



Prof. Uday Annapure
Director, ICT Jalna



मार्गजल

Streamlining minds

Volume 5 | Issue 1 | (November 2022-April 2023)

Academic Year 2022-23

MARJ Newsletter



Prof. Aniruddha Pandit
Vice Chancellor, ICT



Institute of Chemical Technology Mumbai Marathwada Campus Jalna



Contents

- 10 Academic Endeavours
- 23 Socio-Cultural Activity
- 30 Student Corner

Editor in Chief: **Dr Kapil Sagrolkar**

Student Editors:
Sarang Shindalkar,
Sarika Kulkarni, Sharjil Khan,
Dev Patra, Vidhi Biyani &
Vaidarbhi Budhe

| | | | |
|---|--|--|--|
| Ayush Deore PhD in Chemical Engineering | Ali Asger PhD in Chemical Engineering | Farhan Shaikh PhD in Chemical Engineering | Harsh Darji PhD in Chemical Engineering |
| Krutarth Pandit PhD in Chemical Engineering | Parth Khandagale PhD in Chemical Engineering | Siddhant Unde MSc management (MM) | Urvi Parlikar PhD in Biosystem Engineering |
| | | Vishnu Pradeep Masters in Management Science and Engineering | |



▼ Foundation Day



▼ URJA Sports





From Director's Desk



8 students of first batch of Integrated M Tech (2018) is about complete their course and before leaving the campus they have got selected at renowned Euro-American Universities/Institutes for doctoral studies. Apart from them, other students from this batch who have decided to do job have got the job offers before their final exam. This is the statement and indelible mark we as ICT MARJ would like to make. Let me boldly say that this is just the beginning and you will see many more such feathers in our cap.



Hello Readers,

Marathwada Campus of Institute of Chemical Technology, Mumbai has completed five years of its establishment on 4th of May 2023 and I am very proud to be holding ICT MARJ flagship.

8 students of first batch of Integrated M Tech (2018) is about to complete their course and before leaving the campus they have got selected at renowned Euro-American Universities/Institutes for doctoral studies. Apart from them, other students from this batch who have decided to do job have got the job offers before their final exam. This is the statement and indelible mark we as ICT MARJ would like to make. Let me boldly say that this is just the beginning and you will see many more such feathers in our cap.

Publication of research in high rated journals has become a habit for our faculty and research scholars. The noteworthy part here is that even M Tech and Integrated M Tech students are getting habitual of such research oriented mentality and started publishing their research in reputed journals. As a result, in this trimester over 70 articles were published by ICT MARJ fraternity which itself is a statement.

We have organized several conferences, talks and seminars such as- second international conference on Nanomaterials and Sustainable Applications (NANO-SA-2023)

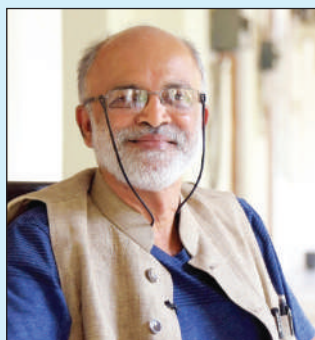
from 10 to 11 January 2023. We have hosted Vigyan Bharti State Level Camp on 21 January 2023 on its premises. It was organized by Vidyarthi Vigyan Manthan 2022-23, an initiative of Vigyan Bharati and Vigyan Prasar. We have also organized talks such as- Mr Amol Kawade's talk on "GRE/TOEFL General Test", a talk on "Give Your Personality a Lift" by Mr Atul Shah, Ms Bineesha Payapatti's talk on "Chemistry of Waste Management", Ms Savita Satpute's talk on "Exploring the Benefits of Meditation and Personal Development", and a virtual talk on "Recent Trends in Thermal Analysis of Materials". Two-week Induction cum Orientation program, psychometric evaluation, and Industrial Visits to the four industries in the Jalna vicinity was arranged for the new entrants of Integrated M Tech batch of 2023.

I would like to conclude this message with a good news that the compound wall marking and construction has already started and the architect has also been finalized. I really thank Maharashtra Government and Hon. Raosaheb ji Danve Patil and Hon. Minister Shri Chandrakant Dada Patil for their efforts and help for the same.

Thank you and Happy Reading!

Prof (Dr) Uday Annapure
ICT MARJ Director

Encouragement from the Vice Chancellor



I am happy to tell you that the compound wall marking and construction has already started and the architect has also been finalized. Maharashtra State Government and especially Hon. Raosaheb Danve - Patil and Hon. Minister Shri Chandrakant Dada Patil, have promised all the necessary help in time/resources/permission to make the new premises ready in the shortest possible time.



Dear my colleagues from MARJ,

I am very happy to note the continued march of ICT- MARJ with firm footings. The first batch is coming out in a months' time and my compliments to you all for the stellar performance. Getting 8-9 students admitted to the top ranking Universities from the USA is an international recognition of the tremendous efforts, which you all have put in to train the students.

Getting international recognition of such a type for the first batch is indeed creditable and has no parallel.

I am happy to tell you that the compound wall marking and construction has already started and the architect has also been finalized. Maharashtra State Government and especially Hon. Raosaheb Danve - Patil and Hon. Minister Shri Chandrakant Dada Patil, have promised all the necessary help in time/resources/permission to make the new premises ready in the shortest possible time.

I am happy to note that, along with the academic activities, the other co-curricular and extra-curricular activities are also receiving attention to the required extent. Along with an excellent publications record, many new projects have been received with funding.

I am happy to see, various seminars, expert talks, celebration of various national days are being

celebrated with equal vigour. One more activity, which requires compliments is the local publicity undertaken by the ICT- MARJ to elaborate the standing and capabilities of ICT-MARJ to local colleges and industries. This has also started generating some revenue with the various sophisticated analytical instruments installed at your premises and putting these to use for local industry.

The placement activity has also picked up in the last couple of months with the efforts of you all and also with the able assistance of ICT- Placement Cell. I am sure, you will continue to do your level best to place all the students as and when they graduate.

Thanking you all, for aligning ICT- MARJ, with ICT's USP and expecting your continued co-operation. We need to work in a similar way to implement NEP 2020 from 2023-2024 batch.

Acknowledging the continued involvement of the Alumni and the advisors for their constructive contribution.

With Warm Regards,

Professor A. B. Pandit
Vice Chancellor
ICT Mumbai

■ Celebration of Foundation Day (04 May 2023)



Institute of chemical technology Mumbai Marathwada Off Campus Jalna having completed five fruitful years, celebrated the Fifth Foundation Day on 04 May 2023. The programme commenced in the auditorium with lamp lighting, Rajya Geet and Vidyapeeth Geet and followed by a welcome address by the Deputy Director of ICT MARJ Dr Parag Nemade. Dr Nemade briefed on the wide variety of activities, both online and offline, conducted by the institute within this span of time. He expressed how the MARJ stands out with a vision, vigour and value of a new kind. He also talked about the different add-on programmes conducted in each semester, which is capable of enhancing the students' career-capability and making them aware of the current and evolving trends in their subjects. The welcome address was followed by the Foundation Day speech by ICT Vice Chancellor Prof. (Dr) A. B. Pandit. In his speech he talked about how good ICT MARJ is doing and what other improvements are expected in future.

Followed by the certificate distribution for those who performed excellent in studies and extracurricular activities. Prof. Smita Lele Merit Award is given to the student who scores the highest marks in first trimester of Integrated M Tech in chemical engineering and Vedavalli Vaidyanathan Girl Student Award is given to the girl student for her outstanding academic performance in trimester I of Integrated M Tech in Chemical Engineering and also for having a significant aptitude for creative skills such as music, dancing, etc. This year prize is distributed to the 2020 batch and the 2021 batch by chief guest of the program, Dr. C. Anandharamakrishnan. Prof. S. T. Maske, Dean off Campuses, introduced

the chief guest Dr. C Anandharamakrishnan. Dr. Anandharamakrishnan is an Indian scientist and academician, having expertise in Chemical Engineering and Food processing. He is working as Director of National Institute of Interdisciplinary Science and Technology, Trivandrum. He has been inspiring many by his accomplishments and achievements. ICT MARJ is very honoured to have him as a chief guest. Dr. Anandharamakrishnan is very noble yet very down earth person. He is living an exemplary life with hard work, persistency and determination. His entire life journey is inspirational. He shared very courageous yet beautiful chapters of his life with ICTians. How he invented artificial intestine without much biology background also how he started a small project of onion peeling machine and how it turned out a big project with crores of investment. He also shared the story of a woman named Manjula and how some skills and investment as well as guidance by him made her earn crores in a year. These real life events which seem to be impossible made audience speechless. 'Shortcuts always gives small success' this quote by him had lasting impact on the minds of the audience. He concluded by emphasizing on helping to the economy and the lifestyle of the nation.

Dr Kapil Sagrolikar was the overall coordinator and also the reason behind the smooth happening of the program. The program concluded with Prof. (Dr) R. R. Deshmukh, Registrar, ICT Mumbai proposing Vote of Thanks and with the National Anthem. After the programme refreshment is given to everyone presented on the campus.

■ Second International Conference on “Nanomaterials and Sustainable Applications (NANO-SA)-2023”



- More than 19 eminent keynote and invited national and international speakers
- Over 200 participants from India and abroad
- Graduates, Research Scholars, Faculty, and Industrial researchers from various industries were the prominent participants
- Sponsored by several chemical as well as mechanical industries

Institute of Chemical Technology, Marathwada Campus, Jalna (ICT MARJ) hosted the second international conference on “Nanomaterials and Sustainable Applications” (NANO-SA-2023) at Rama International Hotel, Ch. Sambhajinagar on 10-11 January 2023. More than 200 Graduate and Undergraduate students, Researchers, as well

as Industry Professionals from around the world attended the NANO-SA-2023 conference at Ch. Sambhajinagar.

Chief Guest Padmashri Prof. T. Pradeep, Prof. A. B. Pandit, Vice-Chancellor, ICT Mumbai, and Prof. U. S. Annapure, Director, ICT MARJ inaugurated NANO-SA-2023. Prof. Pandit welcomed all the delegate participants to and said “Research in the field of Catalysis under Materials Chemistry has witnessed an exponential growth throughout the globe and the potential of its manifestation has been observed in this 2nd NANO-SA-2023 conference. We look forward to an excellent meeting with internationally renowned scientists and hope that the congress visitors are highly benefitted by their experiences and frontier research work in advancing the areas of Catalysis, Chemical Engineering and Materials Chemistry, along with the industry partners”. Prof. Annapure addressed the gathering and felicitated the Chief guest along

with Prof. Pandit. Padmashri Prof. T. Pradeep was invited as Chief guest for this conference and he was honoured with special award for his valuable contribution in the development of cost-effective water technology. Two-Day International Conference highlights were shared by Dr Manoj B. Gawande, Convener of NANO-SA-2023, and Prof. Girish Joshi (coordinator of NANO-SA-2023) concluded the inaugural session with vote of thanks.

