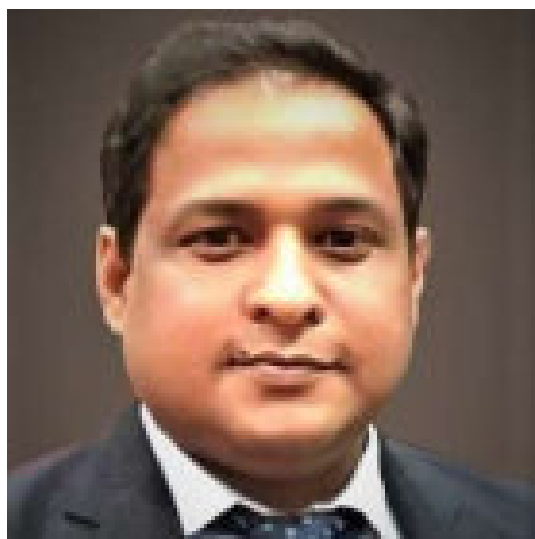
Guided students: Ph.D. 06, Masters: 03, Ph. D ongoing:03

Total Research Publications: National: 02, international: 150+,

Edited Book: 03; **Patents:** 02, **H-Index:** 25 (Scopus); 22 (Google Scholar), **Citations:** 2000 (Scopus); 1600 (Google Scholar)

Awards:

National Best Teacher Award, 2017 (by Krishnmurthy Trust, Tirupati), Maharashtra Academy of Sciences Fellow Award 2019., Life fellow Indian chemical society 2021, visiting scientist UCLM, Spain 2009, 2016.



DR. MANOJ B. GAWANDE

FRSC, docent (habil) M.Sc., Ph.D. (Chemistry), Ph.D. (Science), ICT Mumbai, Docent (Habilitation), Palacky University, Olomouc

Visiting Professor, Nanyang Technological University, Singapore. Visiting Professor, CATRIN-RCPTM, Palacky University, Czech Republic.

Fellow of Royal Society of Chemistry, London (UK)

Associate Professor in Chemistry

AWARDS:

FICS: STE Green Excellence Award 2022, Fellow of Indian Chemical Society-2021; RSC Research Grant Award-2021; Docent (habilitation)/"Associate Professor" nominated by Palacky University; FRSC 2017: Fellow of Royal Society of Chemistry (FRSC), United Kingdom; FMASc: Fellow of Maharashtra Academy of Sciences, Deans Award-2016 and 2017: By Dean of Palacky University, Olomouc; Mahatma Gandhi Pravasi Samman-2014: Ministry of Overseas Indian Affairs; Visiting Professor grant by FCT Lisbon, Portugal; BK-21 (Brain Korea) Research Fellowship Award South Korea; FCT Research Associate Fellowship; Associate Editor of Current Catalysis; Editorial Board Member of Nature-Scientific Reports; Guest Editor of ACS Sustainable Chemistry and Engineering (ACS Publications), Small and Advanced Materials Interfaces (Wiley Publications). Featured in Stanford University's global list of top 2% scientists for the year 2019, 2020 and 2021 in the Chemistry field.

SUBJECTS TAUGHT :

Organic Chemistry, Physical Chemistry, General Chemistry, Green Chemistry, Nanomaterials, Heterogeneous Catalysis

RESEARCH INTERESTS:

Nanotechnology, Nanocatalysis, Sustainable Organic Transformations, Single-Atom Catalysts, Environmental Remediation and Energy.

Recognized Research Guide for Ph.D. (Sci) in Chemistry **Guided students:** 06(ongoing); 3 (co-guided),

Total Research Publications: National: 00, International: 157 **Patents:** (01 Granted and 01- filed), **H-Index:** 48 (Scopus); 52 (Google Scholar), **Citations:** 11000 (Scopus); 1300+ (Google Scholar)

Mr. SHARAD LAHOTI

B.Sc., M.B.A., L.L.B.

Associate Dean, Industry



SUBJECTS TAUGHT :

Industrial Psychology, Financial Management and Project Finance.

RESEARCH INTERESTS :

Financial Management in Enterprises. Psychology, Financial Management and Project Finance. He has a working experience of more than 40 years in Private sector industries in Electronic, Plastics, Fertilizers, Agro Inputs etc. and in Banking sector. He has good experience in day today administration of industrial units, including all management functions, ISO and Ecocert Certifications, DSIR approval, Projects grants, Industrial promotion schemes of Government and and putting up greenfield industrial projects. He has promoted industrial units in plastics and electronics fields.

TRAINING & PLACEMENT OFFICE:

He is heading the Training and Placement Office at ICT Jalna. TPO office has close contacts with more than 100 industrial units where students are sent for industrial training in every alternate trimester. TPO office works in

close coordination with Central Placement Office at ICT Mumbai, for placement of Integrated M.Tech. and regular M.Tech. students of ICT Jalna Campus. TPO office also arranges various sessions for interviews and placement trainings and personality developments of students.



Dr. MANOJ KUMAR JADHAO

B.Sc. (Chem), M.Sc. (Anal. Chem), Ph.D. Physical Chem.,

Assistant Professor of Advance Instrumentation

SUBJECTS TAUGHT :

Chemistry-I (BST4101), Chemistry lab-I (BSP4101), Physical methods of Analysis (PYT2106), Instrumental Methods of Analysis Laboratory (PHP2505), Medicinal Natural Products (PHT 2012)

RESEARCH INTERESTS:

Protein aggregation, Phytochemical Isolation. Photophysics.

Guided Students: Ph.D. 03 (Ongoing),

TOTAL RESEARCH PUBLICATIONS: National: 00, International: 15, Book 1, Book Chapter: 3 Conference Proceeding : 02, H-Index: 08, Citations: 201

AWARDS:

National Postdoc Fellowship, 2017 (DST-SERB, Government of India),

Life Member of the Indian Laser Association (LM-1308, 2019).

DST JRF (2012), DST SRF (2015), CSIR-NET-2011

Dr. SANDEEP BHAIRAT

B.Sc. (Maths), M.Sc. (Applied Maths), Ph.D. (Applied Maths)

Assistant Professor of Engineering Mathematics and Computer Science.



SUBJECTS TAUGHT:

Advanced Calculus, Differential Equations and Integral Transforms, Numerical Techniques, Scientific Computational Tools Lab - MATLAB, Mathematical Methods in Chemical Engineering.

RESEARCH INTERESTS:

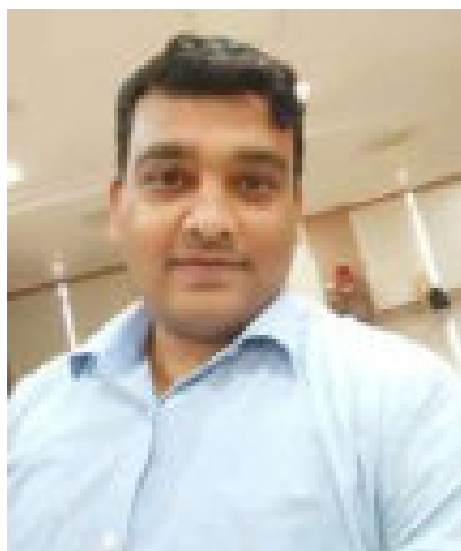
Qualitative Study of Fractional Differential Equations & Dynamical Systems, Stability and Bifurcation Analysis, Mathematical Modelling in Disease Dynamics, in Drug delivery systems, in Pharmacokinetics, in Protein Aggregation and Numerical Simulations.

Guided Students: 02 (On going)

TOTAL RESEARCH PUBLICATIONS: National: 02, International: 13

H-Index: 04 (Scopus); 09 (Google Scholar),

Citations: 57 (Scopus); 217 (Google Scholar)



Dr. NAGSEN P. MESHARAM

B.Sc. (Physics, Chemistry, Mathematics), M.Sc. (Physics), Ph.D. (Materials Science)

Post-Doctoral Fellow- Kongju National University, South Korea (2013-2015)

Post-Doctoral Fellow- Chonbuk National University, South Korea (2016-2017)

Research Associate- Dept of Metallurgical engineering and Material Science IIT Bombay (2018-2019)

Assistant Professor of Applied Physics

SUBJECTS TAUGHT :

Engineering Physics

RESEARCH INTERESTS:

Photoelectrocatalysis, Photovoltaics, Thin film solar cell, Nanomaterial, 2D-materials Synthesis, Semiconductor Thin films, Semiconductor Devices

TOTAL RESEARCH PUBLICATIONS: National:1, International: 10

H-Index: 05 (Scopus); 05 (Google Scholar),

Citations: 106 (Scopus); 150 (Google Scholar)

Dr. KAPIL IRWANTRAO SAGROLIKAR

B.A. (English, History & Public Administration), M.A. (English),

Ph.D. (English/Interdisciplinary)

Assistant Professor of Communication Skills and Humanities (English)



SUBJECTS TAUGHT :

Communication Skills, Technical Communication & Human Values

RESEARCH INTERESTS:

English Literature, Oral Narratives, Women Studies, Bhasha Literature, Cultural Studies

TOTAL RESEARCH PUBLICATIONS: National: 04. International: 02

AWARDS:

National: (Institutional Doctoral Research Fellowship offered by CWDS (Centre for Women's Development Studies) ICSSR, New Delhi (01 October 2015- 16 August 2018)

Dr. SOMEN MONDAL

B.Sc. (Chem.), M.Sc. (Phy. Chem.), Ph.D. (Chem)

Post-Doctoral Fellow- INST Mohali (2017-2018)

Post-Doctoral Fellow- Israel Institute of Technology (2017-2019)

Assistant Professor of Physical Chemistry



SUBJECTS TAUGHT :

Chemical kinetics, Electrochemistry, Catalysis, Surface and interfacial chemistry, Advance Spectroscopy, Smart Polymer

RESEARCH INTERESTS:

Ultrafast Spectroscopy, Photo-induced electron transfer and proton transfer dynamics, Conductive biopolymer for optoelectronic devices.

Guided Students: PhD: 02 (ongoing),

Total Research Publications:

National: 1, International: 28, Book Chapter: 1

H-Index: 13 (Scopus); 14 (Google Scholar),

Citations: 412 (Scopus); 452 (Google Scholar)

AWARDS:

2021: Invited Speaker (RSC-chemsci-2021)

2020: JACS Young Investigators-2020,

2020: Royal Society-Newton International

Fellowships, UK. 2019: the Lady Davis

fellowship, Technion IIT-Israel. (declined),

2018-2019: Planning and Budgeting committee (PBC) Fellowship program, Technion IIT-Israel.

2017-2018: Grand Technion Energy program (GTEP) Fellowship program, Technion IIT-Israel.

2017 (Feb-Nov): National postdoctoral fellowship (NPDF)- India.

2013 - 2017: Senior Research Fellowship (SRF),

IISR Kolkata. 2011 - 2013: Junior Research

Fellowship (JRF), IISR Kolkata. 2009 - 2011: West

Bengal Govt. Merit-Cum-Means Scholarship

Scheme (WBG M-C-M) for pursuing M.Sc. NIT Durgapur.



Dr. DEBASHIS KUNDU

B.E. (Chemical Engineering), M.Tech. (Chemical Engineering),

Ph.D. (Chemical Engineering)

Assistant Professor of Chemical Engineering

SUBJECTS TAUGHT :

Thermodynamics-I, Chemical Engineering Thermodynamics-II, Chemical Process Control, Advanced Transport Phenomena, Energy Engineering, Conventional Energy and Utilization, Advanced Thermodynamics for Energy Systems, Petroleum Economics and Management, Biochemical Engineering, Process Simulation Laboratory-I, Process Simulation Laboratory-II, Chemical Engineering Laboratory

RESEARCH INTERESTS:

Thermodynamics, Molecular Dynamics Simulation, Polymeric Gel, Enhanced Oil Recovery

Guided Students: PhD: 02 (ongoing), Integrated M. Tech: 15 (ongoing)

Total Research Publications: International: 30, H-Index: 12 (Scopus);

12 (Google Scholar), Citations: 416 (Scopus); 455 (Google Scholar)

AWARDS:

2012: Ambuja's Young Researcher's Awards for doing post graduate studies in India.

2018: Best Poster Award in Research Conclave'18, IIT Guwahati, India.

2018: Conclave'18, IIT Guwahati, India.

Dr. SAURAV RAJ

*B.Sc Engg. (Electrical and Electronics Engineering)
Ph.D. (Electrical Engineering)*

Assistant Professor of Electrical engineering.



SUBJECTS TAUGHT :

Basic Electrical Engineering, Computer Application in Power System, FACTS, Electronics Instrumentation

RESEARCH INTERESTS:

Renewable energy, Swarm and evolutionary optimisation techniques, Intelligent techniques to control power system, Optimisation and control of stochastic systems, Power system analysis and optimisation, FACTS devices, Distributed generation, Swarm and evolutionary optimisation techniques, Power system planning

Guided Students: UG-13, PG-00, Ph. D-01 (ongoing)

Total Research Publications: National: 01, International: 47;
H-Index: 12 (Scopus); 14 (Google Scholar),
Citations: 549 (Scopus); 718 (Google Scholar)

AWARDS:

2019: Best paper presentation awarded in 1st International Conference on Innovation in Electrical Power Engineering, Communication, and Computing Technology, Springer on 13th-14th December, 2019.

2020: Best paper presentation awarded in 2020 International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET) at NIT Patna on 10-11 July 2020.



Dr. JOYITA SARKAR

*B.Sc. Microbiology (Hons.), M.Sc. Biotechnology,
Ph.D. Biological Sciences & Bioengineering*

Assistant Professor

SUBJECTS TAUGHT :

Biological Sciences & Engineering; Biochemistry/ Microbiology; Biochemical Engineering, Advanced Biochemistry, Bioprocess Engineering & Technology

RESEARCH INTERESTS:

Biomaterials: Effect of mechanical properties of 3D scaffolds; 3D Bioprinting, Drug metabolism and Toxicity: 3D cell culture system for high throughput studies, Tissue Engineering.

Guided Students: PhD: 0; Project Assistant: 1 (ongoing)

Total Research Publications: National: 01 International: 11, Book Chapter: 02, Conference Proceedings: 2;
H-Index: 06 (Scopus); 07 (Google Scholar),
Citations: 172 (Scopus); 206 (Google Scholar)

AWARDS:

Outstanding DST-AWSAR Award 2019 (PDF category); SERB-NPDF Award (2018); Best Oral Presentation Award in 5th Annual International Conference on Advances in Biotechnology (2015); CSIR SRF-NET (2012); CSIR JRF-NET (2010); University Gold Medal, University of Burdwan (2010); Late Kamala Mallick Prize University of Burdwan (2010); DBT Studentship (2008).

CONTRACTUAL FACULTY

Dr. ATUL H. BARI

B.Tech. (Chem.), M.Chem.Engg. Ph.D. (Chem.Engg).

Assistant Professor (Temporary)



SUBJECTS TAUGHT :

Mass transfer operations, Separation Processes, Multiphase reactor design, Introduction to petroleum technology, Petroleum refining processes, Refinery engineering.

RESEARCH INTERESTS:

Mathematical Modelling and Simulation, Chemical Kinetics, Crystallization, Nanomaterial synthesis

TOTAL RESEARCH PUBLICATIONS:

International: 09, H-Index: 06 (Scopus); 06 (Google Scholar), Citations: 103 (Scopus); 122 (Google Scholar)

AWARDS:

2019: DST-SERB National post-doctoral fellowship.



Dr. NAVNATH HANAVTE

M. Pharm., Ph.D. (Tech) Pharmaceutical Chemistry

Assistant Professor in Pharmaceutical Technology

SUBJECTS TAUGHT :

Pharmaceutical Organic Chemistry, Pharmaceutical Inorganic Chemistry, Medicinal Chemistry, and Industrial Pharmacy.

RESEARCH INTERESTS:

Drug Design and Development, Development of Novel Methodologies for the synthesis of API'S and it's Intermediates, Process Chemistry, Excipient modification and their application in drug delivery.

TOTAL RESEARCH PUBLICATIONS:

International: 17,
H-Index: 07 (Scopus); 08 (Google Scholar),
Citations: 81 (Scopus); 91 (Google Scholar)

AWARDS:

Awarded PG Scholarship for master studies by UGC form 2012-2014.
Awarded UGC-BSR fellowship for the Ph.D. studies at Institute of Chemical Technology, Mumbai
Best poster presentation award in the 6th international symposium on current trends in discovery and research held at CSIR-CDRI, Lucknow (March 2013)

Dr. SANDHYA SHEWALE

M.Sc. (Food Technology), Ph.D. (Engineering Sciences)

Assistant Professor in Food Technology



SUBJECTS TAUGHT :

Introduction to Food Technology, Advanced Food Technology, Food Chemistry, Comprehensive Techniques in Food analysis, Enzymes in Food and Feed Industry, Food Ingredients and Additives.

RESEARCH INTERESTS:

Innovative Combinational Drying Technologies, Hurdle Technology for Preservation of Fresh Foods, Light-Based Processing, Non-Thermal Processing of Foods.

TOTAL RESEARCH PUBLICATIONS:

International: 7.

H-Index: 7 (Scopus); Citations: 167

AWARDS:

- AWSAR Award for Popular Science Story under Ph.D. Category by Department of Science and Technology, Government of India, 2020;
- DST-INSPIRE Fellowship for Doctoral Research by Department of Science and Technology, Government of India, 2015;
- Junior Research Fellowship for Post-Graduation Studies by Indian Council of Agriculture Research, 2011;
- Awarded University Gold Medal by VNMKV formerly known as Marathwada Agricultural University, Parbhani, Maharashtra, 2012.



DR. SUPRIYO KUMAR MONDAL

M. Tech. (Chemical Engineering), Ph.D. (Tech) (Chemical Engineering)

Assistant Professor in Chemical Engineering

SUBJECTS TAUGHT :

Advanced Mass transfer, Energy Conversion and Storage, Process Development and Engineering, Environmental Engg and Process Safety

RESEARCH INTERESTS:

Membrane Technology, Wastewater Treatment, Recovery of Bioactive Compounds, Nanotechnology, Hydrogen Production.

TOTAL RESEARCH PUBLICATIONS:

International: 05 Conference Proceedings: 07

H-Index: 04 (Scopus); 04 (Google Scholar),

Citations: 87 (Scopus); 97 (Google Scholar)

Dr. SHRIKANT METE

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

Assistant Professor in Chemical Engineering



SUBJECTS TAUGHT :

Process Development and Engineering, Material Science and Engineering, Life Cycle Analysis, and Multiphase Reactor Design.

RESEARCH INTERESTS:

Scheduling, Process Optimization, Data Science, Machine Learning, and Reaction Kinetics

TOTAL RESEARCH PUBLICATIONS:

International: 01 Conference Proceedings: 01

H-Index: 01 (Scopus); 02 (Google Scholar), Citations: 04 (Scopus); 05 (Google Scholar)

INDUSTRIAL EXPERIENCE: Senior Scientist, Biocon Limited, Bangalore.

AWARDS:

2014: DST-SERB Doctoral fellowship

2019: First prize in "Senior industry defined problem",

VORTEX 2019 at ICT, Mumbai,



MR. AJINKYA MADAN SATDIVE

B.Tech. (Plastic and Polymer Engineering), M. Tech (Polymer Engineering)

Assistant Professor in Polymer Engineering

SUBJECTS TAUGHT :

Polymer Blends and Alloys, Processing and Applications of 3D Printing, High Polymer Chemistry

RESEARCH INTERESTS:

Polymer Modification for Sustainable Application

TOTAL RESEARCH PUBLICATIONS: National:0,

International: 05 H-Index: 03 (Scopus); 03 (Google Scholar), Citations: 55 (Scopus); 63 (Google Scholar)

MS. NAMITA KARNA

B.Tech (Chemical Engineering), M. Tech (Polymer Nanotechnology)

Assistant Professor in Polymer Engineering

SUBJECTS TAUGHT :

Material Processing, Polymer Processing and Technology, High Polymer Chemistry, Polymer Science and Technology

RESEARCH INTERESTS:

Polymer Resin Modification for Sustainable Application, Polymer nano-composite for EMI shielding Application.

TOTAL RESEARCH PUBLICATIONS: National:0, International: 04 H-Index: 03 (Google Scholar), Citations: 55 (Google Scholar) Subjects



MR BHUSHAN D. PATARE

B.Tech (Oils, Oleochemicals and Surfactant Technology), M.Tech (Oils, Oleochemicals and Surfactant Technology)

Assistant Professor in Lipid Technology

SUBJECTS TAUGHT :

Introduction to Lipids Technology, Lipid Processing Technology, Chemistry of lipids and their applications, Production and Applications of Soaps, Surfactants and Detergents, Technology of Oleochemicals, Essential oils and Cosmetics, Lipids Lab.

RESEARCH INTERESTS:

Polymeric Surfactants, Oleochemical synthesis, Bio-lubricants, Improved surfactant system for better detergency on complex stains

ADJUNCT PROFESSOR



Dr. KISHORE M PAKNIKAR

MSc, PhD

Ex. Director, Agharkar Research Institute, Pune

SUBJECTS TAUGHT :

Nanobiotechnology, Environmental biotechnology.

RESEARCH INTERESTS:

Applications of nanotechnology in biology, medicine, agriculture and environment

Guided Students: PhD: 39, MD: 1, MSc: 2

Total Research Publications: National: 10, International: 155, Patents: 35 granted + 10 applied, Google Scholar: h-index: 41; Citations: 8524

AWARDS:

Biotech Research Society of India Industrial Medal Award- 2007, Society for General Microbiology

UK Third World Microbiology Fund award-1987, United Nations Environment Program (UNEP) scholarship-1982, Fellow, National Academy of Agricultural Sciences (FNAAS)-2010, Fellow, Association of Microbiologists of India (FAMI)-2007, Fellow, Biotech Research Society of India (FBRS)-2004, Fellow, Maharashtra Academy of Sciences (FMAS)-1996, Marico Industries Visiting Fellow, Institute of Chemical Technology, Mumbai- 2009 Prof JV Bhat Oration Award, MAHE, Manipal-2021

Dr. NANDKUMAR KUNCHGE

Director at K J Somaiya Institute of Applied Agricultural Research, Sameerwadi, Dist Bagalkot, Karnataka

SUBJECTS TAUGHT :

Bioengineering

RESEARCH INTERESTS:

Plant Biotechnology, Organic and Regenerative Agriculture

Guided Students: Ph.D. 3, B. Tech: 04

Others: Twelve BCIL trainee guided for their industrial Projects.

Total Research Publications: National: 02, International: 01



LIBRARIAN



Dr. HITENDRA PATIL

B.Sc. (Comp. Sci.), M.L.I.Sc., Ph.D. Library and Information Science

Librarian

RESEARCH INTERESTS:

Information Seeking Habits, Citation Analysis, Authorship Pattern, Content Analysis & Bibliometric Analysis

Total Research Publications:

National: 04, International: 13,

H-Index: 1 (Scopus); 3 (Google Scholar),

Citations: 1 (Scopus); 46 (Google Scholar)

VISITING FACULTY

PROF. PANKAJ K. BHOYAR

M.Tech (CAD/CAM), MBA (Mfg. Mgmt.)

Assistant Professor, Mechanical Engineering Department, MSSCET, Jalna

SUBJECTS TAUGHT:

CAD/CAM/CAE, Computer Software Applications I & II, Machine Drawing, Project Management & Operations Research, Automatic Control System, Non-Conventional Energy Systems

RESEARCH INTERESTS:

Statistical Methods, Optimization Techniques, Advanced Optimization Techniques

GUIDED PROJECTS: UG level: 15

TOTAL RESEARCH PUBLICATIONS: National: 16, international: 18,

Patent: 01, Scopus: H-index: 02 Citations: 20

AWARDS:

Proud Supporter Award given by Young Inspirators Network (YIN), Sakal Media Group in 2017



DR SHANTANU KRISHNARAO SAMANT

Ph.D. Tech. (Food Technology)

Associate Director (R&D), Mondelez International Ltd. (Retd)

SUBJECTS TAUGHT :

Carbohydrate Chemistry & Technology, Biotechnology of Fermented Foods; Food Chemistry

RESEARCH INTERESTS:

Food products formulation (chocolate, confectionary & cocoa drinks) for well-being and affordable nutrition, , specialty fats & its applications ; Cocoa & Chocolate science

Total Research Publications: 13

National: 05, International: 08, Conference Proceedings: 02 (National)

Patents: 02 (Awarded) 2 (in process) 2 (trade secrets)

Awards:

Received 5 awards from company, Mondelez International, & also one Global RDQ achievement award received in 2020.

Professional Services: Founder & Head- 3SB Consultants, Mumbai;

Visiting faculty- ICT – Mumbai, Jalna & Bhubaneswar (from 2017 – till today); Associate Director R&D (retired)- Mondelez International Ltd.;

Research Council member CFTRI (2013-2015), Regulatory Committee

member PFNDIAI (past); Research Committee member for Food Tech

Dept, ICT (past); Examiner for M. Tech and Ph.D. Tech (Food) thesis for ICT (Mumbai) (continued)

Professional Membership: Life Member AFST(I)



Dr. SATISH V. ROJEKAR

B. Pharm, Govt. College of Pharmacy Aurangabad

M. Pharm (Pharmaceutics), ICT, Mumbai

SUBJECTS TAUGHT :

Nanomedicine, Drug Delivery Technology, Physical Pharmacy, Advanced Pharmaceutics and Biopharmaceutics

RESEARCH INTERESTS:

Protein and peptide drug delivery, Microneedle-based drug delivery, Nanomedicine, Nanomaterial synthesis, Advanced Drug Delivery, Novel drug delivery and Technology Development, Preclinical development of small and large molecules, Plasma medicine, Advanced Characterization of Pharmaceutical Products and Analytical Method Development, Toxicity Evaluations, Oxidative Stress Management in Chronic Diseases and HIV infection.

Total Research Publications:

National: 00, International: 21, Patents: 03, Book Chapter: 03, Peer Review: 22
H-Index: 06, Citations: 120, Patents Granted: 00

AWARDS:

Newton-Bhabha Fellow, British Council (UK) and Department of Biotechnology, India (2019), NFSC Fellow Government of India (2017), BARTI Fellow Government of Maharashtra (2016), AICTE Fellow Government of India (2013), Gate Biotechnology Fellow Government of India (2013), Nanochallenge Appreciation Award 2017, NIPER JEE award 2013, Biotechnology Travel Award 2018.

MADHAV KULKARNI

Global Sr. Intellectual Capital Manager at Dow.

Madhav Kulkarni is Global Sr. Intellectual Capital Manager at Dow. He has over 24 years of experience in R&D and IP influencing research, innovation, and business. He enjoys connecting dots between products, IP, players, and markets.

Madhav has experience in pharma, biotech and chemical industry. Earlier to Dow, he worked at Serum Institute (Pune) and Biocon (Bangalore). He is a registered Patent and Trademarks agent in India. He is a certified Six Sigma Green Belt Project leader and, in 2023 earned Google Project Management certification. In 2013, he secured Gold Medal in Executive Education program in Strategic Management from IIMK. Earlier got his masters from UDCT (ICT), Mumbai.



DR. RAMAJANAKI IYER

*BPharm(UDCT), MMS (Master of Management Studies), Ph.D (Organizational Behaviour)
Faculty (Management)*

SUBJECTS TAUGHT :

Industrial Psychology, Human Resources Management, Industrial Management (General management and Marketing management), Perspectives of Science Technology and Society, Biostatistics (usage of software SPSS), Communication Skills and ethics.

RESEARCH INTERESTS:

Stress management, Defense mechanisms, Addiction behaviours, Environmental studies and societal impacts, Interplay of science technology and society.

Total research publications: National: 01, International: 17

AWARDS:

Dr Rajadhyaksha Best Teacher's award for Final Year B Chem Engg, ICT Mumbai (2018-19)

Best Teacher's award, Final BTech, ICT Mumbai (2017-18).



DR. JAYANT R. BANDEKAR

M.Sc., Ph.D. (Microbiology) Retired Head, RB&HSD, Head, Food Microbiology & Seafood Technology Section, Food Technology Division, Bhabha Atomic Research Centre, Mumbai

SUBJECTS TAUGHT:

Food Safety & Toxicology

RESEARCH INTERESTS:

Food-borne bacterial pathogens, application of radiation processing for preservation and hygienization of food.

GUIDED STUDENTS: Ph.D. 08

Total Research Publications

National: 00, International: 62, Book Chapter: 06

H-Index: 26, Citations: 1550

AWARDS:

Fellow of Maharashtra Academy of sciences 2011

Marico Industries Visiting Fellow, Institute of Chemical Technology, Mumbai- 2013

Dr. VAIBHAV TIDKE

B.Chem.Engg, M.Chem.Engg, PhD., CEO and Cofounder, S4S Technologies

SUBJECTS TAUGHT:

Perspectives of Society, Science and Technology

RESEARCH INTERESTS:

Solar energy, food processing, climate change, sustainability, food-energy-nutrition nexus.

Total Research Publications: 2

AWARDS:

United Nations Environmental Leadership Award (Germany),

Zayed Sustainability Award (UAE),

Indian National Academy of Engineering- Young Innovator and Entrepreneurship Award (GoI),

Best Startup Award- Government of India,

ICT Young Distinguished Alumni Award.



COUNSELLING SERVICES



Ms. SAVITA SATPUTE

ICT MARJ Counsellor

Ms Savita Satpute is the founder of Sarvaprit Counselling Center, Aurangabad. She has joined ICT MARJ as the counsellor in the month of July 2022. She has been into this field for over 20 years. Her expertise lies in mediation, spirituality, psychotherapies, personal counselling, etc. She has given two Talks for the 2020 and 2021 batch respectively. Apart from these general sessions, she has also taken personal counselling sessions and telephone session for the students of all the batches. the students have shown tremendous change and their feedback is quite satisfactory. She has prepared worksheet to carry out in future which includes general and personal sessions, 5 Day workshop on Meditation for students and staff and the like. For new batches of students, she conducts orientation and workshop on building Self-Esteem and Confidence, Emotional Intelligence, Handling Changes, Time Management, Study Techniques and Adaptability. Tele-counseling and counseling through emails for various student concerns are taken too.

Mr Mayuresh Joshi from the Organisation for Graphology and Graphotherapy, Pune conduct psychometric evaluation for the Students, Support Staff and the Faculty every year. He is also constantly developing the skills and knowledge, abilities, attitudes, personality traits and educational achievements of the students.



AWARDS AND HONORS RECEIVED BY ICT FACULTY

1. ICT has received the most coveted ranking awards instituted by “The Center for World University Rankings (CWUR) 2024” who publishes the largest academic rankings of global universities
 - Word Rank: 1855 out of 20966
 - Percentile: Top 8.9% in the world
 - Regional Rank (Asia): 707
 - National Rank: 54
 - Research Rank: 1780
 - Overall Score: 66.6
2. ICT has signed an MoU with Textile Ministry of Maharashtra state in Bharat Tex held at Delhi on February 2024. the VC explained in detail about this MoU and stated that ICT is supposed to support the activities of the Textile Ministry in various areas.
3. The Institute of Chemical Technology- Indian Oil Odisha Campus Bhubaneswar has received an honour - Odisha Skill Development Leadership Awards for the year 2024.
4. Shri. Rameshwar Teli Minister of state Petroleum and Natural Gas, inaugurated the ICT-OEC (ONGC Energy Centre Trust) Hydrogen pilot plant at (The Institute of Petroleum Safety, Health and Environment Management) IPSHEM Goa in February. Officials of ONGC were present along with Prof. G. D. Yadav and his PhD students who were all PM fellows. the Advantage India Chemical Conclave Award 2024, has bestowed the following awards on three ICT faculties, Professor Aniruddha B. Pandit, Vice Chancellor, ICT- Mumbai, Award for Best Contributor and Influencer in Academics and Student – Industry Program
5. Every year since 2016, the Asian Scientist Magazine compiles a list of Asia’s most outstanding researchers to celebrate the success of the region’s best and brightest and also to highlight their achievements across a range of scientific disciplines. the 8th Edition of “The Asian Scientist 100” includes Prof. G. D. Yadav, in the list.
6. Prof. V. Patravale has been elected as president, controlled Release Society - Indian Chapter. the award has been delivered in an international Symposium organized at Hotel Sahara Star Mumbai.
7. Heartiest congratulations to Prof. Padma V. Devarajan for getting the prestigious Women in Science award of the Controlled Release Society, Inc, USA a global organisation focused on Drug Delivery Science and Technology
8. Dr. Anant Ramakant Kapdi and his Group in collaboration with Serrano group have developed a water-soluble phosphine-free Pd complex called SerrKap Palladacycle which has been commercialised by Sigma Aldrich.
9. Dr. Neetu Jha, Assistant Professor, Department of Physics ICT- Mumbai was invited to attend the inaugural ASEAN-India Women Scientists Conclave (AIWSC), co-organised by Singapore’s “Agency of Science, Technology and Research) (A*STAR) with India’s “Department of Science & Technology” and “Anusandhan National Research Foundation” (ANRF) with the support of the ASEAN Secretariat in Singapore from 24– 26 April 2024. This was also twitted by DST on their Twitter account.
10. A Paper by Dr. Saptarshi Maiti, Assistant Professor, Department of Fibres and Textile Processing Technology published in Advanced Sustainable Systems, Wiley (I.F-7.1), for the year 2023-24 has been recognized as one of the top-cited papers in this Journal.

11. Professor G D Yadav, has been elected as a fellow of the US National Academy of Inventors (NAI). He is only the second Indian to be so honored.
12. The Hindu Research Foundation has decided to confer NAGARJUNA AWARD – 2023 Professor G D Yadav, for his exemplary contribution in the field Chemical Engineering / Science. (The award carries Rs.1,00,000/- (One Lakh) and a Commendation Certificate. He will receive this award in Nagpur on Sunday, 29th October 2023.)
13. Dr Ravindra Dattatray Kulkarni has been appointed as the Hon'ble ViceChancellor of the University of Mumbai Maharashtra.
14. ICT and S4S Technologies Pvt. Ltd through their “Women Empowerment and outreach activity” have brought a significant change in the life and the livelihood of women farmers of Koraput. the Principal Secretary Agriculture, District Collector and Directorate of Horticulture visited to observe the activity and complemented the S4S team. Special thanks to Mr. Pravin Kale, a PhD scholar of ICT stationed in Koraput.