Other eminent personalities around the world namely, Padmashri Prof. G. D. Yadav from ICT Mumbai, Padmashri Prof. T. Pradeep from IIT Madras, Prof. Matthias Beller from Leibniz-



Institute für Katalyse, Rostock, Germany, Prof. Markus Antonietti from Max Planck Institute of Colloids and Interfaces, Germany, Prof. Burkhard König from the University of Regensburg, Regensburg, Germany gave the keynote address. Apart from this, other invited speakers like Dr. Ankush V. Biradar from CSIR-CSMCRI Bhavnagar, Prof. Akkattu T. Biju from IISc Bangalore, Prof. Biswarup Pathak from IIT Indore, Dr. Gianvito Vile from Politecnico di Milano, Italy, Dr. Jayaramulu Kolleboyina from Indian Institute of Technology Jammu, J&K, Prof. Nitin T. Patil from IISER Bhopal, Dr. Prajakta Dandekar Jain from ICT Mumbai, Prof. R. K. Sharma from University of Delhi, Delhi, Prof. Sebastian C Peter, from JNCASR, Bangalore, Prof. Manoj B. Gawande from ICT MARJ, Prof. S. T. Mhaske from ICT Mumbai, Prof. Atul V. Wankhade from VNIT, Nagpur, and Dr. Dinesh N. Sawant from CSIR-NCL, Pune also shares their thoughts on ongoing advances in the field of nanomaterials and their applications in sustainable catalysis.

This international conference NANO-SA-2023 covered the topics of various branches of science, and technology which emerged due to the investigation and exploration of advanced technology, including electronics, energy, and nano-catalysis for sustainable technological development. This conference provided a platform for researchers from across the world to communicate and share the latest developments and applications of nanomaterials in the developing and ever-expanding fields like energy conversion (Fuel cells & Hydrogen), nanocatalyzed organic transformations, carbon capture, storage, and conversion (CO₂ sequestration), environmental remediation and sustainable applications (viz. organic methodologies). This unique theme, nanomaterials for sustainable applications provided a new avenue for the researcher to design and development of nanomaterials for a sustainable future.

Along with the keynote and invited speaker sessions, Prof. Girish M. Joshi led the participants for poster presentation session in this NANO-SA-2023 conference. More than 100 posters were presented by research students as well as academic

researchers and scientists, among them 17 posters were awarded by American Chemical Society (ACS) and Royal Society of Chemistry (RSC) publications (8 and 6 awards) respectively. ICT MARJ also recognized and awarded the three best poster presentations among overall posters. The award includes certificate, cash prize, and memento as a token of love.

The valedictory ceremony was graced by the Guest of Honor Mr Sriram Narayanan, Managing Director of Endress+Hauser Group. He enlightened the researchers by his valuable thoughts and suggestions on the development of technology for industrial applications which would benefit the society. Dr. Manoj Jadhao, Co-Coordinator of NANOSA 2023, proposed the vote of thanks to conclude the NANO-SA-2023. During these two days Dr Ritika Joshi, Dr Yogesh Gat and his team managed anchoring part of this event. The ICT MARJ faculties contributed to this event, mainly Dr P. R. Nemade, Dr Somen Mondal, and Dr Sandip Bhairat. Along with this, Dr Bhaskar Sathe from Dr BAM University, Dr Ankush Biradar from CSIR-CSMCRI, Dr Atul Wankhede from VNIT, Nagpur, Dr Dinesh Sawant, CSIR-NCL Pune and Prof. Gawande's research group provided valuable support for accomplishing the NANO-SA-2023 event.

The NANO-SA-2023 event was sponsored by various industries, such as Endress+Hauser Group, Garware Hi-Tech Films Ltd. Ch. Sambhajinagar, SRJ Peety Steels Pvt. Ltd. Jalna, Kalika steel alloys Pvt. Ltd. Jalna, LabIndia Instruments Pvt Ltd. Verder Scientific Pvt. Ltd. Beejsheetal Research Pvt. Ltd. Jalna, Bhagyalaxmi Rolling Mill Pvt. Ltd. (POLAAD) Jalna, LabIndia Analytical Instruments Pvt. Ltd., Jeol India Pvt. Ltd., Thermofisher Scientific, Rath Steel and Metal Pvt. Ltd. (ICON steel), Mr. Vilas Patil, Dwell Instruments, Sanjay Techno Products Pvt. Ltd., Toshvin Analytical Pvt. Ltd., Bhogale Coatings & Paints Pvt. Ltd., Crystal surfactant & Chemicals, AdiChem Technology Pvt. Ltd., KLB Instruments Co. Pvt. Ltd, ICON Analytical, and Science and Engineering Research Board (SERB), Department of Science & Technology, Government of India.

■ Vigyan Bharati State Level Camp Region-II



Institute of Chemical Technology Marathwada Campus (ICT MARJ) hosted Vigyan Bharti State Level Camp on 21 January 2023 on its premises. It was organized by Vidyarthi Vigyan Manthan 2022-23, an initiative of Vigyan Bharati and Vigyan Prasara. It conducts examinations, and competitions at various parts of India at four stages. One of the stages is the organization of State Level Competition.

The State Level Competition in Maharashtra is held at the two places. Institute of Chemical Technology Marathwada Campus Jalna was the first (and automatic) choice to host such a Camp for the Marathwada and Vidarbha Region. It was the first choice because the accolades speak for itself. (Category I Deemed to be University (MHRD/UGC); Elite Status and Centre for Excellence, Govt. of Maharashtra; NAAC A++ CGPA 3.77/4.00; NBA accredited programmes; the State-of-the-Art Laboratories; and well qualified faculty members, research scholars, Master's students to look after everything.

124 students registered for the State Level Camp: Junior Group (Class 06-08 standard) and Senior Group (Class 09-11 standard) for Mathematics, Physics, Chemistry and Biology. The crux of the program was the conducting of the Tests,

Experiments, Practical, Examination, Evaluation and Result Declaration. Besides, the camp catered poster exhibition, scientific experiment exhibition and the fun games, virtual tour of three campuses of ICT.

The Inauguration was graced by Dr Rameshwar Naik (MBBS MD & President of Astronomical Society Parbhani), Prof (Dr) Uday Annapure (Director, ICT MARJ), Shree Shyam Baradkar, Shree Pandurang Kulkarni (Director, Rudrani Infrastructure & Sharda InfraTech Sambhaji Nagar), Dr Shyam Purushottam Baradkar (Faculty of Chemistry, Khuleshwar College Ambajogai) and Shree Subhash Patil (Electrical Engineering, Indian Navy).

The hectic but worth spending day concluded with the valedictory session slated to complete the formality to end the program and also to declare the result of the competition, exam, practical, quiz and crosswords. The chief guest for the valedictory session was Padma Shree Prof G D Yadav (former Vice Chancellor ICT), Mr Sunil Raithatha (Owner and Managing Director, Vinodrai Engineers Pvt Ltd Jalna), Mr Anil Bhalerao ((Director, Garware Still Industries, A'bad), and ICT MARJ Director Prof Uday Annapure.

■ A Week-long Celebration of International Women's Day at ICT MARJ (01-08 March 2023)



ICT MARJ celebrated International Women's Day for a week from 01 March to 08 March 2023. The purpose of celebrating Women's Day is to sensitize students to the condition and dignity of women. The celebration included various on campus competitions for the students such as Drawing Competition and Essay Competition and the winners were given a token of appreciation in the form of mementos and certificates.

Zumba and Yoga Sessions for Students (girl) and Staff (women) of ICT MARJ was also a part of this program and it was organized on 03 March 2023. Zin Megha Garudkar, International Zumba instructor (Nanded) and her team took the session. The Zumba session was the heart of

the International Women's Day celebration and it was loved by all the participants.

All the students and the staff (male and female) were treated with the screening of the movie "Nil Battey Sannata". The week-long celebration of International Women's Day at ICT MARJ was concluded with the formal celebration on the International Women's Day on 08 March 2023. The Chief guest Mrs. Komal kore (Deputy CEO, ICDS ZP, Jalna) gave an inspirational speech on women's day and also talked about issues and problems for girls in Child Marriage.

The coordination of the program by Dr Kapil Sagrolkar and Dr Nagsen Meshram was worth mentioning.

Academic Endeavour

• Padma Shri Prof. G D Yadav Visited ICT MARJ and Interacted with Students (21 January 2023)

Renowned scientist and academician Padma Shri Prof. GD Yadav, former vice chancellor of ICT Mumbai, and fellow of Royal Society of Chemistry, visited ICT Marathwada Campus on January 21, 2023. The visit was highly anticipated by the students and faculty of the campus, as Prof. Yadav was the one who designed the Integrated Masters Course and played a key role in the establishment of this campus. Prof. Yadav addressed the students and faculty in a packed auditorium and shared his experiences and insights on the importance of research and innovation in today's world. He emphasized the need for students to be curious, inquisitive, and open-minded, as these qualities are essential for success in scientific research. He also shared his thoughts on the current state of research in India and encouraged students to

pursue research in areas that are relevant to the needs of the country. He also emphasized the importance of collaboration between academic institutions and industry, and the need to bridge the gap between academia and industry.

The interactive session with Prof. Yadav was highly engaging and inspiring for the students, who were able to ask him questions and seek advice on various aspects of their academic and research journey. The visit by Prof. Yadav was a great opportunity for the students and faculty of Marathwada Campus to interact with a highly respected and accomplished academician and scientist. It was a reminder of the importance of research and innovation in today's world and the need for students to be committed and passionate about their academic pursuits.

• A Two-Week Induction cum Orientation Program for Integrated M Tech Batch of 2022-23 (22-30 November 2022)

Institute of Chemical Technology Marathwada Campus Jalna organized a two-week induction cum orientation program for the newly admitted students in the Integrated M Tech program from 22-30 November 2022. The induction program included sessions on meditation, personality development, art of living, psychometric evaluation of the new entrants, industry visits and a series of talks by the three campuses of ICT namely- ICT Mumbai, ICT MARJ and ICT Bhubaneswar campus Office bearers. The students were introduced to the ICT administration, academic life and examination evaluation and grading, the functioning of MARJ campus, hostel life at ICT MARJ and IPT. The Student Council has also interacted with the students and made them feel home. Apart from it, a couple of talks were arranged by the industrialists so that the new entrants will have an idea about what ICT teaches



them and what actually industry demands. Dr. Kapil Sagrolkar, Dr. Nagsen Meshram and Dr. Hitendra Patil were the coordinators of the program and they conducted it smoothly.

• ICT MARJ organized Virtual Talk on Recent Trends in Thermal Analysis of Materials (30 December 2022)

Institute of Chemical Technology Marathwada Campus Jalna organized a virtual talk on Recent Trends in Thermal Analysis of Materials on 30 December 2022. Dr Premchand Jain was the speaker. Dr Jain is the General Manager in Thermal Analysis division at Hitachi Hitech Japan. His talk deliberated on the what is Hitachi and its

association in thermal analysis, instrumentation, key applications of DSC/TGA and STA in polymers, pharma, metals, PCM, safety studies, rubbers etc. and also the key software functions with respect to the applications. The talk was very informative and useful for the students.

• Exploring the Benefits of Meditation and Personal Development with Ms. Savita Satpute (November 2022)

Ms Savita Satpute, the founder of Sarvaprit Counselling Center, Aurangabad, conducted a meditation and personal development session on November 22 November 2022. The session was highly informative and engaging and left a lasting impact on all the attendees. Ms Satpute started the session by introducing the benefits of meditation and its impact on physical, mental, and emotional health. She explained how meditation can help in reducing stress, improving concentration, and increasing overall well-being. She then guided the participants through a series of breathing exercises and meditation techniques that helped

them relax and focus their minds. Ms Satpute also emphasized the importance of personal development and the role of meditation in it. She shared her own experiences and insights on how meditation has helped her in her personal and professional life and encouraged the students to incorporate it into their daily routine. She stressed the need for self-awareness and self-care and how they are essential for personal growth. The session also included a discussion on the challenges faced by first-year students and how they can overcome them.