RESEARCH & DEVELOPMENT PROJECTS



Sr	Faculty name	Funding Agency
1	Adivarekar R V	NMCG/CPCB
2	Adivarekar R V	RGSTC/Reuse of Waste Cotton
3	Amin P D	Lifescient INC
4	Amin P D	Bajaj Healthcare Ltd
5	Amin P D	Unilever Industries Pvt.Ltd.
6	Anil Annamma	Fytomax Nutrition Pvt. Ltd.
7	Annapure U S	FSSAI
8	Annapure U S	Himedia Laboratories Pvt Ltd
9	Annapure U S	DST/Indo-German
10	Annapure U S	Himedia Laboratories Pvt Ltd
11	Annapure U S and Waghmare J S	Malaysian Palm Oil Board
12	Arote Nitin	Laxmi Organic Ind. Ltd.
13	Arya S S	Revelation Biotech P. Ltd.
14	Athalye Ashok	Rossari Biotech Ltd
15	Athalye Ashok	Ultramarine Pigments Ltd
16	Bhagwat S S	Marico Industries
17	Bhagwat S S	Amines & Plasticizer Ltd.
18	Bhagwat S S	Zoetis Pharma. Research Pvt Ltd
19	Bhagwat S S	Coast Guard Pollution
20	Bhanage B M	Galaxy Surfactants Ltd
21	Bhanage B M	DST/Integrated Catalytic Processing
22	Bhanage B M	ALT Materials Inno Pvt Ltd
23	Bhanage B M	Thermax Ltd
24	Chakraborty Snehasis	CSIR
25	Chaskar Atul	Satyam Pharma
26	Chaskar Atul	Jay Finechem Pvt Ltd
27	Chaskar Atul	Mettler Toledo Ltd
28	Chatterjee S	DST WOS
29	Dandekar Jain P R	BIRAC / COVID Suraksha
30	Dandekar Jain P R	Indio Glycol Ltd
31	Devarajan P V	DST/Innovation Entrepreneurship
32	Devarajan P V	Amaterasu Lifesciences LLP
33	Devarajan P V	Croda India Pvt Ltd
34	Devarajan P V	ICMR
35	Devarajan P V	Phoenix Pharmaceutical USA
36	Devarajan P V	Viridis Biopharma P. Ltd.
37	Gogate P R	DST/Indo-Ukraine
38	Gogate P R	DST/SERB/Levulinic Acid
39	Gokhale J S	RGSTC/Valorization of Jackfruit

Sr	Faculty name	Funding Agency
40	Gokhale J S	Prasol Chemicals Pvt Ltd
41	Gokhale J S	Praj Industries Ltd
42	Jagtap R N	DAE/BRNS
43	Jagtap R N	BPCL
44	Jain R D	Cipla Ltd
45	Jain R D	Biogenomics Limited
46	Jain R D	Abbott Healthcare
47	Jain R D	DST/TDT
48	Jain R D	Hetero Biopharma Ltd
49	Jain R D	PAR Formulations Pvt Ltd
50	Jha Neetu	DST/MOF
51	Jha Neetu	DST/SERB/Hydrogen Generation
52	Jha Neetu	Nordische Energy System P.Ltd.
53	Joshi S V	DST/TDT
54	Joshi S V	Next Campus Platform Pvt Ltd
55	Joshi S V	Next Campus Platform Pvt Ltd
56	Kapdi A R	STREM Chemicals Inc
57	Kapdi A R	ISCC
58	Kapdi A R	Tokyo Chemical Ind
59	Kapdi A R	DST/SERB
60	Kapdi A R	STREM Chemicals. Inc
61	Kapdi A R	Rasayan Inc
62	Kulkarni Kedar	Jindo Chemical Solution
63	Kulkarni R D and Devarajan P V	Croda India Co Pvt Ltd
64	Kundu Pintu	DST/SERB
65	Laddha K S	GOI/MOFPI
66	Laddha K S	Arthaveda Wellness Pvt.Ltd
67	Laddha K S	Reckitt Benkiser
68	Lakshmi Kantam	Marvel Drugs Pvt Ltd
69	Lakshmikantam and Rathod V K	Vinati Organics Ltd.
70	Lakshmikantam and Rathod V K	Prasol Chemicals Pvt Ltd
71	Lali A M	DBT/Biofuels
72	Lali A M	Gencrest LLP
73	Lali A M	MNRE
74	Marathe K V	Reliance Ind Ltd
75	Mhaske S T	DBT
76	Mhaske S T	Lubrizol Advanced Materials (I) Pvt Ltd.
77	Mhaske S T	Dorado Chem Pvt Ltd

Sr	Faculty name	Funding Agency
78	Mhaske S T	Hindalco Industries Limited
79	More P M	Vinati Organics Ltd.
80	Nemade P R	BIRAC
81	Nemade P R	DST/SERB
82	Pandit A B	DBT
83	Pandit A B	DST J C Bose
84	Pandit A B	Shellac & Forest Products Export
85	Pandit A B	DST/SERB-Milk Stabilization System
86	Pandit A B	DST/TDT-WMT/Plastic Waste
87	Patravale V B	Bill Gates Foundation
88	Patravale V B	Fidelity Biopharma Co
89	Patravale V B	Nutriventia Ltd.
90	Patravale V B	Tokyo Chemical Ind
91	Patravale V B	Abdul Kalam TIN Fellowship
92	Patravale V B	Ferring Pharmaceutical
93	Patravale V B	DST SERB
94	Patravale V B	BIRAC SRISTI
95	Patravale V B	TAP Pharmaceuticals AG
96	Patwardhan A W	DAE BRNS
97	Pinjari D V	RGSTC
98	Pinjari D V	Encube Ethicals
99	Pinjari D V	Dorado Chem Pvt Ltd
100	Pinjari D V	MUNICIPAL CORPORATION OF GREATER MUMBAI
101	Pinjari D V	Zero - D Ind Pvt Ltd
102	Pinjari D V	Elkay Chemicals Pvt.Ltd.
103	Pinjari D V	Centre for High Tech./ BioGas
104	Pinjari D V	Lasterra Exim India P Ltd
105	Prakash Gunjan	BIRAC
106	Pratap A P	Sanjuraj Agrochem & Spe. Chemical
107	Pratap A P	Galaxy Surfactants Ltd
108	Pratap A P	Recon Oil Ind. Pvt. Ltd
109	Pratap A P	Coast Guard Pollution
110	Pratap A P	Synectics Bio-Science Pvt Ltd
111	Pratap A P	Hindalco Industries Ltd.

Sr	Faculty name	Funding Agency
112	Pratap A P	Sunshield Chemicals Limited
113	Pratap A P	Coast Guard Pollution
114	Rane A S	UGC/FRP
115	Rathod V K	RGSTC/Agricultural Waste
116	Rathod V K	NACL Ind Ltd
117	Rathod V K	Godavari Ltd
118	Rathod V K	DST SERB
119	Sabnis A S	Gofloat Technologies
120	Sabnis A S	Precision Wires India
121	Sadhukhan Nabanita	DAE/BRNS
122	Sadhukhan Nabanita	CSIR
123	Saha Satyajit	DST SERB
124	Sathaye S S	ICMR
125	Sathaye S S	India Glycols Ltd.
126	Shankarling G S	Vinati Organics Ltd.
127	Shankarling G S	Evergreen C & T Corp
128	Sharma Manju	BSBT-Terramatter
129	Some Surajit	Pitambari Products
130	Some Surajit	Centre for High Tech
131	Some Surajit	Pitambari Products Pvt Ltd
132	Some Surajit	ONGC/Preparation of Graphene
133	Some Surajit	Prof.JBJ Research Foundation/ Protection of Water
134	Some Surajit	DST/SERB-II/Retardant Materials
135	Telvekar V S	MSFDA
136	Thorat B N	Praj Industries Ltd
137	Thorat B N	Mankind Research Centre
138	Thorat B N	Lupin Ltd
139	Vaidya P D	SHV Energy N. V
140	Vaidya P D	DST/CO2-Capturing Solvents
141	Vaidya P D	DST/hydrogen
142	Vaidya P D	Unilever Industries Ltd
143	Vavia P R	Lasterra Exim India
144	Vavia P R	Johnson Ltd
145	Vavia P R	Kusum Health Care
146	Vavia P R	Momentive Performance Material (I)Pvt Ltd
147	Waghmare J S	Pitambari Products Pvt.Ltd.
148	Yadav G D	Clean Sci. & Tech. Ltd
149	Yadav G D	Godavari Biorefineries Ltd
150	Yadav G D	IKP Knowledge Park
151	Yadav G D	ICT/ OECT
152	Yadav G D	DST SERB



[PATENTS]

Sr.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Patent Publication No./ Patent Granted No.
1	202321079991	Published	Parag Ramesh Nemade and Olviya Stanny Gonsalves	Process For the Removal of Hexavalent Chromium From Aqueous Solutions and Effluents Using Covalent Organic Frameworks By Photocatalysis	51/2023
2	202321067416	Published	Bhanage Bhalchandra Mahadeo, Lokolkar Manjunath Shivaji and Jagtap Prafull Amrut	Method For Oxidative Triple Carbonylation of Tertiary Amines For Oxomalonamides Synthesis	47/2023
3	202321055343	Published	Yadav; Ganapati Dadasaheb and Sarkar; Supratim Roy	A Process For Selective Synthesis of Silicon-Based Pesticide	42/2023
4	202321052938	Published	Yadav; Ganapati Dadasaheb and Sarkar; Supratim Roy	A Method For Selective Synthesis of Chloromethyl)Bis(4-Fluorophenyl) Methylsilane	42/2023
5	202321038071	Published	Srinivas Ponugoti Sai, Detke Sandip Jivaji, Joshi Shreerang Vidyadhar, Kharkar Prashant Suresh	Sustainable and Green Technology For the Synthesis of >C=N Containing Motif's In Aqueous Medium	34/2023
6	202321036064	Published	Parag Ramesh Nemade and Olviya Stanny Gonsalves	Process For Removal and Concentration of Heavy Metals From Aqueous Solutions and Effluents Using Covalent Organic Frameworks	47/2023
7	202211072058	Published	Dr. Subhalaxmi Pradhan, Dr. Chandu Madankar, Dr. Lalit Prasad, Dr. Pinki Chakraborty and Dr. Gitanjali Pradhan	Bio-Based Transformer Oil From Non-Edible Oil Seed Thevetia Peruviana	01/2023
8	202221036902	Published	Dyawanapelly Sathish	Stable Water-Soluble Formulations of Nutritional Supplements and Preparation Methods Thereof	36/2023

Sr.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Patent Publication No./ Patent Granted No.
9	202221003219	Published	Dr.rahul G.warke, Dr.vishal G.warke, Dr.girish Badrinath Mahajan, Mr.manoj Jagannath Dev, Ms.tanuja Ashok Patil, Ms.rachana Chandrashekar Dalvi, Ms.milan Rajesh Satardekar, Dr.(Prof).Rekha Satishchndra Singhal and Dr.gangadhar Motiram Warke	A Method For Formation of Granules of Gellan Gum Powder	29/2023
10	202121052723	Published	Dr.prakash Gunjan, Kadalag Nikhil Laxman and Dr.pawar Pratik Rajendra	A Process of Microbial Co-Cultivation For Co-Production of Bioproducts	07/2023
11	202221002487	Published	Saurabh Chandrakant Patankar, Siddharth Singh and Ranjan Pati	Bio-Based Densified Material, Process of Making Same, and Use Thereof	13/2023
12	202121054173	Published	Reshamwala Shamlan Mohammed Shafi, Tewari Srishti and Kale Ravindra Dhondiba	Biomaterials From Fungi	21/2023
13	202121050334	Published	Badhe Rajesh Muralidhar, Vaidya Prakash D, Garapati Siva Rama Krishna, Damacherla Mohana Rao, Sharma Alok, Singh Gurpreet Kapur and Ramakumar Sankara Sri Venkata	A Process and Catalysts For the Production of Hydrogen By Reforming In the Liquid Phase	18/2023
14	202121042945	Published	Vijayendra Redasani, Sandip Gavade, Maithili Athavale and Prashant Kharkar	Pharmaceutical Composition and A Process To Prepare the Same	12/2023
15	202121038640	Published	Indurkar Abhishek Rajesh, Dandekar Jain Prajakta and Jain Ratnesh	A Composition For Waste Water Treatment.	09/2023
16	202121033024	Published	Yadav; Ganapati Dadasaheb and Shetty; Sneha Ratnakar Savitha	Process of Conversion of Xylose Into Xylitol Using Hexagonal Mesoporous Silica Supported Ni/Alumina Catalyst	04/2023
17	202121032487	Published	Pushpito Kumar Ghosh, Ashwin Wasudeo Patwardhan, Lokeshkumar Pisaram Ramteke, Shruti Hinge, Raghav Sandeep Soni and Dilip Dhondur Sarode	Process of Integrated Removal of Uranium and Fluoride From Contaminated Ammonium Phosphate Fertilizers	03/2023

Sr.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Patent Publication No./ Patent Granted No.
18	202221016607	Granted	Hitesh Suresh Pawar, Preeti Hira Pandey	A Process For Alkali Free Kolbe-Schmitt Reaction For Production of Hydroxy Benzoic Acid	438882
19	202121059848	Granted	Priyanka Vishvanath Bandivadekar, Kanchan Deoram Gavali and Ganesh Ulhasrao Chaturbhuj	An Improved Acid-Catalyzed Process For Synthesis of Enamines and Enaminones Based Chemical Intermediates	428889
20	202121044237	Granted	Hitesh Suresh Pawar and Tejas Mohan Ukarde	Process of Catalytic Thermo Liquefaction For Converting Lignocellulosic Waste Into Carboxylic Acids and Catalyst Thereof	429838
21	202121039041	Granted	Amin Purnima Dhanraj, Sathaye Sadhana, Rao Kamallesh Krishnamoorthy, Wankhade Sunny Babarao, Jain Divya Dinesh and Bagle Sneha Ramesh	Compositions of Ivermectin and Theophylline For Treating Acute Lung Injury	431180
22	202121033024	Granted	Yadav; Ganapati Dadasaheb, Shetty; Sneha Ratnakar Savitha	Process of Conversion of Xylose Into Xylitol Using Hexagonal Mesoporous Silica Supported Ni/Alumina Catalyst	483123
23	202121031502	Granted	Vavia Pradeep Ratilal, Deshmukh Rajendrasing, Satish Vishram Rojekar and Trimukhe Ajinkya Mahadev	Method For Enhancement of Solubility and Dissolution of Poorly Water Soluble Drug Ritonovir	436819
24	202127012853	Granted	Das Sandip, Kuruganti Thejaswi Sesha, Mhaske Shashank Tejrao and Sheth Parth Nitin	Flexible Packaging Film Comprising Nanocellulose	435225
25	202121011202	Granted	Siddharth Petare, Bhairavi Ekbote, Mohammad Arsalan Pasha, Tanmay Nitin Kothawade, Anoooshka Avasare and Snehasis Chakraborty	An Energy Efficient Cryogenic-Based Grinder For Low Bulk High-Value Commodities	472710
26	202121007438	Granted	Hitesh Suresh Pawar and Tejas Mohan Ukarde	Process For Catalytic Thermo Liquefaction of Plastic Waste Into Liquid Hydrocarbon Oil and Catalyst Thereof	428938

Sr.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Patent Publication No./ Patent Granted No.
27	202121006395	Granted	Tambe Srushti Mahadev, Jain Divya Dinesh and Amin Purnima Dhanraj	Process For Preparing Phase Inversion Based Polymeric Solution By Hot-Melt Extrusion Technology	418871
28	202021056867	Granted	Dilip Dhondu Sarode and S. Raji	Binder-Less Compacted Biomass Solid Fuel Incorporating Banana Root Waste and Method of Preparation Thereof	448031
29	202021046731	Granted	Sukhada Satish Shevade, Devarajan Padma Venkitachalam and Maharukh T. Rustomjee	A Liquid Injectable Composition of Donepezil	436884
30	202021002147	Granted	Devarajan; Padma Venkitachalam, Lokhande; Amit Sanjay and Jadhav; Pramod Maruti	A Kit For Visual Pregnancy Diagnosis In Livestock and Method of Detection Thereof	470461
31	202021020940	Granted	Yadav; Ganapati Dadasaheb and Mondal; Ujjal	Direct Synthesis of Dimethyl Ether From Co2 Hydrogenation Using Selective and Stable Catalyst System	436427
32	202021004464	Granted	Yadav; Ganapati Dadasaheb, Shejale; Ashish Dilip, Malkar; Radhika Sadashiv, Katti; Sanjeev and Parvatalu; Damaraju	Catalyst For Co2 Methanation Reaction Having High Activity and Long Term Stability and Process Thereof	429770
33	201921051926	Granted	Higgins Marangattil Wilson, Shashkeelur Raheman Ateequr Raheman and Neetu Jha	A Diesel Soot Coated Flaoting Device For Solar Steam Generation System	451295
34	201921039607	Granted	Vishwanath Haily Dalvi	Hygenic Odour-Free Waterless Toilet Assisted With Flushing Using Inert Material	469085
35	201921027160	Granted	Parag Ramesh Nemade, Jyoti Prakash Ambre and Kiran Babasheb Dhopte	Nanofiltration Membrane With Improved Permeation and Perm-Selectivity Using Functionalized Graphene Oxide Composite	419017
36	201821037447	Granted	Bhate; Prakash Manohar, Hande; Pratik Ravindra and Badve; Prajakta Prabhakar	An Improved Three-Bath Process For Dyeing Fibres With Reactive Dye Based On Diazonium Salts	487650

Sr.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Patent Publication No./ Patent Granted No.
37	201821031403	Granted	Annapure; Uday Sriramrao, Singu; Bhupender Dayanand and Bhushette; Pravin Rajkumar	Thermo-Stable Probiotic Breakfast Flakes	424384
38	201821019697	Granted	Amit Girishkumar Mirani Vandana Bharat Patravale	Glyceryl Monolaurate Based Microemulsion and Drug Delivery System	473869
39	201821012134	Granted	Devarajan; Padma Venkitachalam, Lokhande; Amit Sanjay, Sabu; Shweta Venugopal and D'souza; Keith Anthony	Kit For Visual Detection of Phosphorous In Biological Fluids	472695
40	201827009391	Granted	Laddha Kirti S and Agharkar Shreeram N	Process For Preparing Herbal Extracts	491337
41	201721043895	Granted	Pandit; Aniruddha Bhalchandra, Patel; Shirish Bhailal and Waghmode; Amol Tukaram	Water Evaporation Device	479814
42	201721018468	Granted	Devarajan; Padma Venkitachalam, Das; Saugandha and Devarajan; Archit	Device For Conserving Low Temperatures	442478
43	201721011288	Granted	Devarajan; Padma Venkitachalam	Liquid Sample Holding Assembly For Dissolution Testing	450782
44	201721021519	Granted	Moravkar Kailas Kalicharan, Gejage Santosh Maruti, Khatik Tousif Ayyub and Amin Purnima Dhanraj	Hot Melt Extruded/Granulated Directly Compressible Api's/Excipients By Melt Granulation Technology.	417421
45	201721011837	Granted	Adivarekar; Ravindra Vitthal, Maiti; Saptarshi and Pandey; Sarweshwara Nand	A Composition For Bleaching Textile Using Natural Stabilizing Agent and Process Thereof	487129
46	201621036137	Granted	"Bhanage; Bhalchandra Mahadeo, Ahire; Jayendra Pandit and Bhosale; Manohar Atmaram	"	Zinc Oxide Peptide Nanomaterials and Method of Preparation Thereof
47	201621034194	Granted	Bhagwat; Sunil Subhash, Mahalle; Kalpana Bhagwan and Parab; Pallavi Sunil	Energy and Exergy Efficient Refrigeration System and Method of Using It	444081

Sr.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Patent Publication No./ Patent Granted No.
48	201621024980	Granted	Devarajan Padma Venkitachalam and Maithania Heena Vinodkumar	Pharmaceutical Compositions That Spontaneously Form Lipidic Particulate Dispersions.	420678
49	1623/MUM/2015	Granted	"Bhanage; Bhalchandra Mahadeo, Ahire; Jayendra Pandit and Bhosale; Manohar Atmaram	"	Novel Amino Acid-Zinc Hydroxide Hybrid Nanomaterials and Process of Preparation Thereof
50	1944/MUM/2015	Granted	Pandit; Aniruddha Bhalchandra, Shingade; Sunil Goroba and Waghmode; Amol Tukaram	Energy and Time Efficient Cooking Annular Vessel	428767
51	1331/MUM/2014	Granted	Joshi Jyeshtharaj Bhalchandra, Panse Sudhir Vishnu and Dalvi Vishwanath Haily	Economic and Convenient/ Easy Solar Concentrator System	442150
52	2497/MUM/2012	Granted	Yeole; Mahendra Madhaorao, Sunil; Kamble Ram and Lali; Arvind Mallinath	Continuous Biotransformation of Substituted Aromatic Carboxylic Acids To Their Selective Aldehydes and Alcohols	429648
53	2495/MUM/2012	Granted	Petkar; Manish Vardharaj, Pawar; Shweta Vitthal and Lali; Arvind Mallinath	A Selective Microbial Production of Xylitol From Biomass Based Sugar Stream With Enriched Pentose Component	439690
54		Granted	Yadav Ganapati Dadasaheb; (India) and Shejale Ashish Dilip; (India).	Steam Reforming Catalysts For Sustainable Hydrogen Production From Bio-Based Materials	Ca3138894
55	US20230108996A1	Published	Yadav Ganapati Dadasaheb; (India), Shejale Ashish Dilip; (India), Malkar Radhika S;(India), Katti S; (Usa) and Parvatalu D; (India).	"Catalyst For Co 2 Methanation Reaction Having High Activity And Long-Term Stability And Process Thereof"	

Sr.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Patent Publication No./ Patent Granted No.
56	IN201821004137	Granted	"Bakulesh Mafatlal Khamar Kartik Yogesh Shah Imran Ahmad Khan Sanjay Kumar Singh Vandana Bharat Patravale Rajiv Indravadan Modi"	An Aqueous Parenteral Composition of Vitamin D3	431119
57	1416/MUM/2015	Granted	"Raval, Ankur Jaykumar Engineer; Chhaya Babubhai Tailor, Jaynish Vijaybhai Jariwala, Arpit Bhupendrabhai Patravale, Vandana Bharat"	Drug Coated Balloon	427257
58	18/005,788	Granted	Devarajan Padma Venkitachalam, Amit Lokhande, Pramod Jadhav	A Kit For Visual Pregnancy Diagnosis In Livestock and Method of Detection Thereof	Us20230270534
59	202221030397	Granted	P.r. Gogate	Continuous Swirling Flow Photocatalytic Reactor	435692
60	202221030393	Granted	P.r. Gogate	Ultrasonic Photocatalytic Oxidation Reactor In the Form of Tray Tower	515898
61	US20190284222A1	Granted	Yadav, Vitthal; Athavale, Maithili; Kharkar, Prashant S.; Srivastava, Sangeeta; Somaiya, Samir; Smera, Satish	Anticancer Compounds	Us11680078b2
62	EP4149469A1	Published	Athavale, Maithili; Gavade, Sandip; Kharkar, Prashant S.; Srivastava, Sangeeta	Use of Compounds For Treating Viral Infections	Ep4149469a1
63	JP2022568620A	Published	Athavale, Maithili; Gavade, Sandip; Kharkar, Prashant S.; Srivastava, Sangeeta	Use of Compounds For Treating Viral Infections	Jp2023525103a
64	CN202180048053.9A	Published	Athavale, Maithili; Gavade, Sandip; Kharkar, Prashant S.; Srivastava, Sangeeta	Use of Compounds For Treating Viral Infections	Cn115867276a
65	EP21811521.0A	Published	Gavade, Sandip; Srivastava, Sangeeta; Kharkar, Prashant S.; Athavale, Maithili	5-Hydroxy-1,4-Naphthalenedione For Use In the Treatment of Cancer	Ep4232439a1

Sr.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Patent Publication No./ Patent Granted No.
66	CN202180087203.7A	Published	Gavade, Sandip; Srivastava, Sangeeta; Kharkar, Prashant S.; Athavale, Maithili	5-Hydroxy-1,4-Naphthalenedione For Use In the Treatment of Cancer	Cn116670122a
67	JP2023525533A	Published	Gavade, Sandip; Srivastava, Sangeeta; Kharkar, Prashant S.; Athavale, Maithili	5-Hydroxy-1,4-Naphthalenedione For Use In the Treatment of Cancer	Jp2023550014a
68	CA3232832A	Published	Redasani, Vijayendra; Gavade, Sandip; Athavale, Maithili; Kharkar, Prashant S.	Pharmaceutical Composition and A Process To Prepare the Same	Ca3232832a1
69	IN201821047582	Granted	Gavade Sandip; Athavale, Maithili; Srivastava, Sangeeta; Kharkar, Prashant	Compounds For the Inhibition of Unregulated Cell Growth	In465698
70	ZA2022/12662A	Granted	Athavale, Maithili; Gavade, Sandip; Kharkar, Prashant S.; Srivastava, Sangeeta	Use of Compounds For Treating Viral Infections	Za202212662b
71	IN202021046675	Granted	Gavade, Sandip; Srivastava, Sangeeta; Kharkar, Prashant S.; Athavale, Maithili	5-Hydroxy-1,4-Naphthalenedione For Use In the Treatment of Cancer	In465206
72	202121031502	Granted	Vavia, Pradeep R.; Deshmukh, Rajendrasing; Rojekar, Satish V.; Trimukhe, Ajinkya M	Method For Enhancement of Solubility and Dissolution of Poorly Water Soluble Drug Ritonavir	In436819
73	201821019697	Granted	Prof. Vandana B. Patravale, Amit Girishkumar Mirani	Glyceryl Monolaurate Based Microemulsion and Drug Delivery System	In473869
74	IN201821004137	Granted	"Bakulesh Mafatlal Khamar Kartik Yogesh Shah Imran Ahmad Khan Sanjay Kumar Singh Vandana Bharat Patravale Rajiv Indravadan Modi"	An Aqueous Parenteral Composition of Vitamin D3	In431119
75	1416/MUM/2015	Granted	Raval, Ankur Jaykumar Engineer; Chhaya Babubhai Tailor, Jaynish Vijaybhai Jariwala, Arpit Bhupendrabhai Patravale, Vandana Bharat	Drug Coated Balloon	In427257

Sr.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Patent Publication No./ Patent Granted No.
76	IN202121059848	Granted	Priyanka Vishvanath Bandivadekar; Kanchan Deoram Gavali; Ganesh Ulhasrao Chaturbhuj	An Improved Acid-Catalyzed Process For Synthesis of Enamines and Enaminones Based Chemical Intermediates	In428889
77	18/005788	Published	Devarajan Padma Venkitachalam, Amit Lokhande, Pramod Jadhav	A Kit For Visual Pregnancy Diagnosis In Livestock and Method of Detection Thereof	Us20230270534
78	201721018468	Granted	Devarajan Padma Venkitachalam, Das Saugandha, Devarajan Archit	Device For Conserving Low Temperatures	442478
79	201621024980	Granted	Devarajan Padma Venkitachalam, Maithania Heena	Pharmaceutical Compositions That Spontaneously Form Lipidic Particulate Dispersions	420678
80	201721011288	Granted	Devarajan Padma Venkitachalam, Lokhande Amit Sanjay, Devarajan Adeenay	Liquid Sample Holding Assembly For Dissolution Testing	450782
81	202021002147	Granted	Devarajan Padma Venkitachalam, Amit Lokhande, Pramod Jadhav	A Kit For Visual Pregnancy Diagnosis In Livestock and Method of Detection Thereof	470461
82	201821012134	Granted	Devarajan Padma Venkitachalam, Amit Lokhande, Sabu Shweta Venugopal, D'souza Keith Anthony	Kit For Visual Detection of Phosphorous In Biological Fluids	472695
83	2.02321E+11	Granted	"1. Vishal Gokul Beldar 2. Deblina Debasish Bhowmik 3. Dr. Manojkumar M Jadhao 4. Amit Sunil Patil, 5. Prof Kirti S Laddha"	"A Method For the Extraction And Isolation of Purpurin "	549062
84	2.02321E+11	Granted	"1. Vishal Gokul Beldar 2. Dr. Manojkumar M Jadhao 3. Roshani Vitthal Beldar"	"A Device For Performing Dry Column Vacuum Chromatography and A Method Thereof"	549402
85	202321036064	Published	Nemade, P. R., Gonsalves, O. S.	Process For Removal and Concentration of Heavy Metals From Aqueous Solutions and Effluents Using Covalent Organic Frameworks, 2023	



[INDUSTRIAL CONSULTATIONS]

Sr.	Particulars
1	Aak India Private Limited
2	Aarti Industries Ltd
3	Aditya Birla Science & Technology Co Pvt Ltd
4	Aditya Environmental Services Pvt Ltd
5	Akzo Nobel India Ltd
6	Ama Herbal Laboratories Pvt Ltd'
7	Amar Equipments Pvt.limited (Sd)
8	Ambani Organics Limited
9	Amit Transport Services
10	Anshul Specialty Molecules Pvt Ltd
11	Aqua Foods Exim
12	Asha Recyclean India Private Limited
13	Asian Paints Ltd (Dr)
14	Aventus Labs Llp
15	Bajaj Healthcare Pvt Ltd
16	Berger Paints India Ltd
17	Brandix Intimate India Private Limited
18	Cancrie Private Limited
19	Chemtron Science Laboratories Private Limited
20	Cipla Ltd Pune (Training Program)
21	Cisfiber Infra Solutions Private Limited
22	Clean Coats Pvt Ltd
23	Clean Coats Pvt Ltd
24	Deccan Nutraceuticals Pvt Ltd
25	Deepak Phenolics Limited
26	Dow Chemical International Pvt Ltd
27	Dynamic Orbit Consultants Pvt Ltd
28	Encore Natural Polymers Pvt Ltd.
29	Enerforth Pvt Ltd.
30	Eternis Fine Chemicals Ltd
31	Fine Organic Industries Ltd
32	Fineotex Chemical Limited
33	Formeca Industries Pvt Ltd
34	Fytomax Nutrition Pvt. Ltd.
35	General Mills India Pvt Ltd
36	Gharda Chemicals
37	Glenmark Life Sciences Limited
38	Godavari Construction Company
39	Graluphit Products Private Limited
40	Graphite India Limited

Sr.	Particulars
41	Gujarat Multi Gas Base Chemicals Pvt Ltd
42	Harris and Menuk Chemicals Pvt Ltd
43	Hayon General Trading
44	Heubach Pigments Private Limited
45	Hindalco Industries Ltd
46	Hi-Point Water Technologies (I) Private Limited
47	Hi Solutions India Private Limited
48	Hitech Corporation Limited
49	H.j. Arochem Pvt.ltd.
50	Indo Borax & Chemical
51	Indokote Industries Private Limited
52	Integrated Coating and Seed Technology India Pvt Ltd
53	Ion Exchange (I) Ltd
54	Jawahar Lal Nehru Customs House
55	Jayant Agro Organic Ltd
56	Jindal Saw Ltd
57	Jsw Paints Private Limited
58	Kalabhai Karson Pvt Ltd
59	Kansai Nerolac Paints Ltd
60	Klj Plasticizers Ltd
61	Konkan Technical Private Limited
62	Kothari Sugars and Chemicals Limited
63	Krishna Conchem Products Pvt Ltd.
64	Kusuma Pharma
65	Lanxess India Private Limited
66	Larsen & Toubro Ltd
67	Laxmi Organic Industries Ltd.
68	Lloyd Insulations India Limited
69	Maharashtra State Road Transport Corporation
70	Mahathi Infra Services Pvt Ltd
71	Mapei Construction Products India Private Limited
72	Monopoly Innovation Pvt Ltd
73	Mynvax Private Limited
74	M\S. Navin Fluorine International Limited
75	M\S. Navin Fluorine International Limited
76	Napthalene Chemie Products
77	Navi Mumbai Muncipal Corporation
78	Nichem Solutions.

Sr.	Particulars
79	Obeetee Private Limited
80	Octillion Power Systems India Private Limited
81	Octillion Power Systems India Private Limited
82	Offshore Infrastructure Ltd
83	O.n.g.c. Energy Centre [G.d.yadav]
84	Orbicular Pharmaceutical Technologies Pvt Ltd
85	Organic Industries Pvt Ltd
86	Oric Organic Chemicals Private Limited
87	Pbs Oil Industries Private Limited
88	Pradeep Shetye Pvt Ltd
89	Praj Industries Limited
90	Praktan Industries
91	Qua Water Technologies Private Limited
92	Rallis India Limited.a Tata Enterprise
93	Reliance Bio Energy Limited
94	Rishi Ven Biosolutions Private Limited
95	Rossari Biotech Limited
96	Sahajanand Medical Technologies Pvt. Ltd.
97	Satguru Gum Industries
98	Sea6 Energy Private Limited'
99	Serum Institute of India Pvt. Ltd.
100	Sf Dyes Pvt Ltd
101	Shree Surya Coatings
102	Shyama Associates
103	Sun-Shine Cbg-Cng Pvt Ltd
104	Swati Spentose Pvt Ltd
105	Tata Chemicals Ltd
106	Temasek Holdings Advisors India Private Limited
107	Terminal Technologies (I) Pvt Ltd
108	The Shakti Plastic Industries
109	The Vidarbha Cooperative Marketing Federation Ltd
110	Transasia Bio-Medicals Ltd.
111	Cens Materials Ltd
112	Khepra Incorporated
113	Ultramarine & Pigments Ltd.
114	Unilever Ind. Pvt Ltd
115	Vaishnavi Enterprises
116	Vinculo Chemplas Industries Llp
117	Zoetis Pharmaceutical Research Pvt Ltd.



[MASTERS THESIS]

Sr.	Roll No.	Student Name	Project Title	Department	Last Submission Date	Guide Name
1	B18IMT720	Annesha Banerjee	To design a process for the treatment of Reactive Dye based Effluents in Chemical Engineering	Integrated M.Tech (Major)	12-Jul-23	Aranya Soumyanath Mallick
2	B18IMT737	Prathamesh Prakash Ambekar	Comprehensive study on Polyester dyeing using Nano Disperse Dye	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Aranya Soumyanath Mallick
3	B18IMT755	Pallavi Gupta	Design of textile effluent treatment plant based on photocatalytic degradation: A Review	Integrated M.Tech in Chemical Engineering (Major)	13-Jul-23	Aranya Soumyanath Mallick
4	B18IMT756	Rishikesh Kishor Jagtap	Enzymatic fading of garments and its parametric study	Integrated M.Tech in Chemical Engineering (Major)	15-Jul-23	Aranya Soumyanath Mallick
5	B18IMT718	Shantanu Kishanrao Biradar	Comprehensive study and Investigation of Chitosan based Nanofiber for dye removal in textile wastewater	Integrated M.Tech in Chemical Engineering (Major)	16-Jul-23	Aranya Soumyanath Mallick
6	B18IMT757	Jay Sunil Patil	Exploring Lignin as a Textile fiber	Integrated M.Tech in Chemical Engineering (Major)	16-Jul-23	Aranya Soumyanath Mallick
7	B18IMT707	Siddhesh Mohan Chaudhari	Modelling of an electrolysis cell for the production of hydrogen.	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Ayantika Sett
8	B18IMT701	Ankitesh Samantaray	Design of microreactor for biofuel production from microalgae.	Integrated M.Tech in Chemical Engineering (Major)		
9	B18IMT721	Shaunak Vikas Kasture	Study of transport phenomena in proton exchange membrane fuel cell	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Ayantika Sett
10	B18IMT743	ALOK KUMAR	Design of Thermochemical Energy Storage device using ?Salt ? in ? matrix?	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Ayantika Sett
11	B18IMT704	Samantara Abhinab Das	Production of Biodiesel by Transesterification Reaction	Integrated M.Tech in Chemical Engineering (Major)	13-Jul-23	Ayantika Sett
12	B18IMT738	Rudhresh S K	Study of Nickel based Metal Organic Frameworks (Ni MOFs) in the Hydrogen Evolution Reaction (HER)	Integrated M.Tech in Chemical Engineering (Major)	14-Jul-23	Ayantika Sett
13	B18IMT709	Darshana R	Studies on Photocatalyst for renewable energy application	Integrated M.Tech in Chemical Engineering (Major)	24-Jul-23	Ayantika Sett
14	B18IMT712	Prerna Mohanty	A critical review on Biodiesel Production from Candida Antarctica (Novozym435) lipase	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Kruthi Doriya
15	B18IMT735	Shaurya Manoj Patil	Design of Wastewater Treatment for Management of Antibiotic Resistance	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Kruthi Doriya

Sr.	Roll No.	Student Name	Project Title	Department	Last Submission Date	Guide Name
16	B18IMT745	Sahil Udhav Patil	Modelling of biosurfactant based Microbial Enhanced Oil Recovery	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Kruthi Doriya
17	B18IMT749	Tanzim Kausar	Microalgal biodiesel production : An economic outlook	Integrated M.Tech in Chemical Engineering (Major)	11-Jul-23	Kruthi Doriya
18	B18IMT760	Nishant Ranjan	A Review on Enzymatic Processing of Food for Acrylamide Mitigation	Integrated M.Tech in Chemical Engineering (Major)	18-Jul-23	Kruthi Doriya
19	B18IMT708	Utathya Raybarman	Novel Approaches to Synthesise Polymer Nanocomposite Materials for Cadmium Removal	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Nabendu Bikash Pramanik
20	B18IMT715	Shaline Panda	Design of a plant for degradation of plastic waste.	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Nabendu Bikash Pramanik
21	B18IMT740	Srinath Chalicheema la	Adsorption studies onto polymer nanomaterials: Modelling and simulation	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Nabendu Bikash Pramanik
22	B18IMT719	Pratik Rajendra Jejurkar	Synthesis of self healing polymers via Diels-Alder Click Chemistry	Integrated M.Tech in Chemical Engineering (Major)	13-Jul-23	Nabendu Bikash Pramanik
23	B18IMT732	Yogesh Jawaharlal Yadav	Synthesis of Telechelic Acrylate Polymers based on 2-Ethyl Hexyl Acrylate (2-EHA) via Controlled Radical Polymerization	Integrated M.Tech in Chemical Engineering (Major)	14-Jul-23	Nabendu Bikash Pramanik
24	B18IMT710	Bhaves Sanjay Shinde	Design and Development of Lyophilized Formulation .	Integrated M.Tech in Chemical Engineering (Major)	14-Jul-23	Pradeep Ratilal Vavia
25	B18IMT722	Ritesh Reddy Seri	Design and optimization of single emulsion technique for the production of Eudragit Microspheres.	Integrated M.Tech in Chemical Engineering (Major)	15-Jul-23	Pradeep Ratilal Vavia
26	B18IMT725	Kishan Prakash	Polymorphism : A phenomenon to fine tune the physicochemical properties of drugs	Integrated M.Tech in Chemical Engineering (Major)	15-Jul-23	Rambabu Dandela
27	B18IMT751	Darshan Sandeep Thole	Comprehensive study on Production of Biosorbents from food waste and its applications	Integrated M.Tech in Chemical Engineering (Major)	17-Jul-23	Rambabu Dandela
28	B18IMT716	Namratha Raghavendra n	Design of a microfluidic sensor for the detection of sulphur in hydrocarbons	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Ritesh Satyanarayanji Malani
29	B18IMT717	Abhishek Subedi	Design a plant of 1000 barrels per day %28BPD%29 for extractive desulfurization of diesel fuel.	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Ritesh Satyanarayanji Malani
30	B18IMT723	Anushree Khiria	Design of a biomass gasifier plant for production of 1 MW power	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Ritesh Satyanarayanji Malan

Sr.	Roll No.	Student Name	Project Title	Department	Last Submission Date	Guide Name
31	B18IMT753	ASISH NAYAK	Design a plant of 1TPD for bioethanol production using lignocellulosic feedstock.	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Ritesh Satyanarayanji Malani
32	B18IMT713	Aditya Mohanty	Design a plant of 1TPD for Biodiesel production using Non-edible oil feedstock	Integrated M.Tech in Chemical Engineering (Major)	11-Jul-23	Ritesh Satyanarayanji Malani
33	B18IMT731	Shaswat Shovan Panda	Develop the mathematical modelling of extractive desulfurization process.	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Ritesh Satyanarayanji Malani
34	B18IMT758	Debasish Padhi	Mathematical Modelling of Heterogeneously Catalyzed Transesterification Reaction for Biodiesel.	Integrated M.Tech in Chemical Engineering (Major)	13-Jul-23	Ritesh Satyanarayanji Malani
35	B18IMT739	Heemanshu Pradip Mhaskar	Design of a 1000 BPD Plant for Enzymatic Desulfurization of Diesel Fuel	Integrated M.Tech in Chemical Engineering (Major)	22-Dec-23	Ritesh Satyanarayanji Malani
36	B18IMT726	Uditanshu Verma	Wireless Electric Bicycle Charging	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Saikat Bhaumik
37	B18IMT702	Siddharth Ajith	Review on Life Cycle Assessment Analysis and Exploring the Potential of Response Surface Methodology in Optimizing Bioethanol Production from Sugarcane	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Sanchari Basu
38	B18IMT744	Angel Surendra Kumar Jain	Review on LCA analysis and exploring the potential of response surface methodology in biodiesel production from waste cooking oil using different catalysts	Integrated M.Tech in Chemical Engineering (Major)	13-Jul-23	Sanchari Basu
39	B18IMT742	Siddhi Jitendra Kotwal	Design of cold storage facility for storage of marine products	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Shivanand Shankarrao Shirkole
40	B18IMT746	Pratyush Shrivastava	Phytoremediation of petroleum waste in petroleum contaminated soil.	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Shivanand Shankarrao Shirkole
41	B18IMT729	Yash Pawan Modi	Techno-economic evaluation of biogas production from food waste	Integrated M.Tech in Chemical Engineering (Major)	14-Jul-23	Shivanand Shankarrao Shirkole
42	B18IMT705	Manisha Behera	Detection of adulteration in milk using paper based microfluidic device	Integrated M.Tech in Chemical Engineering (Major)	15-Jul-23	Shivanand Shankarrao Shirkole
43	B18IMT706	Aakashraj Dharmendra Bhole	Design and Techno-Economic Analysis of a Peanut Protein Extraction Processing Plant	Integrated M.Tech in Chemical Engineering (Major)	15-Jul-23	Shivanand Shankarrao Shirkole

Sr.	Roll No.	Student Name	Project Title	Department	Last Submission Date	Guide Name
44	B18IMT734	Rutuja Dinesh Parab	Ex-situ development of biocompatible wound dressing from kombucha derived bacterial cellulose (KBC) for medical application on acute wound healing by using povidone iodine (PVA).	Integrated M.Tech in Chemical Engineering (Major)	15-Jul-23	Shivanand Shankarrao Shirkole
45	B18IMT741	Kaustubh Raju Wadekar	Theoretical analysis of mass transfer in a refrigerated food storage.	Integrated M.Tech in Chemical Engineering (Major)	18-Jul-23	Shivanand Shankarrao Shirkole
46	B18IMT750	Vaibhav Baban Bochara	Study on Agriculture Waste Valorization	Integrated M.Tech in Chemical Engineering (Major)	03-Aug-23	Shivanand Shankarrao Shirkole
47	B18IMT703	Suyash Kumar	Optimization Studies on Functionalization of Silica Nanoparticles for waste water treatment plant Designing.	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Smrutirekha Mishra
48	B18IMT730	Monita Priyadarshini	Optimization Studies on Functionalization of Silica and Preparation of Polymer Nanocomposites for Designing of Food Packaging	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Smrutirekha Mishra
49	B18IMT747	Rohan Kotha	Optimization studies on the functionalization of mesoporous silica for catalysis application in chemical plant designing	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Smrutirekha Mishra
50	B18IMT711	Sumit Kumar Rout	Optimisation studies and designing of plant for the production of smart fabrics for sensing of infective agents	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Smrutirekha Mishra
51	B18IMT736	Atharv Sandeep Mule	Optimization studies on biopolymer-based flocculants for water treatment plant designing	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Smrutirekha Mishra
52	B18IMT733	Saran Lakhani	Graphene, Graphene Oxide and Zinc Oxide Nanocomposite Materials as Adsorbents/Catalysts	Integrated M.Tech in Chemical Engineering (Major)	10-Jul-23	Swagat K Mohapatra
53	B18IMT714	Om Avinash Upadhye	Exploring Graphenes Potential: the Effects on Paint Performance and Industry Implications	Integrated M.Tech in Chemical Engineering (Major)	12-Jul-23	Swagat K Mohapatra
54	B18IMT752	Harsh Rajendra Mandore	Studies of Na and Li based zeolites and their use in O ₂ separation from air	Integrated M.Tech in Chemical Engineering (Major)	13-Jul-23	Swagat K Mohapatra
55	B18IMT759	Amarjit Mohanty	Design of a plant for butanol production from a biosynthetic route using lignocellulosic biomass	Integrated M.Tech in Chemical Engineering (Major)	23-Jul-23	Yatin Ulhas Gadkari
56	J18IMT626	Aman Jakir Tamboli	Electrochemical Charge Storage using Lignin as Supercapacitor	Integrated M.Tech. in Chemical Engineering (Major)	10-Jul-23	Parag R Nemade
57	21PHC204	Shashank Madhukar Sonkusare	An efficient one pot synthesis of 1- amido/amino/imid oalkyl-2-naphthol derivatives using sulfated polyborate	M.Pharm	12-Dec-23	Ganesh Ulhasrao Chaturbhuj

Sr.	Roll No.	Student Name	Project Title	Department	Last Submission Date	Guide Name
58	20PHC208	Vishnugovin d A	Synthesis, Purification, Characterization, and Evaluation of Phenylimidazoline derivatives as Anticancer agents	M.Pharm	14-Feb-23	Hemchandra Keshav Chaudhari
59	20PHM205	Vinu Singh	Natural Mosquito Repellent Plant Materials	M.Pharm	08-Jan-23	Kirti Shivchandra Laddha
60	20PHM206	Balachandar S	Extraction and isolation of kavain and flavokavain from the root of Piper methysticum	M.Pharm	11-Jan-23	Kirti Shivchandra Laddha
61	20PHP203	Omar Khan Musa Khan	Formulation and Development of Parenteral Liposomal Dosage Form	M.Pharm	17-Feb-23	Pradeep Ratilal Vavia
62	21PHP202	Akshay Hanmant Shinde	Formulation and Development of Parenteral Biodegradable Microspheres of Pramipexole for the Treatment of Parkinson's Disease.	M.Pharm	15-Jul-23	Pradeep Ratilal Vavia
63	21PHP203	Narendra Ramesh Kambale	Solubility Enhancement of Itraconazole	M.Pharm	15-Jul-23	Purnima Dhanraj Amin
64	20PHM207	Chaitrali Gulabrao Kale	Preparation, characterization and In Vitro evaluation of herbal decoction and its spray dried powder for immunomodulatory, antiinflammatory and anti-microbial Activity.	M.Pharm	13-Feb-23	Sadhana Sathaye
65	20PHC204	Shraddha Vilas Gayakwad	-	M.Pharm	21-Jan-23	Shreerang Vidyadhar Joshi
66	21PHP206	Satyam Gupta	Antimalarial Drug Combination loaded NLCs for Treatment of Severe Malaria	M.Pharm	15-Jul-23	Vandana B. Patravale
67	20PHC209	Navneet Kaur Kundi	Identification of Saccharin-based Anti-platelet candidates computationally targeting human platelet GP-VI receptor as its surface expression is enhanced on platelets in Type-II Diabetes	M.Pharm	13-Feb-23	Vikas Narendra Telvekar
68	19PHC202	Roopali Taterao Biradar	Computer-Aided Drug-Design, Synthesis and characterization of Benzotriazole based ligands as ?Anti-Diabetics? acting on estrogen related -receptor- (ERR-Alpha).	M.Pharm	06-Mar-23	Vikas Narendra Telvekar
69	21PHC202	Pooja Sudam Badve	Design and Synthesis of Antidiabetic Agent Based on GPCR.	M.Pharm	12-Jul-23	Vikas Narendra Telvekar
70	20BPT215	Rohini Bhanudasji Dhokne	CAL-B ENZYME APPLICATION IN GLYCERYL MONOSTEARATE PRODUCTION	M.Tech - Bioprocess Technology	15-Feb-23	Amit Prabhakar Pratap
71	21BPT207	Garima Mahajan	Fermentative production of surfactin and optimization of its yield using response surface methodology utilizing sucrose as the carbon source	M.Tech - Bioprocess Technology	05-Jul-23	Amit Prabhakar Pratap

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72	21BPT205	Bhargav Anantrao Ambekar	Isolation and characterization of protein from chicken feather waste	M.Tech - Bioprocess Technology	07-Jul-23	Aniruddha Bhalchandra Pandit
73	20BPT229	Pragya Singh	Separation of Value-added Products from Citrus Fruit Waste.	M.Tech - Bioprocess Technology	15-Feb-23	Hitesh S Pawar
74	20BPT228	Ashraf Firoz Ahmad Shaikh	Extraction, purification and characterization of a bioactive peptide from green macro algae (Ulva sp.)	M.Tech - Bioprocess Technology	15-Feb-23	Manju Bishan Sharma
75	20BPT218	Sourabh Santosh Gurav	Production of Exopolysaccharides from the probiotic Bacillus coagulans	M.Tech - Bioprocess Technology	15-Feb-23	Mariam S Degani
76	21BPT208	Ishu Tyagi	Intensification of Activity of Xylanase Enzyme using Ultrasound and its application for Brown Rice Polishing	M.Tech - Bioprocess Technology	14-Jul-23	Parag Ratnakar Gogate
77	21BPT217	Rohit Pralhadrao Kale	Investigation of impact of different hair oils on hair and hair proteins	M.Tech - Bioprocess Technology	07-Jul-23	Ratnesh Jain
78	19BPT201	Ajeet Kumar Yadav	METABOLIC ENGINEERING OF Ralstonia eutropha FOR PRODUCTION OF VALUE ADDED MOLECULES	M.Tech - Bioprocess Technology	18-Feb-23	Shalini Deb
79	19BPT223	Priyanka Yashwant Bare	Extraction of Phenolic acids from Terminalia Chebula using deep eutectic solvents.	M.Tech - Bioprocess Technology	13-Feb-23	Virendra Kisan Rathod
80	20BPT217	Siya Singh	Production, Optimization, and Purification of Pectinase Enzyme isolated from novel fungi Dipodascus sp. and its application in fruit juice clarification	M.Tech - Bioprocess Technology	15-Feb-23	Virendra Kisan Rathod
81	21DYE207	HIR YOGESHBHAI PATEL	Oxidation of Nitro Substituted Aromatic Compounds	M.Tech - Dyestuff and Intermediate Technology	14-Jul-23	Ganapati Subray Shankarling
82	21DYE202	Ajinkya Ashok Rothe	Synthesis and Characterization of Novel Phthalocyanine Dye: Photo catalytic, Antibacterial studies on cellulose Fabric	M.Tech - Dyestuff and Intermediate Technology	15-Jul-23	Nabanita Sadhukhan
83	19TXT214	Swaranjali Suhas Joshi	To Develop Bioplastic using Cellulose and Nano Particles	M.Tech - Fibres and Textiles Processing Technology	17-Jan-23	Ravindra D Kale
84	20FBT201	Aadya Vinay Sathe	Pectin based edible coating for the shelf life extension of perishable fruits and vegetables	M.Tech - Food Biotechnology	17-Mar-23	Jyoti Sagar Sontakke Gokhale
85	21FBT201	Aparnadevi P G	Microwave and Ultrasound assisted extraction of bioactives from food processing waste	M.Tech - Food Biotechnology	31-Oct-23	Jyoti Sagar Sontakke Gokhale
86	20FBT213	Pooja Vilas Parab	Influence of matrix pH on microbial inactivation in table grape juice during pulsed light treatment	M.Tech - Food Biotechnology	11-Feb-23	Snehasis Chakraborty
87	20FBT202	Abhinaya T U	Cold plasma pretreatment of rice straw for ethanol production	M.Tech - Food Biotechnology	22-Mar-23	Uday Shriramrao Annapure

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88	18FET215	Sukitha A	EFFECT OF TEA INFUSIONS ON GERMINATION OF VIGNA RADIATE	M.Tech - Food Engineering and Technology	30-Mar-23	Rekha Satishchandra Singhal
89	20FET207	Patel Akbarhusen Mahamadali	Non-Thermal and Advanced-Thermal Decontamination of Jaggery and Change in its Quality Attributes	M.Tech - Food Engineering and Technology	11-Feb-23	Snehasis Chakraborty
90	20FET209	Punam Mukherjee	Effect of cold plasma on physicochemical and rheological characteristics of Chickpea flour.	M.Tech - Food Engineering and Technology	11-Feb-23	Uday Shriramrao Annapure
91	19FET218	Manish Shambhoonath Chauhan	Effect of cold plasma treatment on modification of proso millet starch	M.Tech - Food Engineering and Technology	31-Mar-23	Uday Shriramrao Annapure
92	J21FET613	Pooja Prakash Kesarkar	Studies on Shelf Life Extension of Sugarcane Cubes	M.Tech - Food Engineering and Technology	29-Oct-23	Uday Shriramrao Annapure
93	J21FET601	Ajit Parmeshwar Munjal	Studies on Effect of Cold Plasma Treatment on Physicochemical and Functional Properties of Agar.	M.Tech - Food Engineering and Technology	31-Oct-23	Uday Shriramrao Annapure
94	J21FET604	Chaitanya Shivdas Badgujar	Studies on effect of cold plasma treatment on lactose	M.Tech - Food Engineering and Technology	31-Oct-23	Uday Shriramrao Annapure
95	J21FET614	Priyanka Minj	Studies on designing a hurdle approach for improving keeping quality of fresh-cut Carica papaya slices	M.Tech - Food Engineering and Technology	31-Oct-23	Uday Shriramrao Annapure
96	20GRT219	Tanvee Satishchandra Ozarkar	Efficient Esterification of Sorbitan Oleate by CALB in a Solvent Free System	M.Tech - Green Technology (Full Time)	13-Feb-23	Amit Prabhakar Pratap
97	20GRT222	Dheer Anand Rambhia	Use of Carbon Monoxide Surrogates in Carbonylation Reactions	M.Tech - Green Technology (Full Time)	26-Jan-23	Bhalchandra Mahadeo Bhanage
98	19GRT212	Nilam Ramchandra Parthe	Boosting degradation of persistent pharmaceuticals found in waste water treatment effluents using photocatalysis	M.Tech - Green Technology (Full Time)	12-Feb-23	Bhalchandra Mahadeo Bhanage
99	21GRT229	Sumit Vikas Patil	Titania doped nanoparticles for degradation of pharmaceutical drugs.	M.Tech - Green Technology (Full Time)	07-Jul-23	Bhalchandra Mahadeo Bhanage
100	21GRT201	Aishwarya Pradeep Rajhans	Synthesis of vanillin from p cresol using heterogeneous catalysts.	M.Tech - Green Technology (Full Time)	20-Nov-23	Lakshmi Kantam Mannepalli
101	20GRT234	Shweta Girish Malpure	Development of electrode materials for the Paracetamol sensor application Development of electrode materials for the Paracetamol sensor application	M.Tech - Green Technology (Full Time)	15-Feb-23	Neetu Jha
102	20GRT213	Mayuri Vijayrao Yelne	Ultrasound assisted treatment of sugarcane bagasse in the presence of metal salts and hydrogen peroxide	M.Tech - Green Technology (Full Time)	15-Feb-23	Parag Ratnakar Gogate
103	20GRT215	Prerna Virendra Pandey	Improved synthesis of catalyst using ultrasound and application in wastewater treatment	M.Tech - Green Technology (Full Time)	15-Feb-23	Parag Ratnakar Gogate
104	20GRT202	Ayushi Subhash Kawadkar	Ultrasonic Degradation of Polychloroprene	M.Tech - Green Technology (Full Time)	17-Feb-23	Parag Ratnakar Gogate

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105	21GRT207	Danwyn Jeethan Aranha	Ultrasound Assisted intensified Dehydration of Fructose into 5-Hydroxymethylfurfural (5-HMF)	M.Tech - Green Technology (Full Time)	04-Jul-23	Parag Ratnakar Gogate
106	21GRT204	Arjun Amal Sheth	Optimization of heat and ultrasound assisted extraction of anthocyanin from Hibiscus Rosa Sinensis Linn calyces for use as natural food colorants.	M.Tech - Green Technology (Full Time)	04-Oct-23	Parag Ratnakar Gogate
107	21GRT215	Maaz Masood Kazi	Microwave assisted Solvent less Green Synthesis of Pharmaceutical Intermediates	M.Tech - Green Technology (Full Time)	30-Nov-23	Parag Ratnakar Gogate
108	20GRT211	Makarand Subodh Patil	Amine regeneration over metal oxide catalysts for improved post combustion CO ₂ capture	M.Tech - Green Technology (Full Time)	28-Mar-23	Prakash D. Vaidya
109	20GRT212	Manisha Kishan Tope	Heterogeneous Iron Catalysts for Wet Air Oxidation of Model Compounds in Biomethanated Distillery Wastewater	M.Tech - Green Technology (Full Time)	28-Apr-23	Prakash D. Vaidya
110	21GRT216	Nanhelal Ramrup Prajapati	Study of Aqueous Phase Hydrogenation of Biomass-Derived 5- Hydroxymethylfurfuraldehyde (5- HMF) Over Ruthenium Catalyst in a Batch Stirred Reactor.	M.Tech - Green Technology (Full Time)	06-Jul-23	Prakash D. Vaidya
111	21GRT212	Kamalnayan Tibrewal	Formulation and Characterization of A Novel Bioink For Development of Cultivated Meat Using 3D Bioprinting Technique	M.Tech - Green Technology (Full Time)	07-Jul-23	Ratnesh Dharamchandra Jain
112	20GRT236	Christine Paul Vazhathara	Development of Microbial Fuel Cell for Performance Enhancement	M.Tech - Green Technology (Full Time)	31-Mar-23	Vilas Gajanan Gaikar
113	19GRT205	Darshik Bharatkumar Modi	Value-added product from industrial waste	M.Tech - Green Technology (Full Time)	13-Feb-23	Virendra Kisan Rathod
114	20GRT203	Banwari Lal Saini	Studies in ultrasound assisted degradation of cefdinir in pharmaceutical wastewater	M.Tech - Green Technology (Full Time)	08-Dec-23	Virendra Kisan Rathod
115	20OIL202	Avishkar Shitalkumar Bhagat	Synthesis of Cocoa butter alternative form Kokum fat by the process of Enzymatic acidolysis	M.Tech - Oils Oleochemicals and Surfactants Technology	15-Feb-23	Chandu S Madankar
116	19OIL212	Roza Anil Bagde	Enzymatic synthesis of Monoglycerides from Capric acid and its Antimicrobial study	M.Tech - Oils Oleochemicals and Surfactants Technology	28-Mar-23	Chandu S Madankar
117	20OIL209	Pranjali Vilas Mandavkar	Environmentally Friendly Non-ionic Surfactants Based on Carbohydrates	M.Tech - Oils Oleochemicals and Surfactants Technology	02-Apr-23	Jyotsna Sanjeev Waghmare
118	20OIL208	Akshay Dilip Patil	Synthesis of ?- Amylcinnamaldehyde: An Important Fragrance Chemical	M.Tech - Oils Oleochemicals and Surfactants Technology	24-Feb-23	Pintu Kumar Kundu
119	19PER205	Hemlata Dudhnath Shukla	Extraction of essential oil from citrus peels and its optimization	M.Tech - Perfumery and Flavour Technology	22-Mar-23	Ganapati Subray Shankarling

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120	18PER205	Joselin kirupa dorathy David	Studies in ultrasound assisted extraction of clove leaf oil from Indian clove and its application in fragrance and flavour	M.Tech - Perfumery and Flavour Technology	29-Mar-23	Ganapati Subray Shankarling
121	20PER201	Ajit Ashok Satwadhar	Solvent-Free Ultrasound Assisted Enzymatic Synthesis of Benzyl Acetate	M.Tech - Perfumery and Flavour Technology	14-Feb-23	Jyotsna Sanjeev Waghmare
122	20PER213	Riya Sudam Bhosle	Determination of Volatile Oil Composition of Indian Valerian.	M.Tech - Perfumery and Flavour Technology	02-Feb-23	Kirti Shivchandra Laddha
123	20PER205	Drushti Vishwas Kute	Determination of volatile oil composition of various species of Indian mango leaf	M.Tech - Perfumery and Flavour Technology	15-Feb-23	Kirti Shivchandra Laddha
124	20PER214	Shraddha Radhakisan Dighe	Determination of chemical composition of volatile oil from the leaves of Feronia Limonia Growing in Nashik district in Maharashtra.	M.Tech - Perfumery and Flavour Technology	15-Feb-23	Kirti Shivchandra Laddha
125	20PER216	Sumit Ganesh Gundayya	Synthesis of Diphenyl Oxide By Ball Mill and Design of Experiment	M.Tech - Perfumery and Flavour Technology	10-Feb-23	Satyajit Saha
126	19PER202	Aditya Sindhusagar Dhule	Microencapsulation of fennel seed oil and its application in personal and oral care formulations.	M.Tech - Perfumery and Flavour Technology	28-Feb-23	Satyajit Saha
127	20PER208	Mahesh Vajjanath Mitkari	New and Novel Method of Synthesis of Rose Crystal	M.Tech - Perfumery and Flavour Technology	15-Feb-23	Shreerang Vidyadhar Joshi
128	21PER204	Gajanan Sopan Zambre	Synthesis of Phenyl Ethyl Alcohol Based Perfumery Compounds.	M.Tech - Perfumery and Flavour Technology	31-Oct-23	Shreerang Vidyadhar Joshi
129	21PBT210	Vivek Kumar Dokania	Evaluation of Mitochondrial Targeted Polyphenols for Their Activity and Toxicity	M.Tech - Pharmaceutical Biotechnology	26-Nov-23	Mariam S Degani
130	20PBT203	Hardeep Singh	Thermo-responsive polymer layer for in vitro monoculture of retinal pigmented epithelial cells	M.Tech - Pharmaceutical Biotechnology	12-Dec-23	Prajakta Dandekar Jain
131	20PBT211	Kajal Gajanan Telgote	To investigate the formulation excipients for their potential to overcome proteolytic degradation of salmon calcitonin	M.Tech - Pharmaceutical Biotechnology	11-Jul-23	Ratnesh Dharamchandra Jain
132	21PBT201	Aaditi Deepak Belnekar	Increasing enzymatic stability of salmon calcitonin to enhance its oral delivery potential	M.Tech - Pharmaceutical Biotechnology	15-Jul-23	Ratnesh Dharamchandra Jain
133	21PBT207	Seemran Sanatan Maharana	Evaluation of the pharmacological activity of Ursolic acid and luteolin on rotenone induced cytotoxicity in SH SY5Y cell line	M.Tech - Pharmaceutical Biotechnology	30-Nov-23	Sadhana Sathaye
134	19PBT208	Rani Sanjay Gorde	In Vitro Blood Brain Barrier: Model Development and Validation	M.Tech - Pharmaceutical Biotechnology	15-Feb-23	Vandana B. Patravale

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135	21PBT208	Sonali Nitin Hanjankar	Fabrication of an artificial Blood Brain Barrier model	M.Tech - Pharmaceutical Biotechnology	16-Jul-23	Vandana B. Patravale
136	21PHT215	Sudittokumar Uttamkumar Sen	Extraction and Isolation of Pterostilbene from Pterocarpus Marsupium	M.Tech - Pharmaceutical Chemistry and Technology	19-Aug-23	Kirti Shivchandra Laddha
137	21PHT209	Rajesh Sanjay Lanke	Synthesis and process optimization of intermediate ortho tolyl benzonitrile (OTBN)	M.Tech - Pharmaceutical Chemistry and Technology	15-Jul-23	Mariam S Degani
138	20PHT206	Laxmi Sesaram Choudhari	Repurposing of Metformin HCl as a nanoformulation for Targeted drug delivery	M.Tech - Pharmaceutical Chemistry and Technology	13-Feb-23	Padma Venkitachalam Devarajan
139	21PHT208	Pranita Ambar Pagare	Formulation and evaluation of Nanoemulsion based emulgel of Luliconazole for topical fungal infection	M.Tech - Pharmaceutical Chemistry and Technology	15-Jul-23	Pradeep Ratilal Vavia
140	21PHT213	Shivani Singh	3D printing technology for designing Oral Thin Films (OTFs) for personalized application	M.Tech - Pharmaceutical Chemistry and Technology	23-Nov-23	Prajakta Dandekar Jain
141	21PHT212	Sharvari Prakash Mane	Design, Synthesis, and Characterization of Novel Photoaffinity probes	M.Tech - Pharmaceutical Chemistry and Technology	20-Dec-23	Prashant Suresh Kharkar
142	21PHT205	Kiran Laxman Shahane	Multi-functional mucosal gel for post-radiated vaginal stenosis	M.Tech - Pharmaceutical Chemistry and Technology	15-Jul-23	Purnima Dhanraj Amin
143	21PHT202	Apurva Abhinay Pol	Buccal delivery of Vitamin B12 using dissolving microneedles.	M.Tech - Pharmaceutical Chemistry and Technology	12-Dec-23	Vandana B. Patravale
144	20PHT209	Pallavi Dnyaneshwar Jawarkar	Process development of Saccharin from o toluene sulfonamide	M.Tech - Pharmaceutical Chemistry and Technology	27-Jan-23	Vikas Narendra Telvekar
145	20PHT205	Komal Bhimrao Kamite	Process Development of O toluene sulfonamide from O-toluene sulfonyl chloride	M.Tech - Pharmaceutical Chemistry and Technology	12-Feb-23	Vikas Narendra Telvekar
146	20SUR210	Pradnya Dattatray Desai	Development of Anti-corrosive coatings with corrosion inhibitors.	M.Tech - Surface Coating Technology	15-Feb-23	Aarti Purushottam More
147	20SUR218	Tessa Mathew	High solid content flexible coating using SIS binder	M.Tech - Surface Coating Technology	15-Feb-23	Ramanand Namdeo Jagtap
148	20SUR204	Dhiraj Subhashrao Pokale	Composite SEBS Polymer for Peelable coating.	M.Tech - Surface Coating Technology	31-Mar-23	Ramanand Namdeo Jagtap
149	21SUR213	Pranjal Kumar	Epoxy coating for Anti Corrosion with induced healing capabilities	M.Tech - Surface Coating Technology	15-Jul-23	Ramanand Namdeo Jagtap
150	21SUR202	ANISHA ANIL DICHOLKAR	Development of hybrid PU acrylate	M.Tech - Surface Coating Technology	04-Jul-23	S T Mhaske
151	J21PHT611	Rahul Tukaram Haramkar	Development of Scalable Process for Intermediates of Nilotinib, Imatinib	M.Tech in Pharmaceutical Chemistry and Technology	15-Jul-23	Ganesh Ulhasrao Chaturbhuj

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152	B21PHT707	Pratik Vijay Gujrani	Formulation and Development of niosomal based intranasal In-situ gel of Efavirenz.	M.Tech in Pharmaceutical Chemistry and Technology	26-Dec-23	Pradeep Ratilal Vavia
153	B21PHT708	Radha Sachchidana nd Wattamwar	Formulation and evaluation of nanomicelles for the ocular drug delivery of brinzolamide	M.Tech in Pharmaceutical Chemistry and Technology	30-Dec-23	Pradeep Ratilal Vavia
154	J21PHT604	Gauri Vijay Banchhod	Chemistry of Ticlopidine HCl for the prevention of stroke	M.Tech in Pharmaceutical Chemistry and Technology	02-Dec-23	Shreerang Vidyadhar Joshi
155	J21PHT605	Gautami Prakash Shinde	Synthetic Routes of Anethole	M.Tech in Pharmaceutical Chemistry and Technology	03-Dec-23	Shreerang Vidyadhar Joshi
156	B20PHT710	Vrushabh Ramesh Zod	Development and Evaluation of Bilayer Anti Diabetic Tablets	M.Tech in Pharmaceutical Chemistry and Technology	19-Dec-23	Vandana B. Patravale
157	B21PHT702	Bhargavi Dilip Kale	Rapid and Environmentally benign synthesis of 1,2,4-triazolidine- 3-thione using greener approach	M.Tech in Pharmaceutical Chemistry and Technology	13-Dec-23	Yatin Ulhas Gadkari
158	B21PHT706	Omkar Changdev Dongare	Efficient and Expeditious Synthesis of Benzodiazepine Derivatives.	M.Tech in Pharmaceutical Chemistry and Technology	13-Dec-23	Yatin Ulhas Gadkari
159	B21PHT709	Rahul Sandip Hire	Improve protocol for the synthesis of Tetrahydropyridine and its derivatives.	M.Tech in Pharmaceutical Chemistry and Technology	14-Dec-23	Yatin Ulhas Gadkari
160	B21PHT704	Mayuri Sukdev Sathe	Methodology Development for the synthesis of Pyrazolopyranopyri midinone Derivatives.	M.Tech in Pharmaceutical Chemistry and Technology	18-Dec-23	Yatin Ulhas Gadkari
161	B21PHT715	Tanushree Dilip Nikam	Development of effective and eco friendly methodology of synthesis of Triaryl pyridine	M.Tech in Pharmaceutical Chemistry and Technology	19-Dec-23	Yatin Ulhas Gadkari
162	B21PHT717	Yashashri Vijay Ghate	Facile green synthesis and optimization of intermediate polyhydroquinolin e using Hantzsch reaction	M.Tech in Pharmaceutical Chemistry and Technology	19-Dec-23	Yatin Ulhas Gadkari
163	J20POL602	Vasanth Kumar Nagarajan	Biodegradation study of PLA/ PCL diol based PU blends	M.Tech Polymer Engineering and Technology	03-Feb-23	Adarsh Ramesh Rao
164	20CHE204	Amey Nandkumar Majlekar	Microbial Spoilage Detection in Raw Milk Using Portable Rapid Sensor	Master of Chemical Engineering	08-Mar-23	Aniruddha Bhalchandra Pandit
165	19CHE201	Abhishek Merchant	Pyrolysis of Biomass and Upgrading of Pyrolysis Products	Master of Chemical Engineering	06-Sep-23	Aniruddha Bhalchandra Pandit
166	21CHE225	Shubham Shankar Mhatre	Performance of Vapor Absorption Refrigeration System with Water as a Working Fluid	Master of Chemical Engineering	13-Dec-23	Bhagwat S S
167	20CHE212	Chinmay Jaiswal	Commissioning and taking readings from Fruit and Vegetable Cold Storage	Master of Chemical Engineering	18-Dec-23	Bhagwat S S

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168	21CHE228	Swati Sukhadeo More	Encapsulation of essential oil in spray dryer	Master of Chemical Engineering	21-Nov-23	Bhaskar Narayan Thorat
169	20CHE229	Yashkumar Thakorbbhai Patel	Computational Fluid Dynamics of Transport phenomena in Flow Reactors	Master of Chemical Engineering	31-Jan-23	Channamallikarjun Sidramayya Mathpati
170	20CHE203	Ajay Kumar Verma	Crystallization of Pharmaceutical Drugs In Presence of Additives	Master of Chemical Engineering	12-Feb-23	Manishkumar Dinesh Yadav
171	20CHE210	Bharat Rengarajan	Ultrasound assisted improved crystallization of Dimethyl Sulphone	Master of Chemical Engineering	08-Feb-23	Parag Ratnakar Gogate
172	20CHE205	Anjana M	Synthesis and particle size optimization of Metformin Hydrochloride Sodium Alginate microspheres using ultrasonic atomization.	Master of Chemical Engineering	13-Feb-23	Parag Ratnakar Gogate
173	21CHE224	Shubham Joshi	Mapping of cavitation activity distribution in ultrasonic reactor using cavitation activity meter and dye degradation	Master of Chemical Engineering	13-Jul-23	Parag Ratnakar Gogate
174	21CHE208	Himanshu Raj Verma	Valorization of Industrial and Domestic Waste into Useful Products	Master of Chemical Engineering	06-Dec-23	Sachin Vijay Jadhav
175	21CHE218	Rahul Ramji Ramteke	Ultrasound Assisted Alkaline Extraction of Lignin from Green Coconut Mesocarp	Master of Chemical Engineering	06-Nov-23	Virendra Kisan Rathod
176	20CHE214	Himanshi Singh	Model of Biogas Production	Master of Chemical Engineering	15-Feb-23	Vishwanath h Dalvi
177	20CHE222	Ruchi Kumari	Modelling of Batch distillation	Master of Chemical Engineering	15-Feb-23	Vishwanath h Dalvi
178	21CHE203	Amit Gautam	Understanding concentration polarization in Forward Osmosis processes	Master of Chemical Engineering	27-Dec-23	Vishwanath h Dalvi
179	21PLS212	Vikas Bhausaheb Mhaske	Synthesis of Biodegradable Mulching Film from Biopolymers and Natural Fibers for Agricultural Applications	Master of Plastic Engineering	08-Dec-23	Dilip Dhondur Sarode
180	21PLS208	Jeya Varshini S	A comparative study on Lifetime Assessment of virgin and recycled Polyamides using Conventional and Mathematical Approaches	Master of Plastic Engineering	04-Jul-23	Rai Sujit Nath Sahai



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Sr.	Roll No.	Student Name	Project Title	Department Name	Last Submission Date	Guide Name
1	13CHY4026	Prabijna Suyasha shaka Babu	Study of performance of alkali metal ceramic sorbents for hydrogen production via CO ₂ -sorption enhanced steam reforming	Ph.D (Sci) - Chemistry	01-Oct-23	Prakash D. Vaidya
2	13PHP4002	Krantisagar Shivaram More	Nanotechnology approaches for bioenhanced delivery of nutraceuticals and nutraceutical - drug combination	Ph.D (Tech) - Pharmaceutics	11-Jul-23	Padma Venkitachalam Devarajan
3	14CHE4012	Sudhir Suresh Gandhi	Intensified production of biofuels from Sustainable biomass Sources	Ph.D (Tech) - Chemical Engineering	26-Dec-23	Parag Ratnakar Gogate
4	14FBT4003	Sachin Ramdas Adsare	Studies in coconut processing and valorization of its by-products	Ph.D (Tech) - Food Biotechnology	06-Dec-23	Uday Shriramrao Annapure
5	14PHP4007	Rohit Shivaji Pawar	Development of Novel Treatment Module for Dengue	Ph.D (Tech) - Pharmaceutics	04-Dec-23	Vandana B. Patravale
6	15CHE4006	Nita Mahendra Mehta	Reaction Network Modelling of Processing Reactions In Petroleum Refining	Ph.D (Tech) - Chemical Engineering	04-Nov-23	Vilas Gajanan Gaikar
7	15CHE4032	Hrushikesh Ghanashyam Patil	Design and fabrication of polymeric membranes and their application for waste-water treatment	Ph.D (Tech) - Chemical Engineering	04-Jul-23	Kumudinee Vinayak Marathe
8	15PHP4005	Pratik Shailendra Kakade	Smart Lipidic Nanocarrier System for Topical Delivery	Ph.D (Tech) - Pharmaceutics	15-Dec-23	Vandana B. Patravale
9	16BIT402	Nikhil Laxman Kadalag	Phaeodactylum tricornutum as a model diatom host platform for feed, functional molecules, and fuel application	Ph.D (Sci) - Biotechnology	30-Nov-23	Gunjan Prakash
10	16CHE407	Prashant Manoharrao Ingole	Studies in Degradation of Pharmaceutical Wastewater using Advanced Oxidation Techniques	Ph.D (Tech) - Chemical Engineering	28-Nov-23	Virendra Kisan Rathod
11	16CHE413	Tukaram Udhavrao Shinde	Experimental and computational studies of novel heat transfer devices.	Ph.D (Tech) - Chemical Engineering	07-Nov-23	Vishwanath h Dalvi
12	16CHY412	Vinaya Bhagwat Ghodake	The utilization of cellulosic waste from industrial process wastes streams	Ph.D (Sci) - Chemistry	06-Jul-23	S T Mhaske
13	16PHP404	Sukhada Satish Shevade	Long Acting Parenteral Depot Systems for Alzheimer's Disease	Ph.D (Tech) - Pharmaceutics	31-Oct-23	Padma Venkitachalam Devarajan

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14	17BIT401	Aparna Tripathi	Nanoparticle-based platform for the detection of biomolecules	Ph.D (Sci) - Biotechnology	06-Dec-23	Prajakta Dandekar Jain
15	17CHY412	Rahul Kalyanrao More	Transition metal supported on cobalt and ceria doped Hydroxyapatite for complete oxidation of diesel engine exhaust and volatile organic compound.	Ph.D (Sci) - Chemistry	20-Dec-23	Pavan Manohar More
16	17GRT402	Shreerang Dattatray Datar	Development of high performance materials for capacitive deionization	Ph.D (Tech) - Green Technology	17-Feb-23	Neetu Jha
17	18BIT404	Jayshri Pramod Khadilkar	Microalgal cultivation for biomanufacturing of value-added products	Ph.D (Sci) - Biotechnology	30-Dec-23	Gunjan Prakash
18	18BIT407	Prasad Harishchandra Pawar	Isolation, screening, molecular characterization, and in vitro, in vivo efficacy studies of Bacillus spp.-based biocontrol agents against plant pathogenic root knot nematode Meloidogyne spp.	Ph.D (Sci) - Biotechnology	14-Nov-23	Prajakta Dandekar Jain
19	18CHE416	Mitra Satapathy	Valorisation of lignocellulosic biomass to functional materials for enabling circular economy.	Ph.D (Tech) - Chemical Engineering	25-Oct-23	Saurabh Chandrakant Patankar
20	18CHY401	Sushant Shamrao Bhalerao	Development of novel chemical transformation and application in API and it's intermediate synthesis	Ph.D (Sci) - Chemistry	21-Dec-23	Hemchandra Keshav Chaudhari
21	18CHY418	Aminul Islam Sk	Synthesis of Azobenzene-Based Photoswitchable NHeterocyclic Carbene Complexes and Photomodulation of Its Electronic Properties to Tune Catalytic Activity.	Ph.D (Sci) - Chemistry	12-Oct-23	Pintu Kumar Kundu
22	18CHY423	Manish Kumar	Design, synthesis, and fine-tuning of azo compounds for chemical and biological applications.	Ph.D (Sci) - Chemistry	04-Dec-23	Mariam S Degani
23	18CHY426	Indrajeet Rajebhau Warkad	Nanocomposites and Single-Atom Catalysts for Organic Transformations	Ph.D (Sci) - Chemistry	26-Dec-23	Manoj Bhanudas Gawande