**Mr Pasha Patel
Visited ICT
MARJ on 20 April
2023 to discuss
Technology
Development for
Bamboo Products**



• ICT MARJ Students Visited the Industries in Jalna Vicinity (24-25 November 2022 and on 11 January 2023)



The first year students of I M Tech visited four different companies, in the Jalna vicinity on 24-25 November 2022. On 24 November 2022 Students were taken to two industries namely Vikram Tea Processor Private Limited and Thakurji Solvex Private Limited. Students learned about the process and manufacturing of Tea under the guidance of Mr. Vaibhav Wankhede (Executive HR), Yogesh Kale (Warehouse and Dispatch In-charge) and Sanket Wadkar (Operation Head). In Thakurji Solvex, students learned the process of manufacturing cotton seed oil and the excellent use of by-products. Also how an actual plant process takes place from raw material to finished (final) product under the guidance of General Manager.

On 25 November 2022 Students visited Vinodrai Engineers Pvt Ltd and Aprocool Aircon Pvt. Ltd. Vinodrai Engineers, a polymer product making company which manufactures moulds of water tanks, machines, etc. Students learned about



manufacturing of polymer products and how advance technology is used in this process. Aprocool Aircon Pvt Ltd manufactures condenser coils for commercial and household air conditioners. Under the guidance of their engineers who explained the process of manufacturing and assembling of coils.

Apart from it, the students of Integrated M Tech batch of 2022 & 2021 also visited the expo at Kalash Seeds.

Dr Kapil Sagrolkar, Dr Nagsen Meshram, and Dr Hitendra Patil were the In Charge of the Industry Visit whereas Dr Joyita Sarkar, Dr Saurav Raj, Dr Supriyo Mondal on 24th November and Dr Srimanta Maji on 25 November accompanied them for the visit.



• ICT MARJ along with ETS India Organized a Seminar on GRE/TOEFL General Test (17 March 2023)



ICT MARJ on 17 March 2023 organized a talk on GRE/TOEFL General Test. The guest speaker Mr Amol Kawade is a senior Business Development Manager at ETS India. ETS (Education Testing Services) develops, administers and scores more than 50 million tests annually – including the globally well-known TOEFL and GRE tests in over 180 countries worldwide.

The TOEFL and GRE exams, which are well-known internationally, are among the 50 mil-

lion examinations that ETS (Education Testing Services) yearly prepares, gives out, and scores in more than 180 nations. In today's cutthroat environment, having strong LSRW (Listening, Speaking, Reading, and Writing) abilities are essential for success. These abilities are essential for both personal and professional growth in terms of cognitive development, interpersonal communication, and enhanced understanding. They are also vital for demonstrating one's English language proficiency to study abroad and for immigration-related needs

The speaker discussed on:

- Up-to-date information of GRE/TOEFL
- Opportunity to clarify the doubts
- Also, some exciting quiz activities

The students who wanted to pursue higher education found this lecture to be of great value.

• “Give Your Personality a Lift” at Talk by Mr Atul Shah (21 March 2023)



Rotary Club of Jalna was instrumental in organizing this talk at ICT MARJ on 21 March 2023. The event aimed to help individuals improve their personality and communication skills. The guest speaker for the event was Mr

Atul Shah, CEO of GITS India, who called upon the Students to actively participate and demonstrated techniques for improving their communication and personality. Mr. Shah demonstrated various techniques and tips on how to speak confidently and persuasively in public. He emphasized the importance of nonverbal communication, such as body language and tone, and how it can influence the listener's perception. Overall, Atul Shah's speech and demonstration on personality development were highly informative and insightful. The techniques and tips he shared were practical and applicable in real-life situations, enabling participants to improve their communication and personality in both personal and professional settings. The event's success is a testament to the importance of personal development and its impact on one's life.

• Ms Bineesha Payapatti Gave a Talk on “Chemistry of Waste Management” (26 April 2023)



On the evening of 26th April 2023, ICT MARJ arranged a guest lecture on the topic “Chemistry of Waste Management” by Ms Bineesha Payapatti. Ms Payapatti is the executive director of International Institute of Waste Management (IIWM) and board member of the Technology Development Board, Ministry of Science and Technology, Government of India. The auditorium

was full of excitement as everyone was eagerly waiting for the guest of the show. Ms Payapatti emphasized on what is the role of chemical engineers in the waste management department. She began with a very easy yet hard to answer questions ‘what is waste?’, ‘What is Chemistry?’, ‘What is Chemical Engineering?’ and ‘What is the key role of Chemistry and Chemical Engineers in waste management?’ Then she moved towards different types of waste and tried to cover every type of the waste and its proper management. In her talk she dealt with the key points and different kinds of waste and how to manage them. She also discussed various projects and case studies related to it which students may take up for research.

Due to her deep yet easy to understand way of talking, the audience listened to the talk carefully. The lecture has received admiration by everyone. The lecture was ended by the vote of thanks by Dr. Kapil Sagrolikar who has also coordinated the talk.

• MoUs



Institute of Chemical Technology Marathwada Campus Jalna signed MoU with Maharashtra Agribusiness Network (MAGNET) on 28.03.2023 at Pune.

MAGNET Development Bank assisted Maharashtra Agribusiness Network (MAGNET) project being implemented for development



of Integrated Value chains in the focused horticulture crops (i.e., Pomegranate, Banana, Orange, Sweet Orange, Custard Apple, Guava, Sapota, Strawberry, Okra, Chili (Green and Red) and Flowers) in Maharashtra. The MoU between ICT MARJ and MAGNET will be fruitful and will benefit the needy.



IPT

IPT-5 BATCH 2019

| SN | Student Name | Industry / Home Project |
|----|-------------------------|---|
| 1 | Shreya Shahapure | Thakurji Solvex / Glenmark |
| 2 | Abhay Vijay Gandhi | BARC Mumbai |
| 3 | Abhinav Tidke | Suman Chemical /Polaad Steel |
| 4 | Abhishek Ighare | Lupin Ltd Goa |
| 5 | Aditya Deshpande | BARC Mumbai |
| 6 | Aditya Samdani | Suman Chemical/ Glenmark |
| 7 | Aditya Shinde | Tata Research TRDDC |
| 8 | Aditya Toshniwal | Innova Cap Tab |
| 9 | Aniket Shitole | Cynohealth Pvt Ltd |
| 10 | Aradhana Thombare | RCF Ltd Chembur |
| 11 | Arti Hajare | Laxmi Organic Industries Ltd Mahad |
| 12 | Aryan Saldhana | Valvoline Mumbai |
| 13 | Ashish Sagare | Chemdist Membrane Solutions Bhosri Pune |
| 14 | Ayush Gulhane | CSIIR LAB LUCKNOW |
| 15 | Ayush Redasni | Suman Chemical /Garware |
| 16 | Darshan Munot | Tastybite Eatables Ltd Pune |
| 17 | Mrudul Shroff | Evergreen Technologies Pvt Ltd Mumbai |
| 18 | Debasmit Ganda | IOCL Panipat |
| 19 | Devvrat Thattekar | Thakurji Solvex |
| 20 | Farooqui Md Altamash | Suman Chemical / Polaad Steels |
| 21 | Gauri Ladda | Tata Research TRDDC |
| 22 | Harsh Jaiswal | ONGC |
| 23 | Harshraj Sanjay Borude | RCF Ltd Chembur |
| 24 | Himanshu Mahesh Nagnure | Bhagyalaxmi Industries MIDC Jalgaon |
| 25 | Hrushikesh Chnadodkar | IIP Dehradun |
| 26 | Jidnyasa Chintamani | S4S Technologies Shendra |
| 27 | Saraya Nair | Fineotex Chemicals Ltd Mumbai |
| 28 | Ketaki Patil | Pharmaglance Research LLP |
| 29 | Khushal Agarwal | Sunita Hydrocolloids P Ltd Jodhpur |
| 30 | Shruti Patil | Chitale Bandhu Pune |
| 31 | Manan Modi | J B Chemicals & Pharmaceuticals |
| 32 | Vrushank Dhake | RIL Hazira / Deepak Nitrite |



| SN | Student Name | Industry / Home Project |
|----|--------------------------|---------------------------------------|
| 33 | Manthan Kulkarni | Serum Institute Pune |
| 34 | Pratik Khurpe | GAIL Ltd Alibag/ ONGC Mumbai |
| 35 | Omkar Muley | RIL Jamnagar |
| 36 | Omkar Shetye | BARC Mumbai |
| 37 | Piyusha Warade | Laxmi Organic Industries Ltd Mahad |
| 38 | Prajakta Ukhale | Laxmi Organic Industries Ltd Mahad |
| 39 | Pratham Shah | DFPCL Taloja |
| 40 | Priti Mantri | Deepak Nitrite Ltd |
| 41 | Raj Wagh | Research Project- Prof A.B.Pandit |
| 42 | Ranveersingh Suryawanshi | UPL Ltd Jhagadiya |
| 43 | Ritesh Patil | CSIR-IMTech Chandigarh |
| 44 | Rohan Thota | BARC Mumbai |
| 45 | Sakshi Tak | Tata Research TRDDC |
| 46 | Sanket Banchod | BPCL Bina MP |
| 47 | Santosh Zol | IIP Dehradun |
| 48 | Sarang Shindalkar | DIAT - DRDO -Pune |
| 49 | Sarika Kulkarni | DIAT - DRDO -Pune |
| 50 | Sarvesh Wadkar | Aurochem Pvt Ltd Palghar |
| 51 | Shreya Yeole | Gramercy Industries |
| 52 | Shrikant Khandebharad | RCF Ltd Chembur |
| 53 | Sumit Ingle | IISER Bhopal / Metaroll Jalna |
| 54 | Tanisha Patni | BARC Mumbai |
| 55 | Tejas Gadade | RCF Ltd Chembur |
| 56 | Tejas Jairange | GAIL Ltd Alibag / ONGC Mumbai |
| 57 | Unmesh Thorve | GAIL Ltd Alibag |
| 58 | Unnati Agrawal | Thakurji Solvex |
| 59 | Vaishnavi Deshmukh | Thakurji Solvex |
| 60 | Vaishnavi Patil | BARC Mumbai |
| 61 | Vaishnavi Phirke | F2F Consultancy, Andheri Mumbai |
| 62 | Amruta Dongre | Clean Chem Laboratories Navi Mumbai |
| 63 | Soham Kawale | ONGC Mumbai/ Deepak Nitrite Ltd Dahej |
| 64 | Atharva Waghmare | UPL Ltd Jhagadiya / ONGC Mumbai |