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24	18CHY430	Manjunath Shivaji Lokolkar	Studies in Transition Metal Catalyzed Coupling and Carbonylation Reactions for Synthesis of Fine Chemicals	Ph.D (Sci) - Chemistry	02-Jan-24	Bhalchandra Mahadeo Bhanage
25	18ELC401	Sourav Choubey	An Energy-Efficient Electrolysis Method for Heavy Metal Extraction from E-Waste	Ph.D (Tech) - Electrical Engineering	26-Oct-23	Prerna Prateek Goswami
26	18MEC409	Punit Vilas Gharat	Development of solar thermal technologies for substituting fossil fuels for medium temperature applications	Ph.D (Tech) Mechanical Engineering	03-Oct-23	Suresh Pandurang Deshmukh
27	18PHG402	Shilpa Godiyal	Studies On Natural Gallates	Ph.D (Tech) - Pharmacognosy	30-Nov-23	Kirti Shivchandra Laddha
28	18PHG404	Vishal Gokul Beldar	Development of Technology for Extraction & Isolation of Important Natural Triterpenoid	Ph.D (Tech) - Pharmacognosy	06-Jul-23	Kirti Shivchandra Laddha
29	18PHY401	Somnath Ramnath Khaladkar	Transition Metal Chalcogenide Nanostructures for Energy Storage Applications	Ph.D (Sci) - Physics	21-Dec-23	R R Deshmukh
30	18POL403	Kunal Khushal Wadgaonkar	Development of Guar Gum based Biodegradable Films	Ph.D (Tech) - Polymer Engineering and Technology	31-Oct-23	Ramanand Namdeo Jagtap
31	19CHE405	Lakshmi N J	Intensified wastewater treatment using cavitation based combined advanced oxidation processes	Ph.D (Tech) - Chemical Engineering	26-Dec-23	Parag Ratnakar Gogate
32	19CHE407	Sumit Shrikant shruti Joshi	Application of Machine learning(AI) for the estimation of design parameters and prediction of multiphase reactor performance	Ph.D (Tech) - Chemical Engineering	27-Dec-23	Vishwanath h Dalvi
33	19CHE410	Namrata Upreti	Development of improved solvents for CO2 removal from biogas	Ph.D (Tech) - Chemical Engineering	08-Dec-23	Prakash D. Vaidya
34	19CHE415	Rohini Sudhakar Zambare	A Model Compound Study On Hydrogen Production By Aqueous-Phase Reforming of Wet Biomass Feeds	Ph.D (Tech) - Chemical Engineering	30-Dec-23	Prakash D. Vaidya

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35	19CHY405	Purushottam Janardan Sutar	HPLC analytical method development for quantification of inorganic reagents, their applications, and impurities in Active Pharmaceutical Ingredients	Ph.D (Sci) - Chemistry	20-Dec-23	Ganesh Ulhasrao Chaturbhuj
36	19CHY415	Ravi kumar Bandaru	Tuning Physicochemical Characteristics of Anti-Cancer and Anti-Ischemic Drugs by Crystal Engineering Approach	Ph.D (Sci) - Chemistry	02-Dec-23	Rambabu Dandela
37	19FBT402	Smriti Sushil Chaturvedi	Process development of synbiotic legume-based beverage and instant beverage powder	Ph.D (Tech) - Food Biotechnology	31-Jan-23	Snehasis Chakraborty
38	19FET402	Lubna Begum Shaik	Thermal and Nonthermal Pasteurization of Sweet Lime Juice	Ph.D (Tech) - Food Engineering and Technology	07-Jul-23	Snehasis Chakraborty
39	19PHY402	Pratibha Sampatrao Jadhav	Structure morphology of Modified cellulose nitrate polymer blends for engineering applications.	Ph.D (Sci) - Physics	07-Nov-23	Girish Mukundrao Joshi
40	19PHY403	Manav Raj Kar	Towards lead-free metal halide perovskites for various applications	Ph.D (Sci) - Physics	07-Dec-23	Saikat Bhaumik
41	19PHY404	Priyanka Priyadarshini	Metal selenide based semiconductors for multifunctional applications.	Ph.D (Sci) - Physics	29-Nov-23	Ramakanta Naik
42	20CHY421	Omkar Sharad Kamble	Sustainable Synthetic Methodology for the Synthesis of Potent Organic Molecules and their Biological Studies.	Ph.D (Sci) - Chemistry	05-Oct-23	Rambabu Dandela
43	20OIL401	Akshay Shankar Kadam	Value added Structured Lipids and Specialty Esters from Vegetable oils their fractions and oil refinery by products having various industrial applications.	Ph.D (Tech) - Oils Oleochemicals and Surfactants Technology	26-Nov-23	Amit Prabhakar Pratap
44	20OIL402	Anurag Madhav Bapat	Study and Modification of tree borne seed specialty fats and its application in food and cosmetics.	Ph.D (Tech) - Oils Oleochemicals and Surfactants Technology	31-Jan-23	Chandu S Madanka



[PUBLICATIONS]

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1	Ponugoti, SS; Vibuthe, RS; Detke, S.J; Kharkar, PS; Joshi, SV	Organocatalyzed ipso hydroxylation of aryl boronic acids in aqueous medium: A metal free approach	Synthetic Communications	2023	53	12	893	906
2	Bhukta, S; Chatterjee, R; Dandela, R	Metal-free oxidative radical arylation of styrene with anilines to access 2- arylacetophenones and selective oxidation of amine	Journal of Molecular Structure	2023	1279	134995		
3	Ghag, SS; Gokhale, JS; Lele, SS	Effect of chemical pretreatment on quality attributes of the cashew apple	Journal of Food Science	2023	88	6	2353	2367
4	Salim, SS; Masram, LB; Gadkari, YU; Barkule, AB; Telvekar, VN	Tartaric Acid as an Expeditious and Green Catalyst for the Synthesis of 1,2,4-Triazolidine-3-thiones in an Aqueous Medium	Organic Preparations and Procedures International	2023	55	6	584	590
5	Patil, PS; Gupta, PO; Ingole, GS; Sekar, N	Anthrone-Based Carbocyclic Azo Dyes: Synthesis, Dyeing, UV Protection, Anti-microbial Activity and Computational Study	Fibers and Polymers	2023	24	4	1285	1296
6	Kumar, M; Degani, MS	Arylazopyrazole linked Schiff bases as organocatalysts for the ipso hydroxylation of arylboronic acids for the synthesis of phenols	Tetrahedron Letters	2023	131	154785		
7	Pravallika, K; Shaik, L; Chakraborty, S	Changes in the quality attributes of pulsed light and thermally pasteurized pomegranate (Punica granatum) juice stored at refrigerated condition (4 °C)	Journal of Food Measurement and Characterization	2023	17	6	6620	6638
8	Ray, A; Singhal, RS	Hydrogel formulation based on galactomannan from residual spent coffee ground confers bioactivities and viscosifying properties in milkshake	Food Bioscience	2023	55	102958		
9	Dhar, R; Chakraborty, S	Pasteurization of bael fruit (Aegle marmelos) juice using high-intensity pulsed light treatment	Food Control	2023	152	109826		
10	Madankar, CS; Borde, PK	Review on sophorolipids - a promising microbial bio-surfactant	Tenside Surfactants Detergents	2023	60	2	95	105
11	Kumari, P; Saldanha, M; Jain, R; Dandekar, P	Controlling monoclonal antibody aggregation during cell culture using medium additives facilitated by the monitoring of aggregation in cell culture matrix using size exclusion chromatography	Journal of Pharmaceutical and Biomedical Analysis	2023	234	115575		
12	Tathare, SS; Goswami, P	Squirrel Search Optimized FSS Based Filtered Frequency Reconfigurable Antenna for 5G Applications (Sub-6 GHz)	Wireless Personal Communications	2023	131	4	2811	2839
13	Khade, P; Bhakare, M; Lokhande, K; Some, S	A Copper Composite Embedded in Graphene Oxide as an Efficient Mordant to Enhance the Properties of Natural Dyes for Cotton Fabric	Chemistryselect	2023	8	24	e202204247	
14	Bhise, RS; Ghorpade, PV; Mehta, VR; Shankarling, GS	Deep Eutectic Solvent-Mediated Oxidative Homocoupling of Terminal Alkynes to 1,3-Diynes under Mild Green Conditions	Chemistryselect	2023	8	15	e202203985	

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15	Kumawat, KL; Patil, H; Athalye, A	Recycling of waste PET for functionalised textile finishing	Indian Journal of Fibre & Textile Research	2023	48	1	80	84
16	Ul Karim, MA; Aithal, V; Bhowmick, AR	Random variation in model parameters: A comprehensive review of stochastic logistic growth equation	Ecological Modelling	2023	484	110475		
17	Chaturvedi, S; Chakraborty, S	Evaluation of quality attributes and in vitro characteristics of synbiotic legume-based beverage during storage	Food Bioscience	2023	55	103000		
18	Joseph, P; Kundu, PK	Imine-Linked Porous Organic Polymer Gel and Immobilization of Copper(II): Easy Synthesis and Excellent Catalyst for Huisgen [3+2] Cycloaddition Reactions	Chemistryselect	2023	8	21	e202301141	
19	Basak, S; Jha, T; Chakraborty, S	Pasteurization of tender coconut water by pulsed light treatment: Microbial safety, enzymatic inactivation, and impact on physicochemical properties	Innovative Food Science & Emerging Technologies	2023	84	103302		
20	Bandivadekar, PV; Gavali, KD; Chaturbhuj, GU	Sulfated Polyborate Catalyzed Improved Synthesis of Enamines and Enaminones Based Intermediates of Imatinib, Nitotinib and Ocinapton	Chemistryselect	2023	8	5		
21	Nonglail, DL; Gokhale, JS	Review Insights on the Demand for Natural Pigments and Their Recovery by Emerging Microwave Assisted Extraction (MAE)	Food and Bioprocess Technology	2024	17	7	1681	1705
22	Chimthanawala, NMA; Haria, A; Sathaye, S	Non-invasive Biomarkers for Early Detection of Alzheimer's Disease: a New-Age Perspective	Molecular Neurobiology	2024	61	1	212	223
23	Bhakare, MA; Bondarde, MP; Lokhande, KD; Dhumal, PS; Some, S	Quick transformation of polymeric waste into high valuable N-self doped carbon quantum dot for detection of heavy metals from wastewater	Chemical Engineering Science	2023	281	119150		
24	Bhadke, PK; Gadkari, YU; Salim, SS; Masram, LB; Telvekar, VN	L-Proline assisted expeditious and efficient methodology for the preparation of 2-amino-3-cyanopyridines under aqueous conditions	Journal of Chemical Sciences	2023	135	3	68	
25	Chakraborty, S; Parab, P	Pulsed light treatment of table grape juice: Influence of matrix pH on microbial and enzyme inactivation kinetics	Food Bioscience	2023	53	102662		
26	Savitha, S; Chakraborty, S; Thorat, BN	Drying of onion shreds in corrugated electric and solar-conduction dryers: Techno-economic evaluation and quality degradation kinetics	Drying Technology	2023	41	11	1859	1877
27	Jahagirdar, D; Jain, R; Dandekar, P	In vitro triple culture model of retinoblastoma for pre-clinical investigations	Biotechnology Journal	2023	18	5		
28	Patel, AM; Dhar, R; Chakraborty, S	Pulsed light, microwave, and infrared treatments of jaggery: Comparing the microbial decontamination and other quality attributes	Food Control	2023	149	109695		

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29	More, H; Shukla, VK; Sekar, N	Study of structural characteristics and charge distribution in pyranocoumarins: A computational approach	Computational and Theoretical Chemistry	2024	1231	114438		
30	Kalaivendan, RGT; Eazhumalai, G; Annapure, US	Impact of pin-to-plate cold plasma depolymerization on the gelation and functional attributes of guar galactomannan	Journal of Food Process Engineering	2023	46	7	e14340	
31	Damle, S; Madankar, C	An overview on eco-friendly polyglycerol esters of fatty acid, synthesis and applications	Tenside Surfactants Detergents	2023	60	6	611	621
32	Kalaivendan, RGT; Eazhumalai, G; Annapure, US	Impact of Novel Atmospheric Pin-to Plate Cold Plasma on a Seed Galactomannan: Physical and Chemical Characteristics and Its Application in Orange Juice Stabilization	Food and Bioprocess Technology	2024	17	1	169	187
33	Cheke, RS; Kharkar, PS	Covalent inhibitors: An ambitious approach for the discovery of newer oncotherapeutics	Drug Development Research	2024	85	1		
34	Patil, H; Athalye, A	Valorization of Corn Husk Waste for Textile Applications	Journal of Natural Fibers	2023	20	1	2E+06	
35	Ramugade, SH; Nagaivan, S	Silicone nanomicelle dyeing method on polyester fibre: Comparative evaluation of chemical properties, fastness properties, and DFT	Journal of the Indian Chemical Society	2023	100	4	100960	
36	Pegu, K; More, P; Arya, SS	Application of different orifices for hydrodynamic cavitation effects on deactivation of Escherichia coli and Staphylococcus aureus in milk	Food and Bioproducts Processing	2023	141	49	59	
37	Desai, R; Jain, R; Dandekar, P	Surfactants reduce aggregation of monoclonal antibodies in cell culture medium with improvement in	Biotechnology Progress	2023	39	6	e3370	
38	Sadawarte, PD; Annapure, US	Study of the behavior and properties of frying oil on repetitive deep frying	Journal of Food Science and Technology-Mysore	2023	60	10	2549	2556
39	Jena, BJ; Das, S; Senapati, S; Naik, R	Stability of Ag2S/As2Se3 thin films under time dependent laser irradiation and its impact on linear nonlinear optical properties for optoelectronic applications	Optics and Laser Technology	2023	164	109461		
40	Rajput, YN; Kulkarni, RD	Unlocking the potential: Cost efficient and sustainable synthesis of polyglycerol ester derivatives from industrial by-products, surface properties evaluation and development of moisturizing creams	Industrial Crops and Products	2023	204	117291		
41	Supriya, S; Das, S; Senapati, S; Naik, R	One-pot hydrothermal synthesis of Cu2Te/NiTe nanocomposite materials: A structural, morphological, and optical study	Journal of the American Ceramic Society	2023	106	10	5955	5964
42	Kahar, SP; Shelar, A; Annapure, US	Effect of pin-to-plate atmospheric cold plasma (ACP) on microbial load and physicochemical properties in cinnamon, black pepper, and fennel	Food Research International	2024	177	113920		

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43	Gaware, S; Kamble, O; Chatterjee, R; Kotkondawar, AV; Dandela, R	Silver molybdate (Ag-PMo12) nanocomposite: An efficient catalyst for the one-pot synthesis of 3,3-diindolyl derivatives in aqueous medium	Chemistryselect	2023	8	44	e202303462	
44	Das, S; Senapati, S; Naik, R	1D metal telluride heterostructure: A review on its synthesis for multifunctional applications	Journal of Alloys and Compounds	2023	968	171923		
45	Kawadkar, AS; Gogate, PR	Intensified depolymerization using ultrasound - A review of mechanisms, reactors, operating conditions and applications	Chemical Engineering and Processing Process Intensification	2023	191	109446		
46	Eazhumalai, G; Kalaivendan, RGT; Annapure, US	Effect of atmospheric pin-to-plate cold plasma on oat protein: Structural, chemical, and foaming characteristics	International Journal of Biological Macromolecules	2023	242	125103		
47	Ray, A; Sharma, A; Singhal, RS	Porous hydrogel composite with whey protein isolate and galactomannans of Leucaena leucocephala (subabul) seeds: Stability, rheological, thermal, and morphological characterization	Journal of Food Science	2023	88	5	2104	2129
48	Thakur, R; Sanap, P; Patil, S; Pratap, A	Synthesis of 12-hydroxystearic estolide and its esters to study the effect of molecular structure on physicochemical properties	Industrial Crops and Products	2023	205	117435		
49	Bondarde, MP; Lokhande, KD; Bhakare, MA; Dhumal, PS; Some, S	Development and demonstration of highly potent flame-retardant cotton fabric	Reaction Chemistry & Engineering	2023	8	10	2466	2472
50	Sanjanwala, D; Patravale, V	Aptamers and nanobodies as alternatives to antibodies for ligand targeted drug delivery in cancer	Drug Discovery Today	2023	28	5	103550	
51	Wani, R; Chaudhari, HK	Sulfated Starch: A Highly Efficient Catalyst for Transamidation of Primary and Secondary Amines with Formamide and Acetamide	Organic Preparations and Procedures International	2024	56	3	277	288
52	Patil, PS; Sekar, N	Nonlinear optical properties of natural hydroxyanthraquinones studied using density functional theory (DFT) technique	Journal of Photochemistry and Photobiology A Chemistry	2024	446	115151		
53	Gaware, S; Chatterjee, R; Kotkondawar, AV; Dandela, R	Efficient Cross-Dehydrogenative Coupling (CDC) Enabled by Cu PMo12 towards the Synthesis of Pyrimidinyl Carbamates at Room Temperature	Asian Journal of Organic Chemistry	2023	12	7		
54	Attar, ES; Chaudhari, VH; Deokar, CG; Dyawanapelly, S; Devarajan, PV	Nano Drug Delivery Strategies for an Oral Bioenhanced Quercetin Formulation	European Journal of Drug Metabolism and Pharmacokinetics	2023	48	5	495	514
55	Patil, H; Surve, K; Athalye, A	Degumming of Eri silk by Sapindus (soapnut) extract and optimisation by response surface methodology	Coloration Technology	2023	139	6	719	727

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56	Rout, SR; Kenguva, G; Giri, L; Kar, A; Dandela, R	Binary to ternary drug-drug molecular adducts of the antihypertensive drug ketanserin (KTS) with advanced physicochemical properties	Chemical Communications	2023	59	31	4640	4643
57	Godiyal, S; Laddha, K	Validated high-performance thin layer chromatographic method for quantification of gallic acid and ellagic acid in fruits of Terminalia chebula, Phyllanthus emblica, and Quercus infectoria	Journal of Separation Science	2023	46	6		
58	Jana, SB; Singhal, RS	Co-crystallization of sucrose with Azadirachta indica extract and zinc sulfate: a simultaneous approach towards debittering and food fortification	Journal of Food Measurement and Characterization	2024	18	2	1433	1451
59	Bhise, RS; Patil, YA; Shankarling, GS	Green synthesis of the copper and iron phthalocyanine-based metal organic framework as an efficient catalyst for methylene blue dye degradation and oxidation of cyclohexane	Reaction Chemistry & Engineering	2023	8	12	3046	3059
60	Kaur, P; Annapure, US	Effects of pin-to-plate atmospheric cold plasma for modification of pearl millet (Pennisetum glaucum) starch	Food Research International	2023	169	112930		
61	Padwal, V; Narvekar, A; Dugam, S; Pachpore, R; Dandekar, P; Jain, R	Elucidating the role of 2-methyl imidazolium dihydrogen phosphate in preventing aggregation of Bevacizumab: A biophysical investigation	Journal of Molecular Liquids	2023	390	122968		
62	Kumaran, A; Bhagwat, A; Jain, R; Dandekar, P	Comparison between carbohydrate and salt-based macromolecular crowders for cell preservation at higher temperatures	3 Biotech	2023	13	6	184	
63	Patil, H; Deshmukh, I; Athalye, A	Sustainable process for the pretreatment and dyeing of Eri silk	Journal of the Indian Chemical Society	2023	100	2	100925	
64	Basak, S; Singhal, RS	Inclusion of konjac glucomannan in pea protein hydrogels improved the rheological and in vitro release properties of the composite hydrogels	International Journal of Biological Macromolecules	2024	257	128689		
65	Ray, A; Sharma, A; Singhal, RS	A water-absorbent hydrogel prepared with arabinoxylans from flaxseed (Linum usitatissimum) and galactomannans from subabul (Leucaena leucocephala) impacts the growth and composition of cherry tomatoes in potted experiments	Journal of Cleaner Production	2023	429	139346		
66	Gavali, KD; Kudale, PR; Chaturbhuji, GU	Piperidinium borate catalyzed Knoevenagel condensation of carbonyl compounds with active methylenes	Tetrahedron Letters	2023	123	154537		
67	Chakraborty, S; Mahale, S; Dhar, R	Response surface optimization of the enzymatic clarification process for apple ber juice and pasteurization by thermal and pulsed light treatments	Journal of Food Measurement and Characterization	2023	17	5	4495	4505

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68	Kaimal, AM; Singhal, RS	A bigel based formulation protects lutein better in the gastric environment with controlled release and antioxidant profile than other gel based systems	Food Chemistry	2023	423	136304		
69	Chatterjee, R; Dandela, R	Recent advances in ionic liquid mediated selective fluorination of organic compounds	Journal of Fluorine Chemistry	2023	268	110133		
70	Chauhan, M; Kalaivendan, RGT; Eazhumalai, G; Annapure, US	Atmospheric pressure pin-to-plate cold plasma effect on physicochemical, functional, pasting, thermal, and structural characteristics of proso-millet starch	Food Research International	2023	173	113444		
71	Bandivadekar, PV; Chaturbhuj, GU	Catalyst-free one-pot synthesis of 2,4,5-tri- and 1,2,4,5-tetrasubstituted imidazoles	Journal of Heterocyclic Chemistry	2024	61	3	430	438
72	Sharma, A; Ray, A; Sathaye, S; Singhal, RS	A supercritical fluid co-extract of turmeric powder and dried coconut shreds shows neuroprotection against AIC13-induced Alzheimer's disease in rats through nose to brain delivery	Bioorganic Chemistry	2024	143	107046		
73	Chakraborty, S; Shaik, L	Influence of matrix pH on batch thermal pasteurization of sweet lime juice: Global kinetic models for Saccharomyces cerevisiae and polyphenol oxidase inactivation and degradation of vitamin C	Journal of Food Process Engineering	2023	46	12	e14437	
74	Bagwe, PV; Thakur, VP; Kharkar, PS; Joshi, S	Synthesis, characterization, and dissolution properties of Aceclofenac-isobutalammonium salt	Journal of the Indian Chemical Society	2023	100	11	101093	
75	Sharma, SJ; Sekar, N	A promising small-sized near infrared absorbing zwitterionic dye for DSSC and NLO applications: DFT and TD-DFT approaches	Physical Chemistry Chemical Physics	2023	25	43	30023	30039
76	Bhukta, S; Kamble, OS; Chatterjee, R; Dandela, R	PIDA-Catalysed oxidative C-C bond cleavage for the direct synthesis of benzoic acids and antibacterial studies of the amides derivatives	Journal of the Indian Chemical Society	2023	100	10	101095	
77	Mehta, V; Boraste, D; Patil, Y; Shankarling, G	Cucurbit[6]uril synthesis using ethan-1, 2-diyl bis (hydrogen sulfate): A greener reaction medium	Journal of Molecular Liquids	2023	380	121739		
78	More, H; Shukla, VK; Patil, P; Sekar, N	Toxicity of 3 and 3,6-disubstituted coumarins: A computational approach	Journal of the Indian Chemical Society	2023	100	12	101110	
79	Sahoo, D; Naik, R	Phase-change-driven tuning of linear and nonlinear optical properties of Te/As ₂ Se ₃ bilayer thin films for optoelectronic applications	Materials Science and Engineering B Advanced Functional Solid State Materials	2023	297	116750		
80	Danait-Nabar, S; Singhal, RS	Investigation into the chemical modification of α-amylase using octenyl succinic anhydride: enzyme characterisation and stability studies	Bioprocess and Biosystems Engineering	2023	46	5	645	664
81	Ibrahim, MK; Haria, A; Mehta, N; Degani, MS	Antimicrobial potential of quaternary phosphonium salt compounds: a review	Future Medicinal Chemistry	2023	15	2113	2141	82

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22	Bhalerao, S; Chaudhari, H	Mild method for conversion of N Alkoxyamides to esters using N Chloro-N- (phenylsulfonyl) benzenesulfonamide	Tetrahedron Letters	2023	123			154539
83	Tripathi, A; Jain, R; Dandekar, P	Rapid visual detection of Mycobacterium tuberculosis DNA using gold nanoparticles	Analytical Methods	2023	15	20	2497	2504
84	Ahlawat, A; Basak, S; Ananthanarayan, L	Formulation of a probiotic buttermilk powder using cell protectants by spray drying and estimation of its shelf-stability	International Dairy Journal	2023	141	105616		
85	Dhumal, PS; Lokhande, KD; Bondarde, MP; Bhakare, MA; Some, S	Aqua-mediated in situ synthesis of highly potent phosphorous functionalized flame retardant for cotton fabric	Journal of Applied Polymer Science	2024	141	4		
86	Senapati, S; Naik, R	Multicolor emitting luminescent MgO nanocubes for implication in ratiometric optical thermometry	Surfaces and Interfaces	2023	39	102919		
87	Sahoo, P; Chakraborty, S	Influence of Pulsed Light, Ultrasound, and Series Treatments on Quality Attributes, Pectin Methyl Esterase, and Native Flora Inactivation in Sweet Orange Juice (Citrus sinensis L. Osbeck)	Food and Bioprocess Technology	2023	16	9	2095	2112
88	Kumari-Maurya, S; Annapure, US	Comparative Assessment of Pulse Light Treatment and Holder Pasteurization on Nutritional, Physicochemical, Antioxidant, and Microbiological Profile of Human Milk	Journal of Human Lactation	2024	40	1	179	179
89	Patil, H; Panda, A; Maiti, S; Athalye, A; Adivarekar, RV	Solvent-based stripping method for dyed cellulosic textiles	Journal of the Textile Institute	2024	115	11	2098	2105
90	Ajgaonkar, BS; Kumaran, A; Kumar, S; Jain, RD; Dandekar, PP	Cell-based Therapies for Corneal and Retinal Disorders	Stem Cell Reviews and Reports	2023	19	8	2650	2682
91	Gupta, PO; Sharma, SJ; Sekar, N	Theoretical investigation of substitution effect on the sixth and seventh positions of coumarin derivatives	Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy	2024	304	123373		
92	Bagwe, PV; Thakur, VP; Kharkar, PS; Joshi, SV	Mycophenolic acid isobutanolammonium salt: synthesis, structural characterization, and solubility investigations	Journal of Thermal Analysis and Calorimetry	2023	148	10	4247	4254
93	Khan, Z; Sekar, N	Deep Red to NIR Emitting Xanthene Hybrids: Xanthene-Hemicyanine Hybrids and Xanthene-Coumarin Hybrids	Chemistryselect	2023	8	5		
94	Adsare, SR; Annapure, US	Partially defatted coconut flour as a functional ingredient in replacement of refined wheat flour for development of fiber rich muffins	Journal of Food Science and Technology-Mysore	2024	61	3	491	502
95	Saiswani, K; Narvekar, A; Jahagirdar, D; Jain, R; Dandekar, P	Choline chloride:glycerol deep eutectic solvents assist in the permeation of daptomycin across Caco-2 cells mimicking intestinal bilayer	Journal of Molecular Liquids	2023	383	122051		

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96	Darji, HR; Kale, HB; Shaikh, FF; Gawande, MB	Advancement and State-of-art of heterogeneous catalysis for selective CO ₂ hydrogenation to methanol	Coordination Chemistry Reviews	2023	497	215409		
97	Gawande, SM; Sarode, DD	TREATMENT OF RURAL DOMESTIC WASTEWATER WITH ARTIFICIAL CONSTRUCTED WETLANDS USING Ipomoea carnea AND Ricinus castor PLANTS	Environmental Engineering and Management Journal	2023	22	9	1523	1534
98	Roychowdhury, R; Maiti, S; Adivarekar, RV; Singhal, RS	Sustainable dyeing of silk using an acetylshikonin-based natural colourant from the lichen Parmotrema perlatum	Green Chemistry	2024	26	2	904	917
99	Mehta, NV; Degani, MS	The expanding repertoire of covalent warheads for drug discovery	Drug Discovery Today	2023	28	12	103799	
100	Basak, S; Singhal, RS	The potential of supercritical drying as a green method for the production of food-grade bioaerogels: A comprehensive critical review	Food Hydrocolloids	2023	141	108738		
101	Bhukta, S; Chatterjee, R; Dandela, R	Metal-free, 2-MeTHF mediated C(sp)-H functionalization of alkynes with anilines to access diaryl 1,2-diketones bearing lower E-factors	Green Chemistry	2023	25	8	3034	3039
102	Chatterjee, R; Pothireddy, M; Dandela, R	Copper-Catalyzed Decarboxylative Cascade Cyclization for the Synthesis of 2-Arylquinolines	Synlett	2023	34	9	1058	1062
103	Agarkoti, C; Chaturvedi, A; Gogate, PR; Pandit, AB	Degradation of sulfamerazine using ultrasonic horn and pilot scale US reactor in combination with different oxidation approaches	Separation and Purification Technology	2023	312	123351		
104	Kadam, RS; Yadav, GD	Process integration of hydrolysis and hydrogen generation processes in the six-step Cu-Cl cycle for green hydrogen production	International Journal of Hydrogen Energy	2024	49	862	876	
105	Amberkar, T; Mahanwar, P	Microencapsulation study of bioderived phase change material beeswax with ethyl cellulose shell for thermal energy storage applications	Energy Sources Part A-Recovery Utilization and Environmental Effects	2023	45	4	11803	11818
106	Lokolkar, MS; Bhanage, BM	Palladium-Catalyzed Carbonylative Homocoupling of 2-Iodophenols for the Synthesis of Symmetrical Xanthones	Synlett	2023	34	19	2329	2335
107	Sarode, UK; Vaidya, PD	On the CO ₂ absorption kinetics, loading capacity, and catalytic desorption of aqueous solutions of N-methyl-D-glucamine	Canadian Journal of Chemical Engineering	2023	101	10	5956	5966
108	Joshi, S; Agarkoti, C; Gogate, PR	Mapping of 20 L capacity ultrasonic reactor using cavitation activity meter and dye degradation	Ultrasonics Sonochemistry	2023	101	106688		
109	Maiti, D; Tade, R; Sabnis, AS	Development of bio-based polyester-urethane-acrylate (PUA) from citric acid for UV-curable coatings	Journal of Coatings Technology and Research	2023	20	3	1083	1097

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110	Desai, SM; Sonawane, RY; More, AP	Thermoplastic polyurethane for three-dimensional printing applications: A review	Polymers For Advanced Technologies	2023	34	7	2061	2082
111	Ganjare, AV; Patwardhan, AW	CFD Study of Effect of Particles on Flow Patterns and Separation in Settling Tank	Journal of Hydraulic Engineering	2023	149	1	4E+06	
112	Patra, DK; Thombre, AV; Kundu, D	Generalized Pitzer-Debye-Hückel (PDH) Framework for the Deep Eutectic Solvent Assisted Extraction of Europium (III), Americium (III), and Uranium (VI)	Solvent Extraction and Ion Exchange	2024	42	1	78	104
113	Lakshmi, NJ; Surabhi, P; Gogate, PR; Pandit, AB	Treatment of Bio-Refractory Real Effluent from Polymer Processing Industry Using Cavitation-Based Hybrid Treatment Techniques	Arabian Journal For Science and Engineering	2024	49	6	7893	7912
114	Jaiswal, SJ; Sonare, SN; Mahanwar, PA	Thermal Energy Storage Material Based on High Density Polyethylene Filled with Graphene Oxide Modified Microencapsulated Eutectic Mixture of Fatty Acid	Journal of Polymers and the Environment	2024	32	1	150	163
115	Kumar, M; Agarkar, H; Degani, MS	New Schiff Base-Linked Arylazopyrazoles as Reagents for the Photometric Detection of Fluoride Ions	Journal of Analytical Chemistry	2023	78	7	866	877
116	Thite, AG; Kale, RD; Panda, PK; More, DM	Up-scaling of cellulose acetate electrospun nanofibers with a needleless wire spinneret technique	Cellulose	2023	30	8	4873	4888
117	Chaudhari, SS; Patil, NG; Mahanwar, PA	A review on microencapsulated phase change materials in building materials	Journal of Coatings Technology and Research	2024	21	1	173	198
118	Sharma, SJ; Aswathy, P; Joe, H; Sekar, N	Effect of donor and π -spacer for non-linear optical property: Synthesis, photophysical studies, and Z-scan analysis	Journal of Molecular Liquids	2023	385	122439		
119	Sutar, P; Kadam, R; Yadav, GD	Process simulation-based life cycle assessment of the six-step Cu-Cl Cycle of green hydrogen generation and comparative analysis with other Cu-Cl cycles	International Journal of Life Cycle Assessment	2023	28	6	651	668
120	Zambare, RS; Vaidya, PD	Hydrogen Production by Aqueous Phase Reforming of Macroalgal Biomass Using a Pt/Al ₂ O ₃ Catalyst	Industrial & Engineering Chemistry Research	2023	62	43	17451	17460
121	Mehta, N; Gaikar, VG	Revisiting Reaction Network Modeling of Thermal Cracking of Hydrocarbons	Industrial & Engineering Chemistry Research	2023	62	45	18973	18988
122	Ingole, PM; Rathod, VK	Ultrasound-assisted enzymatic degradation of naproxen	Journal of the Indian Chemical Society	2023	100	8	101040	
123	Mishra, S; Mukherjee, J; Chaturvedi, D; Jain, R; Dandekar, P	The mechanisms and properties of inertial microfluidics: from fundamental models to biomedical applications	Microfluidics and Nanofluidics	2023	27	12	84	

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124	Pawar, C; Mahajan, D; Bind, R; Jadhao, D; Desai, P; Bagde, H; More, A	Development of Mixed Metal Oxides-Conductive Polymer Composites for an Anticorrosive Application	Arabian Journal For Science and Engineering	2023	48	6	7841	7854
125	Maity, D; Sabnis, AS	Anhydride-cured epoxidized dehydrated castor oil (EDCO) containing organically modified zinc oxide (ZnO) nanoparticles	Journal of Industrial and Engineering Chemistry	2023	123	459	475	
126	Badgujar, KC; Bhanage, BM	Editorial overview: Ionic liquids as a potential media for sustainable applications	Current Opinion In Green and Sustainable Chemistry	2023	40	100739		
127	Rawate, HD; Vaidya, PD	CO2 absorption kinetics and equilibrium solubility measurements in potassium salts of renewable amino acids from plant- and animal protein	Canadian Journal of Chemical Engineering	2024	102	2	899	910
128	Kolekar, YA; Saptal, VB; Bhanage, BM	Carbonylative Self-Coupling of Aryl Boronic Acids Using a Confined Pd Catalyst within Melamine Dendron and Fibrous Nano-Silica: A CO Surrogate Approach	Chemistry-A European Journal	2023	29	50		
129	Mhatre, MM; Katariya-Jain, A; Deshmukh, RR	Improved electro-optical and dielectric properties of polymer dispersed liquid crystal doped with disperse dye red 1 and carbon nanoparticles	Liquid Crystals	2023	50	6	957	976
130	Bhanushali, S; Srivats, DS; Mishra, P; More, AP	Silica/coconut shell charcoal/high density polyethylene/linear low density polyethylene composites	Iranian Polymer Journal	2023	32	5	571	584
131	Singh, KA; Kundu, D	Comprehensive thermodynamic modeling framework for the estimation of physico-chemical properties of deep eutectic solvent heavy crude oil system	Journal of Molecular Liquids	2023	392	123489		
132	Vispute, K; Mukke, A; More, AP	Poly(o-anisidine), its composites, derivatives and applications: A review	Polymers For Advanced Technologies	2024	35	1		
133	Joshi, S; Joshi, R; Jadhao, M	Fluoride Induced Dual Mode Moisture Detection in Organic Solvents, Food, and Agricultural Materials using Benzothiazole Based Azo Dye Sensor	Chemistryselect	2023	8	23	e202301034	
134	Pothireddy, M; Chatterjee, R; Penke, VB; Dandela, R	I2/TBHP-mediated oxidative cascade cyclization of vinyl azide and benzylamine to construct 2,5-disubstituted oxazoles	Organic & Biomolecular Chemistry	2023	21	27	5521	5526
135	Sahu, R; Kapdi, AR	PTABS: A Unique Water-Soluble π -Acceptor Caged Phosphine	Synlett	2023	34	8	912	930
136	Mehta, NV; Abhyankar, A; Degani, MS	Elemental exchange: Bioisosteric replacement of phosphorus by boron in drug design	European Journal of Medicinal Chemistry	2023	260	115761		