IPT-3 - Batch 2020

| SN | Student Name | Name Of Industry |
|----|----------------------|---------------------------------------|
| 1 | Abhilasha Shastri | RCF Thal Alibag |
| 2 | Aditya Desai | Abbott Labs Mumbai |
| 3 | Advait Mandlik | Indo Rama Synthetics Nagpur |
| 4 | Aiyshwaryalakshmi | Defense Insti.of Physiology New Delhi |
| 5 | Ajaz Khan | Chemvera Mumbai |
| 6 | Akhil Nair | Akzo Nobel Mumbai |
| 7 | Amrut Chavan | RCF Ltd Chembur |
| 8 | Amruta Phegade | Rupmani Chemicals MIDC Badlapur(East) |
| 9 | Ananya Sathe | Rossari Biotech Ltd |
| 10 | Atharva Nilkanth | HPCL Mumbai |
| 11 | Deep Sandikar | RB CFBP Labs Mumbai |
| 12 | Devansh Pathak | GHCL Sutrapada Dist Gir Somnath |
| 13 | Hridaay Eppaturi | GHCL Sutrapada Dist Gir Somnath |
| 14 | Jyoti Soni | ACG Capsules Shirval Pune |
| 15 | Kabir Raut | Garware Hitech Films Waluj |
| 16 | Khushwantsing Rajput | Alkyl Amines Ltd Kurkumbh |
| 17 | Km Ankita Singh | Home Project Under Dr Kundu |
| 18 | Mahesh Kshirsagar | Humanity Chemie Pharma Waluj |
| 19 | Prachi Patil | RCF Thal Alibag |
| 20 | Pranjal Ambhore | RCF Thal Alibag |
| 21 | Garima Thole | RCF Ltd Chembur |
| 21 | Pruthvi Marathe | HPCL Mumbai |
| 22 | Patil Vilas | BASF Ltd Dahej Gujarat |
| 23 | Vaishnavi Bhutekar | RCF Thal Alibag |
| 22 | Rohit Pawar | CIPLA Rasayani |
| 23 | Sanika Raut | RCF Thal Alibag |
| 24 | Satkirti Chame | RCF Thal Alibag |
| 25 | Radhika Taur | ACG Capsules Shirval Pune |
| 25 | Shaikh Rehan | RB CFBP Labs Mumbai |
| 26 | Sharjil Khan | Snackibles Mumbai |
| 27 | Vasudha Patil | RB CFBP Labs Mumbai |
| 27 | Shastri Varun | Indo Rama Synthetics Nagpur |
| 28 | Vaishnavi Gajare | IPCA Labs Waluj |
| 29 | Kaustubh Mene | Vega Chemicals Jalgaon |

**SN Student Name**

| | |
|----|---------------------|
| 28 | Shubham Ghuge |
| 29 | Sudhanshu Vyawahare |
| 30 | Varad Deshpande |
| 30 | Tejas Gorkar |
| 31 | Vasudeo Wange |
| 31 | Tejaswini Giri |
| 32 | Govind Adhe |
| 33 | Narsing Kumbhar |

Industry / Home Project

| |
|------------------------------|
| Garware Hitech Films Waluj |
| Alkyl Amines Ltd Kurkumbh |
| RB CFBP Labs Mumbai |
| Garware Hitech Films Waluj |
| RB CFBP Labs Mumbai |
| Home Project Under Dr Bari |
| Humanity Chemie Pharma Waluj |
| Humanity Chemie Pharma Waluj |

IPT-2 I M Tech Batch 2021**SN Full Name**

| | |
|----|------------------------|
| 1 | Abhay Ghule |
| 2 | Abhishek Sarang |
| 3 | Aditi Pashte |
| 4 | Aditya Bora |
| 5 | Aditya Mundhe |
| 6 | Advait Chavan |
| 7 | Anish Vaze |
| 8 | Anish Gore |
| 9 | Anushka Tonde |
| 10 | Atharva Chandrashekhar |
| 11 | Chirag Kothawale |
| 12 | Chirayu Kothawale |
| 13 | Dev Patra |
| 14 | Dhiraj Damahe |
| 15 | Garima Khotkar |
| 16 | Harshal Kumbhar |
| 17 | Jai Vengurlekar |
| 18 | Kashish Bondade |
| 19 | Mrunal Nannaware |
| 20 | Nandini Jain |
| 21 | Pratik Mali |
| 22 | Pratik Mahajan |
| 23 | Rahul Waghmare |
| 24 | Rohit Pansare |

Name of Industry

| |
|----------------------------------|
| Metalman, Waluj |
| IPCA LAB Mumbai |
| IPCA LAB MUMBAI |
| Chemdist Pune |
| Metalman Waluj |
| Chemdist Pune |
| S4S Technologies Aurangabad |
| Gangotri Engg Pune |
| Research Project under Dr Nemade |
| GSFC Vadodara |
| Metalman Waluj |
| S4S Technologies Aurangabad |
| Home Project under Dr Kundu |
| Clarion Drugs Nagpur |
| ITC Food Div Ranjangaon |
| Warna Milk Union Warnanagar |
| ACG Capsules Mumbai |
| Haldiram Nagpur |
| Research Project under Dr Nemade |
| P R Industries Lalitpur UP |
| Warna Milk Union Warnanagar |
| Haffkin Ajintha Pharma Jalgaon |
| Warna Milk Union Warnanagar |
| Icon Steel Jalna |



| SN | Full Name | Name of Industry |
|----|--------------------|------------------------------------|
| 25 | Rutuj Runwal | Suhana Masale |
| 26 | Sahil Sharma | Gharda Chemicals Dombiwali |
| 27 | Sakshi Kataruka | Radiant Ind.(Mrs Fod Rite) Shendra |
| 28 | Sania Zarkar | Aarti Pharma Mumbai |
| 29 | Sanket Maurya | Indo Rama Nagpur |
| 30 | Shatakshi Joshi | RBCFBP |
| 31 | Shikhar Gupta | Trilok Foods Satara |
| 32 | Shrawani Pangarkar | Divya SRJ Foods Jalna |
| 33 | Shreya Bhardwaj | Research Project under Dr Nemade |
| 34 | Shruti Dighe | Solvay Speciality |
| 35 | Sujal Solav | Sanjay Techno Waluj |
| 36 | Swapnil Lokare | SOLAPUR |
| 37 | Swapnil Garule | Icon Steel Jalna |
| 38 | Tanishq Prasad | Trilok Foods Satara |
| 39 | Tanmay Zade | Indo Rama Nagpur |
| 40 | Vaibhavi Kadam | RCF |
| 41 | Vasudha Patil | Solar Industries |
| 42 | Vijendra Awale | Chandrapur Ferro Alloys Chandrapur |

• IPT Annexure-

1. Unmesh Thorve is a zealous student who demonstrated his technical acumen during his tenure at Bharat Petroleum Corporation Limited. He spearheaded a project titled “Preheat Improvement in Crude Distillation Unit-3,” which aimed to optimize the crude preheat process while minimizing energy consumption. Unmesh suggested replacing traditional shell and tube heat exchangers with compact welded exchangers to improve crude preheat temperature and reduce fouling issues in a crude unit, resulting in a cost-effective solution to enhance the overall process efficiency.

2. Vasudeo Wange is a skilled and innovative third-year student at Ipca Laboratories Pharma. Vasudeo worked on a project related to filtration

of various products, including reactors such as CSTR, PFR, and batch reactors. They also focused on product separation using Nutch filter, membrane filters, and other filtration techniques, demonstrating a deep understanding of the complex technical processes involved.

3. Santosh Zol is a technically sound student who undertook two commercial projects during IPT-5 program at CSIR-Indian Institute of Petroleum, Dehradun. The first project involved simulating the distillation process used for Extra Neutral Alcohol (ENA) production using Aspen Plus and performing pinch analysis of the process using Aspen Energy Analyzer. The second project involved simulating a crude distillation unit in Aspen HYSYS and designing



a heat exchanger network for preheating crude oil through pumparounds and distillate fractions, showcasing their proficiency in process design and optimization.

4. Sharjil Khan is a highly talented Batch 2020 student who created four GT products as a project under Snackible, including Hyderabad Karam Gavallu, Corn Puffs, and Chocolate Cups, showcasing creativity and innovation in product development.

5. Amrut Chavan is a technically astute 2020 student who has worked on various technical projects, including a technical report on Automatic Solvent Transfer System (ASTS) in Ajanta Pharma Ltd, a project on Cooling Tower Operation RCF Chembur, and a home project on waste water treatment - an urgent need to society, demonstrating a comprehensive understanding of various technical domains.

6. Shrikant Khandebharad is a talented I-MTech 2019 student who focused on Urea (NH_2CONH_2) production process and analysis during his tenure at Rashtriya Chemicals and Fertilizers Ltd Chembur, Mumbai. Shrikant also governed different quality testing techniques, demonstrating a deep understanding of the complexities involved

in chemical process optimization.

7. Piyusha Warade is a diligent 2019 IMTech student who completed an internship in the Project Department at Laxmi Organic Industries Ltd Mahad. Piyusha investigated various separation methods such as distillation, LLE, melt crystallization, and reactive distillation to identify the most effective method for separating diketene from acetic anhydride and lowering its concentration below a predetermined level. Piyusha's efforts resulted in the design of a distillation column, and reactive distillation was selected as the most effective technique to keep the diketene content below predetermined levels.

8. Saurabh Tak is a driven student who demonstrated their technical prowess during their internship at Tata Steel, Jamshedpur. Saurabh worked on a project related to production enhancement, developing a model to predict the quality of final products based on different parameters. Saurabh also worked on various optimization techniques to improve the efficiency of the process, showcasing a deep understanding of process design and optimization.

EXTENSION ACTIVITY

• International Expert Talk Delivered at UCLM, Spain by Prof. Girish Joshi

Prof. Girish Joshi delivered an invited talk titled "Mechanics of Time Dependent Materials" organized by Department of Mechanical Engineering, University of Castila-La-Mancha, Spain on 13 April 2023. The talk covered a complete fundamental approach of mechanical

profile of materials, external stimuli response, optimization of target mechanical properties. UCLM student group with Prof. Teresa Cuberes and other faculties appreciated the talk. All It is also a part of MOU activity between ICT MARJ campus and UCLM Spain



ACHIEVEMENT

■ Board of studies successful Nomination of Prof. Girish Joshi at SRTMU, Nanded

Swami Ramanand Teerth Marathwada University, Nanded nominated MARJ faculty Prof. Girish Joshi as Board of Studies member for three subjects- Electronic Science, Energy and Power, Chemical Engineering and Technology. This appointment is for a period of two years and may be extendable. It is an excellent platform to share the experience in view of new national education policy-2020 modalities to this state university. The entire MARJ faculty team and Director, Prof. Uday Annapure congratulated Prof. Girish Joshi for his successful nomination as BoS member.

■ UGC-DAE project Sanctioned to Prof. Girish Joshi

Consortium of UGC-DAE-CSR sanctioned funded project on polymer Graphene composites to MARJ Prof. Girish M. Joshi. BARC experts were in collaboration of ICT MARJ would achieve the proposed objectives for worthwhile.

■ Dr Manoj Gawande awarded with the "STE Green Excellence Award 2022"

Dr Manoj Gawande has been awarded with the prestigious "STE Green Excellence Award 2022" for his exceptional contributions towards the human health and environment via substantial scientific efforts in nanocatalysis and organic synthesis. The award ceremony held in the 4th annual meet of STE and online International Conference on Environment, Water, Agriculture, Sustainability and Health (EWASH-2022): Strategizing, A Greener Future.

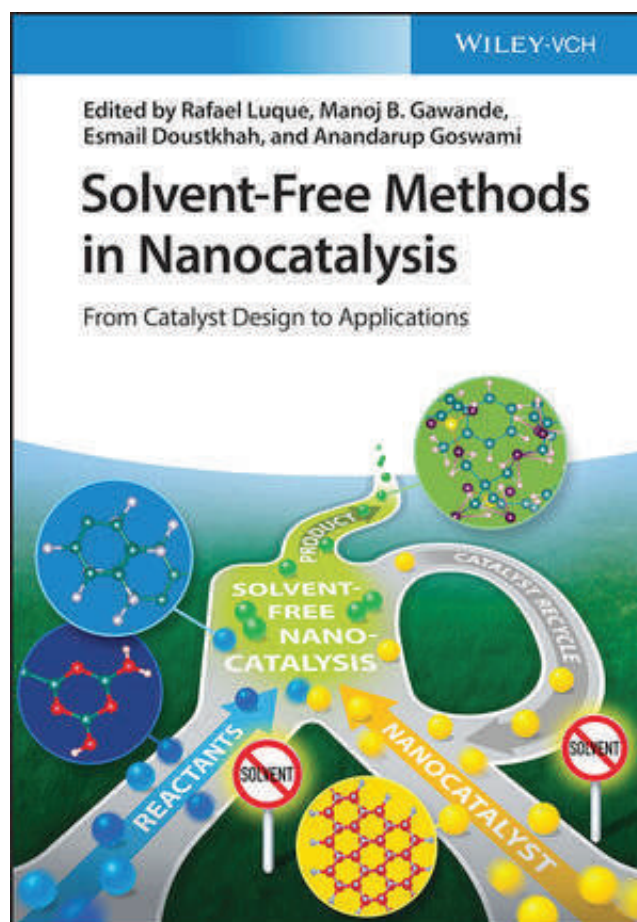


SAVE THE ENVIRONMENT (STE) is the organization that aims to spread awareness to the society about environment, health and water. It was founded and registered on 19th November 1990. STE has collaborated with various organizations in the past 29 years such as All India Institute of Hygiene & Public Health, AIIH & PH and India Canada Environment Facility, DRDO, Ministry of Defence, Department of Science and Technology (DST), Indian Institute of Management (IIM), Ahmedabad to mitigate the effects of arsenic and provide arsenic-free drinking water. The vision of the society is to protect present and future generations from various Environmental Hazards. The NGO has been actively organizing various interactive sessions such as conferences (National and International), workshops, seminars and awareness programs including poster competitions, quiz competitions, science exhibitions and webinars among the future generations.

■ **Dr Manoj Gawande published a new book entitled “Solvent-Free Methods in Nanocatalysis: From Catalyst Design to Applications” in Wiley publication**

Professor Manoj B. Gawande, has recently published a new book entitled “Solvent-Free Methods in Nanocatalysis: From Catalyst Design to Applications”. The book delves into the exciting world of nanocatalysis and explores the latest techniques and advancements in the field.

In his book, professor Dr. Gawande discusses in-depth overview of nanocatalysts and their catalytic applications using solvent-free methods. After a brief introduction, it covers various synthetic techniques for the preparation of nanocatalysts and supports using solvent-free methods, e.g. ball-milling, microwave- and plasma-assisted methods. The book discusses in detail different catalyst classes, such as metal oxides, doped and functionalized nanocarbons, as well as nitride- and silica-based materials to help researchers to understand the efficiency and nature of these catalysts/supports based on their chemical structure. (<https://www.wiley.com/enus/Solvent+Free+Methods+in+Nanocatalysis%3A+From+Catalyst+Design+to+Applications-p-9783527831463>)





PUBLICATION

■ Prof. Uday S Annapure

1. Effects of pin-to-plate atmospheric cold plasma for modification of pearl millet (*Pennisetum glaucum*) starch
P. Kaur, U. S. Annapure, *Food Research International* **2023**, 169, 112930.
2. A Review on the Journey of edible flowers from farm to consumer's plate
H. B. Jadhav, L. S. Badwaik, U. Annapure, F. Casanova, K. Alaskar, *Applied Food Research* **2023**, 3, 100312.
3. Analysing the repercussions of ultrasound on triacylglycerols in food
H. B. Jadhav, P. Gogate, U. Annapure, *Food Chemistry Advances* **2023**, 2, 100332.
4. Study of the behavior and properties of frying oil on repetitive deep frying
P. Sadawarte, U. Annapure, *Journal of Food Science and Technology* **2023**.
5. Evaluation of the sensory properties and antioxidant activity of clean rosemary extracts for an effective replacement of EDTA in Mayonnaise
P. Savani, A. Puthiyedath, R. Chandran K, S. George, P. S. Prasad, U. S. Annapure, *Applied Food Research* **2023**, 3, 100302.
6. Effect of cold plasma processing on physicochemical characteristics and thermal properties of palm oil
N. V. Niveditha, H. B. Jadhav, A. Ahlawat, R. G. T. Kalaivendan, U. S. Annapure, *Future Foods* **2023**, 7, 100231.
7. Effect of atmospheric pin-to-plate cold plasma on oat protein: Structural, chemical, and foaming characteristics
G. Eazhumalai, R. G. T. Kalaivendan, U. S. Annapure, *International Journal of Biological Macromolecules* **2023**, 242, 125103.
8. Impact of Novel Atmospheric Pin-to-Plate Cold Plasma on a Seed Galactomannan: Physical and Chemical Characteristics and Its Application in Orange Juice Stabilization
R. Gracy T K, G. Eazhumalai, U. Annapure, *Food and Bioprocess Technology* **2023**, 1-19.
9. A peleg modeling of water absorption in cold plasma-treated Chickpea (*Cicer arietinum* L.) cultivars
F.L. Pathan, A.M. Trimukhe, R. R. Deshmukh, U. S. Annapure, *Scientific Reports* **2023**, 13, 7857.
10. Impact of pin-to-plate cold plasma depolymerization on the gelation and functional attributes of guar galactomannan
R. Gracy T K, G. Eazhumalai, U. Annapure, *Journal of Food Process Engineering* **2023**, 46.
11. Factors governing consumers buying behavior concerning nutraceutical product
H. Jadhav, S. Sablani, P. Gogate, U. Annapure, F. Casanova, G. Nayik, K. Alaskar, N. Sarwar, I. Raina, S. Ramniwas, A. Khaneghah, *Food Science & Nutrition*, **2023**, 1-16.
12. Effect of amino acids on growth, elemental content, functional groups, and essential oils composition on hydroponically cultivated coriander under different conditions
Sowmya R. S., V. G. Warke, G. B. Mahajan, U. S. Annapure, *Industrial Crops and Products* **2023**, 197, 116577.
13. Impact of atmospheric pressure pin-to-plate cold plasma on the functionality of arrowroot starch
E. Devi, R. G. T. Kalaivendan, G. Eazhumalai, U. S. Annapure, *Journal of Agriculture and Food Research* **2023**, 12, 100567.
14. Sonication as a Promising Technology for the Extraction of Triacylglycerols from Fruit Seeds—A Review
H. B. Jadhav, I. Raina, P. R. Gogate, U. S.

- Annapure, F. Casanova, *Food and Bioprocess Technology* **2023**, 16, 1625-1651.
15. Rheological performance of film-forming solutions and barrier properties of films fabricated from cold plasma-treated high methoxyl apple pectin and crosslinked by Ca²⁺: Impact of plasma treatment voltage
S. Basak, U. S. Annapure, *International Journal of Biological Macromolecules* **2023**, 227, 938-951.
 16. Effect of atmospheric pressure non-thermal pin to plate cold plasma on structural and functional properties of soy protein isolate
A. Dabade, S. Kahar, A. Acharjee, P. Bhushette, U. Annapure, *Journal of Agriculture and Food Research* **2023**, 12, 100538.
 17. Application of microwave treatment for reduction of microbial load in jaggery cubes
P. Halde, S. Deotale, V. N. Pawar, U. Annapure, A. Devkate, Y. Chavan, *Journal of Food Science and Technology* **2023**, 60, 1513-1520.
 18. Soil free nutrient availability to plants
S. R. Sathyanarayan, V. G. Warke, G. B. Mahajan, U. S. Annapure, *Journal of Plant Nutrition* **2023**, 46, 801-814.
 19. Clean meat: techniques for meat production and its upcoming challenges
S. Rout, S. S. U. Annapure, *Animal biotechnology* **2021**, 33, 1-9.
 20. Isolation and Identification of *Penicillium citrinum* Strain from the Leaves of *Fragaria x ananassa* Cultivated by Nutrient Film Technique
Sowmya R. S., Warke V. G., Mahajan G. B., Satardekar M. R., Patil T. A. and Annapure U. S.*, *Acta Scientifc Microbiology* **2022**, 28-33.
 - S. S. Mane, G. M. Joshi, M. D. Shirsat, S. Kaleemulla, *Journal of Applied Polymer Science* **2023**, 140, e53691.
 2. Synthesis, Structural, FT-IR, UV-Vis. Spectroscopic, Thermal, and BET Studies of Magnesium Ion Doped Strontium Pyrophosphate Nano-Particles
P. D. Solanki, M. H. Oza, G. Joshi, H. O. Jethva, M. J. Joshi, *ECS Journal of Solid State Science and Technology* **2023**, 12, 031001.
 3. Polymer Blend Nanoarchitectonics with Exfoliated Molybdenum Disulphide/Polyvinyl Chloride/Nitrocellulose
P. S. Jadhav, S. S. Humbe, G. M. Joshi, R. R. Deshmukh, S. Kaleemulla, *Journal of Inorganic and Organometallic Polymers and Materials* **2023**, 33, 680-693.
 4. Development of solid polymer electrolytes based on poly (ethylene oxide) complexed with 2-trifluoromethyl-4, 5-dicyanoimidazole lithium salt and 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid for Li-ion batteries
A. R. Polu, P. K. Singh, P. Siva kumar, G. M. Joshi, T. Ramesh, I. M. Noor, A. Y. Madkhli, S. Kakroo, *High Performance Polymers* **2022**, 35, 4-9.
 5. Experimental investigation of activated carbon nano flakes produced by thermal and chemical activation processes
V. K. M. Katta, R. S. Dubey, G. M. Joshi, *Fullerenes, Nanotubes and Carbon Nanostructures* **2023**, 31, 10-17.
 6. Optimization analysis of Tribological behaviour Nylon 66 of polymer matrix composite by Tagguchi and RSM,
S. N. Dhole, S. K. Biradar, G. M. Joshi, *Optimization*, **2023**, 01, 55.