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137	Jagtap, PA; Lokolkar, MS; Bhanage, BM	Cu-Mediated Tandem 2,3- Disubstituted Indole Synthesis from Simple Anilines and Internal Alkynes via C-H Annulation	Journal of Organic Chemistry	2023	88	15	10960	10973
138	Mapari, S; Mestry, S; Mhaske, ST	Development of cardanol-derived epoxidized and Si-modified pressure-sensitive adhesives (PSAs)	International Journal of Adhesion and Adhesives	2023	126	103443		
139	Nehete, M; De, SPR; Degani, M; Tatke, P	A topical formulation of Anacardium occidentale L. leaves extract enhances wound healing via mediating TNF- α and TGF- β	Indian Journal of Experimental Biology	2023	61	6	424	435
140	Vaidya, PD; Mohan, S; Upreti, N	Improved CO ₂ Separation Using Aqueous Solutions of 2-Amino-2- hydroxymethyl- 1,3-propanediol Promoted with Piperazine	Energy & Fuels	2023	37	9	6651	6660
141	Ranjekar, AM; Yadav, GD	Rice Husk Ash-Derived Ca-Mg Modified Silicate as Support for Ni Co for Hydrogen Production by Sorption-Enhanced Steam Reforming of Bioethanol	Industrial & Engineering Chemistry Research	2023				
142	Patil, DA; Naiker, VE; Phalak, GA; More, AP; Mhaske, ST	Synthesis of benzoxazine from eugenol and its co-polymerization with a gallic acid-based epoxy resin for flame retardant application	Polymer Bulletin	2024	81	8	7441	7465
143	Bhanage, BM	Festschrift in Honor of Professor Ganapati D. Yadav	Journal of the Indian Chemical Society	2023	100	11	101094	
144	Kadam, VM; Yadav, GD	Development of a Green Process for the Synthesis of Cyclopentanone Using Selective Aqueous Phase Hydrogenation of Furfural over Ni Cu@MOF-5 Catalyst	Industrial & Engineering Chemistry Research	2023	62	43	17408	17427
145	Mariammal, M; Sahane, N; Tiwari, S	Water-soluble anionic N-confused porphyrin for sensitive and selective detection of heavy metal pollutants in aqueous environment	Analytical Sciences	2023	39	8	1317	1325
146	Ranjekar, AM; Yadav, GD	Hydrogen production by steam reforming of methanol by Cu Zn/CeAlO ₃ perovskite	New Journal of Chemistry	2023	47	10	4860	4870
147	Kapale, SS; Gaikhe, H; Chaudhari, HK	Lipase as Biocatalyst- for Synthesis of Phenol by Using Box-Behnken Design	Polycyclic Aromatic Compounds	2024	44	6	4261	4272
148	Rawate, HD; Vaidya, PD	Evaluating CO ₂ -Desorption Performance of Solid Acid Catalysts in CO ₂ -Loaded Aqueous Solutions of N-Ethylethanamine	Industrial & Engineering Chemistry Research	2023	62	25	9787	9796
149	Gadhawe, RV	Improving the performance of gelatine glue using biocompatible polymers	Polymer Bulletin	2024	81	9	8177	8193
150	Mohire, SS; Yadav, GD	Selectivity Engineering and Efficacy of the Ru-Ni@ RGO Catalyst in Hydrogenation of p-tert-Butylphenol to p-tert-Butylcyclohexanol	Industrial & Engineering Chemistry Research	2023	62	46	19524	19535

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151	Das, S; Agarkoti, C; Gogate, PR	A novel method for the remediation of wastewater containing acid red 131 dye using acoustic cavitation combined with sulphur-doped TiO ₂ and oxidants	Environmental Monitoring and Assessment	2023	195	8	972	
152	Bhanushali, H; Mestry, S; Mhaske, ST	Castor oil-based UV-curable polyurethane acrylate resins for digital light processing (DLP) 3D printing technology	Journal of Applied Polymer Science	2023	140	18		
153	Dive, A; Singhal, R; Srivastava, S; Shukre, K; James, D; Shetty, S	Isolation and functional characterization of novel isoprene synthase from Artocarpus heterophyllus (jackfruit)	3 Biotech	2023	13	1	24	
154	Patwardhan, AW	Preface for Festschrift Issue in Honor of Professor Vivek V. Ranade	Industrial & Engineering Chemistry Research	2023	62	45	18835	18836
155	Gadhawe, RV; Vineeth, SK	Development and formulation of a novel plasticizer-free polyvinyl acetate-based wood adhesive	Journal of Adhesion Science and Technology	2024	38	11	1861	1879
156	Lanjekar, KJ; Rathod, VK	Recovery and separation of glycyrrhizic acid from Natural Deep Eutectic Solvent (NADES) extract by macroporous resin: adsorption kinetics and isotherm studies	Preparative Biochemistry & Biotechnology	2024	54	1	39	48
157	Vineeth, SK; Gadhave, RV	Corn starch blended polyvinyl alcohol adhesive chemically modified by crosslinking and its applicability as polyvinyl acetate wood adhesive	Polymer Bulletin	2024	81	1	811	825
158	Sundaramoorthy, E; Mahanwar, PA; Patil, J; Mundhe, G	Polyolefin fiber, polyolefin fiber reinforced composites and their applications: a review	Journal of Polymer Engineering	2023	43	3	219	230
159	Ranjekar, AM; Yadav, GD	Steam reforming of ethanol for hydrogen production: Efficacy of ceria promoted Cu-Co on mesoporous cellular foam silica	International Journal of Hydrogen Energy	2023	48	81	31550	31570
160	Kharat, BM; Vyavahare, SA; Shirapure, Y; Kerosenewala, J; Desai, P; More, AP	Synthesis and characterization of polypyrrole-fly-ash-adenosine composite reinforced epoxy coating for anticorrosive applications	Journal of Applied Polymer Science	2023	140	46		
161	More, AP; Chapekar, S	Irradiation assisted synthesis of hydrogel: A Review	Polymer Bulletin	2024	81	7	5839	5908
162	Balendran, SD; Kalaivendan, RGT; Theagarajan, R	Recent advances with cold plasma technology for millet processing: A brief review	Journal of Food Process Engineering	2024	47	1		
163	Pramanik, G; Mestry, S; Mhaske, ST	Development of silane/acrylate based hybrid polymer coating through sol-gel technique for anti corrosive application	Iranian Polymer Journal	2023	32	8	969	978
164	Upreti, N; Mohan, S; Vaidya, PD	2-Amino-2-hydroxymethyl-1,3- propanediol for CO ₂ capture: study on equilibrium, absorption kinetics, catalytic desorption, and amine regeneration	Chemical Engineering Communications	2024	211	2	205	220

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165	Maliwal, D; Pissurlenkar, RRS; Telvekar, V	Comprehensive computational study in the identification of novel potential cholesterol lowering agents targeting proprotein convertase subtilisin/kexin type 9	Current Science	2023	125	3	236	237
166	Shanbhag, VV; Mukherjee, J; Pandit, AB	Analytical and Numerical Investigations of Electrokinetic Micromixing in Electroosmotic Micromixers	Industrial & Engineering Chemistry Research	2023	62	45	18940	18951
167	Pathan, FL; Trimukhe, AM; Deshmukh, RR; Annapure, US	A peleg modeling of water absorption in cold plasma-treated Chickpea (Cicer arietinum L.) cultivars	Scientific Reports	2023	13	1	7857	
168	Pise, VH; Thorat, BN	Techno-economics feasibility of supercritical CO2 ambrette seed extraction for optimised parameters obtained using RSM	Journal of Applied Research On Medicinal and Aromatic Plants	2023	35	100490		
169	Datar, SD; Mane, RS; Kumar, N; Sawant, V; Malpure, S; Jha, N	Effective removal of heavy metal lead and inorganic salts by microporous carbon derived from Zeolitic Imidazolate Framework-67 electrode using capacitive deionization	Desalination	2023	558	116619		
170	Gaonkar, A; Murudkar, V; Deshpande, VD	Isothermal Crystallization, Melting Behavior and Mechanical Properties of Polyethylene Terephthalate (PET) and Reorganized PET (RPET)	Journal of Macromolecular Science Part B Physics	2023	62	3	105	128
171	Bhat, MS; Arya, SS	Esterified unpopped foxnut (Euryale ferox) starch: molecular and rheological characterization	Journal of the Science of Food and Agriculture	2023	103	5	2492	2501
172	Gokhale, TA; Jagtap, PA; Bhanage, BM	Fe-catalyzed Selective N Formylation Protocol for Amines Using Glycolic Acid as C1 Bio Building Block	Chemcatchem	2024	16	2		
173	Gupta, V; Odaneth, AA; Lali, AM	Continuous fermentation using high cell density cell recycle system for L-lactic acid production	Preparative Biochemistry & Biotechnology	2024	54	5	668	679
174	Sarode, UK; Vaidya, PD	Catalytic desorption of CO2-loaded solutions of diethylethanamine using bentonite catalyst	Canadian Journal of Chemical Engineering	2024	102	3	1262	1271
175	Rajgond, V; Mohite, A; More, N; More, A	Biodegradable polyester polybutylene succinate (PBS): a review	Polymer Bulletin	2024	81	7	5703	5752
176	Barkule, AB; Gadkari, YU; Salim, SS; Lomte, SB; Telvekar, VN	Guanidine Hydrochloride Catalyzed One-Pot Multi-Component Synthesis of Pyrazolopyranopyrimidine	Chemistryselect	2023	8	21	e202300990	
177	Ghodake, VB; Khare, RA; Mhaske, ST	A Simple Approach Towards Tuning Morphology of Microcrystalline Cellulose	Cellulose Chemistry and Technology	2023	57	5-6	475	485
178	Vikram, MV; Yadav, MD	Recent Advancements in Continuous Crystallization of Proteins	Crystal Research and Technology	2023	58	11		

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179	Waghmare, BV; Mahanwar, PA	Fabrication and characterization of microencapsulated dimethyl adipate phase change material with melamine-formaldehyde shell for cold thermal energy storage in coating	Journal of Polymer Engineering	2023	43	7	602	612
180	Shevade, SS; Rustumjee, MT; Devarajan, PV	Facile Technology for Extemporaneous Preparation of Long-Acting Injectable Microparticulate Suspensions at the Patient Side	Aaps Pharmscitech	2023	24	2	61	
181	Vasishta, A; Pawar, HS	PolyE-IL Is an Efficient and Recyclable Homogeneous Catalyst for the Synthesis of 5- Hydroxymethyl Furfural in a Green Solvent	Acs Omega	2023	8	1	1047	1059
182	Datar, SD; Kumar, N; Sawant, V; Shaikh, N; Jha, N	Solar reduced graphene oxide decorated with manganese dioxide nanostructures for brackish water desalination using asymmetric capacitive deionization	Physical Chemistry Chemical Physics	2023	25	44	30381	30390
183	Shejale, AD; Yadav, GD	Steam reforming of bio-alcohols over Ni-M (Cu, Co, Pt)/MCF-S (MgO, La2O3, CeO2) for renewable and selective hydrogen production: Synergistic effect of MCF silica and basic oxides on activity and stability profiles	Catalysis Today	2023	423	113934		
184	Doltade, S; Saldanha, M; Patil, V; Dandekar, P; Jain, R	Statistically-aided development of protein A affinity chromatography for enhancing recovery and controlling quality of a monoclonal antibody	Journal of Chromatography B Analytical Technologies In the Biomedical and Life Sciences	2023	1227	123829		
185	Pawar, CB; Desai, PD; Bagde, HN; More, AP	Designing of Layered Double Hydroxides (LDHs)-Conductive Polymer Composites for Epoxy Based Anticorrosive Coatings	Arabian Journal For Science and Engineering	2023	48	6	7739	7753
186	Naiker, VE; Phalak, GA; Patil, DA; More, AP; Mhaske, ST	Synthesis of phosphorous containing bio-based curing agent for flame retardant epoxy resin system	Journal of Coatings Technology and Research	2023	20	4	1325	1341
187	Bajpai, S; Nemade, PR	An integrated biorefinery approach for the valorization of water hyacinth towards circular bioeconomy: a review	Environmental Science and Pollution Research	2023	30	14	39494	39536
188	Moradiya, KK; Marathe, KV	Life cycle assessment (LCA) of marine microalgae cultivation and harvesting process for the Indian context	Sustainable Energy Technologies and Assessments	2023	56	103063		
189	Upasani, AA; Hirpara, YS; Gogate, PR	Ultrasound-assisted particle size reduction of palygorskite clay	Chemical Papers	2024	78	2	779	792
190	Deshpande, RD; Shah, DS; Gurram, S; Jha, DK; Batabyal, P; Amin, PD; Sathaye, S	Formulation, characterization, pharmacokinetics and antioxidant activity of phloretin oral granules	International Journal of Pharmaceutics	2023	645	123386		

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191	Mangukiya, MA; Bagwe, PV; Desai, AA; Joshi, SV	Development and Validation of Stability indicating HPLC method for determination of related substances and assay of Monobenzene drug substance	Journal of the Indian Chemical Society	2023	100	9	101060	
192	Lakshmi, NJ; Gogate, PR; Pandit, AB	Acoustic cavitation for the process intensification of biological oxidation of CETP effluent containing mainly pharmaceutical compounds: Understanding into effect of parameters and toxicity analysis	Ultrasonics Sonochemistry	2023	98	106524		
193	Jawale, PV; Bhanage, BM	Synthesis of decanoate compounds in deep eutectic solvent using lipase: Optimization using response surface methodology, kinetic and docking study	Journal of the Indian Chemical Society	2023	100	3	100950	
194	Aranha, DJ; Gogate, PR	A Review on Green and Efficient Synthesis of 5- Hydroxymethylfurfural (HMF) and 2,5-Furandicarboxylic Acid (FDCA) from Sustainable Biomass	Industrial & Engineering Chemistry Research	2023	62	7	3053	3078
195	Gite, VA; Rathod, VK	Synthesis of n-octyl acetate over fly ash cenosphere supported 10- tungsto-2-vanadophosphoric acid (H5PW10V2O40) as a heterogeneous catalyst: Kinetic study	International Journal of Chemical Kinetics	2023	55	4	204	218
196	Mahakal, PA; Rangwala, HT; Patwardhan, AW	Drop size distribution in batch stirred tank at high organic to aqueous phase ratios	Chemical Engineering Research & Design	2023	193	843	861	
197	Patil, SS; Rathod, VK	Extraction and purification of curcuminoids from Curcuma longa using microwave assisted deep eutectic solvent based system and cost estimation	Process Biochemistry	2023	126	61	71	
198	Joshi, AN; Vaidya, PD	Recent studies on aqueous-phase reforming: Catalysts, reactors, hybrid processes and techno economic analysis	International Journal of Hydrogen Energy	2024	49	117	137	
199	Joshi, AN; Vaidya, PD	Hydrogen Production by Aqueous Phase Reforming of Synthetic Sewage Using Pt/C Catalyst: Effect of Reaction Parameters and Pre Treatment Strategies	Waste and Biomass Valorization	2024	15	2	805	819
200	Agarkoti, C; Gujar, SK; Gogate, PR; Pandit, AB	Pilot scale degradation of Sulfamerazine using different venturi based hydrodynamic cavitation and ultrasound reactors in combination with oxidation processes	Journal of Environmental Chemical Engineering	2023	11	3	109857	
201	Chaturvedi, D; Paranjape, S; Jain, R; Dandekar, P	Disease-related biomarkers as experimental endpoints in 3D skin culture models	Cytotechnology	2023	75	3	165	193
202	Pasarkar, NP; Yadav, M; Mahanwar, PA	A review on the micro-encapsulation of phase change materials: classification, study of synthesis technique and their applications	Journal of Polymer Research	2023	30	1	13	
203	Mukherjee, J; Chaturvedi, D; Mishra, S; Jain, R; Dandekar, P	Microfluidic technology for cell biology-related applications: a review	Journal of Biological Physics	2024	50	1	1	27

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204	Sayed, SZ; Vaidya, PD	Chemical Looping-Steam Reforming of Biogas and Methane over Lanthanum-Based Perovskite for Improved Production of Syngas and Hydrogen	Energy & Fuels	2023	37	23	19082	19091
205	Mahakal, PA; Patwardhan, AW	CFD Modeling of Liquid-Liquid Batch-Stirred Tank at High Organic to Aqueous Phase Ratios	Industrial & Engineering Chemistry Research	2023	62	45	19323	19340
206	Haramkar, SS; Thorat, BN; Jadhav, SV	A Study on Controlling Losses of P2O5 from Phosphoric Acid Plant Using Pressure Filtration	Mining Metallurgy & Exploration	2023	40	5	1719	1727
207	Mahajan, VP; Kolekar, YA; Bhanage, BM	Ni/Al2O3: Catalyzed Carbonylative Homocoupling of Aryl Iodides for the Synthesis of Symmetrical Diaryl Ketone Using Co2(CO)8 as CO Surrogate	Catalysis Letters	2024	154	4	1440	1450
208	Bagwe, PV; Deshpande, RD; Juhasz, G; Sathaye, S; Joshi, SV	Uncovering the Significance of STEP61 in Alzheimer's Disease: Structure, Substrates, and Interactome	Cellular and Molecular Neurobiology	2023	43	7	3099	3113
209	Singh, RG; Yadav, GD	Synthesis of biphenyl via sustainable Suzuki-Miyaura coupling reaction using mesoporous MCF supported tin-palladium nanoparticles	Molecular Catalysis	2024	553	113747		
210	Tewari, S; Reshamwala, SMS; Bhatt, L; Kale, RD	Vegan leather: a sustainable reality or a marketing gimmick?	Environmental Science and Pollution Research	2024	31	3	3361	3375
211	Sutar, SV; Yadav, GD	Advancements in spray drying system for heat recovery, methodology, and economics: A review	Drying Technology	2023	41	16	2537	2565
212	Sequeira, RC; Godad, A	Understanding Glycogen Synthase Kinase-3: A Novel Avenue for Alzheimer's Disease	Molecular Neurobiology	2023				
213	Patil, NG; Chaudhari, SS; Mahanwar, PA	Microencapsulation of polymeric phase change materials (MPCM) for thermal energy storage in industrial coating applications	Journal of Polymer Engineering	2023	43	5	419	442
214	Gupta, V; Odaneth, AA; Lali, AM	High cell density continuous fermentation for L-lactic acid production from cane molasses	Preparative Biochemistry & Biotechnology	2023	53	9	1043	1057
215	Zambare, RS; Vaidya, PD	Aqueous-phase reforming of model compounds of wet biomass to hydrogen on alumina-supported metal catalysts	International Journal of Chemical Kinetics	2024	56	5	265	278
216	Singh, P; Vasishta, A; Pawar, HS	An Efficient and Recyclable Acid Catalyst (PolyE-IL) for Production of Pectin from Citrus Peel Waste	Chemistryselect	2023	8	38	e202301631	
217	Patel, MA; Kapdi, AR	Ambient-Temperature, Metal-Free, CDI-Mediated Ex-Situ Conversion of Acids to Amides: A Useful Late Stage Strategy	Chemistry-An Asian Journal	2023	18	22		

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218	Mestry, SU; Borse, PY; Satdive, AM; Gadgeel, AA; Mhaske, ST	Development of vanillin-based crosslinking agent with phase locked dynamic imine bonds for shape-memory polyurethanes	Materials Today Communications	2023	37	107259		
219	Thakur, R; Sanap, P; Gogate, P; Pratap, A	Ultrasound-assisted synthesis of oleic estolide: Optimization, process intensification and kinetic study	Chemical Engineering and Processing Process Intensification	2023	193	109533		
220	Singh, RG; Yadav, GD	Highly selective esterification of bioderived itaconic acid to monobutyl itaconate: kinetic analysis of a reusable 20% (w/w) Rb0.5Cs2.0H0.5PW12O40/MCF catalyst system	New Journal of Chemistry	2023	47	40	18577	18590
221	Kolekar, YA; Bhanage, BM	Palladium-Catalyzed Denitrogenative Self-carbonylation of Arylhydrazine Using CO and O2 as an Ideal Oxidant	Chinese Journal of Chemistry 2023	41	23	3216	3222	
222	Dev, MJ; Mahajan, GB; Warke, RG; Warke, GM; Patil, TA; Satardekar, MR; Dalvi, RC; Singhal, RS	Mutagenesis enhances gellan gum production by a novel <i>Sphingomonas</i> spp.: upstream optimization, kinetic modeling, and structural and physico-functional evaluation	International Microbiology	2024	27	2	459	476
223	Mahajan, D; Srivats, DS; More, A	Synthesis of vanillin-based UV curable polyurethane dispersions for wood coating applications	Journal of Coatings Technology and Research	2023				
224	Kaikade, DS; Sabnis, AS	Recent Advances in Polyurethane Coatings and Adhesives Derived from Vegetable Oil-Based Polyols	Journal of Polymers and the Environment	2023	31	11	4583	4605
225	Gote, YM; Sinhmar, PS; Gogate, PR	Sonocatalytic Degradation of Chrysoidine R Dye Using Ultrasonically Synthesized NiFe2O4 Catalyst	Catalysts	2023	13	3	597	
226	Patil, JR; Mahanwar, PA; Sundaramoorthy, E; Mundhe, GS	A review of the thermal storage of phase change material, morphology, synthesis methods, characterization, and applications of microencapsulated phase change material	Journal of Polymer Engineering	2023	43	4	354	375
227	Gadgil, VR; Darak, A; Patil, SJ; Chopada, A; Kulkarni, RA; Patil, SM; Gupta, NA; Mehta, TN; Joshi, SV	Recent developments in chemistry of sunscreens & their photostabilization	Journal of the Indian Chemical Society	2023	100	2	100858	
228	Rao, NH; Dalvi, VH; Patwardhan, AW	Design of a liquid organic hydrogen carrier (LOHC) dehydrogenation system integrated with the concentrated solar power (CSP) plant	International Journal of Hydrogen Energy	2023	48	89	34816	34835
229	Amberkar, T; Mahanwar, P	Thermal energy management in buildings and constructions with phase change material-epoxy composites: a review	Energy Sources Part A-Recovery Utilization and Environmental Effects	2023	45	1	727	761

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230	Gaidhani, A; Mahanwar, P	Conversion of waste polyolefins to polyethylene wax via pyrolysis	Energy Sources Part A-Recovery Utilization and Environmental Effects	2023	45	1	2112	2121
231	Patil, BR; Hatvate, NT; Bari, AH; Pinjari, D; Pandit, AB	Ultrasound-assisted facile and efficient synthesis of novel Benzoxazole derivatives from o aminocardanol using Indion 190 resin as a reusable catalyst	Journal of Chemical Sciences	2023	135	1	4	
232	Gadhawe, RV; Vineeth, SK	Synthesis and characterization of xanthan gum stabilized polyvinyl acetate-based wood adhesive	Polymer Bulletin	2024	81	8	7423	7440
233	Ghodake, VB; Khare, RA; Mhaske, ST	Preparation of strong viscose fibre by using cellulose nanocrystals as coating material	Cellulose	2023	30	18	11493	11506
234	Mhaske, VP; Jilkar, S; Yadav, MD	Minireview on Layered Transition Metal Oxides Synthesis Using Coprecipitation for Sodium Ion Batteries Cathode Material: Advances and Perspectives	Energy & Fuels	2023	37	21	16221	16244
235	Dayalan, P; Mahanwar, PA	Effect of nano silica on mechanical and water absorption properties of basalt/polyester hybrid composite with glass/hemp	Journal of Polymer Research	2023	30	9	341	
236	Chauhan, SM; Bhanage, BM	Metal-free synthesis of quinazolinone from 2-amino benzonitrile in the presence of formic acid as a C1 source	Tetrahedron Letters	2023	121	154482		
237	More, AP	Superabsorbent composites: a review	Polymer Bulletin	2024	81	3	1893	1956
238	Babar, S; Ebenezer, K; Mishra, D; Patil, HB; Nikam, P; Rao, AR	Synthesis of castor oil-based glycidyl carbamate polyurethane elastomer and its effect on toughening of polyoxymethylene	Journal of Materials Science	2023	58	16	7209	7226
239	Mahajan, V; Kolekar, YA; Bhanage, BM	Magnetically separable Ni/Fe3O4: An efficient catalyst for phenoxy carbonylation of aryl iodides using bifunctional o-chlorophenyl formate as a CO source	Applied Organometallic Chemistry	2023	37	4		
240	Sawant, SB; Mestry, SU; Mohanty, JD; Mhaske, ST; Gadekar, PT	Polyvinyl acetate and polyurethane vinyl acetate hybrid emulsion: synthesis, characterization and properties	Iranian Polymer Journal	2023	32	11	1421	1432
241	Gujar, SK; Gogate, PR; Sharma, A; Mishra, BR; Singh, D	Remediation of real industrial hypersaline effluent using sequential approach of precipitation followed by cavitation based oxidative process	Journal of Environmental Chemical Engineering	2023	11	5	110622	
242	Jadhav, G; Gaval, V	Comparative study of weld-line strength for unfilled and glass-filled thermoplastic polyamide-6 materials	Polymer Engineering and Science	2023	63	4	1116	1125
243	Goswami, AD; Shinde, DG; Singh, S; Jadhav, AJ; Pinjari, DV	Enhancing the hydrophobicity of the mineral wool through surface modification with organo-silane	Journal of the Indian Chemical Society	2023	100	10	101085	

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244	Paramane, R; Kataria, A; Mathpati, C; Kokil, P; Joshi, J	Performance Improvement of Biomass Cookstove: Insights from Computational Fluid Dynamics and Prototype Testing	Industrial & Engineering Chemistry Research	2023	62	45	19341	19356
245	Dey, A; Korde, S; Gogate, PR; Agarkoti, C	Sonochemical synthesis of Ce-TiO ₂ nanocatalyst and subsequent application for treatment of real textile industry effluent	Ultrasonics Sonochemistry	2023	96	106426		
246	Waghmode, AT; Pandit, AB; Kale, DM; Joshi, JB; Kokil, PL	Development and performance analysis of continuous cooking systems	Journal of Food Process Engineering	2023	46	4		
247	Babu, PSS; Vaidya, PD	Sorption-enhanced glycerol steam reforming over lithium cuprate based bifunctional material for the production of high-purity hydrogen	Molecular Catalysis	2024	553	113718		
248	Jadhav, G; Gaval, V	Weld-line strength prediction for glass fiber reinforced polyamide-6 material through integrative simulation and its experimental validation	Journal of Thermoplastic Composite Materials	2024	37	7	2447	2463
249	Sharma, SJ; Sonigara, KK; Machhi, HK; Soni, SS; Sekar, N	Significance of anchoring group design on light harvesting efficiency of dye-sensitized solar cells and non-linear optical response	Journal of Molecular Structure	2023	1294	136435		
250	Dudure, R; Joshi, R; Pritam, P; Panda, AK; Jadhao, M	Probing the interaction and aggregation of lysozyme in presence of organophosphate pesticides: a comprehensive spectroscopic, calorimetric, and in silico investigation	Journal of Biomolecular Structure & Dynamics	2024	42	20	10922	10936
251	Mahajan, UR; Emmanuel, I; Sreenivasarao, A; Mhaske, ST	Development of smart polyurethane foam with combined capabilities of thermal insulation and thermal energy storage by integrating microencapsulated phase change material	Polymer Bulletin	2023	80	12	13099	13115
252	Dixit, A; Sabnis, A; Balgude, D; Kale, S; Gada, A; Kudu, B; Mehta, K; Kasar, S; Handa, D; Mehta, R; Kshirsagar, S; Singh, A; Dalvi, R; Mishra, S	Synthesis and characterization of citric acid and itaconic acid-based two-pack polyurethane antimicrobial coatings	Polymer Bulletin	2023	80	2	2187	2216
253	Tshikovhi, N; More, K; Cele, Z	Driving Sustainable Growth for Small and Medium Enterprises in Emerging Urban-Rural Economies	Sustainability	2023	15	21	15337	
254	Narwade, JD; Odaneth, AA; Lele, SS	Solid-state fermentation in an earthen vessel: Trichoderma viride spore-based biopesticide production using corn cobs	Fungal Biology	2023	127	7-8	1146	1156
255	Das, S; Paikaray, S; Swain, I; Senapati, S; Naik, R	Tuning in linear and nonlinear optical parameters by interfacial mixing of Sb/Ag ₂ Se bilayer thin films under annealing at different temperatures for optoelectronic applications	Surfaces and Interfaces	2023	42	103395		
256	Jadhav, PS; Joshi, GM; Deshmukh, RR	Preparation and characterization of polyacrylonitrile/nitrocellulose engineering blend	Journal of Applied Polymer Science	2023	140	30		

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257	Nimbalkar, UD; Gaval, V; Mandal, D; Dabhade, PA	Design and development of induction heating based pulsed spray dryer for alkali metal chloride salts: interrogation through CFD approach	Brazilian Journal of Chemical Engineering	2024	41	1	235	246
258	Yadav, AK; Vaidya, PD	A review on butanol steam reforming for renewable hydrogen production	Journal of the Indian Chemical Society	2023	100	8	101050	
259	Sharma, SJ; Prasad, J; Soni, SS; Sekar, N	The impact of anchoring groups on the efficiency of dye-sensitized solar cells: 2-Cyanoacrylic acid vs. ethyl 2-cyanoacrylate	Journal of Photochemistry and Photobiology A Chemistry	2023	444	114915		
260	Mahajan, UR; Emmanuel, I; Rao, AS; Mhaske, ST	Development of rigid polyurethane foam incorporating phase change material for a low-temperature thermal energy storage application	Polymer International	2023	72	5	490	499
261	Bhukta, S; Chatterjee, R; Angajala, KK; Dandela, R	Iodine-mediated domino cyclization of hydrazides for one-pot synthesis of 1,3,4-oxadiazoles via oxidative bond cleavage of vinyl azide	Tetrahedron Letters	2023	128	154714		
262	Jaggavarapu, SR; Bhukta, S; Chatterjee, R; Anna, VR; Dandela, R	One-pot multicomponent domino synthesis of highly functionalized dibenzofurans	Tetrahedron Letters	2023	123	154547		
263	Hazra, G; Kundu, S; Dandela, R; Thirupathi, B	Cascade Nucleophilic Addition Cyclic Michael Addition of Arynes and Indoles Bearing Michael Acceptor: A Strategy to Construct Pyrroloacridines and Study of Their Physicochemical Properties	Journal of Organic Chemistry	2023	88	13	8493	8504
264	Rana, P; Dixit, R; Sharma, S; Dutta, S; Yadav, S; Arora, B; Kaushik, B; Gawande, MB; Sharma, RK	Preparation and characterization of the h-BN/Fe3O4/APTES-AMF/CuI nanocomposite as a new and efficient catalyst for the one-pot three-component synthesis of 2-amino-4-aryl(or heteroaryl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4H-chromene-3-carbonitriles	Nanoscale	2023	15	7	3482	3495
265	Jena, BJ; Pradhan, D; Kumar, J; Naik, R	An experimental and computational study for enhancement in optical nonlinearity and dielectric behaviour in thermal annealing induced Ag diffusion at Ag/Sb-S- Se interface	Surfaces and Interfaces	2023	40	103114		
266	Sahoo, ST; Mohanty, A; Sharma, R; Rout, SR; Dandela, R; Daw, P	A Bifunctional Ruthenium Catalyst for Effective Renewable Hydrogen Production from Biomass-Derived Sorbitol	Organometallics	2023	42	9	745	751
267	Patil, B; Kulkarni, AV	Performance of an engineered combination of plunging jet with stirred tank part I: Single impeller system	Chemical Engineering and Processing Process Intensification	2023	184	109286		

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268	Sutar, SV; Nirukhe, AB; Yadav, GD	Hydrogen production using hybrid six-step copper-chlorine thermochemical cycle: Energy and exergy analyses	International Journal of Hydrogen Energy	2024	49	1478	1489	
269	Pillai, G; Sawashe, P; Patil, V; Odaneth, AA; Lali, AM; Pandit, R	Year-round cultivation of marine macroalgae Enteromorpha prolifera using photobioreactors	Journal of Cleaner Production	2023	427	139003		
270	Borase, HP; Singhal, RS; Patil, SV	Copper oxide nanoparticles exhibit variable response against enzymatic toxicity biomarkers of Moira macrocopa	Environmental Science and Pollution Research	2023				
271	Banakar, VV; Gogate, PR; Raha, A; Saurabh	Application of ultrasound in heat exchanger handling supersaturated CaSO4 solution for reduction of scaling by induced precipitation and in-situ cleaning	Chemical Engineering Science	2023	276	118814		
272	Ghloam, N; Katkar, S; Mahanwar, PA; Amberkar, T; Hajare, B; Radhakrishnan, S; Kulkarni, MB	Effect of cashew nut shell liquid on mechanical, thermal and morphological properties of paddy straw filled phenolic composites	Biomass Conversion and Biorefinery	2023				
273	Karna, N; Joshi, GM; Mhaske, ST	Structure-property relationship of silane-modified polyurethane: A review	Progress In Organic Coatings	2023	176	107377		
274	Kadam, RS; Nirukhe, AB; Yadav, GD	Heat utilized pressure swing distillation (PSD) process for the separation of the maximum boiling azeotrope HCl and Water in the Cu Cl Cycle	Chemical Engineering and Processing Process Intensification	2024	196	109616		
275	Singh, AK; Roy, L	Computational Mechanistic Insights on Homogeneous Water Oxidation Versus Catalyst Deactivation: A Case Study with Mononuclear Nickel and Copper Complexes	European Journal of Inorganic Chemistry	2023	6202300412			
276	Kadam, RS; Nirukhe, AB; Yadav, GD	Energy saving in Cu-Cl thermochemical cycle for green hydrogen production: Use of heat integration approach and simulation tools	Energy Conversion and Management	2023	293	117431		
277	Burai, S; Waghmare, S; Chatterjee, A; Purkayastha, P; Mondal, S	Chiroptical Effect in Charge Transfer Processes in Chiral Carbon Dot Doped Biopolymers: Application Toward Developing Chiral Electrodes	Journal of Physical Chemistry C	2023	127	24	11730	11735
278	Saldanha, M; Padhye, K; Warke, VG; Dandekar, P; Jain, R	A feed enrichment strategy targeting the tricarboxylic acid cycle for increasing monoclonal antibody production and alleviating ammonia accumulation in Chinese hamster ovary cell culture	Biochemical Engineering Journal	2023	192	108836		
279	Chatterjee, R; Bhukta, S; Angajala, KK; Dandela, R	Copper catalysed oxidative cascade deamination/cyclization of vinyl azide and benzylamine for the synthesis of 2,4,6-triarylpyridines	Organic & Biomolecular Chemistry	2023	21	26	5419	5423
280	Mehta, JP; Ayakar, S; Singhal, RS	The potential of paraprobiotics and postbiotics to modulate the immune system: A Review	Microbiological Research	2023	275	127449		

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281	Banakar, VV; Gogate, PR; Raha, A; Saurabh	Ultrasound assisted seed preparation and subsequent application for desupersaturation of calcium sulphate as a measure for scaling control	Journal of Environmental Chemical Engineering	2023	11	3	110026	
282	Naik, S; Katariya, R; Shelke, S; Patravale, V; Umekar, M; Kotagale, N; Taksande, B	Nattokinase prevents β -amyloid peptide (A β 1-42) induced neuropsychiatric complications, neuroinflammation and BDNF signalling disruption in mice	European Journal of Pharmacology	2023	952	175821		
283	Banakar, VV; Gogate, PR; Raha, A; Adak, AK	Studies on application of indirect mode of ultrasound for feed brine pretreatment as fouling/scaling mitigation on heat exchanger surface	Chemical Engineering and Processing Process Intensification	2023	187	109345		
284	Ganguli, AA; Pandit, AB; Kunzru, D	Transport phenomena in microchannels in liquid-liquid extraction (LLE) systems operating in a slug flow regime-A review	Canadian Journal of Chemical Engineering	2024	102	1	459	480
285	Sowmya, RS; Warke, VG; Mahajan, GB; Annapure, US	Effect of amino acids on growth, elemental content, functional groups, and essential oils composition on hydroponically cultivated coriander under different conditions	Industrial Crops and Products	2023	197	116577		
286	Kumar, PC; Senapati, S; Pradhan, D; Kumar, J; Naik, R	A facile one-step microwave assisted synthesis of bismuth oxytelluride nanosheets for optoelectronic and dielectric application: An experimental & computational approach	Journal of Alloys and Compounds	2023	968	172166		
287	Shet, H; Sahu, R; Sanghvi, YS; Kapdi, AR	Palladium-Catalyzed Cyanation of Nucleobases: Total Synthesis of Toyocamycin, Sangivamycin, and a Mycalisine A Precursor	Synlett	2024	35	6	654	658
288	Mehta, JP; Ayakar, S; Singhal, RS	The potential of paraprobiotics and postbiotics to modulate the immune system: A Review	Microbiological Research	2023	275	127449		
281	Banakar, VV; Gogate, PR; Raha, A; Saurabh	Ultrasound assisted seed preparation and subsequent application for desupersaturation of calcium sulphate as a measure for scaling control	Journal of Environmental Chemical Engineering	2023	11	3	110026	
282	Naik, S; Katariya, R; Shelke, S; Patravale, V; Umekar, M; Kotagale, N; Taksande, B	Nattokinase prevents β -amyloid peptide (A β 1-42) induced neuropsychiatric complications, neuroinflammation and BDNF signalling disruption in mice	European Journal of Pharmacology	2023	952	175821		
283	Banakar, VV; Gogate, PR; Raha, A; Adak, AK	Studies on application of indirect mode of ultrasound for feed brine pretreatment as fouling/scaling mitigation on heat exchanger surface	Chemical Engineering and Processing Process Intensification	2023	187	109345		

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285	Sowmya, RS; Warke, VG; Mahajan, GB; Annapure, US	Effect of amino acids on growth, elemental content, functional groups, and essential oils composition on hydroponically cultivated coriander under different conditions	Industrial Crops and Products	2023	197	116577		
286	Kumar, PC; Senapati, S; Pradhan, D; Kumar, J; Naik, R	A facile one-step microwave assisted synthesis of bismuth oxytelluride nanosheets for optoelectronic and dielectric application: An experimental & computational approach	Journal of Alloys and Compounds	2023	968	172166		
287	Shet, H; Sahu, R; Sanghvi, YS; Kapdi, AR	Palladium-Catalyzed Cyanation of Nucleobases: Total Synthesis of Toyocamycin, Sangivamycin, and a Mycalisine A Precursor	Synlett	2024	35	6	654	658
288	Gujar, SK; Agarkoti, C; Bhat, A; Gogate, PR; Sharma, A; Mishra, BR; Singh, D	Coupled cavitation and AOPs treatment of Primene-JMT containing wastewater	Journal of Environmental Chemical Engineering	2023	11	2	109284	
289	Shirkole, SS; Pani, A	A Concise Historical Account of Drying Technology-An International Journal	Drying Technology	2023	41	4	477	479
290	Rajaramon, S; Shanmugam, K; Dandela, R; Solomon, AP	Emerging evidence-based innovative approaches to control catheter-associated urinary tract infection: a review	Frontiers In Cellular and Infection Microbiology	2023	13	1E+06		
291	Sharma, E; Ralebhat, S; Singh, D; Krishnamurthy, G; Bhagwat, S; Adivarekar, RV	Studies on Incorporating Infrared Reflecting Minerals into Viscose Fibres	Aatoc Journal of Research	2023	10	3	144	152
292	Joshi, S; Joshi, R; Jadhao, M	A simple dual responsive chemosensor for selective sensing of Cs plus for environmental monitoring and mimicking molecular logic gates	Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy	2024	306	123580		
293	Mahajan, UR; Emmanuel, I; Rao, AS; Mhaske, ST	Microencapsulation of n-tetradecane with poly (methyl methacrylate-co methacrylic acid) shell by seeded emulsion polymerisation and its thermal energy storage characteristics	Journal of Microencapsulation	2023	40	2	98	105
294	Jadhav, G; Gaval, V; Solanke, S; Divekar, M; Darade, N; Satpute, A; Goutham, GP	Weld-lines and its strength evaluation in injection molded parts: A review	Polymer Engineering and Science	2023	63	11	3523	3536
295	Singh, P; Ali, SW; Kale, RD	Antimicrobial Nanomaterials as Advanced Coatings for Self Sanitizing of Textile Clothing and Personal Protective Equipment	Acs Omega	2023				
296	Yerudkar, AN; Kumar, D; Dalvi, VH; Panse, S; Gaval, VR; Joshi, JB	Economically feasible solutions in concentrating solar power technology specifically for heliostats - A review	Renewable & Sustainable Energy Reviews	2024	189	113825		
297	Panda, SP; Hota, SK; Dash, R; Roy, L; Murarka, S	Photodecarboxylative C-H Alkylation of Azauracils with N- (Acyloxy)phthalimides	Organic Letters	2023	25	20	3739	3744

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298	Rout, S; Sowmya, RS; Srivastav, PP	A review on development of plant based meat analogues as future sustainable food	International Journal of Food Science and Technology	2024	59	1	481	487
299	Rajaramon, S; David, H; Sajeevan, A; Shanmugam, K; Sriramulu, H; Dandela, R; Solomon, AP	Multi-functional approach in the design of smart surfaces to mitigate bacterial infections: a review	Frontiers In Cellular and Infection Microbiology	2023	13	1E+06		
300	Gaikwad, RP; Naikwadi, DR; Biradar, AV; Gawande, MB	Photocatalytic One-Pot Conversion of Aldehydes to Esters and Degradation of Rhodamine B Dye Using Mesoporous Graphitic Carbon Nitride	Acs Applied Nano Materials	2023	6	3	1859	1869
301	Sahu, R; Yadav, S; Nath, S; Banerjee, J; Kapdi, AR	DNA-encoded libraries via late stage functionalization strategies: a review	Chemical Communications	2023	59	41	6128	6147
302	Kanthale, P; Pandey, R; Thakur, D; Gujar, SK; Gogate, PR; Thakre, S; Dutta, CK	Application of combined hydrodynamic cavitation and Fenton reagent for COD reduction of cellulosic fiber industry effluents	Journal of Water Process Engineering	2023	56	104500		
303	Sabde, S; Yadav, GD; Narayan, R	Conversion of waste into wealth in chemical recycling of polymers: Hydrolytic depolymerization of polyethylene terephthalate into terephthalic acid and ethylene glycol using phase transfer catalysis	Journal of Cleaner Production	2023	420	138312		
304	Chhabria, S; Takle, V; Sharma, N; Kharkar, P; Pansare, K; Tripathi, A; Tripathi, A; Bhartiya, D	RETRACTION: Extremely active Nano-formulation of Resveratrol (XAR™) attenuates and reverses chemotherapy-induced damage in mice ovaries and testes (Retraction of Vol 15, art no 115, 2022)	Journal of Ovarian Research	2023	16	1	61	
305	Khairnar, S; Sonawane, A; Cheke, RS; Kharkar, PS; Gaikwad, V; Patil, S; Aware, V	Hit discovery of novel 2-phenyl substituted 4-amino-6,7-dihydro-5H cyclopenta[pyrimidines as potential anti-glioblastoma therapeutics: Design, synthesis, biological evaluation, and computational screening	Drug Development Research	2023	84	3	561	578
306	Ghosh, S; Banerjee, S; Prajapati, J; Mandal, J; Mukherjee, A; Bhattacharyya, P	Pollution and health risk assessment of mine tailings contaminated soils in India from toxic elements with statistical approaches	Chemosphere	2023	324	138267		
307	Tambe, SM; Jain, DD; Mehta, CH; Ashwini, T; Nayak, UY; Amin, PD	Hot-melt extruded in situ gelling systems (MeltDrops Technology): Formulation development, in silico modelling and in vivo studies	European Journal of Pharmaceutics and Biopharmaceutics	2023	188	108	124	
308	Patel, K; Singh, N; Kadu, P; Deshpande, R; Poudyal, M; Chatterjee, D; Mehra, S; Navalkar, A; Sathaye, S; Maji, SK	Design and development of functional amyloid-based hydrogels as a versatile drug-delivering depot	European Biophysics Journal With Biophysics Letters	2023	52	SUPPL 1	S200	S200
309	Panda, DP; Swain, D; Athinarayanan, S	Impact of organic amine cations on photoluminescence and magnetic properties in Dion-Jacobson hybrid manganese halide perovskites	Apl Materials	2023	11	3	31114	
310	Yadav, S; Chaturvedi, AR; Gaikwad, G; Ananthasivan, K; Pandit, AB; Jain, RD	Fabrication of CeO2 microspheres by internal gelation process using flow-focusing droplet generator	Canadian Journal of Chemical Engineering	2023	101	8	4493	4505

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311	Sarlin, P.J; Morris, S; Morris, S; Joseph, P; Krishnan, SA	Black-rumped flameback (Dinopium benghalense) anointing plumage with tree sap	Spixiana	2023	46	1	134	134
312	Gor, NK; Chinthala, PK; Das, A; Vaidya, PD	An overview of mono-ethylene glycol synthesis via CO coupling reaction: Catalysts, kinetics, and reaction pathways	Canadian Journal of Chemical Engineering	2023	101	7	4054	4075
313	Kshirsagar, AB; Kankani, VG; Chatterjee, IB; Mathpati, CS; Vaidya, PD; Joshi, JB	Process Intensification of Absorption of Nitrogen Oxides in the Manufacturing of Nitric Acid and Techno-economic Assessment: Use of Ozone	Industrial & Engineering Chemistry Research	2023	62	45	19055	19072
314	Gaware, S; Chatterjee, R; Dhayalan, V; Dandela, R	Metal-free one-pot synthesis of 2- substituted benzimidazoles from N aryl imines and TMSN3	Tetrahedron Letters	2023	115	154289		
315	Bandaru, RK; Giri, L; Krishna, GR; Dandela, R	Novel molecular adducts of an anti cancer drug vandetanib with enhanced solubility	Crystengcomm	2024	26	3	248	260
316	Gavit, AA; Gagrani, MB; Gurav, SS; Ayyanar, M; Beldar, VG; Tatiya, AU; Surana, SJ; Firke, SD; Kalaskar, MG	Chemical composition and biological activities of Lonicera caprifolium L. (Caprifoliaceae) essential oil	Natural Product Research	2024	38	5	719	726
317	Biswas, S; Akhil, S; Kumar, N; Palabathuni, M; Singh, R; Dutt, VGV; Mishra, N	Exploring the Role of Short Chain Acids as Surface Ligands in Photoinduced Charge Transfer Dynamics from CsPbBr3 Perovskite Nanocrystals	Journal of Physical Chemistry Letters	2023	14	7	1910	1917
318	Bhoje, RS; Ghosh, AK; Nemade, PR	Functionalized graphene-based material as a nanofiller for high performance thin film composite seawater reverse osmosis membrane	Separation Science and Technology	2023	58	15-16	2790	2805
319	Parida, A; Senapati, S; Pradhan, GK; Naik, R	Hydrothermal Synthesis of Cu0.66- xZn0.34+xSe Materials and Investigation of Their Structural, Optical, and Magnetic Properties	Chemistryselect	2023	8	31	e202301933	
320	Shah, DS; Moravkar, KK; Jha, DK; Lonkar, V; Amin, PD; Chalikwar, SS	A concise summary of powder processing methodologies for flow enhancement	Heliyon	2023	9	6	e16498	
321	Meher, P; Panda, SP; Mahapatra, SK; Thombare, KR; Roy, L; Murarka, S	A General Electron Donor-Acceptor Photoactivation Platform of Diaryliodonium Reagents: Arylation of Heterocycles	Organic Letters	2023	25	46	8290	8295
322	Wakekar, S; Tiwari, A; Chaskar, J; Chaskar, A	Protein nanotubes as drug delivery systems: an overview	Journal of Nanoparticle Research	2023	25	7	132	
323	Yadav, MD; Joshi, HM; Sawant, SV; Dasgupta, K; Patwardhan, AW; Joshi, JB	Advances in the application of carbon nanotubes as catalyst support for hydrogenation reactions	Chemical Engineering Science	2023	272	118586		
324	Rathod, JP; Vira, C; Lali, AM; Prakash, G	Trehalose phosphate phosphatase overexpression for the mitigation of high-light induced stress in Parachlorella kessleri	Algal Research Biomass Biofuels and Bioproducts	2023	72	103121		
325	Sahu, R; Yadav, S; Gunturu, KC; Kapdi, AR	Phenothiazine-Based Cu(II)- Selective Fluorescent Sensor: GHK Cu Sensing Applications	Journal of Organic Chemistry	2023	88	21	15118	15129
326	Holkar, C; Pinjari, D; D'Melo, D; Bhattacharya, S	The effect of asphaltene concentration on polymer modification of bitumen with SBS copolymers	Materials and Structures	2023	56	1	16	

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327	Katariya-Jain, A; Mhatre, MM; Dierking, I; Deshmukh, RR	Enhanced thermo-electro-optical and dielectric properties of carbon nanoparticle-doped polymer dispersed liquid crystal based switchable windows	Journal of Molecular Liquids	2024	393	123575		
328	Jagushte, KU; Ketkar, RN; Thakkar, C; Choudhury, SD; Sadhukhan, N	Convenient synthesis of 6-Amino-2- naphthol by Copper-catalyzed Ullmann reaction	Tetrahedron Letters	2023	128	154693		
329	Al Mesfer, MK; Das, S; Shah, MM; Danish, M	Design of Ru-Co/MgO-Al ₂ O ₃ catalyst system for CO ₂ reforming of methane: Performance investigation concerning the Mg/Al ratio	Journal of Industrial and Engineering Chemistry	2024	130	468	482	
330	Boopathi, D; Swain, D; Nayak, PK	Improved Charge Storage Performance of Fe-Doped Li-Rich Ni-Mn-Co Oxide Li _{1.2} Ni _{0.13} Mn _{0.54} Co _{0.13} O ₂ in Half- and Full Lithium-Ion Cells	Energy & Fuels	2023	37	23	19266	19277
331	Khuntia, R; Mahapatra, SK; Roy, L; Pan, SC	Structurally divergent enantioselective synthesis of benzofuran fused azocine derivatives and spiro cyclopentanone benzofurans enabled by sequential catalysis	Chemical Science	2023	14	39	10768	10776
332	Gupta, PK; Jahagirdar, P; Tripathi, D; Devarajan, PV; Kulkarni, S	Macrophage targeted polymeric curcumin nanoparticles limit intracellular survival of Mycobacterium tuberculosis through induction of autophagy and augment anti-TB activity of isoniazid in RAW 264.7 macrophages	Frontiers In Immunology	2023	14	1E+06		
333	Shukla, VK; Chakraborty, G; Ray, AK; Nagaiyan, S	Red and NIR emitting ring-fused BODIPY/aza-BODIPY dyes	Dyes and Pigments	2023	215	111245		
334	Pani, A; Shirikole, SS; Mujumdar, AS	Expert reviews for assessment of recent developments and future prospectives of global drying R&D	Drying Technology	2023	41	335	338	2E-06
335	Jena, BJ; Alagarasan, D; Kumar, J; Naik, R	Phase change, tuning of optical and dielectric parameters in Bi/S- Se-Sb heterostructure film upon thermal annealing: An experimental and computational approach	Journal of Alloys and Compounds	2023	968	171873		
336	Mohod, AV; Teixeira, ACSC; Bagal, M; Gogate, PR; Giudici, R	Degradation of organic pollutants from wastewater using hydrodynamic cavitation: A review	Journal of Environmental Chemical Engineering	2023	11	3	109773	
337	Bhosale, GS; Vaidya, PD; Joshi, JB; Patil, RN	Analysis of Reaction Kinetics of the Ozonation of Phenolic Compounds and Assessment of the Role of Mass Transfer in the Overall Rate	Industrial & Engineering Chemistry Research	2023	62	21	8181	8190
338	Mestry, SU; Satakar, VB; Mhaske, ST	Development of imine-azo-dyes derived from vanillin and salicylaldehyde for pH-sensing in smart packaging	Pigment & Resin Technology	2024	53	6	1119	1131

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339	Vishwakarma, R; Vinod, CP; Rathod, V; Kantam, ML	Copper Fluorapatite-Catalyzed Aza Michael Reaction and Kinetic Studies	Industrial & Engineering Chemistry Research	2023				
340	Ray, A; Dubey, KK; Marathe, SJ; Singhal, R	Supercritical fluid extraction of bioactives from fruit waste and its therapeutic potential	Food Bioscience	2023	52	102418		
341	Chakraborty, G; Bondarde, MP; Ray, AK; Some, S	Photophysical Modulation of Rhodamine-B via π - π stacking with GQD and Its Further Tuning by Cucurbit[7]uril	Chemistryselect	2023	8	1	e202203689	
342	Sarode, UK; Vaidya, PD; Kenig, EY	Glucosamine for CO2 Capture: Absorption Kinetics, Promoted Absorption Rate, and Comparison with Other Amino Sugars	Industrial & Engineering Chemistry Research	2023	62	3	1492	1498
343	Peerzada, Z; Shah, MD; Kharkar, PS; Desai, KB	Exploration of the inhibitory effect of Cassia fistula on quorum sensing	Journal of Medical Microbiology	2023	72	2	1578	
344	Dubey, KK; Mishra, SS; Mahajani, SM; Arora, A; Singhal, RS	Formulation of Jagged based Functional Cookies: Optimization and Evaluation of Sensory, Physico Chemical, Nutritional, and Nutraceuical Properties	Sugar Tech	2024	26	1	117	130
345	Hoque, MM; Joshi, JB; Evans, GM; Mitra, S	A critical analysis of turbulence modulation in particulate flow systems: a review of the experimental studies	Reviews In Chemical Engineering	2024	40	4	511	544
346	Gaikwad, AP; Banerjee, AM; Pai, MR; Dheeman, R; Kumar, S; Tripathi, AK	Synthesis, microstructure and electrochemical properties of Ni-P based alloy coatings for hydrogen evolution reaction in alkaline media	Materials Research Express	2023	10	8	86514	
347	Thombre, AV; Kundu, D	Ionic liquid promoted extraction of gold(III) from electronic waste: a modeling study	Separation Science and Technology	2023	58	15-16	2641	2654
348	Jagushte, KU; Sadhukhan, N; Upadhyaya, HP; Choudhury, SD	Dual Excited State Proton Transfer Pathways in the Bifunctional Photoacid 6-Amino-2-naphthol	Journal of Physical Chemistry B	2023	127	45	9788	9801
349	Bandaru, RK; Giri, L; Kesharwani, P; Dandela, R	Drug-drug salts of Nafopidil with non-steroidal anti-inflammatory drugs for potential multi-drug therapy	Colloids and Surfaces A Physicochemical and Engineering Aspects	2024	682	132835		
350	Patil, PD; Salokhe, S; Karvekar, A; Suryavanshi, P; Phirke, AN; Tiwari, MS; Nadar, SS	Microfluidic based continuous enzyme immobilization: A comprehensive review	International Journal of Biological Macromolecules	2023	253	127358		
351	Pawar, P; Doshi, J; Patil, SG; Dandekar, P; Poornima, K	The characterization of chitinolytic soil bacterial isolates for their antagonistic activity against root knot nematode Meloidogyne incognita: an effort towards	Biocontrol	2023	68	5	511	524
352	Vishwakarma, R; Vinod, CP; Rathod, VK; Kantam, ML	Imine Oxidation Catalyzed by Zinc Hydroxyapatite: Kinetic Studies						
353	Das, KM; Pal, A; Surya, TL; Roy, L; Thakur, A	Cu(II) Promoted C(sp ³)-H Activation in Unactivated Cycloalkanes: Oxo Alkylation of Styrenes to Synthesize β -Disubstituted Ketones						

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354	Rajput, RB; Mane, RS; Jamble, SN; Jha, N; Kale, RB	N-doped carbon/TiO ₂ composites with enhanced photocatalytic performance for the removal of organic pollutants						
355	Shweta, S; Kundu, D	Screening of ionic liquids and deep eutectic solvents for the extraction of persistent organic pollutants from edible oils and fat						
356	Kenguva, G; Giri, L; Rout, SR; Acharya, AN; Dandela, R	Exploration of different solid variants of the anticancer medication Panobinostat (PNB) with improved physicochemical attributes						
357	Kapdi, AR; Arseniyadis, S; Lakshman, MK	Nucleoside/Nucleotide or Nucleic Acid Modification & Applications						
358	Tambe, SM; Mali, S; Amin, PD; Oliveira, M	Neuroprotective potential of cannabidiol: Molecular mechanisms and clinical implications						
359	Baghel, RS; Jagtap, AS; Parab, AS; Manohar, CS; Vudamala, K; Reddy, CRK	Analysis of post-maturation biochemical changes in the thalli of <i>Phycocladia vietnamensis</i> (Bangiales) occurring in the wild stock						
360	Chakraborty, S; Sathe, RY; Chormale, JH; Dangi, A; Bharatam, PV; Bansal, AK	Effect of Deep Eutectic System (DES) on Oral Bioavailability of Celecoxib: In Silico, In Vitro, and In Vivo Study						
361	Gaware, S; Chatterjee, R; Kapdi, AR; Dandela, R	Copper-catalysed chemoselective C-OH bond activation of N-benzoyl cytosine: facile access to 2-(dimethylamino)pyrimidine						
362	Pandey, PH; Bhadke, A; Adivarekar, R; Tayade, SN; Tawade, AK; Sharma, KK; Patil, PS; More, S; Pawar, HS	A stable and robust electrode using Copious metal oxide composite for green hydrogen production	Chemistryselect					
363	Ghodake, V; Dhoble, S; Vavilala, SL; Patravale, V	Anti-biofilm potential against <i>P. aeruginosa</i> biofilm in cystic fibrosis infection by systemically developed garlic extract incorporated liposomal formulation	Journal of Drug Delivery Science and Technology					
364	Mohapatra, A; Kumar, S; Acharya, TK; Goswami, C; Bhaumik, S	Highly stable multi-encapsulated red-emitting cesium lead halide nanocrystals for efficient copper ion detection and imaging in live cells	Journal of Alloys and Compounds					
365	Kar, MR; Sahoo, K; Mohapatra, A; Bhaumik, S	Stable and luminescent cesium copper halide nanocrystals embedded in flexible polymer fibers for fabrication of down-converting WLEDs	Nanoscale Advances					
366	Bera, S; Biswas, A; Pal, J; Roy, L; Mondal, S; Samanta, R	Pd(II)-Catalyzed Oxidative Naphthylolation of 2-Pyridone through N-H/C-H Activation Using Diarylacetylene as an Uncommon Arylating Agent	Organic Letters					
367	Joshi, S; Joshi, R; Ganorkar, K; Jadhao, M	Unraveling Halochromism of Azo Based Sulphonamide and Its Real World Applications: A Combined Experimental and Theoretical Approach	Chemistryselect					

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368	Deshmukh, S; Deore, A; Mani, AM; Mondal, S; Chaudhury, S	Selective Ion Transport through a Self-Standing Protein-Based Biopolymer	Acs Applied Polymer Materials					
369	Arya, SS; More, PR; Ladole, MR; Pegu, K; Pandit, AB	Non-thermal, energy efficient hydrodynamic cavitation for food processing, process intensification and extraction of natural bioactives: A review	Ultrasonics Sonochemistry					
370	Vishwakarma, R; Vinod, CP; Rathod, V; Kantam, ML	Wadsworth-Emmons Reaction by Using the Fluorapatite Catalyst: Kinetic Studies	Industrial & Engineering Chemistry Research					
371	Nayak, AK; Ganguli, B; Ajayan, PM	Advances in electric two-wheeler technologies	Energy Reports					
372	Maurya, O; Khaladkar, SR; Sinha, B; Bhanage, BM; Deshmukh, RR; Kim, JH; Kalekar, A	Effective transformation of hydrothermally grown TiO ₂ nanorods to nanotube arrays for improved PEC hydrogen evolution	Electrochimica Acta					
373	Ganguli, A; Tabib, M; Deshpande, S; Dhotre, M	Editorial: Role of mathematical modeling in advanced power generation systems	Frontiers In Energy Research					
374	Kasthurirangan, S; Narayan, M; Tribedi, LC	Efficiency and resolution characterisation of a high-resolution bent crystal X-ray spectrometer using ray-tracing simulations	Nuclear Instruments & Methods In Physics Research Section A Accelerators Spectrometers Detectors and Associated Equipment					
375	Sukhatskiy, Y; Shepida, M; Sozanskyi, M; Znak, Z; Gogate, PR	Periodate-based advanced oxidation processes for wastewater treatment: A review	Separation and Purification Technology					
376	Kumari, S; Bhende, A; Pandit, A; Rayalu, S	Efficiency enhancement of photovoltaic panel by heat harvesting techniques (vol 73, pg 303, 2023)	Energy For Sustainable Development					
377	Jaleh, B; Moradi, A; Eslamipanah, M; Khazalpour, S; Tahzibi, H; Azizian, S; Gawande, MB	Laser-assisted synthesis of Au NPs on MgO/chitosan: Applications in electrochemical hydrogen storage	Journal of Magnesium and Alloys					
378	Knypinski, L; Reddy, AV; Venkateswararao, B; Devarapalli, R	Optimal design of brushless DC motor for electromobility propulsion applications using Taguchi method	Journal of Electrical Engineering Elektrotechnicky Casopis					
379	Jain, A; Tamhankar, S; Jaiswal, Y	Role of La-based perovskite catalysts in environmental pollution remediation	Reviews In Chemical Engineering					
380	Kumari, S; Bhende, A; Pandit, A; Rayalu, S	Efficiency enhancement of photovoltaic panel by heat harvesting techniques	Energy For Sustainable Development					
381	Panda, DP; Swain, D; Raghunathan, R; Sundaresan, A	Photophysical Properties of S=5/2 Zigzag-1D (2-Bromoethylammonium) ₃ MnBr ₅ Antiferromagnet	Journal of Physical Chemistry Letters					

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382	Nabar, KU; Bhanage, BM; Dawande, SG	Copper-catalyzed N-arylation of amines with arylidonium ylides in water	Beilstein Journal of Organic Chemistry					
383	Chakraborty, R; Bhaumik, S; Pal, AJ	High-frequency pulsed electroluminescence from light emitting diodes based on quasi-2D perovskites (rubidium-doped CsPbBr ₃)	Materials Science and Engineering B Advanced Functional Solid State Materials					
384	Gargi, A; Singh, J; Rasane, P; Kaur, S; Kaur, J; Mehta, CM; Gat, Y; Choudhary, R	Phytochemical potential and associated health benefits of Cucurbita flower	Turkish Journal of Agriculture and Forestry					
385	Gaware, S; Chatterjee, R; Kapdi, AR; Dandela, R	Zinc-catalyzed transamidation and esterification of N-benzoyl cytosine via C-N bond cleavage	Organic & Biomolecular Chemistry					
386	Sayyad, US; Burai, S; Bhatt, H; Ghosh, HN; Mondal, S	Efficient Charge Transfer in the Perovskite Quantum Dot-Hemin Biocomposite: Is This Effective for Optoelectronic Applications?	Journal of Physical Chemistry Letters					
387	Halde, P; Deotale, S; Pawar, VN; Annapure, U; Devkate, A; Chavan, Y	Application of microwave treatment for reduction of microbial load in jagger cubes	Journal of Food Science and Technology-Mysore					
388	Pradeep, SV; Kandasubramanian, B; Sidharth, S	A review on recent trends in bio based pressure sensitive adhesives	Journal of Adhesion					
389	Dey, A; Kumar, V; Chatterjee, R; Behera, A; Maurya, RK; Burra, AG; Kumar, S; Khatravath, M; Dandella, R	Recent Advancements in Synthesis of Phenanthridines via 2- Isocyanobiphenyls	Asian Journal of Organic Chemistry					
390	Jadhav, PS; Humbe, SS; Joshi, GM; Deshmukh, RR; Kaleemulla, S	Polymer Blend Nanoarchitectonics with Exfoliated Molybdenum Disulphide/Polyvinyl Chloride/Nitrocellulose	Journal of Inorganic and Organometallic Polymers and Materials					
391	Biranje, PM; Patwardhan, AW; Joshi, JB; Prakash, J; Dasgupta, K	Kinetic study of graphene oxide synthesis by electrochemical exfoliation of graphite	Journal of Industrial and Engineering Chemistry					
392	Kumari, S; Pandit, A; Bhende, A; Rayalu, S	Thermal Management of Solar Panels for Overall Efficiency Enhancement Using Different Cooling Techniques (vol 16, 53, 2022)	International Journal of Environmental Research					
393	Kahar, NM; Jadhav, PP; Dawande, SG	Rhodium(ii)-catalyzed synthesis of 2-aminoquinoline derivatives from 2- quinolones and N-sulfonyl-1,2,3-triazoles	Organic & Biomolecular Chemistry					
394	Behera, M; Rath, H; Khan, SA; Mishra, NC; Naik, R	Interface engineering at Bi/As ₂ Se ₃ bilayer thin film by 120 MeV Ag swift heavy ion irradiation at different fluence: Modifications in its structural, optical and morphological properties	Materials Science In Semiconductor Processing					

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395	Bagal, MV; Suryawanshi, MA; Shinde, SN; Pinjari, DV; Mohod, AV	Degradation of magenta dye using cavitation-based transducers to glass marble: Lab to semi-pilot scale operations	Water Environment Research					
396	Joshi, SS; Dalvi, VH; Vitankar, VS; Joshi, AJ; Joshi, JB	Novel Correlation for the Solid Liquid Mass Transfer Coefficient in Stirred Tanks Developed by Interpreting Machine Learning Models Trained on Literature Data	Industrial & Engineering Chemistry Research					
397	Yashwantrao, G; Patil, R; Gavali, A; Neekhra, S; Badani, P; Srivastava, R; Saha, S	Benzofuran derived pH-responsive AIEgens: Design, synthesis and applications in monitoring the urea content in soil and food quality evaluation	Dyes and Pigments					
398	Joshi, SS; Dalvi, VH; Vitankar, VS; Joshi, AJ; Joshi, JB	Novel Correlation for Critical Speed for Solid Suspension in Stirred Tanks Developed Using Machine Learning Models Trained on Literature Data	Industrial & Engineering Chemistry Research					
399	Shiwankar, SS; Acharya, SA; Shirbhate, S	Structural and electrical properties of Gd and W co-doped La ₂ Mo ₂ O ₉ as electrolyte for IT-SOFCs	Ferroelectrics					
400	Dorte, N; Acharya, S; Shirbhate, S	PVDF-novel double perovskite (Nd ₂ MnFeO ₆) organic-inorganic nano-composite membrane: for flexible energy storage devices	Polymer Bulletin					
401	Vaishnavi, PSV; Kar, S; Adak, AK; Nagar, V; Singh, V; Debnath, AK; Nemade, PR	Surface modification of thin film composite nanofiltration membrane with graphene oxide by varying amine linkers: Synthesis, characterization, and applications	Journal of Membrane Science					
402	Moinuddin, AA; Kotkondawar, AV; Hippargi, G; Anshul, A; Rayalu, S	A promising photo-thermal catalytic approach for hydrogen generation from sulphide bearing wastewater	International Journal of Hydrogen Energy					
403	Di Gioia, ML; Duarte, ARC; Gawande, MB	Editorial: Advances in the development and application of deep eutectic solvents	Frontiers In Chemistry					
404	Khandagale, D; Kori, S; Kapdi, AR	DMSO-Assisted K ₃ PO ₄ -Catalyzed Cooperative Metal-Free, Base-Free Etherification of Chloroheteroarenes at Low Temperature	Chemistry-An Asian Journal					
405	Cruz, JN; de Oliveira, MS; Cascaes, M; Mali, SN; Tambe, S; dos Santos, CBR; Zoghbi, MDB; Andrade, EHD	Variation in the Chemical Composition of Endemic Specimens of Hedychium coronarium J. Koenig from the Amazon and In Silico Investigation of the ADME/Tox Properties of the Major Compounds	Plants-Basel					
406	Chakravarty, R; Rohra, N; Jadhav, S; Sarma, HD; Jain, R; Chakraborty, S	Biochemical separation of Cetuximab-Fab from papain digested antibody fragments and radiolabeling with ⁶⁴ Cu for potential use in radioimmunotheranostics	Applied Radiation and Isotopes					
407	Sharma, D; Manikandan, C; Dhayalan, V; Dandela, R	Mechanistic Evaluation of Benzoin Catalysis Enabled by Triazolium Salt Application in the Preparation of Benzil and Heterocycles	Chemistryselect	2023	8			

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408	Bandaru, SSM; Shah, J; Bhilare, S; Schulzke, C; Kapdi, AR; Roger, J; Hierso, JC	Phosphine ligands based on the ferrocenyl platform: Advances in catalytic cross-couplings	Coordination Chemistry Reviews	2023	491			
409	Mahantesh, G; Sharma, D; Dandela, R; Dhayalan, V	Synthetic Strategies of N Heterocyclic Olefin (NHOs) and Their Recent Application of Organocatalytic Reactions and Beyond	Chemistry-A European Journal	2023	29			
410	Gugulothu, K; Jatoth, R; Gudipati, R; Rajitha, N; Dandela, R; Kumar, KS	Pd-catalyzed homo-coupling of benzofurans: one-pot synthesis of diverse 3,3'-bisbenzofurans	Organic & Biomolecular Chemistry	2023	21			
411	Nair, A; Greeny, A; Nandan, A; Sah, RK; Jose, A; Dyawanapelly, S; Junnuthula, V; Athira, K; Sadanandan, P	Advanced drug delivery and therapeutic strategies for tuberculosis treatment	Journal of Nanobiotechnology	2023	21			
412	Raj, S; Mahapatra, S; Babu, R; Verma, S	Hybrid intelligence strategy for techno-economic reactive power dispatch approach to ensure system security	Chaos Solitons & Fractals	2023	170			
413	Bal, T; Ray, S; Sinha, N; Devarapalli, R; Knypinski, L	Integrating Demand Response for Enhanced Load Frequency Control in Micro-Grids with Heating, Ventilation and Air-Conditioning Systems	Energies	2023	16			
414	Babu, NR; Chiranjeevi, T; Devarapalli, R; Bhagat, SK	Optimal location of FACTS devices in LFC studies considering the application of RT-Lab studies and emperor penguin optimization algorithm	Journal of Engineering Research	2023	11			
415	Angarkhe, PR; Shaikh, A; Rout, SR; Sarma, B; Tripathy, J; Dandela, R; Mohapatra, SK	Synthesis, X-ray structures, Hirshfeld surface analysis, and redox behaviour of 2-substituted-1H pyrimidine derivatives	Journal of Molecular Structure	2024	1296			
416	Ingavale, S; Marbaniang, P; Palabathuni, M; Mishra, N	In situ growth of copper oxide on MXene by combustion method for electrochemical ammonia production from nitrate	Nanoscale Advances	2024	6			
417	Moniruzzaman, M; Datta, U; Saha, NC; Bhowmick, AR; Mukherjee, J	Abiotic factors and heavy metals defining eco-physiological niche in fish	Science of the Total Environment	2023	874			
418	Das, S; Senapati, S; Alagarasan, D; Ganesan, R; Varadharajaperumal, S; Naik, R	Modifications in the structural, morphological, optical properties of Ag45Se40Te15 thin films by proton ion irradiation for optoelectronics and nonlinear applications	Ceramics International	2023	49			
419	Shirbhatte, S; Badekar, T; Gaikwad, V; Acharya, S	Structural and electrical study of novel Ba3SrNb2O9 triple perovskite based solid electrolyte for LT SOFCs	Ferroelectrics	2023	617			
420	Pandit, P; Shirke, C; Bhatia, N; Godad, A; Belemkar, S; Patel, J; Zine, S	An Overview of Recent Findings that Shed Light on the Connection between Fat and Cancer	Endocrine Metabolic & Immune Disorders-Drug Targets	2024	24			
421	Jadhav, HB; Raina, I; Gogate, PR; Annapure, US; Casanova, F	Sonication as a Promising Technology for the Extraction of Triacylglycerols from Fruit Seeds-A Review	Food and Bioprocess Technology	2023	16			

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422	Sahoo, D; Priyadarshini, P; Dandela, R; Alagarasan, D; Ganesan, R; Varadharajaperumal, S; Naik, R	In situ laser irradiation: the kinetics of the changes in the nonlinear/linear optical parameters of As ₅₀ Se ₄₀ Sb ₁₀ thin films for photonic applications (vol 11, pg 16015, 2021)	Rsc Advances	2023	13			
423	Das, S; Parida, A; Alagarasan, D; Naik, R	Time dependent laser irradiation induced structural, linear-nonlinear optical changes in Ag ₁₀ Te ₁₀ As ₂₀ Se ₆₀ quaternary film for optoelectronic applications	European Physical Journal Plus	2023	138			
424	Paraskar, PM; Major, I; Ladole, MR; Doke, RB; Patil, NR; Kulkarni, RD	Dimer fatty acid - A renewable building block for high-performance polymeric materials	Industrial Crops and Products	2023	200			
425	Pardeshi, S; Pownthurai, B; Ganesan, G; Keshari, H; Jadhav, Y; Chaskar, A	Selective oxidation of vinylbenzenes & acyloins in the presence of silver catalyst using molecular oxygen as terminal oxidant	Tetrahedron Letters	2023	119	154409		
426	Watson, AG; Mujumdar, AS; Thorat, BN; Shirikole, SS; Bhatkar, NS	A simple solar crop drying and pasteurizing system appropriate for smallholder and subsistence farmers in tropical and subtropical regions	Drying Technology	2024	42	3	407	
427	Pradhan, KC; Jadab, M; Rout, S; Dandela, R; Mandal, D; Parija, T; Barik, S; Kumar, J; Pal, S	Orange/red light emitting iridium(III) organometallic complexes containing 2,3-di(pyridine-2-yl)quinoxaline as ancillary ligand and their anticancer properties	Zeitschrift Fur Anorganische Und Allgemeine Chemie	2023				
428	Shindalkar, SS; Reddy, M; Singh, R; Nainar, MAM; Kandasubramanian, B	Polythiophene blends and composites as potential energy storage materials	Synthetic Metals	2023	299	117467		
429	Parida, A; Sahoo, D; Alagarasan, D; Vardhrajperumal, S; Ganesan, R; Naik, R	Impact on nonlinear/linear optical and structural parameters in quaternary In ₁₅ Ag ₁₀ S ₁₅ Se ₆₀ thin films upon annealing at different temperatures (vol 48, pg no 15380- 15389, 2022)	Ceramics International	2023	49	24	41025	
430	Vigya; Raj, S; Shiva, CK; Vedik, B; Mahapatra, S; Mukherjee, V	A novel chaotic chimp sine cosine algorithm Part-I: For solving optimization problem	Chaos Solitons & Fractals	2023	173	113672		
431	Parida, A; Alagarasan, D; Pradhan, GK; Naik, R	Time dependent 532 nm laser irradiation on quaternary Sb ₁₀ S ₁₅ In ₁₅ Se ₆₀ films: An insight into its structural, morphological, and optical modifications for photonics application	Physica B Condensed Matter	2023	657	414785		
432	Gawande, GD; Pinjari, DV; Chavan, PV	Degradation of neomycin using hydrodynamic cavitation based hybrid techniques	Chemical Engineering and Processing Process Intensification	2023	193	109543		
433	Das, S; Senapati, S; Alagarasan, D; Naik, R	Laser-induced modification in structural, morphological, linear and non-linear optical parameters of Ge ₂₀ Ag ₁₀ Te ₁₀ Se ₆₀ thin films for optoelectronic applications	Materials Science In Semiconductor Processing	2023	160	107456		
434	Rai, M; Zimowska, B; Gade, A; Ingle, P	Phoma spp. an untapped treasure of cytotoxic compounds: current status and perspectives	Applied Microbiology and Biotechnology	2023	107	16	4991	5001