■ Prof. Girish Joshi

1. Development of soft polymer blend for copper ion detection by electrochemical route

■ Dr Manoj Gawande

1. Application of biowaste and nature-inspired (nano)materials in fuel cells.



- B. Jaleh, A. Nasri, M. Eslamipanah, M. Nasrollahzadeh, J. H. Advani, P. Fornasiero, Manoj B. Gawande*
- Journal of Materials Chemistry A* **2023**, DOI: <https://doi.org/10.1039/D2TA09732J>
2. Photocatalytic One-Pot Conversion of Aldehydes to Esters and Degradation of Rhodamine B Dye Using Mesoporous Graphitic Carbon Nitride
Rahul P. Gaikwad, Dhanaji R. Naikwadi, Ankush V. Biradar, and **Manoj B. Gawande***
ACS Applied Nano Materials, **2023**, DOI: [10.1021/acsanm.2c04846](https://doi.org/10.1021/acsanm.2c04846)
 3. Strategies for the Preparation of Nanocatalysts and Supports Under Solvent-Free Conditions
Rahul P. Gaikwad, Arun D. Kute, and Manoj B. Gawande*
Inbook: Solvent-Free Methods in Nanocatalysis
DOI: [10.1002/9783527831463.ch2](https://doi.org/10.1002/9783527831463.ch2), Wiley Publication, **2023**, "Book chapter"
 4. Solvent-Free Methods in Nanocatalysis: From Catalyst Design to Applications
Rafael Luque, **Manoj B. Gawande**, Esmail Doustkhah, Anandarup Goswami
Wiley Publication, **2023**, "Book"
 5. Preparation and characterization of the h-BN/Fe₃O₄/APTES-AMF/CuII 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
Pooja Rana, Ranjana Dixit, Shivani Sharma, Sriparna Dutta, Sneha Yadav, Bhavya Arora, Bhawna Kaushik, **Manoj B. Gawande**, Rakesh Kumar Sharma*
Nanoscale, **2023**, DOI: [10.1039/D2NR05852A](https://doi.org/10.1039/D2NR05852A)
 6. Interface Engineering of SRu-mC₃N₄ Heterostructures for Enhanced Electrochemical Hydrazine Oxidation Reactions
Ajay Munde, Priti Sharma, Somnath Dhawale, Ravishankar G. Kadam, Subodh Kumar, Hanumant B. Kale, Jan Filip, Radek Zboril, Bhaskar R. Sathe, ***Manoj B. Gawande***
Catalysts **2022**, 12(12), 1560
 7. Synthesis and Photocatalytic Applications of Functionalized Carbon Quantum Dots
Nisha Yadav, Rahul P. Gaikwad, Vivek Mishra,* and **Manoj B. Gawande***
Bulletin of the Chemical Society of Japan, **2022**, 95, 11, 1638-1679
 8. Insights into the catalytic potential of a rationally designed magnetic boron nitride nanosheet supported nickel catalyst for the efficient synthesis of 1,4-dihydropyridines
Pooja Rana, Ranjana Dixit, Shivani Sharma, Sriparna Dutta, Sneha Yadav, Bhavya Arora, Priyanka Yadav, Bhawna Kaushik, **Manoj B. Gawande**, Rakesh Kumar Sharma*
Reaction Chemistry & Engineering, **2022**, DOI: [10.1039/D2RE00246A](https://doi.org/10.1039/D2RE00246A)
- **Dr Sandeep Bhairat**
1. Nonexistence of global solutions for a Hilfer-Katugampola fractional differential problem
Sandeep. P. Bhairat, M. E. Samei, *Partial Differential Equations in Applied Mathematics* **2023**, 7, 100495.
- **Dr Saurav Raj**
1. A novel chaotic chimp sine cosine algorithm part-II: Automatic generation control of complex power system
Vigya, C. K. Shiva, B. Vedik, S. Raj, S. Mahapatra, V. Mukherjee, *Chaos, Solitons & Fractals* **2023**, 173, 113673.
 2. A novel chaotic chimp sine cosine algorithm Part-I: For solving optimization problem
Vigya, S. Raj, C. K. Shiva, B. Vedik, S. Mahapatra, V. Mukherjee, *Chaos, Solitons & Fractals* **2023**, 173, 113672.
 3. An approach to attain a balanced trade-off

solution for dynamic economic emission dispatch problem on a microgrid system

B. Dey, S. Raj, R. Babu, T. Chhualsingh, *International Journal of System Assurance Engineering and Management* **2023**.

4. Hybrid intelligence strategy for techno-economic reactive power dispatch approach to ensure system security

S. Raj, S. Mahapatra, R. Babu, S. Verma, *Chaos, Solitons & Fractals* **2023**, 170, 113363.

5. A novel meta-heuristic approach for optimal RPP using series compensated FACTS controller

S. Shekarappa G, S. Mahapatra, S. Raj, *Intelligent Systems with Applications* **2023**, 18, 200220.

6. A hybrid moth-flame algorithm with particle swarm optimization with application in power transmission and distribution

M. S. Shaikh, S. Raj, R. Babu, S. Kumar, K. Sagrolkar, *Decision Analytics Journal* **2023**, 6, 100182.

7. Parameters estimation of AC transmission line by an improved moth flame optimization method

M. S. Shaikh, S. Raj, M. Ikram, W. Khan, *Journal of Electrical Systems and Information Technology* **2022**, 9, 25.

8. Enhancing Power System Security by Chaotic Hybrid Intelligence Strategy for Reactive Power Dispatch

S. Mahapatra, S. Raj, R. Sharma, in **2022 2nd Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON)**, **2022**, pp. 1-6. (Conference)

9. Determination of optimal location and Implementation of Solar Photovoltaic system using ETAP

S. N. Dehedkar, S. Raj, in *2022 IEEE 2nd*

International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC), **2022**, pp. 1-4. (Conference)

■ Dr Navnath Hatvate

1. Ultrasound-assisted facile and efficient synthesis of novel Benzoxazole derivatives from o-aminocardanol using Indion 190 resin as a reusable catalyst

B. Patil, N. Hatvate, A. Bari, D. Pinjari, A. Pandit. *Journal of chemical science*, **135**(1), 4 (**2023**).

2. Drug Delivery Strategies for Avobenzone: A Case Study of Photostabilization

A. Gholap, Sadikali F Sayyad, **N. Hatvate**, Vilas V Dhumal, Sagar R Pardeshi, Vivek P Chavda, Lalitkumar K Vora, *Pharmaceutics*, **15**(3), 1008 (**2020**)

3. Importance of carbohydrate-drug conjugates in vaccine development: A detailed review

A. Gholap, R. Said, R. Pawar, G. Ambore, N. Hatvate, *Comprehensive Analytical Chemistry*, 102 (In Press) [**Book Chapter**]

4. Quintessential impacts of dendrimer bioconjugates in targeted drug delivery

A. Gholap, D. Bhowmik, A. Deshmukh, N. Hatvate, *Comprehensive Analytical Chemistry*, 102 (In Press) [**Book Chapter**]

5. Antibody-drug conjugates for cancer therapy: An up-to-date review on the chemistry and pharmacology

A. Gholap, J. Gupta, P. Kamandar, G. Banchhod, N. Hatvate, *Comprehensive Analytical Chemistry*, 102 (In Press) [**Book Chapter**]

SOCIO-CULTURAL ACTIVITIES

Celebration of Republic Day



ICT MARJ celebrated 74th Republic Day of India on 26 January 2023. Students, faculty, and support staff gathered at New Building Foyer. The chief guest of the program Chief Guest Shri. Suresh Agrawal (Chairman, Beej Sheetal Inventions Centre Pvt. Ltd. Jalna) unfurled the flag and the national anthem followed the unfurling. Rest of the program was arranged in the Auditorium which included the Chief Guest address and the address by the MARJ Director Prof. Uday Annapure. The function also included the student performances such as singing and dancing. The celebration concluded with Vande Mataram Geet and the savouring of the sweet.



Celebration of Various National Days at ICT MARJ

Institute of Chemical Technology Marathwada Campus Jalna has celebrated birth anniversary of various great personalities of India such as- Birth Anniversary of Birsa Munda as Jan Jatiya Diwas on 15 November 2022, Constitution Day on 26 November 2022, Birth Anniversary of Savitribai Phule on 03 January 2023, Birth Anniversary of Rajmata Jijau and Swami Vivekanandan on 12 January 2023, Birth Anniversary of Netaji Subhash Chandra Bose and Balasaheb Thakare on 23 January 2023, Birth Anniversary of Shivaji Maharaj on 19 February 2023, Birth Anniversary of Sant Gadge Baba on 23 February 2023, Birth Anniversary of Mahatma Phule on 11 April 2023, and Birth Anniversary of Babasaheb Ambedkar on 14 April 2023. Alongside, we also commemorated Death Anniversary of Dr Babasaheb Ambedkar as Mahaparinirvan Din on 06 December 2022.

The Co-ordinators Dr Kapil Sagrolkar and Dr Nagsen Meshram are the co-ordinators of the National Days Celebration. They played crucial roles in successfully executing these days at ICT MARJ.

1. Celebration of Birth Anniversary of Birsa Munda as Janajatiya Gaurav Diwas (15 Novemembr 2022)

15 November is celebrated as the birth anniversary of Bhgwan Birsa Munda. On this occasion the government of India has declared 15th November as 'Janajatiya Gourav Diwas'. Therefore, it has been decided to celebrate the event on 15th November among the students of higher education institutions across the country.

Institute of Chemical Technology Marathwada Campus Jalna celebrated the Birth Anniversary of Bhagwan Birsa Munda as "Janajatiay Gaurav

Diwas" on 15 November 2022 under the aegis of Azadi ka Amrit Mahotsav.

ICT MARJ Associate Dean (Industry) Mr Sharad Lahoti venerated Bhagwan Birsa Munda's image with the floral garland and shared his thoughts on the life of Bhagwan Birsa Munda. PhD Scholar Mr Prashant Mundhe captured the history of the unsung tribal heroes the ancient history, of Ramayana and Mahabharata, of freedom struggle and the present day Tribal heroes. His speech led the right path to witness an AV on the Unsung Heroes of Tribal Freedom Fighters and a documentary on the life of Bhagwan Birsa Munda.

2. Commemoration of Death Anniversary of Dr Bhimrao Ambedkar as Mahapari Nirvan Day (06 December 2023)



Institute of Chemical Technology Marathwada Campus Jalna paid tribute to Dr Babasaheb Ambedkar on his 66th Death Anniversary on 06 December 2022 as Mahaparinirvan Diwas.

The tribute started with Deputy Director of the Institute Dr Parag Nemade offering garland to Dr Ambedkar's image, all the faculty members offering flowers and the audience standing in respect of Buddha Vandana. Second Year M Tech student Nikhil Mundhe shed light on the life of Babasaheb Ambedkar whereas Mr Girish Wahile, MIS Executive, read the excerpts from Dr Ambedkar's speeches. The commemoration concluded with the national anthem.

Coordinators Dr Kapil Sagrolkar, Dr Nagsen Meshram and Dr Hitendra Patil played vital role in executing the commemoration.

3. Celebration of Birth Anniversary of Rajmata Jijabai and Swami Vivekananda (12 January



2023)
ICT MARJ celebrated Birth Anniversary of Rajmata Jijau Saheb Bhonsale and Swami Vivekananda on 12 January 2023 at 04.00 pm in Auditorium. Dr Kapil Sagrolkar welcomed all the faculty members, students and the staff gathered

in the Auditorium. Institute Director Prof Uday Annapure offered garlands to the image of both the great personalities whereas all the faculty members offered flowers.

M Tech Student and Research Scholars read the introductory excerpts on the life of Swami Vivekananda and Jijamata respectively. ICT MARJ Director in his address throw light on the life of both the personalities. He reiterated on the thoughts of Swami Vivekananda urged the young minds of the institute to follow. On the other hand, he also urged girl students to get inspiration from the extra ordinary life of Raj mata Jijamata.

4. Celebration of Birth Anniversary of Netaji Subhash Chndra Bose and Balasaheb Thakre (23 January 2023)

Institute of Chemical Technology (Mumbai) Marathwada Campus Jalna celebrated the birth anniversary of two great personalities of India: Netaji Subhash Chandra Bose (born on 23 January 1897) and Balasaheb Thakre (born on 23 January 1926).

Director of the Institute Prof (Dr) Uday Annapure venerated the image of these great personalities with the garland paid his tribute to them. He also threw light on the life of these personalities who belonged to the two different times and fought for different causes and who are the amulet of two big states, namely- West Bengal and Maharashtra.

The celebration concluded with a vote of thanks and all the faculties, non-teaching staff, and students paying tribute to them for their cause of fight, sacrifice, and achievement.

5. Celebration of Birth Anniversary of Chhatrapati Shivaji Maharaj (19 February 2023)

ICT MARJ celebrated 393rd birth anniversary of Chhatrapati Shivaji Maharaj with great enthusiasm and in traditional way. The celebration started with the student performing Dhol Tasha at the new building foyer. The Dhol Tasha (15 Dhols, 4 Tashe, and 2 Dhawaj) included Shiv Garjana, Aaste kadam, Nagada, Paramparik Hath, and the procession (starting from new building through old building and the back to the new building).

ICT MARJ Director Prof. Uday Annapure venerated the Chhatrapati Shivaji Maharaj with garland and also engrossed everyone present there with his address which encompassed the life journey of Chhatrapati Shivaji Maharaj.



Apart from it, all the faculty members, non-teaching staff and the students offered flowers to Chhatrapati's image. MARJ students (Gajanan Shinde, Vaidarbhi Budhhe, and Amol Mapare) gave speech and recited powada on this occasion. It was a day filled with sense of pride, and fun.

Organization of URJA Sports Week at ICT MARJ (10-18 December)



The air was thick with anticipation and excitement as the ICT Marathwada Campus prepared to host its biggest sports event of the year- the URJA Sports Week. Students from all the departments and batches came together to compete in a variety of sports categories and showcase their skills, sportsmanship, and teamwork.

The event had a bang with the ferocious URJA Cricket Champions League, held at the Krida Sankul Jalna, where eight teams battled it out for the ultimate prize. In a thrilling finale, the Tara



Superkings emerged victorious, displaying an incredible level of skill, strategy, and teamwork. It was a sight to behold as the teams gave their all on the field, leaving no stone unturned in their quest for glory.

The cricket was just the beginning, as the rest of the week was filled with equally thrilling events. In the girls' badminton category, Sakshi Kataruka clinched the top spot with a stellar performance, while Ananya Sathe and Abhilasha Shastri secured the runner-up and third place respectively.

In the boys' badminton category, Aditya Desai emerged as the winner, followed by Prasad Ladake and Akshat Bedmutha in the runner-up and third place respectively.

The girls' table tennis finals saw Sakshi Kataruka once again emerge as the winner, with Shreya Bhardwaj coming in second. In the boys' table tennis finals, Dev Patra took home the gold, while Aditya Desai settled for the runner-up spot. The carom category saw Sakshi Kataruka emerge victorious once again, with Vaishnavi Bhutekar coming in second. Aditya Mundhe was the winner in the boys' carom category.

In the chess category, Utkarsh Patodi emerged as the winner, while Manthan secured the runner-up spot. And in the girls' volleyball category, Gargi Patil and her team emerged victorious, while Kartik Ghate and his team won the boys'

volleyball category.

The URJA Sports Week was more than just a showcase of sports talent. It was a celebration of sportsmanship, teamwork, and the never-say-die spirit that lies at the heart of every athlete. The event brought together students from all walks of life, fostering a sense of community and camaraderie that went beyond the confines of the classroom.

In conclusion, the URJA Sports Week was a resounding success, with students showcasing their skills, talent, and sportsmanship in a variety of categories. It was a testament to the power of sports to bring people together, inspire greatness, and create memories that will last a lifetime. The ICT Marathwada Campus can be proud of its students, who truly embodied the spirit of sportsmanship and competition during the event.

Rotary Expo was held on 22 December 2022



It was a huge success with over 200 stalls showcasing their products and services. The event was a great opportunity for the students of ICT Campus to witness the latest technologies and innovations from different sectors.

The event kicked off with a thrilling ISRO rocket launcher theme show, which left the students amazed and inspired. A model rocket made from plastic bottles was prepared and launched during the Rotary Expo, showcasing the wonders of rocket technology. The demonstration was a fun and engaging way to educate the students about the science behind space technology.

The Rotary Expo's food carnival was a feast for the senses, with an array of stalls offering a wide variety of food. Students from ICT Campus were able to indulge in different flavors and tastes, as they explored the diverse food offerings from



different stalls.

One of the major attractions of the event was the drone show, which featured small models of Indian fighter aircraft. The drone show was a great way to showcase the latest advancements in drone technology and its applications in the military sector. The students were thrilled to see the drones perform various maneuvers in the air, leaving them mesmerized.

Overall, the Rotary Expo was a great success, and the students of ICT Campus had a great time exploring the stalls and learning about new technologies and innovations. The event was a perfect blend of education and entertainment, leaving the students inspired and motivated to explore new areas of interest.

ICT MARJ Celebrated Makar Sankranti



On the occasion of Makar Sankranti ICT MARJ celebrated the traditional day with great gusto and enthusiasm. All the students and faculties arrived on campus in traditional attire. As we all know India is a diverse country, so these colorful attires

were representing our country perfectly.

The program started with Ganesh Vandana followed by melodious tabla and harmonium duet by students. A dance was performed by the students of 2nd year Integrated M Tech and a funny horror drama by the students from all the batches of Integrated M Tech which made the watchers' burst into laughter. Towards the end, ICT MARJ Director Prof Uday Annature addressed the gathering. The program concluded with the distribution of Til-Gul to everyone.

As the second part of this celebration, the fun and food fair was organised. Such programs are always useful as students can get some rest from studies. Everyone enjoyed the program. There was a different kind of energy that day. Some students were playing the fun games while others enjoying tasty food by their colleagues.

What a thrilling experience it was! Though the program ended their, but surely ICT will never forget these memories. No doubt, such programs will be arranged in future also to encourage students' creativity and as a refreshment from the daily routine.

Hands on Training on Fire safety (09 February 2023)

ICT MARJ has organized the training for fire safety and precautions on 09 February 2023. The collection of procedures known as "Fire Safety" are meant to lessen the damage that fire can do. Fire safety precautions include those that are used to control the spread of a fire and those that are used to stop it from starting in the first place. The hands on training was given on the-

- unattended cooking fires in the kitchen, grease fires and chip pan fires
- faulty, poorly maintained, or overloaded electrical systems
- inadequately protected locations for combustible storage
- combustible materials next to machinery that produces heat, flame, or sparks
- open flames such as candles
- tobacco use (cigars, cigarettes, pipes, lighters, etc.)
- equipment that produces heat and makes use of flammable materials
- aerosols and liquids that catch fire
- placing flammable solvents (and rags soaked in solvent) in trash cans with lids
- non-regular or improper cleaning of fireplace chimneys
- ovens and stoves for cooking.

Celebration of National Science Day (28 February 2023)



ICT MARJ celebrated National Science Day on 28 February 2023 in the honour of respected and highly admired physicist Dr C. V. Raman and his great contribution in modern science. This day has special significance in the history of science as Dr C V Raman discovered 'Raman Effect' on this day. On the occasion of this day various competitions were held like- Science Quiz, Science Model Exhibition, Elocution, Presentation on the topic

"Tech to Technology" and Essay Competition on the topic "Global Science For Global Wellbeing" which was national theme for year 2023.

The program started with speeches by students. Then Dr Supriyo Mondal shared fascinating information about Dr Raman and his remarkable work. He also shared the story of Dr Raman during Noble Prize Ceremony. After this, the

students gave presentations which was followed by prize distribution ceremony. Following this Prof. Uday Annapure, Director, ICT MARJ addressed the gathering and shed light on the life of Dr C V Raman and the reason why this day is celebrated as National Science Day. The program concluded with a vote of thanks by Deputy Director Dr Parag Nemade.

Scholarship Assistance to First Year Student of Intergrated M Tech



Jalna Education Foundation has given Scholarship Assistance to the six students of First Year Integrated M. Tech. Rs. 1,25,000/- has been distributed among these students. Prof Uday Annapure, Director, ICT Jalna has distributed the cheques and certificates to students. He also acknowledged the assistance and thanked Jalna Education Foundation for the same.

STUDENT CORNER

“ICT MARJ Students Admitted for Higher Studies at renowned Overseas Universities”

| Sr. No. | Name of Student | Admits received | Admit accepted with full fellowship for PhD |
|---------|------------------|--|---|
| 1 | Harsh R Darji | University of Wisconsin Madison University of Minnesota - Twin Cities | University of Wisconsin Madison |
| 2 | Farhan Shaikh | University of Florida Texas A&M University University of Colorado Boulder University of Pittsburgh Johns Hopkins University Iowa State University | Johns Hopkins University |
| 3 | Krutarth Pandit | Ohio State University Penn State University | Ohio State University |
| 4 | Ali Asger | Carnegie Mellon University Cornell University | Carnegie Mellon University |
| 5 | Ayush Deore | Georgia Institute of Technology Ohio State University Arizona State University State University of New York, Buffalo | Georgia Institute of Technology |
| 6 | Urvi Parlikar | University of Colorado Boulder State University of New York, Buffalo | University of Colorado Boulder |
| 7 | Vishnu Pradeep S | Columbia University TU Delft Johns Hopkins University University of Southern California New York University | Columbia University |
| 8 | Parth Khandagale | University at Buffalo | State University of New York |



Indrajeet won second prize in Poster Presentation



Rahul won Best Oral Presentation award



MARJ Students Placement at Renowned Industries

| Sr. No. | Name of student | Company name | Role | Location |
|---------|------------------------|--|-------------------------------------|-----------|
| 1 | Smith Patil | Transparency Market Research | Research Associate | Pune |
| 2 | Dhananjay Nagre | Future Market Insights | Associate Consultant Level -1 | Pune |
| 3 | Prajwal Jadhav | Future Market Insights | Associate Consultant Level -1 | Pune |
| 4 | Utkarsh Patodi | Future Market Insights | Associate Consultant Level -1 | Pune |
| 5 | Akshat Bedmutha | Future Market Insights | Associate Consultant Level -1 | Pune |
| 6 | Vaidehi Patil | Freyr Software Services Pvt Ltd | Trainee - Regulatory operations | Hyderabad |
| 7 | Janhavi Dhumal | Freyr Software Services Pvt Ltd | Trainee - Cosmetics | Hyderabad |
| 8 | Mrudav Raval | Keva Flavours & fragrances Pvt. Ltd. | Sales | Not known |
| 9 | Prasad Lakade | Keva Flavours & fragrances Pvt. Ltd. | Sales | Not known |
| 10 | Hiteshree Sa- rode | Keva Flavours & fragrances Pvt. Ltd. | R&D | Not known |
| 11 | Piyush Dhage | Stellarix Jaipur | Associate Operations Cons.-Advisory | Jaipur |
| 12 | Lekhraj Mahajan | Tata Consulting Engineers Ltd | | Pune |
| 13 | Adwait Sawant | Tata Consulting Engineers Ltd | | Pune |
| 14 | Susmit Nikam | Baxter Pharmaceuticals India Private Limited | | Ahmadabad |
| 15 | Shradhha Kamble | Kimberly Clark India Private Limited | | Mumbai |
| 16 | Mrinmayee Warode | Intas Pharmaceuticals Private Limited | | Ahmadabad |
| 17 | Kikkara Pooja Rao | Par Pharmaceutical An ENDO International Company | | Mumbai |
| 18 | Shilpa Bharat Sonawane | Par Pharmaceutical An ENDO International Company | | Mumbai |
| 19 | Rajesh Dugane | IMCD | | Mumbai |