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435	Jena, BJ; Alagarasan, D; Ganesan, R; Naik, R	Thermal annealing induced linear/nonlinear properties of Ag ₂ S/As ₂ Se ₃ heterojunction films for optoelectronic applications	Ceramics International	2023	49	16	27535	27550
436	Giri, S; Priyadarshini, P; Alagarasan, D; Ganesan, R; Naik, R	Annealing-induced phase transformation in In ₂ Se ₃ /Te ₂ O thin films and its structural, optical and morphological changes for optoelectronic applications	Rsc Advances	2023	13	36	24955	24972
437	Panda, DP; Swain, D; Chaudhary, M; Mishra, S; Bhutani, G; De, AK; Waghmare, UV; Sundaresan, A	Electron-Phonon Coupling Mediated Self-Trapped Exciton Emission in Organic-Inorganic Hybrid Manganese Halides	Acta Crystallographica A-Foundation and Advances	2023	79	C1195	C1195	
438	Sahu, B; Sharma, DD; Sekar, Y; Bhallad, A; Alla, JP	The Kinetic Study on Potassium Persulfate Accelerated Fish Oil Oxidation -An Agreeing Conclusion on Chamois Tanning	Journal of the American Leather Chemists Association	2023	118	6	253	262
439	Bhattacharjee, M; Goswami, S; Borah, P; Saikia, M; Barman, J; Pramanik, NB; Haloi, DJ	Preparation, Characterization, and Antimicrobial Activity of Chitosan/Kaolin Clay Biocomposite Films	Macromolecular Chemistry and Physics	2023	224	11		
440	Pawar, MA; Abadi, LF; Rojekar, S; Yawalkar, AN; Kulkarni, SS; Vavia, PR	Tenofovir alafenamide fumarate loaded long-acting microsphere for HIV pre-exposure prophylaxis	Journal of Drug Delivery Science and Technology	2023	87	104762		
441	Vais, RI; Sahay, K; Chiranjeevi, T; Devarapalli, R; Knypinski, L	Parameter Extraction of Solar Photovoltaic Modules Using a Novel Bio-Inspired Swarm Intelligence Optimisation Algorithm	Sustainability	2023	15	10	8407	
442	Ranaware, AS; Kunchge, NS; Lele, SS; Ochatt, SJ	Protoplast Technology and Somatic Hybridisation in the Family Apiaceae	Plants-Basel	2023	12	5	1060	
443	Priyadarshini, P; Das, S; Senapati, S; Samal, SK; Pradhan, GK; Naik, R	Preparation of nanosheets embedded ZnSe/Bi ₂ Se ₃ core/shell quantum dots for the study of optical properties and antibacterial activity	Surfaces and Interfaces	2023	37	102687		
444	Vigya; Shiva, CK; Vedik, B; Raj, S; Mahapatra, S; Mukherjee, V	A novel chaotic chimp sine cosine algorithm part-II: Automatic generation control of complex power system	Chaos Solitons & Fractals	2023	173	113673		
445	Pradhan, S; Madankar, CS; Prasad, L; Naik, SN	Synthesis of environmental benign biolubricant from wild castor seed by reactive extraction and optimization	Journal of the Indian Chemical Society	2023	100	2	100898	
446	Babu, NR; Chiranjeevi, T; Devarapalli, R; Knypinski, L; Marquez, FPG	Real-time validation of an automatic generation control system considering HPA-ISE with crow search algorithm optimized cascade FOPDN-FOPIDN controller	Archives of Control Sciences	2023	33	2	371	390
447	Lokhande, AS; Panchal, F; Munshi, R; Madkaikar, M; Malshe, VC; Devarajan, PV	pH-responsive microparticles of rifampicin for augmented intramacrophage uptake and enhanced antitubercular efficacy	International Journal of Pharmaceutics	2023	635	122729		

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448	Priyadarshini, P; Parida, A; Alagarasan, D; Ganesan, R; Naik, R	Time-dependent laser irradiation induced kinetics of changes in linear-nonlinear optical properties of Bi15In20Se65 thin films for IR applications	Journal of Applied Physics	2023	133	6	63104	
449	Hota, SK; Panda, SP; Das, S; Mahapatra, SK; Roy, L; De Sarkar, S; Murarka, S	Photoinduced Electron Donor Acceptor Complex-Mediated Radical Cascade Involving N- (Acyloxy) phthalimides: Synthesis of Tetrahydroquinolines	Journal of Organic Chemistry	2023				
450	Giri, S; Priyadarshini, P; Alagarasan, D; Naik, R	Influence of Te replacement by Bi in In10Se70Te20-xBix films and its structural, optical, morphological, surface wettability and thermal behaviors for optoelectronic applications	Optical Materials	2023	146	114522		
451	Panda, S; Joshi, V; Shrivastaw, VK; Das, S; Poddar, M; Bal, R; Bordoloi, A	Enhanced coke-resistant Co modified Ni/modified alumina catalyst for the bireforming of methane	Catalysis Science & Technology	2023	13	15	4506	4516
452	Sarlin, PJ; Morris, S; Morris, S; Joseph, P; Sherly, D	First report of house crow Corvus splendens removing burning cotton wicks from oil lamps, extinguishing and eating	Avian Biology Research	2023	16	2	75	80
453	Tehare, KK; Bhadke, PK; Bhande, SS; Navale, ST	Effect of acidic treatment on DSSC performance of TiO2 nanostructures	Applied Physics A Materials Science & Processing	2023	129	6	413	
454	Sangepu, VR; Jain, KK; Bhoomireddy, RD; Sharma, D; Venkateshwarlu, R; Kapavarapu, R; Dandela, R; Pal, M	One-pot sonochemical synthesis and in silico/ in vitro antitubercular evaluation of 1-methyl-3-propyl-1 H - pyrazole containing polynuclear fused N -heteroarenes	Journal of Molecular Structure	2023	1278	134909		
455	Lakshmiipathi, M; Sk, AI; Kundu, PK; Tothadi, S; Ghosh, S	Mechanically Elastic and Light Induced Bending of Acylhydrazone Based Photoswitch Crystal	Crystal Growth & Design	2023	23	7	4939	4945
456	Saleha, A; Shende, SS; Ingle, P; Rai, M; Minkina, TM; Gade, A	Cell free extract-mediated biogenic synthesis of ZnONPs and their application with kanamycin as a bactericidal combination	World Journal of Microbiology & Biotechnology	2023	39	12	334	
457	Talegaonkar, S; Chitlangia, A; Pradhan, V; More, S; Salunke, S	Uncovering caregiver concerns: 5 key issues that still remain unresolved in administration of oral medicines for children in India	European Journal of Pharmaceutics and Biopharmaceutics	2023	187	166	174	
458	Upadhaya, P; Hazari, PP; Mishra, AK; Dutta, B; Hassan, P; Patravale, V	Nose to brain delivery of radiolabeled chemotherapeutic micelles: Meeting the unmet needs of brain tumors	Journal of Drug Delivery Science and Technology	2023	86	104700		
459	Parab, AA; Karpe, AS; Tiwari, A; Pattanaik, A; Jadhav, Y; Walke, P; Chaskar, A	Eco-friendly and Efficient Synthesis of Water-soluble MoS2 Quantum Dot Probe for Smart Explosive Sensors	Chemistryselect	2023	8	29	e202300142	
460	Patil, PB; Raut-Jadhav, S; Topare, NS; Pandit, AB	Combined strategy of hydrodynamic cavitation and Fenton chemistry for the intensified degradation of acetamiprid	Separation and Purification Technology	2023	325	124701		
461	Ghosh, S; Bhambri, H; Singh, AK; Mandal, SK; Roy, L; Addy, PS	A convenient route to a vinyllogous diaryl based AIEgen with switchable mechanochromic luminescence properties	Chemical Communications	2023	59	30	4463	4466

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462	Panda, DP; Swain, D; Rohj, RK; Sarma, DD; Sundaresan, A	Elucidating Structure-Property Correlation in Perovskitoid and Antiperovskite Piperidinium Manganese Chloride	Inorganic Chemistry	2023				
463	Panda, DP; Swain, D; Sarkar, S; Sundaresan, A	Halogen Bond Induced Structural and Photophysical Properties Modification in Organic-Inorganic Hybrid Manganese Halides	Journal of Physical Chemistry Letters	2023	14	18	4211	4218
464	Ansari, MR; Khaladkar, S; Kalekar, A; Kim, MD; Peta, KR	Effect of annealing temperature on structural, optical and magnetic properties of green synthesized ZFO nanoparticles for electrochemical energy storage applications	Journal of Energy Storage	2023	74	109494		
465	Shet, H; Gunturu, KC; Gharpure, SJ; Kommyreddy, SP; Gupta, KS; Rout, SR; Dandela, R; Kapdi, AR	Cu(II)/PTABS-Promoted, Regioselective SNAr Amination of Polychlorinated Pyrimidines with Mechanistic Understanding	Journal of Organic Chemistry	2023	88	15	11036	11044
466	Malusare, DU; Ghumra, DP; Yadav, MD	Bioconversion of CO ₂ and potential of gas fermentation for mainstream applications: Critical advances and engineering challenges	Canadian Journal of Chemical Engineering	2023	101	12	6774	6791
467	Gholap, AD; Sayyad, SF; Hatvate, NT; Dhupal, VV; Pardeshi, SR; Chavda, VP; Vora, LK	Drug Delivery Strategies for Avobenzone: A Case Study of Photostabilization	Pharmaceutics	2023	15	3	1008	
468	Kohli, K; Ghosh, P; Joshi, VA; Yadav, P; Tripathi, D; Singh, R; Maity, SK; Srivastava, M	Process for Producing High-Value Aromatics from Light Cycle Oil Using a Solvent Extraction Method	Energy & Fuels	2023	37	17	12811	12823
469	Vitore, JG; Pagar, S; Singh, N; Karunakaran, B; Salve, S; Hatvate, N; Rojekar, S; Benival, D	A comprehensive review of nanosuspension loaded microneedles: fabrication methods,	Journal of Pharmaceutical Investigation	2023	53	4	475	504
470	Dhakate, MM; Joshi, JB; Khakhar, DV	Effects of Diffusional Particle Motion on Size Classification in a Spiral Jet Mill	Industrial & Engineering Chemistry Research	2023	62	45	19294	19301
471	Nandurkar, Y; Bhoye, MR; Maliwal, D; Pissurlenkar, RRS; Chavan, A; Katade, S; Mhaske, PC	Synthesis, biological screening and in silico studies of new N-phenyl-4- (1,3-diaryl-1H-pyrazol-4-yl) thiazol-2- amine derivatives as potential antifungal and antitubercular agents	European Journal of Medicinal Chemistry	2023	258	115548		
472	Upadhaya, P; Hazari, PP; Mishra, AK; Dutta, B; Hassan, P; Patravale, V	Radiolabelled folate micellar carriers as proposed diagnostic aid for CNS tumors by nasal route	Drug Delivery and Translational Research	2023	13	10	2604	2613
473	Solanki, PD; Oza, MH; Joshi, G; Jethva, HO; Joshi, MJ	Synthesis, Structural, FT-IR, UV-Vis. Spectroscopic, Thermal, and BET Studies of Magnesium Ion Doped Strontium Pyrophosphate Nano Particles	Ecs Journal of Solid State Science and Technology	2023	12	3	31001	
474	Srivastava, M; Banerjee, S; Bairagi, S; Singh, P; Kumar, B; Singh, P; Kale, RD; Mulvihill, DM; Ali, SW	Recent progress in molybdenum disulfide (MoS ₂) based flexible nanogenerators: An inclusive review	Chemical Engineering Journal	2024	480	147963		
475	Yadav, A; Jha, PA; Jha, PK; Jha, N; Singh, P	Overlapping large polaron tunnelling in lanthanum silicate oxyapatite	Journal of Physics Condensed Matter	2023	35	9	95702	

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476	Swain, D; Panda, DP; Rohj, RK; Sarma, DD; Sundaresan, A	Perovskitoid and Antiperovskite Piperidinium Manganese Chloride: Structure, Photoluminescence, Dielectric and Magnetic Properties	Acta Crystallographica A-Foundation and Advances	2023	79	C1154	C1154	
477	De, RJ; Jo, KW; Lee, BH; Some, S; Kim, KT	Microwave-assisted rapid synthesis of nitrogen-enriched amorphous carbon quantum dots for sensitive detection of ROS and multiple other applications	Journal of Materials Chemistry B	2023	11	26	6024	6043
478	Nagtode, VS; Cardoza, C; Yasin, HKA; Mali, SN; Tambe, SM; Roy, P; Singh, K; Goel, A; Amin, PD; Thorat, BR; Cruz, JN; Pratap, AP	Green Surfactants (Biosurfactants): A Petroleum-Free Substitute for Sustainability-Comparison, Applications, Market, and Future Prospects	Acs Omega	2023	8	13	11674	11699
479	Priyadarshini, P; Sahoo, D; Aparimita, A; Alagarasan, D; Ganesan, R; Varadharajaperumal, S; Naik, R	Switching of linear and nonlinear optical parameters in As35Se65 thin films upon annealing at both above and below Tg (vol 126 , 910 , 2020)	Applied Physics A Materials Science & Processing	2023	129	11		
480	Madagyal, S; Yadav, P; Ganesan, G; Chetti, P; Chaskar, A	Synergistic insights into pyrazinophenazine based hybrid materials for advancing optoelectronics	Journal of Molecular Structure	2024	1300	137236		
481	Khaladkar, SR; Maurya, O; Gund, G; Sinha, B; Dubal, D; Deshmukh, RR; Kalekar, A	Improving the charge kinetics through in-situ growth of NiSe nanoparticles on g-C3N4 nanosheets for efficient hybrid supercapacitors	Journal of Energy Chemistry	2023	87	304		
482	Ray, S; Sahoo, MR; Mukherjee, S; Perumal, A; Nayak, SK; Bhaumik, S	Understanding the charge transfer mechanism in CsPbBr3 nanocrystals and nitrogen-doped carbon quantum dot heterostructures: effect of nanocrystal encapsulation	Rsc Advances	2023	13	50		
483	Shahane, K; Kshirsagar, M; Tambe, S; Jain, D; Rout, S; Ferreira, MKM; Mali, S; Amin, P; Srivastav, PP; Cruz, J; Lima, RR	An Updated Review on the Multifaceted Therapeutic Potential of Calendula officinalis L.	Pharmaceuticals	2023	16	4		
484	Chavda, VP; Valu, DD; Parikh, PK; Tiwari, N; Chhipa, A; Shukla, S; Patel, SS; Balar, PC; Paiva Santos, AC; Patravale, V	Conventional and Novel Diagnostic Tools for the Diagnosis of Emerging SARS-CoV-2 Variants	Vaccines	2023	11	2		
485	Nagar, G; Jain, S; Rajurkar, M; Lothe, R; Rao, HR; Majumdar, S; Gautam, M; Rodriguez-Aponte, SA; Crowell, LE; Love, JC; Dandekar, P; Purnik, A; Gairola, S; Shaligram, U; Jain, R	Large-Scale Purification and Characterization of Recombinant Receptor-Binding Domain (RBD) of SARS-CoV-2 Spike Protein Expressed in Yeast	Vaccines	2023	11	10		
486	Kulkarni, D; Shekar, R; Shirsathe, C; Sonwane, R; Varpe, N; Shelke, S; More, MP; Pardeshi, SR; Dhaneashwar, G; Junnuthula, V; Dyawanapelly, S	Biofabrication of nanoparticles: sources, synthesis, and biomedical applications	Frontiers In Bioengineering and Biotechnology	2023	11	1E+06		
487	Kulkarni, MB; Gavande, V; Mahanwar, PA; Shah, AR; Shuib, RK; Khare, AM; Radhakrishnan, S	Review on biomass sheep wool based polymer composites	Biomass Conversion and Biorefinery	2023				
488	Biranje, SS; Shi, YF; Sun, JZ; Cheng, L; Jiao, HX; Lu, XC; Sethupathy, S; Wang, QQ; Adivarekar, RV; Liu, J	Cellulose nanofibril/polylysine-based 3D composite antibacterial scaffold for wound healing applications	Cellulose	2023	30	8	5289	

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489	Priyadarshini, P; Senapati, S; Bisoyi, S; Samal, S; Naik, R	Zn doping induced optimization of optical and dielectric characteristics of CuInSe ₂ nanosheets for optoelectronic device applications	Journal of Alloys and Compounds	2023	945	169222		
490	Saha, A; Chiranjeevi, T; Devarapalli, R; Babu, NR; Dash, P; Márquez, FP	Analysis of multiple-area renewable integrated hydro-thermal system considering artificial rabbit optimized PI (FOPD) cascade controller and redox flow battery	Archives of Control Sciences	2023	33	4	861	
491	Panda, R; Rath, H; Khan, SA; Alagarasan, D; Singh, UP; Mishra, NC; Naik, R	Interface engineered nanostructured phase formation at Se/In sites by Ag ion irradiation and its structural, optical and morphological behavior	Surfaces and Interfaces	2023	40	103081		
492	Abushahba, MF; Dadelahi, AS; Lemoine, EL; Skyberg, JA; Vyas, S; Dhoble, S; Ghodake, V; Patravale, VB; Adamovicz, JJ	Safe Subunit Green Vaccines Confer Robust Immunity and Protection against Mucosal Brucella Infection in Mice	Vaccines	2023	11	3	546	
493	Ganorkar, K; Samanta, A; Mukherjee, S; Joshi, R; Gupta, S; Sarkar, A; Ghosh, SK	Switching of the Polarity-Sensitive Aggregation Pattern of a Thiosemicarbazone-Based Anticancer Luminophore and Its Involvement in Cellular Apoptosis of the Human Lung Cancer Cell Line	Journal of Physical Chemistry B	2023	127	1	104	
494	Persaud, KE; Sahu, RR; Neary, MC; Kapdi, AR; Lakshman, MK	Two short approaches to the COVID-19 drug β -d-N4-hydroxycytidine and its prodrug molnupiravir	Organic & Biomolecular Chemistry	2024	22	4	735	
495	Pradhan, M; Dutta, A; Abbas, IK; Joseph, B; Row, TNG; Swain, D; Pradhan, GK	High Pressure Equation of State of Na ₆ Mn(SO ₄) ₄ Vanthoffite	Acta Crystallographica A-Foundation and Advances	2023	79	C907	C907	
496	Tambe, S; Jain, D; Rawat, R; Mali, S; Pagano, MA; Brunati, AM; Amin, P	MeltSerts technology (brinzolamide ocular inserts via hot-melt extrusion): QbD-steered development, molecular dynamics, in vitro, ex vivo and in vivo studies	International Journal of Pharmaceutics	2023	648	123579		
497	Madankar, CS; Pradhan, S; Sahoo, NK; Naik, SN	Enzymatic Synthesis of Castor Oil Hexyl Ester in Liquid Carbon dioxide Medium and its Potential Application as Biolubricant	Indian Journal of Engineering and Materials Sciences	2023	30	2	240	248
498	Dey, B; Raj, S; Mahapatra, S; Márquez, FPG	A variegated GWO algorithm implementation in emerging power systems optimization problems	Engineering Applications of Artificial Intelligence	2024	129	107574		
499	Gaikwad, SG; Pathak, AA; Mote, DR; Gogate, PR; Singh, S; Modhera, B	Liquid-liquid equilibria of ternary mixtures containing Aniline plus Toluene plus water at elevated temperatures: measurements and correlation	Separation Science and Technology	2023	58	15-16	2718	2725
500	Yadav, A; Jha, PA; Jha, PK; Jha, N; Singh, P	Influence of ionic radii on the conduction mechanism in lanthanum silicate oxyapatite	Materials Chemistry and Physics	2023	297	127444		
501	Sohale, AP; Janardanan, S; Yadav, D; Dash, B; Yadav, MD	Dark Fermentative Biohydrogen Production: Recent Advances and Challenges	Industrial & Engineering Chemistry Research	2023	62	37	14755	14771

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502	Manjunathan, T; Guru, A; Haridevamuthu, B; Dandela, R; Arokiaaraj, J; Gopinath, P	6-Gingerol-derived semisynthetic analogs mitigate oxidative stress, and reverse acrylamide induced neurotoxicity in zebrafish	New Journal of Chemistry	2023	47	22	10488	10492
503	Bhagat, SK; Babu, NR; Saikia, LC; Chiranjeevi, T; Devarapalli, R; Mrquez, FPG	A Review on Various Secondary Controllers and Optimization Techniques in Automatic Generation Control	Archives of Computational Methods In Engineering	2023	30	5	3081	3111
504	Lakkakula, J; Divakaran, D; Srivastava, R; Ingle, P; Gade, A; Raut, R	In Situ Growth of Biocompatible Biogenic Silver Nanoparticles in Poly-Vinyl Alcohol Thin Film Matrix	IEEE Transactions On Nanobioscience	2023	22	3	480	486
505	Balsora, HK; Kartik, S; Joshi, JB; Sharma, A; Chakinala, AG	Artificial Neural Network-Based Models for the Prediction of Biomass Pyrolysis Products from Preliminary Analysis	Industrial & Engineering Chemistry Research	2023	62	36	14311	14319
506	Abidi, S; Talegaonkar, S; Notani, S; Pradhan, V; Pokharkar, V; Popli, H; Walsh, J; Salunke, S	Stepping into small shoes: Gaining user perspective on appropriate administration devices for paediatric medication in India	European Journal of Pharmaceutics and Biopharmaceutics	2023	191	247	258	
507	Patil, PD; Kelkar, RK; Patil, NP; Pise, PV; Patil, SP; Patil, AS; Kulkarni, NS; Tiwari, MS; Phirke, AN; Nadar, SS	Magnetic nanoflowers: a hybrid platform for enzyme immobilization	Critical Reviews In Biotechnology	2024	44	5	795	816
508	Ingavale, S; Marbaniang, P; Palabathuni, M; Kale, VN; Mishra, N	Decoration of boron nanoparticles on a graphene sheet for ammonia production from nitrate	Nanoscale	2023	15	27	11497	11505
509	Pete, AM; Ingle, PU; Raut, RW; Shende, SS; Rai, M; Minkina, TM; Rajput, VD; Kalinitchenko, VP; Gade, AK	Biogenic Synthesis of Fluorescent Carbon Dots (CDs) and Their Application in Bioimaging of Agricultural Crops	Nanomaterials	2023	13	1	209	
510	Tambe, S; Kesari, KK; Mishra, YK; Amin, P; Das, SS	Long-acting biodegradable implants for osteoporosis management: transforming the landscape of bisphosphonates delivery	Future Medicinal Chemistry	2023	15	9	731	734
511	Praveenkumar, V; Kushwaha, OS; Nagaraaj, P; Kumar, R	Green and Sustainable Carbon Dioxide Capture in Aqueous I Valine: Experimental Studies on Process Efficiency and Gas Uptake for Industrial Applications	Industrial & Engineering Chemistry Research	2023	63	1	872	885
512	Sawant, KK; Saxena, S; Shindalkar, SS; Ramasamy, RP; Raj, AAB; Kandasubramanian, B	Green Synthesis of Super Hydrophobic MXene-Hexaferite Composite for EMI Shielding	Journal of Electronic Materials	2023	52	12	8237	8249
513	Kale, HB; Kute, AD; Gaikwad, RP; Fornasiero, P; Zboril, R; Gawande, MB	Synthesis and energy applications of copper-based single-atom electrocatalysts	Coordination Chemistry Reviews	2024	502	215602		
514	Anjani, QK; Pandya, AK; Demartis, S; Dominguez-Robles, J; Moreno-Castellanos, N; Li, HH; Gavini, E; Patravale, VB; Donnelly, RF	Liposome-loaded polymeric microneedles for enhanced skin deposition of rifampicin	International Journal of Pharmaceutics	2023	646	123446		
515	Sanjanwala, D; Londhe, V; Trivedi, R; Bonde, S; Sawarkar, S; Kale, V; Patravale, V	Polysaccharide-based hydrogels for medical devices, implants and tissue engineering: A review	International Journal of Biological Macromolecules	2024	256	128488		
516	Sampathi, S; Haribhau, CJ; Kuchana, V; Junnuthula, V; Dyawanapelly, S	Nanosuspension encapsulated chitosan-pectin microbeads as a novel delivery platform for enhancing oral bioavailability	Carbohydrate Polymers	2023	319	121177		

Sr.	Authors	Article Title	Source Title	Pb Yr.	Vol.	Issue Start Page	End Page	Article No.
517	Dutta, A; Kundu, D; Sharma, S; Paul, N; Naik, PK; Silvester, DS; Banerjee, T	Physically Cross-Linked Titania Supported Novel Eutectogels as Solid-State Electrolytes: An Experimental and Quantum Chemical Investigation	Acs Sustainable Chemistry & Engineering	2023	12	1	248	262
518	Das, SS; Tambe, S; Verma, PRP; Amin, P; Singh, N; Singh, SK; Gupta, PK	Molecular insights and therapeutic implications of nanoengineered dietary polyphenols for targeting lung cancer: part II	Nanomedicine	2022	17	23	1799	1816
519	Dulal, M; Islam, MR; Maiti, S; Islam, MH; Ali, I; Abdelkader, AM; Novoselov, KS; Afroj, S; Karim, N	Smart and Multifunctional Fiber Reinforced Composites of 2D Heterostructure-Based Textiles	Advanced Functional Materials	2023	33	40		
520	Maurya, RL; Kumar, M; Sirohi, U; Priya; Chaudhary, V; Sharma, VR; Yadav, D; Yadav, MK	Effect of Silver Nitrate and Thidiazuron on Shoot Proliferation, Hyperhydricity and Assessment of Genetic Fidelity of Microplants in Carnation (<i>Dianthus caryophyllus</i> L.)	Cytology and Genetics	2023	57	1	87	94
521	Chan, MC; Ghadieh, C; Ifan, I; Khair, E; Padilla, N; Rebeiro, S; Sidgreaves, A; Patravale, V; Disouza, J; Catanzariti, R; Pont, L; Williams, K; De Rubis, G; Mehndiratta, S; Dhanasekaran, M; Dua, K	Exploring the influence of the microbiome on the pharmacology of anti-asthmatic drugs	Naunyn Schmiedebergs Archives of Pharmacology	2023				
522	Jaleh, B; Nasri, A; Eslamipananah, M; Nasrollahzadeh, M; Advani, JH; Fornasiero, P; Gawande, MB Gade, AK; Rai, M; Manna, S; Srivastava, PK; Biswas, JK	Application of biowaste and nature inspired (nano) materials in fuel cells review (Aug, 10.1007/s10668-023- 03722-y, 2023	Journal of Materials Chemistry A	2023	11	17	9333	9382
523	Kotha, R; Rani, P; Robert, F; Thomas, CB; Chelliah, SK; Ronickom, JFA	Damage monitoring in fibre reinforced polymer composites using adaptive threshold methods and geometric features	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2023	45	1	14	
524	Gaware, S; Kori, S; Serrano, JL; Dandela, R; Hilton, S; Sanghvi, YS; Kapdi, AR	Rapid plugged flow synthesis of nucleoside analogues via Suzuki Miyaura coupling and heck Alkenylation of 5-Iodo-2' - deoxyuridine (or cytidine)	Journal of Flow Chemistry	2023	13	3	293	310
525	Rodrigues, VJ; Jouanneau, D; Fernandez-Fuentes, N; Onime, LA; Huws, SA; Olaneth, AA; Adams, JMM	Biochemical characterisation of a PL24 ulvan lyase from seaweed associated <i>Vibrio</i> sp. FNV38	Journal of Applied Phycology	2024	36	1	57	71
526	Nadekar, B; Khollam, YB; Shaikh, SF; Trimukhe, A; Deshmukh, R; Pandit, B; More, PS	Impact of plasma polymerized Iodine-Doped thiophene films for enhanced sensing response towards industrial VOCs	Journal of Photochemistry and Photobiology A Chemistry	2024	446	115125		
527	Meshram, N; Truong, NTN; Tamboli, MS; Mahadik, MA; Shaikh, SF	Highly efficient photocatalytic degradation of organic pollutants by Sn/Al codoped α -Fe ₂ O ₃ nanostructures	Journal of Materials Science Materials In Electronics	2023	34	29	1990	
528	Pandiyaraj, KN; Vasu, D; Raji, A; Ghobeira, R; Tabaei, PSE; De Geyter, N; Morent, R; Ramkumar, MC; Pichumani, M; Deshmukh, RR	Combined effects of direct plasma exposure and pre-plasma functionalized metal-doped graphene oxide nanoparticles on wastewater dye degradation	Journal of Industrial and Engineering Chemistry	2023	122	185	199	
529	Kakku, S; Naidu, S; Bhatt, M; Chakinala, AG; Joshi, J; Gautam, S; Mohanty, K; Kataria, G; Sharma, A	Pyrolytic conversion of agricultural residue using continuous auger reactor for resource recovery	Journal of Analytical and Applied Pyrolysis	2023	171	105951		

Sr.	Authors	Article Title	Source Title	Pb Yr.	Vol.	Issue Start Page	End Page	Article No.
530	Das, SS; Tambe, S; Verma, PRP; Amin, P; Singh, N; Singh, SK; Gupta, PK	Molecular insights and therapeutic implications of nanoengineered dietary polyphenols for targeting lung carcinoma: part I	Nanomedicine	2022	17	23	1779	1798
531	Shinde, RM; Ingle, PU; Trivedi, HR; Wasule, D; Gaharwar, A; Gade, AK; Rai, M; Manna, S; Srivastava, PK; Biswas, JK	Bioremediation of industrial dye waste effluents aided by GIS applications: a comprehensive review (Aug. 10.1007/s10668-023- 03722-y, 2023)	Environment Development and Sustainability	202				
532	Shinde, RM; Ingle, PU; Trivedi, HR; Wasule, D; Gaharwar, A; Gade, AK; Rai, M; Manna, S; Srivastava, PK; Biswas, JK	Bioremediation of industrial dye waste effluents aided by GIS applications: a comprehensive review	Environment Development and Sustainability	2024	26	5	10945	10971
533	Nadekar, B; Khollam, YB; Shaikh, SF; Trimukhe, A; Deshmukh, R; More, PS; Siddiqui, MUH; Rana, AS; Palaniswami, M	Plasma-Polymerized Thiophene Reduced Graphene Oxide Composite Film Sensor for Ammonia/Amine Detection at Room Temperature	Chemosensors	2023	11	1	42	
534	Hakeem, IG; Sharma, A; Sharma, T; Sharma, A; Joshi, JB; Shah, K; Ball, AS; Surapaneni, A	Techno-economic analysis of biochemical conversion of biomass to biofuels and platform chemicals	Biofuels Bioproducts & Biorefining-Biofr	2023	17	3	718	750
535	Pandya, AK; Vora, LK; Umeyor, C; Surve, D; Patel, A; Biswas, S; Patel, K; Patravale, VB	Polymetric in situ forming depots for long-acting drug delivery systems	Advanced Drug Delivery Reviews	2023	200	115003		
536	Pattnaik, A; Sanket, AS; Pradhan, S; Sahoo, R; Das, S; Pany, S; Douglas, TEL; Dandela, R; Liu, Q; Rajadas, J; Pati, S; Smedt, SC; Braeckmans, K; Samal, SK	Designing of gradient scaffolds and their applications in tissue regeneration	Biomaterials	2023	296	122078		
537	Parihar, A; Prajapati, BG; Paliwal, H; Shukla, M; Khunt, D; Bahadure, SD; Dyawanapelly, S; Junnuthula, V	Advanced pulmonary drug delivery formulations for the treatment of cystic fibrosis	Drug Discovery Today	2023	28	10	103729	
538	Chavda, VP; Dyawanapelly, S; Dawre, S; Ferreira-Faria, I; Bezbaruah, R; Gogoi, NR; Kolimi, P; Dave, DJ; Paiva-Santos, AC; Vora, LK	Lyotropic liquid crystalline phases: Drug delivery and biomedical applications	International Journal of Pharmaceutics	2023	647	123546		
539	Gholap, AD; Rojekar, S; Kapare, HS; Vishwakarma, N; Raikwar, S; Garkal, A; Mehta, TA; Jadhav, H; Prajapati, MK; Annappure, U	Chitosan scaffolds: Expanding horizons in biomedical applications	Carbohydrate Polymers	2024	323	121394		
540	Senapati, S; Naik, R; Dash, S; Mohanty, A; Braeckmans, K; De Smedt, SC; Samal, SK	Chitosan-Based Emissive Carbon Nanosheets and Their Solid-State Temperature-Dependent Photoluminescent Study	Acs Sustainable Chemistry & Engineering	2023	11	37	13535	13544
541	Mohapatra, SK; Al Kurd, K; Jhulki, S; Bogdanov, G; Bacsa, J; Conte, M; Timofeeva, TV; Marder, SR; Barlow, S	Benzoimidazolium-derived dimeric and hydride n-dopants for organic electron-transport materials: impact of substitution on structures, electrochemistry, and reactivity	Beilstein Journal of Organic Chemistry	2023	19	1651	1663	
542	Kadam, RG; Medved, M; Kumar, S; Zaoralova, D; Zoppellaro, G; Bad'ura, Z; Montini, T; Bakandritsos, A; Fonda, E; Tomanec, O; Otyepka, M; Varma, RS; Gawande, MB; Fornasiero, P; Zboril, R	Linear-Structure Single-Atom Gold(I) Catalyst for Dehydrogenative Coupling of Organosilanes with Alcohols	Acs Catalysis	2023	13	24	16067	16077
543	Maunya, R; Gohil, N; Nixon, S; Kumar, N; Noronha, SB; Dhali, D; Trabelsi, H; Alzahrani, KJ; Reshamwala, SMS; Awasthi, MK; Ramakrishna, S; Singh, V	Rewiring of metabolic pathways in yeasts for sustainable production of biofuels	Bioresource Technology	2023	372	128668		

Sr.	Authors	Article Title	Source Title	Pb Yr.	Vol.	Issue Start Page	End Page	Article No.
544	Kaur, J; Gulati, M; Kaur, IP; Patravale, V; Dua, K; Singh, SK	Polymeric micelles as potent islet amyloid inhibitors: Current advances and future perspectives	Drug Discovery Today	2023	28	5	103571	
545	Tambe, S; Kumar, R; Amin, P; Mishra, M; Gupta, M; Govarthanan, K; Narasimhan, AK; Gupta, PK	Current aspects of organoid technology for biomaterial toxicity analysis	Future Medicinal Chemistry	2023				
546	Ruban, SM; Ramadass, K; Singh, G; Talapaneni, SN; Kamalakara, G; Gadipelly, CR; Mannepalli, LK; Sugi, Y; Vinu, A	Organocatalysis with carbon nitrides	Science and Technology of Advanced Materials	2023	24	1	2E+06	
547	Gholap, AD; Gupta, J; Kamandar, P; Bhowmik, DD; Rojekar, S; Faiyazuddin, M; Hatvate, NT; Mohanto, S; Ahmed, MG; Subramaniam, V; Kumarasamy, V	Harnessing Nanovaccines for Effective Immunization-A Special Concern on COVID-19: Facts, Fidelity, and Future Prospective	Acs Biomaterials Science & Engineering	2023	10	1	271	297
548	Sugandhi, VV; Pangen, R; Vora, LK; Poudel, S; Nangare, S; Jagwani, S; Gadhave, D; Qin, CL; Pandya, A; Shah, PR; Jadhav, K; Mahajan, HS; Patravale, V	Pharmacokinetics of vitamin dosage forms: A complete overview	Food Science & Nutrition	2024	12	1	48	83
549	Jadhav, HB; Sablani, S; Gogate, P; Annappure, U; Casanova, F; Nayik, GA; Alaskar, K; Sarwar, N; Raina, IA; Ramiyas, S; Khaneghah, AM	Factors governing consumers buying behavior concerning nutraceutical product	Food Science & Nutrition	2023	11	9	4988	5003
550	Aggarwal, S; Karmakar, A; Krishnakumar, S; Paul, U; Singh, A; Banerjee, N; Laha, N; Ball, GR; Srivastava, S	Advances in Drug Discovery based on Genomics, Proteomics and Bioinformatics in Malaria	Current Topics In Medicinal Chemistry	2023	23	7	551	578
551	Das, R; Hossain, M; Mahata, A; Swain, D; De Angelis, F; Santra, PK; Sarma, DD	Unique Chiro-optical Properties of the Weakly-2D (R-/S-MBA)2CuBr4 Hybrid Material	Acs Materials Letters	2023	5	6	1556	1564
552	Allam, AY; Khan, ZS; Bhat, MS; Naik, B; Wani, SA; Rustagi, S; Ajjaz, T; Elsadek, MF; Chen, TW	Chemical, Physical, and Technological Characteristics of Palm Olein and Canola Oil Blends	Journal of Food Quality	2023				7E+06
553	Gupta, AK; Pratiksha; Das, T; Kumar, H; Rastogi, S; Espinosa, E; Rincon, E; Morcillo-Martin, R; Rather, MA; Kumar, V; Naik, B; Makroo, HA; Xiao, HW; Ranjan, R; Mishra, S	Novel food materials: Fundamentals and applications in sustainable food systems for food processing and safety	Food Bioscience	2023	55			103013
554	Fatima, R; Prasher, P; Sharma, M; Chellappan, DK; Gupta, G; Singh, SK; Patravale, VB; Dua, K	Aminated Polysaccharides: Unveiling a new frontier for enhanced therapeutic efficacy	Journal of Drug Delivery Science and Technology	2023	89			105090
555	Rathnakumar, K; Kalaivendan, RGT; Eazhumalai, G; Charles, APR; Verma, P; Rustagi, S; Bharti, S; Kothakota, A; Siddiqui, SA; Lorenzo, JM; Pandiselvam, R	Applications of ultrasonication on food enzyme inactivation- recent review report (2017-2022)	Ultrasonics Sonochemistry	2023	96			106407
556	Chavda, VP; Pandya, A; Kumar, L; Ravai, N; Vora, LK; Pulakkat, S; Patravale, V; Duo, Y; Tang, BZ	Exosome nanovesicles: A potential carrier for therapeutic delivery	Nano Today	2023	49			101771