| Sr. No. | Name of student | Company name | Role | Location |
|---------|-----------------------------|---|--------------------------------|--------------------|
| 20 | Chetan Ramesh Gawali | National Institute of Pharmaceutical Education and Research | | Ahmadabad |
| 21 | Rajashree Subhas Shinde | Biocon Biologics | GRA | Bangaluru |
| 22 | Pallavi Appasaheb Kamandar | Biocon Biologics | QC Insulin | Bengaluru |
| 23 | Sanjana Shamsundar Ghongane | Biocon Biologics | MSAT Biosimilars | Bengaluru |
| 24 | Rahul Tukaram Haramkar | Freyr Solutions | CSRA | Hydrabad |
| 25 | Sharvari Satish Deshpande | Freyr Solutions | Regulatory Affairs | Hydrabad |
| 26 | Deblina Debasish Bhowmik | Macleoids Pharamaceuticals LTD | AMD API | Mumbai |
| 27 | Vaidehi Shukla | Mordor Intelligence, Hyderabad | | Hyderabad |
| 28 | Pooja Mulge | Mordor Intelligence, Hyderabad | | Hyderabad |
| 29 | Mahpara Khanam | Mordor Intelligence, Hyderabad | | Hyderabad |
| 30 | Jaheer Kazi | Mordor Intelligence, Hyderabad | | Hyderabad |
| 31 | Srishti Dhane | AIMCHEM, Mumbai | | Mumbai |
| 32 | Akshay chava | Mapro pvt ltd, wai, Mahabalesh | | Wai, mahabaleshwar |
| 33 | Suresh Kolte | Mapro pvt ltd, wai, Mahabalesh | | Wai, mahabaleshwar |
| 34 | Krushna Alnure | S4S Technologies , sambhaji N | | Sambhaji Nagar |
| 35 | Sayali Deshmane | Vyankatesh agro processing co | | Phaltan |
| 36 | Nitin Garud | Dukes food pvt ltd, Hyderabad | | Hyderabad |
| 37 | Kevin Adams Ebenezer | Saint-Gobain | Professional Research Engineer | Mumbai |
| 38 | Athira G K | HMEL (HPCL- Mittal Energy Limited Singapore) | Technical Trainee | Noida UP |
| 39 | Sakshi Singh | HMEL (HPCL- Mittal Energy Limited Singapore) | Technical Trainee | Noida UP |

AKAM CAMPAIGN 2023

“2nd Scrap Recycling (Fe and Non-Fe) and Waste Utilisation Drive”

This year is special for the entire country because we are celebrating our 75th year of independence - Azadi ka Amrit Mahotsav (AKAM), and on this auspicious occasion, India is moving up the list of developed nations. The main moto of the AKAM campaign is sustainable development with a focus on Mother Nature and the circular economy. With this mind-set, 30 students from ICT MARJ were selected to participate in the 2nd Scrap Recycling (Fe and Non-Fe) and Waste Utilisation Drive, which was hosted by the Ministry of Steel, the Ministry of Mines, the Material Recycling Association of India (MRAI), and the Steel Manufacturers Association of Maharashtra

(SMAM) at the Hotel Saffron on 28th April 2023. The conference was divided into two sessions: a visit to the prosperous steel cluster of Jalna and an information discussion series. Students went on field trips to Metaroll Ispat, Bhagyalaxmi Rolling Mill Private Limited, Rajuri Steel, and Kalika Steel, where they learned about the steel industry from scrap loading to product finishing. The presence of chief guests MP Raosaheb Patil Danve (Union Minister of State for Coal and Mines) and Ms. Ruchika Govil (additional Secretary, Ministry of Steel) made the discussion session extra special. Another highlight of the conference was the opportunity for our students to interact with the MRAI expert team.

A Festive and Fun-Filled Season: Highlights from ICT Marathwada Campus' Recent Events

ICT Marathwada Campus recently hosted four exciting events that brought the campus to life with creativity and enthusiasm. On 26th December, the college celebrated **Christmas Day**, where students were encouraged to dress up in attire that matched the theme. On 2nd January, the college celebrated **Bollywood/Mismatch Day**, where students were encouraged to dress up as their favorite Bollywood characters or in mismatched outfits. On 4th January, the campus held **Group Day**, where students worked in teams to express a particular pattern or idea through their outfits. Additionally, the college also observed **No Bag Day** on 27th December, where students were not allowed to carry bags and instead had to use alternative means to carry their belongings.

The Christmas Day celebration was a festive and cheerful event, with students dressed up in red and white attire, Santa Claus hats, and other Christmas-themed outfits. The campus was adorned with beautiful decorations and students participated in various fun activities to mark the occasion. The Bollywood/Mismatch Day was a colorful and vibrant event, with students showing

off their creativity and love for Bollywood. From retro to modern-day looks, the students' outfits were a reflection of their unique sense of style and personality. On Group Day, the students were given the freedom to express their creativity and teamwork skills by designing costumes based on their chosen theme or concept. The event brought the campus to life with vibrant colors, intricate designs, and enthusiastic participation from the students. No Bag Day was a unique initiative that aimed to promote sustainable and eco-friendly practices on the campus. The students were not allowed to carry bags and had to use alternative means such as baskets or cloth bags to carry their belongings. The event was a huge success, with students embracing the challenge and coming up with innovative solutions to carry their things.

Overall, these events showcased the creativity, teamwork, and sustainability values of the students at ICT Marathwada Campus. We look forward to seeing what other exciting events the college has in store for us in the future!

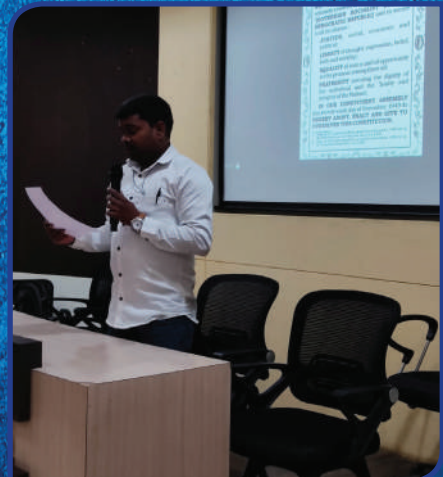


STUDENT PUBLICATION

| Student name | Batch year | Publication title (book chapter, review paper, research article, or any) | Journal name and Impact factor | Published Date | Authors | Name of Guide |
|----------------------------------|------------|---|---|----------------|---|---|
| Vedant Ajay Joshi | 2018 | A-Priori screening of deep eutectic solvent for enhanced oil recovery application using COSMO-RS framework | Journal of Molecular Liquid (IF 7.663) | March 2023 | Vedant A. Joshi, Dhanashri Raut, Debashis Kundu, Sandip Khan | Prof. Dr. Debashis Kundu |
| | | Recent Trends in Graphene-Derived Applications for Energy Harvesting and Biosensing | Sustainable Nanomaterials for Biosystems Engineering | April 2023 | Vedant A. Joshi, Girish M. Joshi | Prof. Dr. Girish M. Joshi |
| S. Vishnu Pradeep | 2018 | A review on recent trends in bio-based pressure sensitive adhesives | The Journal of Adhesion (IF 2.446) | February 2023 | S. Vishnu Pradeep, Balasubramanian Kandasubramanian, Sumati Sidarth | Balasubramanian Kandasubramanian, Dean (Academics), Professor of Metallurgical and Materials Engineering, DIAT, Pune. |
| Sarang Subhashchandra Shindalkar | 2019 | Breakthrough to the pragmatic evolution of direct ink writing: progression, challenges, and future - Review paper | Progress in Additive Manufacturing (IF 4.97) | January 2023 | Sarang S. Shindalkar, Komal S. Pandya | Balasubramanian Kandasubramanian, Dean (Academics), Professor of Metallurgical and Materials Engineering, DIAT, Pune. |
| | | 4D Printing : The Additive Manufacturing Industry's Revolution | Modern Plastic India | April 2023 | Sarang S. Shindalkar | Prof. Dr. Girish M. Joshi |
| Sakshi Tak | 2019 | Group contribution method promoted correlations of glass transition temperature of deep eutectic solvents | Chemical Thermodynamics and Thermal Analysis (IF 3.269) | March 2023 | Sakshi S Tak, Debashis Kundu | Prof. Dr. Debashis Kundu |
| | | Thermodynamic modelling of physico-chemical properties of new generation ionic liquid-bitumen system | Geoenergy Science and Engineering (IF 5.168) | February 2023 | Vedant A Joshi, Pratham M Shah, Sakshi S Tak, Debashis Kundu | |
| Namita Karna | 2019-2023 | Structure-property relationship of silane-modified polyurethane: A review | Progress of organic coating (IF 6.2) | January 2023 | Namita Karna , Girish M. Joshi , S.T. Mhaske | Prof. S. T. Mhaske |

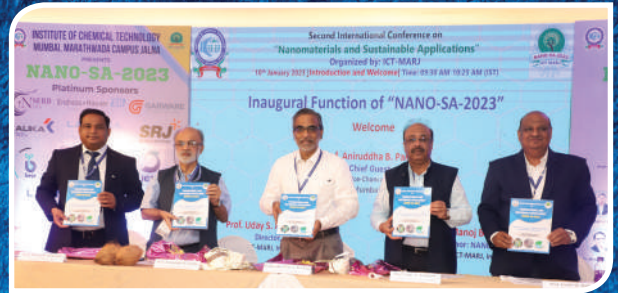


| | | | | | | |
|---------------------------|------|--|--|----------------|---|----------------------------|
| Shankar Sudam Humbe | 2019 | Polyvinylidene fluoride/polysulfone/air plasma defected hexagonal boron nitride emerging nano blends for electrostatic dissipation | . Journal of Applied polymer Science, (IF 3.057) | September 2022 | Shankar S Humbe, Girish M Joshi, Rajendrasingh R Deshmukh, Shaik Kaleemulla | Prof. Dr. Girish M. Joshi |
| | | Synergetic Effect of Plasma-Treated Graphene Oxide/ Polymer Blends for Electrostatic Dissipative Applications | Physica Status Solidi A, (IF 2.17) | October 2022 | Shankar S Humbe, Girish M Joshi, RR Deshmukh | |
| | | Anomalous properties of plasma treated hexagonal Boron Nitride dispersed polymer nano blends | Journal of Polymer Research (IF 3.06) | September 2022 | Shankar S Humbe, Girish M Joshi, RR Deshmukh, Shaik Kaleemulla | |
| Pratibha Sampatrao Jadhav | 2019 | Polymer blend nano-architectonics with exfoliated molybdenum disulphide/ polyvinyl chloride/ nitrocellulose | Journal of inorganic and organometallic polymers and materials (IF 3.58) | February 2023 | Pratibha Jadhav, Shankar Humbe, Girish M. Joshi, R.R. Deshmukh, s. Kaleemulla | Prof. Dr. Girish M. Joshi |
| Gajanan Yoganand Shinde | 2020 | Recent advances of photocatalytic hydrogenation of CO ₂ to methanol | Catalyst (IF 5.40) | January 2022 | Gajanan Y. Shinde, Abhishek S. Mote and Manoj B. Gawande* | Prof. Dr. Manoj B. Gawande |
| Shruti Bajpai | 2018 | Review Paper: An integrated biorefinery approach for the valorization of water hyacinth towards circular bioeconomy: a review | Environmental Science and Pollution Research (IF 5) | February 2023 | Shruti Bajpai, Dr. Parag R. Nemade | Prof. Dr. Parag R. Nemade |
| Tejas Jairange | 2019 | Consolidation of Polymer entropy versus metals | Modern Plastic India | February 2023 | Tejas Jairange | Prof. Dr. Girish M. Joshi |





▼ NanoSa



▼ Women's Day