Sr.	Authors	Article Title	Source Title	Pb Yr.	Vol.	Issue Start Page	End Page	Article No.
557	Alagarasan, D; Hegde, SS; Kumar, A; Shanmugavelu, B; Murahari, P; Ganesan, R; Shetty, HD; Naik, R; Ubaidullah, M; Gupta, M; Pandit, B; Senthilkumar, N; Sehgal, SS	Influence of La3+doping on nebulizer spray pyrolysed In2S3 thin film for enhanced	Journal of Photochemistry and Photobiology A Chemistry	2023	444	114941		
558	Kumbhar, P; Kaur, J; De Rubis, G; Paudel, KR; Prasher, P; Patel, VK; Corrie, L; Chellappan, DK; Gupta, G; Singh, SK; Patravale, V; Disouza, J; Dua, K	Inhalation drug delivery in combating pulmonary infections: Advances and challenges	Journal of Drug Delivery Science and Technology					
559	Singh, SK; Thakur, K; Sharma, V; Saini, M; Sharma, D; Vishwas, S; Kakoty, V; Pal, RS; Chaitanya, MVNL; Babu, MR; Gupta, S; Rehman, ZU; Smriti; Singla, M; Gupta, G; Jakhmola, V; Pinto, TDA; Kumbhar, P; Disouza, J; Patravale, V; Dua, K; Gadewar, MM	Exploring the multifaceted potential of chlorogenic acid: Journey from nutraceutical to nanomedicine	South African Journal of Botany					
560	Babu, MR; Vishwas, S; Khursheed, R; Harish, V; Sravani, AB; Khan, F; Alotaibi, B; Binshaya, A; Disouza, J; Kumbhar, PS; Patravale, V; Gupta, G; Loebenber, R; Arshad, MF; Patel, A; Patel, S; Dua, K; Singh, SK	Unravelling the role of microneedles in drug delivery: Principle, perspectives, and practices	Drug Delivery and Translational Research					
561	Naik, NN; Vadloori, B; Poosala, S; Srivastava, P; Coecke, S; Smith, A; Akhtar, A; Roper, C; Radhakrishnan, S; Bhayravhatla, B; Damle, M; Pulla, VK; Hackethal, J; Horland, R; Li, AP; Pati, F; Singh, MS; Occhetta, P; Bisht, R; Dandekar, P; Bhagavatula, K; Pajkrt, D; Johnson, M; Weber, T; Huang, JH; Hysenaj, L; Mallar, B; Ramray, B; Dixit, S; Joshi, S; Kulkarni, M	Advances in Animal Models and Cutting-Edge Research in Alternatives: Proceedings of the Third International Conference on 3Rs Research and Progress, Vishakhapatnam, 2022	Atla-Alternatives To Laboratory Animals					
562	De Rubis, G; Paudel, KR; Corrie, L; Mehndiratta, S; Patel, VK; Kumbhar, PS; Manjappa, AS; Disouza, J; Patravale, V; Gupta, G; Manandhar, B; Rajput, R; Robinson, AK; Reyes, RJ; Chakraborty, A; Chellappan, DK; Singh, SK; Oliver, BGG; Hansbro, PM; Dua, K	Applications and advancements of nanoparticle-based drug delivery in alleviating lung cancer and chronic obstructive pulmonary disease	Naunyn Schmiedebergs Archives of Pharmacology					



[INCOME & EXPENDITURE, BALANCE SHEET]

**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 2023

Amount (Rs.) As on 31st March 2022	Particular's	SCH	Amount (Rs.) As on 31st March 2023
	INCOME :		
30,35,46,510	Salary Grant	1	36,96,62,938
17,47,37,757	Income from fees	2	19,64,09,292
1,64,07,327	Interest		81,24,549
5,38,33,259	Consultancy fees		6,28,68,373
2,56,09,611	Other Income	3	1,42,46,260
57,41,34,464	TOTAL INCOME		65,13,11,613
	EXPENDITURE :		
40,82,37,205	Salary	4	45,13,19,060
73,04,228	Examination expenses	5	68,30,213
1,63,91,323	Repairs and Maintenance	6	1,73,61,098
11,99,40,461	Operating & Administrative Expenses	7	14,57,34,218
	Transfer to Assets :		
3,09,19,919	On ICT & Hostel Assets		2,95,80,254
1,07,38,015	On Equip Assets as per contra		89,13,208
12,42,39,368	On Other Assets as per contra		13,37,20,085
(13,49,77,383)	Less : Transfer to the extent of Depreciation		(14,26,33,293)
58,27,93,136	TOTAL EXPENSES		65,08,14,842
(86,58,672)	SURPLUS/ (DEFICIT)		4,86,770
	Appropriation:		
2,91,15,310	Development Reserve (50% of Development Fees)		3,05,90,879
53,83,325	Faculty Development Reserve (10% of Consultancy Fees)		62,86,856
(4,31,57,307)	AMOUNT TRANSFERRED TO GENERAL RESERVES		(3,63,90,964)
(86,58,672)			4,86,770

As per our Report of Even date

For DSK & Associates

Chartered Accountants

Firm Registration No: 1179199A, A-550

P.G.DUBE

Partner

M. No. : 036288

Place: Mumbai

Date : 27th September 2024



For Institute of Chemical Technology

Matunga, Mumbai Campus

AR (F&A)

Vice Chancellor



ASSOCIATIONS, ENDOWMENTS AND PLACEMENT

TWELFTH MAIN CONVOCATION OF ICT

The 12th Convocation of the Institute was organized on March 4, 2023 at ICT where Dr. G Satheesh Reddy Scientific Adviser to Raksha Mantri Ministry of Defence Government of India delivered the Convocation address.

The next batch of the students under the deemed to be university status was bestowed with their respective degrees on this occasion. It included:

Masters Degree - M.Chem.Engg., M.Tech., M.Pharm. M.E. and M.Sc.: 117 candidates, M.Chem.Engg.: 8, M.Tech. in Green Tech.: 7, M.Pharm.: 3, M.Tech in Pharma. Tech.- 5, M.Tech. Pharm. Biotech: 2, M.Tech in Fibres and Textile Processing Tech. - 7, M.Sc. in Textile Chemistry- 3, M.Tech. in Dyestuff Technology- 5, M.Tech in Perfumery and Flavour Tech- 11, M.Tech in Food Engg. and Tech.-- 5, M.Tech in Food Bio Tech.- 3 , M.Tech in Oils, Oleochemicals and Surfactant Tech.- 12,

M.Tech in Polymer Engg. and Tech. - 10 , M.Tech in Surface Coating Tech. - 12, M.Tech in Bioprocess Tech: 14 , M.E. (Plastic Engg.)- 10

Doctorate Degree: 33 candidates

Ph.D.(Tech.) in Bioprocess Technology:1 , Ph.D. (Tech.) in Chem.Engg.: 2, Ph.D. (Tech.) in Green Technology: 3, Ph.D. (Tech.) in Food Biotechnology:1, Ph.D. (Tech.) in Food Engg. and Technology: 2, Ph.D. (Tech.) in Pharmacy Pharmaceuticals/ Pharmaceutical Chemistry/ Pharmacology/Pharmacognosy: 4, Ph.D. (Tech.) in Pharmaceutical Technology: 1, Ph.D. (Tech.) in Polymer Engineering and Technology: 2, Ph.D.(Tech.) in Mechanical Engineering:1, Ph.D.(Tech.) in Fibres and Textile Processing Technology: 1, Ph.D. (Sci.) in Textile Chemistry: 2, Ph.D.(Sci.) in Biotechnology: 3, Ph.D.(Sci.) in Chemistry: (Inorganic/Organic/Physical): 10

Dr. R.A. Mashelkar, Chancellor, Institute of Chemical Technology presided over the function.





TECHNOLOGICAL ASSOCIATION

Technological Association (TA) is the student body of ICT that conducts co-curricular and extra-curricular activities throughout the academic year. the 32-member strong team is presided by the Vice-Chancellor, Prof. A. B. Pandit, while Dean- Student and Alumni Affairs who is ex-officio Vice President. Cultural activities, including those related to music, dance, art, literature are organized by the different clubs under TA. On-campus, award winning festivals are also held such as the annual technical festival of the institute, **Vortex**, that allows students from all over the country to present their innovative ideas and research work and also solve industry defined problems. the annual inter-college cultural festival, **MANZAR** has a plethora of programs, specifically concerts and workshops that serve to enrich the cultural aspect of the institute. the intra-college festival, **FunTech**, is one of the oldest event on campus and involves several sporting and cultural events for all the students ICT. **SportSaga** is the annual inter-college sports festival of the institute that includes both, mainstream sporting as well as informal events and also conducts the trademark ICT Marathon each year.

Marathi Literary Association of Institute of Chemical Technology popularly known as **MANTHAN** is one the oldest club of TA started in 1980. It conducts various kinds of programs every year based on Marathi literature to inculcate and develop liking towards the native state language, Marathi. **MANTHAN** upholds rich tradition of presenting quality programs. **Sports Club** conducts numerous sports activities with sole aim to promote sports, fitness and team spirit. the events include inter-college tournaments of numerous sports, adventures like mid-night cycling, monsoon trek and faculty games etc. the **TEDx club** organizes activities such as TEDxMAS, MotivaTED and several inspiring talks by renowned personalities.

The in-house technical journal, **Bombay Technologist** is also run under the purview of the TA and encourages the art of scientific writing among students. **Entrepreneurship Cell** (E-Cell) was also launched recently that serves to enhance the entrepreneurial culture at ICT. the TA also addresses student grievances and serves as a link between the faculty members and the students.

UDCT ALUMNI ASSOCIATION

UDCT Alumni Association (UAA) (udctalumni.org.in/) was formed in 1989 to foster fellowship and provide a forum to bring together the alumni of ICT, its past and present faculty members on a common platform. A major activity of the UAA is to promote infrastructure growth at ICT including development of laboratories and also to support student growth both academic and co-curricular. UAA also promotes the activities of the ICT in India and abroad as well as institutes awards and fellowships to alumni/well wishers. For the last over 30 years, UAA has striven hard to achieve its objectives with valuable and timely support of the members, well wishers. UAA currently has more than 6700 life members and 14 Patron members. UAA plays a major role in following specific domains:

1. **Providing direct financial assistance to ICT :**
 - To support infrastructure development of the institute
 - To support student activities organized by Technological Association
 - To support needy students in the form of loans, which students can pay back in installments after graduation
 - To provide books in special areas such as management and also assisting the library facilities
2. **Enhancing studentship at ICT :**
 - Sponsoring factory visits
 - Arranging lectures, seminars, symposia, workshops
 - Awarding best students of ICT for their meritorious performance
 - Supporting the Training and Placement Service to the ICT current students.
 - Encouraging, promoting, supporting providing, spreading and arranging for education and research in Chemical Technology, Chemical Engineering, Pharmaceutical Sciences and related Basic Sciences, Management studies and related topics.

- A Certificate Course in Practice of Chemical Technology is fully run and supported by UAA specially for the third year undergraduate students with an objective of career guidance and enhancing the knowledge on the practical aspects
- The Postgraduate Diploma Course in Chemical Technology Management (CTM) for the Ph.D. students in ICT is also supported by UAA.

3. Organizing Institution level events :

- Technology Day and UAA foundation day event where UAA Distinguished Alumnus awards are given to alumni for their contributions to entrepreneurship and professional development. In addition, UAA Young achiever award is also given to alumni below the age of 35 years for their exceptional professional achievements
- UAA Annual Day celebrations where UAA Distinguished Alumnus awards are given in the category of Academics, Research and extra mural
- UAA also assists in organization of ICT Foundation and Annual day

4. Managing the Alumni Network : Managing the database of all alumni

- Managing the database of all alumni
- Increasing UAA Membership Maintaining UAA Website
- Issuing UAA bulletins.

5. UAA Chapters

UAA has local chapters in the country at Ahmedabad, Ankleshwar, Delhi NCR region, Hyderabad, Kolhapur, Marathwada, Pune, Tarapur and Vapi as well as abroad in China, UK, USA (Atlanta, Houston and Bay area), Singapore, and Thailand

CULTURE OF ENDOWMENTS

The ICT has sanctioned positions of 108 faculty (29 Professors, 38 Associate Professors and 41 Assistant Professors) and a support staff of 240. The ICT has a tradition of establishment of endowments with an objective of supporting faculty positions, foreign travel assistance, merit-cum-means scholarships, staff welfare, library, campus development, research fellowships and seed money for research by young faculty. There are 90 endowments in the Institute. All these endowments have been established through generous donations by alumni, industries, philanthropists and well-wishers. Only part of the interest (up to 50-70%) is used towards the purpose of the endowment and the remaining is ploughed back into the corpus allowing it to grow with time.

FACULTY ENDOWMENTS

1. R.T. Mody Professor of Chemical Technology and Director (1933)
2. Sir Dorabji Tata Reader in Pharmaceutical Chemistry (1943)
3. Singhanee Reader in Chemical Engineering (1936)
4. Singhanee Lecturer in Chemical Engineering (1936)
5. Singhanee Lecturer in Pharmacy (1943)
6. Singhanee Lecturer in Paint Technology (1946)
7. Singhanee Associate Lecturer in Chemical Engineering (1936)
8. Singhanee Associate Lecturer in Food Technology (1945)
9. Sir Homi Mehta Reader in Oil Technology (1943)
10. Sir Homi Mehta Associate Lecturer in Food Technology (1943)
11. Darbari Seth Professor of Inorganic Chemical Technology (1995)
12. BPCL Professor of Chemical Engineering (2001) Changed to Bharat Petroleum Distinguished Professor of Chemical Engineering
13. V.V. Mariwala Chair in Chemical Engineering (2004)
14. J.G. Kane Chair of Oil Technology (2008)
15. M.M.Sharma Distinguished Professor of Chemical Engineering (2009)
16. Narotam Sekhsaria Distinguished Professor of Chemical Engineering (2009)
17. R.A. Mashelkar Chair of Chemical Engineering (2009)
18. K.V.Mariwala-J.B. Joshi Chair of Chemical Engineering (2009)

19. Gunavati Kapoor Chair in Pharmaceutical Technology (2009)
20. Dr. John Kapoor lecturer in Pharmaceutical Technology (2010)
21. RCF Professor of Chemical Engineering (2012)
22. Dr. B. P. Godrej Distinguished Professor of Green Chemistry and Sustainability Engineering (2015)

VISITING PROFESSORS/FELLOWS/LECTURERS/ORATIONS ENDOWMENTS

There are 51 endowments which have helped us immensely in attracting the best professionals to the Institute from all over the world who have interacted with UG and PG students, faculty and alumni. the honoraria range from Rs. 5000 to 1.25 lakhs for a period of one day to 15 days. Some eminent faculty from institutes such as MIT, Purdue, Cambridge, Monash, UC Berkeley, UCSB, Montreal have taught UG and PG courses in ICT under these endowments. These lectures form part of audit courses for research students. Besides this public lectures are organized under each endowment. All departments have been benefitted and the list is as follows:

1. GENERAL

1. Professor B.D. Tilak Distinguished Lectureship
2. Professor B.D. Tilak Visiting Fellowships.
3. Golden Jubilee Visiting Fellowships.
4. "Late Dr. Balwant S. Joshi Distinguished Visiting Professor/ Indian Scientist in Chemical Engineering / Chemical Technology / Applied Chemistry"
5. Shri. B. S. Rajpurohit Visiting Faculty and Oration
6. Shri D. M. Trivedi Lecture in Green Chemistry and Technology
7. Late Professor W. B. Achwal Oration
8. "Late Dr. Balwant S. Joshi Lectureship in Organic Chemistry (including chemistry of Natural Products)/ Bio-organic Chemistry/Biotechnology" - A Technologist responsible for the development of Indian Chemical Industry.

2. DEPARTMENT OF CHEMICAL ENGINEERING

9. Dr. G.P. Kane Visiting Professorship in Chemical Engineering.
10. The Dow Professor M.M. Sharma Distinguished Visiting Professorship in Chemical Engineering.
11. Shri V.V. Mariwala Visiting Professorship in Chemical Engineering
12. Shri G.M. (alias Dada) Abhyankar Memorial Distinguished Fellowship in Chemical Engineering
13. Professor R.A. Rajadhyaksha Memorial Lecture series.
14. ShrimatiKusumben and Shri Mathradas Kothari Visiting Professorship in Chemical Engineering
15. K. J. Somaiya Visiting Professor of Chemical Engineering
16. Professor Arun S. Mujumdar Visiting Fellowship

3. DEPARTMENT OF SPECIALITY CHEMICAL TECHNOLOGY

17. K.H. Kabbur Memorial Silver Jubilee Lectureship.
18. Professor K. Venkatraman Lectureship.
19. Pidilite Industries Ltd. Visiting fellow in Dyestuff Science & Technology.
20. Dr. KKG Menon Memorial Lecture
21. Sauradip Chemical Industries Pvt. Ltd. Visiting Fellow in the areas of Dyestuff Technology and Textiles Processing Technology"

4. DEPARTMENT OF FIBRES AND TEXTILE PROCESSING TECHNOLOGY

22. Professor G.M. Nabar Endowment Lectureship.
23. L.N. Chemicals ICT Diamond Jubilee Visiting Fellow
24. Class of 1966 Visiting Fellowship.
25. Sauradip Chemical Industries Pvt. Ltd. Visiting Fellow in the areas of Dyestuff Technology and Textiles Processing Technology"
26. Professor M. D. Teli Endowment for Oration and welfare of Students/Support Staff

5. DEPARTMENT OF FOOD ENGINEERING AND TECHNOLOGY

27. Professor A. Sreenivasan Felicitation Lectureship.
28. Marico Industries Visiting Fellowship
29. ICT - Lupin Visiting Fellowship for Bioprocess Technology

6. DEPARTMENT OF OILS, OLEOCHEMICALS AND SURFACTANTS TECHNOLOGY.

30. Professor J.G. Kane Visiting Professorship in Chemical Technology
31. Professor J.G. Kane Memorial Lectureship

7. DEPARTMENT OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY

32. CIPLA Distinguished Visiting Fellowship in Pharmaceutical Sciences
33. Themis Medicare - ICT Diamond Jubilee Distinguished Fellowship in Pharmaceutical Sciences
34. Professor (Mrs.) Malati R. Baichwal Visiting Fellowship in Pharmaceutical Science and Technology
35. AAIPS- Dr. R. S. Baichwal Pharmaceutical Seminar
36. Dr. S.K. Pradhan Endowment
37. Professor V.M. Kulkarni Endowment Fund in Pharmaceutical Science and Technology

8. DEPARTMENT OF POLYMER ENGINEERING AND TECHNOLOGY AND DEPARTMENT OF SURFACE COATING TECHNOLOGY

38. Shri K. S. S. Raghavan - Chemical Weekly Visiting Professorship in Polymer Science and Technology
39. Indian Plastics Institute (IPI)-ICT Diamond Jubilee Visiting Fellowship in Polymer Processing
40. ChemimpexRastogi-ICT Diamond Jubilee Visiting Fellowship in Surface Coatings.
41. Synpol-ICT Diamond Jubilee Distinguished Visiting Fellow in Science & Technology of Pigment
42. Tipco-ICT Diamond Jubilee Distinguished Visiting Fellow in Thermosets
43. Jayvee Organics & Polymers(P)Ltd. Visiting Fellowship in Polymer Additives and Compounding
44. Shri. Parmanand F. Parikh Endowment
45. Shri B.S. Rajpurohit Visiting Professorship in Polymer Science and Technology
46. Sauradip Chemical Industries Pvt. Ltd. Visiting Fellowship

9. DEPARTMENT OF CHEMISTRY

47. Dai-Ichi Karkaria Ltd. Visiting Fellowship
48. The DharamsiMorarji Chemical Co. Visiting Fellowship in Chemistry
49. The (Late) Shri. G.D.Gokhale Endowment Lectureship
50. Spinco-Biotech - Ramanathan Lectureship

10. DEPARTMENT OF PHYSICS

51. Dr. Mooljibhai Shivabhai Patel Trust Visiting Fellowship in Polymer Physics

MERIT CUM MEANS FIANANCIAL ASSISTANCESHIPS FOR UG STUDENTS FROM ICT-MUMBAI CAMPUS AND INTEGRATED M.Tech. STUDENTS FROM ICT- IOC ODISHA CAMPUS AT BHUBNESWAR AS WELL AS MARATHWADA JALNA CAMPUS FOR THE YEAR 2023-2024

The ICT supports 251 students under merit-cum-means financial assistanceships. the range is Rs. 3000/- to Rs. 1,00,000/ per annum per person through several endowments, private trust and annual commitments by alumni. All economically deprived students are given assistance in the form of tuition fees, hostel fees, mess bills and travel assistance to present papers in national conferences. the names of various Merit-cum-Means Assistanceships are given below.

I. GENERAL SCHOLARSHIPS

1. M. S. Patel Trust Merit-cum-Means Scholarship (Four) (Value of Rs. 5,000/- each.)
2. Smt. BadamideviChiranjilalMurarka Charity Trust Merit-cum-Means Scholarship (One) (Value of Rs. 3,600/-)

3. Sohrab Mistry Merit-cum-Means Scholarship (One) (Value of Rs. 5,000/- each.)
4. Perin&Jal Khan Merit-cum-Means Scholarship (Three) (Value of Rs. 3,600/- each.)
5. Smt. ParvathySitaram Merit-cum-Means Scholarship (One) (Rs. 5,000/- each.)
6. Druman M. Trivedi Merit-cum-Means Scholarship (Two) (Value of Rs. 3,600/- each.)
7. S.L. Venkiteswaran Merit-cum-Means Scholarship (Two) (Value of Rs. 5,000/-each)
8. Late Dr. (Mrs.) MahalaxmiBhagwat Merit-cum-Means Scholarship (One) (Value of Rs. 3,600/-)
9. Prof. A.N. Kothare Scholarship (Two) (only for first year, HSC Mumbai Board preferred) (Value of Rs. 5,000/- each).
10. Rukmani and Nagraj Rao Memorial Merit-Cum-Means Scholarship (One) (Value of Rs. 4,000/-)
11. Dr. D.D. Haldavnekar Merit-Cum-Means Scholarship (Five) (Value of Rs.1800/- each.)
12. Smt. Kamala Sankhe Scholarship for girl student (Four) (Value of Rs. 10,000/- each.)
13. Smt. AnuradhaDeshmukh memorial scholarship (Two) (Value of Rs. 7000/- each.) (One Chem. Engg., One B.Tech., Girl mostly from hostel)
14. RamnathHolkar Merit cum Means Scholarship AND YashvantHolkar Merit cum Means Scholarship(Two) (Value of Rs. 10,000/- each.) (One Chem. Engg., One B.Tech.)
 1. RamnathHolkar Merit cum Means Scholarship:
 2. YashvantHolkar Merit cum Means Scholarship:
15. Dr. M. G. Palekar Merit cum Means Scholarship (One) (Value of Rs. 20,000/-)
16. UDCT- Alumni Ass-USA (Chap - 2) Scholarship (Forty Nine) (Value of Rs. 25,000/- each)

II. DEPARTMENT OF DEPARTMENT OF OILS, OLEOCHEMICALS ANDSURFACTANTS TECHNOLOGY, DEPARTMENT OF FOOD ENGINEERING AND TECHNOLOGY AND DEPARTMENT OF POLYMER AND SURFACE ENGINEERING

1. Fine Organic Industries Merit-cum-Means Scholarship (Three) (Rs.4500/-each) amount to be decided each year. For the dept. of oil, food and polymer.
2. Kamani Oils Merit-Cum Means Scholarship (two) (Value of Rs. 25,000/- each) (for student from Final Year B.Tech.(Oils) and Final Year B. Tech. (Foods)

III. DEPARTMENT OF CHEMICAL ENGINEERING

1. Gogri Brothers Scholarship (Four) (value of Rs. 3,000/- each.)
2. HemrajLaljiMeishry Scholarship (Two) (Value of Rs. 3,000/- each)
3. Dr. NandkumarKochar& Raj Kumar Kochar Trust Scholarship (Two)(Value of Rs. 1,000/- each.)(one from S.Y. and one from T.Y. ChemEngg.)
4. PurbhudasJeevandas Mint Road Wadi Trust Scholarship (Four) (Rs. 3,500/- each)
5. Y. T. Shah Merit-cum-Means Scholarship (One) (Value of Rs. 2,000/-)
6. Vaishnomal Malhotra - K.K. Malhotra Merit-cum-Means Scholarships (Two) (Value of Rs. 7,500/- each)
7. Head Master Muthuswami Merit-cum-Means Scholarship (One) (Value of Rs. 1850/-)
8. Rajendra G. Sardesai Scholarship (Four) (Value of Rs. 20,000/- each)
9. B. Chem. Engg Class of 1962 (Six) (Rs. 5,000/- each)
10. AndanallurSrinivasaVenkatesan&Ranganayaki Scholarship (One) (Rs.3,000/-)
11. Daisy NavarozeBaria Scholarship (One) (Rs. 1,000/-)
12. Dr. Surendra R. Gupta Endowment fund and Merit Cum Means Scholarship
13. Sarojben and Pratapray Shah Memorial Scholarship (Six) (Value of Rs.75,000/- p.a. each)
14. Shri KantilalAjmera Merit cum Means Scholarship (one) (Value of Rs. 5,000/- p.a.) (Only for one UG student of Chem. Engg.)
15. UDCT B. Chem. Engg. Batch 1992 (One) (Rs. 75,000/-)
16. 1978 B. Chem. Engg. batch scholarship (a) 2 x 45,000/- each to Final year Chemical Engineering student passing out from Third year who is in top 10 ranks and also financially poor (by Mr. S. Kulkarni)
17. Prasad and PoojaMutalik Merit cum Means Scholarship for Chemical Engineering Students (Two) (Value of Rs. 5,000/- p.a.)
18. 1975 B. Chem. Engg. Batch Scholarship Fund (No. of Students 7) (Value of Rs. 5,000/- p.a.)

19. "Scholarship from anonymous alumni from the 1978 B. Chem. Engg. batch" (by Mr. Gautam Shahani) (One) (Value of Rs. 75,000 p.a.) (Only for one needy UG student of Chem. Engg.)
20. Ganapati Ram Scholarship Fund from 1994 Chem. Engg. Batch (One) (Value of Rs. 70,000/-)

IV. LOAN SCHOLARSHIPS

- B. Chem. Engg. Class of 1982 (Two) (Value of Rs. 50,000/- each.) (Only one candidate is applied for the Loan scholarship)

V. DEPARTMENT OF OILS, OLEOCHEMICALS AND SURFACTANTS TECHNOLOGY

1. Castrol Merit-cum-Means Scholarship (Two) (Value of Rs. 4,500/- each)
2. G.M. Alias Abhyankar Merit-cum-Means Scholarship (Three) (Rs.4,000/-each)
3. Shri KeshaoBapurao Kulkarni Scholarship (for one UG student of Dept. of Oils) (Rs. 7500/-)
4. Professor D. R. Rebello Endowment Scholarship (One UG student from Oils Dept. only) (Rs. 5,000 /-)

VI. DEPARTMENT OF FIBRES AND TEXTILE PROCESSING TECHNOLOGY

1. Perin&Jal Khan Merit-cum-Means Scholarship (Two) (Value of Rs. 4,000/- each).
2. Mr. Dinshah B. Katrak& Mrs. Goolcheher D. Katrak Merit-cum- Means Scholarship (One) (Value of Rs. 2,000/-)

VII. DEPARTMENT OF FOOD ENGINEERING AND TECHNOLOGY

1. "Professor P.J. Dubash Memorial – AFST (I), Mumbai Chapter Endowment Scholarships" (One) (Value of Rs. 20,000/-) for UG B.Tech. student in FET (Food Engineering and Technology Department).

VIII. DEPARTMENT OF POLYMER AND SURFACE ENGINEERING

1. Kumar R. Basu Memorial Merit-cum-Means Scholarship (Two) (Rs. 3,500/- each) (only PPV)
2. Synpol Memorial Scholarship (Five) (Rs. 3,500/- each.)
3. "Ms. Swati BalwantBhagwat Merit-cum-means Scholarship" for ONE girl student who has passed first year B. Tech. examination in Dept. of Polymer and Surface Engineering and Technology (Rs. 5000/-)

IX. DEPARTMENT OF SPECIALITY CHEMICALS TECHNOLOGY

1. Colour Chem. Ltd. Merit-cum-Means Scholarship (One) (Value of Rs. 3,600/-)
2. Dr. Kishore Manilal Shah Endowment Merit cum Means Scholarship in Dyestuff Technology (for one UG student from First to Final Year) (Value of Rs. 4000/-)

X. DEPARTMENT OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY

1. Dr. Krishna S. Manudhane Merit-Cum-Means Scholarship (One) (Rs.1,800/- each)
2. Dr. R.K. Dhote Charitable Trust Merit-Cum-Means Scholarship (Four) (Rs. 3,600/- each.)
3. Dr. Dhiren and Kailas Thakker Endowment Scholarship (Six) (Rs.11,000/-each.) (only for student from First to Final year B. Pharm. and B.Tech. (Pharma))

XI. GENERAL SCHOLARSHIPS ON YEAR TO YEAR BASIS

1. GunvatiJaganNath Kapoor Merit Cum Means Scholarship (11) (Value of Rs. 45,000/- each) from I, II, III, & IV year B.Tech. (Pharma), B.Tech. (Other Branches), B. Pharm and B. Chem. Engg.
B. Pharm. Pharmaceutical Sciences and Technology
B.Tech. Other Branches
B. Chem. Engg.
2. Mr. RajenMariwala Merit-Cum-Means Scholarship (One) (Value of Rs. 8,000/-)
3. Ambuja Cement Merit-Cum-Means scholarship (Fifteen) (Rs. 10,000/- each).
4. Sandra Shroff Merit-Cum-Means Scholarship (Ten) (Value of Rs.20,000/- each.)
5. "Dr. PurushottamJanardanKangle Merit-cum-means Scholarship" for SEVEN students from B.Tech. (Textile) and B.Tech. (Dyesstuff) (Rs. 3000/- each.)

XII. SCHOLARSHIPS AWARDED DIRECTLY BY THE OUTSIDE TRUST

1. Excellence Award of Rs. 1,00,000/- and Certificate of Merit under the Narotam Sekhsaria Foundation (NSF) Scholarship Programme for Undergraduate studies in Engineering Rs. 50,000/-
2. Vishwanath Dore Scholarship (C/o ASRA Scholarship) (One) (Value decided by trust)
3. Arvind Memorial Scholarship (ASRA) (one) (only for F.Y. Chem. Engg. Student who have scored highest marks in chemistry at HSC examination) (Value decided by trust)
4. ISCMA Merit Cum Means Scholarship
 - i) Dyes – 1st, 2nd, 3rd and 4th year – One student each, from 1st, 2nd, 3rd and 4th year total – 4 students (Rs. 5,000/- cash + certificate)
 - ii) Oils – 1st, 2nd, 3rd and 4th year – One student each, from 1st, 2nd, 3rd and 4th year total – 4 students (Rs. 5,000/- cash + certificate)
 - iii) Textile – 1st, 2nd, 3rd and 4th year – One student each, from 1st, 2nd, 3rd and 4th year total – 4 students (Rs. 5,000/- cash + certificate)
 - iv) Surface coatings – 1st, 2nd, 3rd and 4th year – One student each, from 1st, 2nd, 3rd and 4th year total – 4 students (Rs. 5,000/- cash + certificate)
 - v) Polymer – 1st, 2nd, 3rd and 4th year – One student each, from 1st, 2nd, 3rd and 4th year total – 4 students (Rs. 5,000/- cash + certificate)
 - vi) Food – 1st, 2nd, 3rd and 4th year – One student each, from 1st, 2nd, 3rd and 4th year total – 4 students (Rs. 5,000/- cash + certificate)
 - vii) Pharma – 1st, 2nd, 3rd and 4th year – One student each, from 1st, 2nd, 3rd and 4th year total – 4 students (Rs. 5,000/- cash + certificate)
 - viii) B. Pharm. – 1st, 2nd, 3rd and 4th year – One student each, from 1st, 2nd, 3rd and 4th year total – 4 students (Rs. 5,000/- cash + certificate)
 - ix) Chem. Engg. – 1st, 2nd, 3rd and 4th year – One student each, from 1st, 2nd, 3rd and 4th year total – 4 students (Rs. 5,000/- cash + certificate)
5. Engineers India Ltd. Scholarship One Rs. 36,000/p. a.

CENTRAL PLACEMENT CELL (ICT MUMBAI)

There is no chemical and allied industry in the country that does not employ graduates of the ICT. Alumni are at the helm of affairs of large number of renowned chemical industries. A placement cell is launched with the participation of the UDCT Alumni Association (UAA) to assist campus placement which begins in the month of July, and continues throughout the year, before the students graduate. The Institute's graduates are highly-sought after by the Indian and global chemical industry and their salaries rank among one of the competitive in the country, even dwarfing the salaries of graduates of the premier branded institutes; placements achieved via campus interviews fetch emoluments ranging from Rs. 4.50 to Rs 18.00 lakhs per annum. What is most striking is that these placements are in hard-core industries relevant to the students training and education, and not in the software industry, which has been a major source for employment for graduates of some of the best institutes in India. With regards to post-graduate research opportunities, a good number of our students are offered admission by some of the world's best universities to pursue post graduate studies. The Institute is one of the few institutions in Asia that is regularly represented in the graduate student bodies of prestigious institutes such as the Massachusetts Institute of Technology, Stanford University, University of California, Berkeley, Caltech, UCSB, Princeton, University of Michigan, Ann Arbor, University of Texas, Carnegie Mellon University, Purdue University, University of Massachusetts, Cambridge University, Imperial College, Manchester University, University of Twente, Monash University, to name a few. All of them receive full financial support. Several universities write to us to recommend good students. Leading foreign universities have signed MOUs for student exchange through proper support for the exchange. This would not have been without the merit of the students, and reputation of faculty and institute. On an average, about 75 students from various degree programmes get such fellowships. Quite a few Ph.D. holders go abroad for post- doctoral studies in reputed institutes; this is directly linked to the quality of research produced and

personal standing of the faculty in international community.

Institute has very active Training and Placement Cell which was started under the guidance of Vice Chancellor, Prof. G. D. Yadav in 2010 to organize all the placement and training activities at a central place. It is supported by UAA (UDCT Alumni Association). Prof. Anant Kapdi (Department of Chemistry) is Central Placement coordinator who is assisted by faculty coordinators and student coordinators from each Department. Placement at ICT is a regular year- long activity. Companies from various fields evinced

Our students have been placed in some of the following companies :





interest in recruiting students from ICT at both, bachelor's and master's levels. ICT has always been a favorite hunting ground for corporates wishing to hire bright young engineers and technologists.

- Dr. Anant Kapdi (*FRSC, FMASc, AVH Fellow*)

Central Placement Coordinator, (ICT Mumbai, ICT - *IOCB*, and ICT - *MARJ*)

Former Founding Deputy Director (ICTM-IOCB)

UGC-FRP

Assistant Professor - Department of Chemistry,

email: ar.kapdi@ictmumbai.edu.in (official)

INDUSTRIAL INTERNSHIP:

ICT Mumbai Campus

All 3rd year UG students of B. Chem. Engg., B. Tech. and B. Pharm. undergo 6 weeks in-plant industrial training in various industries. In the academic year 2018-2019, they were placed in about 120 different industries.

All masters students of M.Tech., M.E. and M.Sc. (Science) undergo Industrial internship from two-six months. In the academic year 2019-20, masters students were placed in about 100 different industries for industrial internship programme.

HIGHER STUDIES:

Many of ICT bachelor students also prefer to go for higher studies outside and almost all the students get fellowship for higher studies.

Some of the Universities where ICT students have got admission are as follows:





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 (2022):

Engineering: 18, Pharmacy: 7

Elite Status and Centre of Excellence Govt. of Maharashtra

Category I Institute (MHRD/UGC),

State Funded Public Institute

QS Asia University Rankings | 2022: 183

NIRF (2022) Universities: 14; Overall: 28 Research: 25

with campuses at :

MUMBAI

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

IOC, BHUBANESWAR

ICTM-IOCB 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: <https://www.ictmumbai.edu.in>



GOVERNMENT OF
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RECOGNISED BY
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ALL INDIA COUNCIL
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ACCREDITATION
COUNCIL