



Prof. Uday Annapure
Director, ICT Jalna



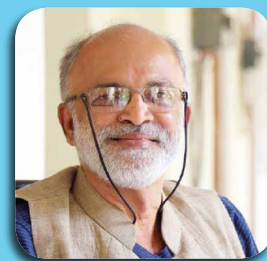
मार्गजल

Streamlining minds

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Academic Year 2022-23

MARJ Newsletter



Prof. Aniruddha Pandit
Vice Chancellor, ICT



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Editor : Dr Kapil Sagrolkar



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From Director's Desk



The government of Maharashtra has allotted an amount of Rs 55 Crore to ICT Jalna Campus in its Winter Assembly Session 2022. These are the series of events made me happy as well as gave me the strength to prepare myself to think, act and take part in starting the construction related activities of ICT MARJ at the actual given land of 203 acres.



Dear Readers,

I always feel ecstatic to speak to you and this time I am on cloud nine for several reasons. One of them is the visit of Hon'ble Union Minister Shree Raosahebji Patil Danve. His visit to MARJ campus and promise to provide utmost support has invigorated us and we are now overwhelmed. The second reason for my happiness as the director of the institute is that the ICT Mumbai officials' visit to Hon'ble minister of Technical and Higher Education Shree Chandrakant Dada Patil. The meeting was held at the Secretariat Mumbai. They discussed on various topics and issues. One of the prominent topics was ICT MARJ Campus development and the Hon'ble minister promised to look after the long-pending matters personally and get them done at the earliest. Guess what the third reason for my happiness is in connection with these two activities. The government of Maharashtra has allotted an amount of Rs 55 Crore to ICT Jalna Campus in its Winter Assembly Session 2022. These are the series of events made me happy as well as gave me the strength to prepare myself to think, act and take part in starting the construction related activities of ICT MARJ at the actual given land of 203 acres.

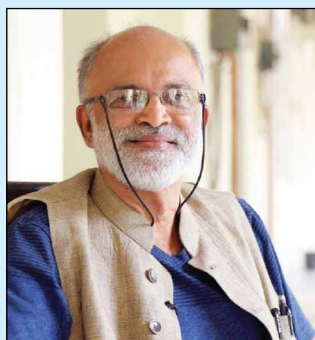
Besides, MARJ campus was very occupied in celebrating, organizing and coordinating various activities on the campus. For instance- we celebrated a Month-Long Nutrition Fiesta in month of September coupled with the Celebration of World Food Day. This celebration included various competitions, events, and talks for the students and the participants along with an outreach activity of spreading food related awareness in Padali village. We organized talks by renowned personalities in the field of chemical,

chemistry and food, and other fields, for instance- talk by Dr Sangita Kasture (Scientist 'F' DBT Govt of India), Mr Rajeev Panse (Life Quality Enhancer - Global Corporate Speaker & Coach), Dr Prakash Ambekar (MBBS, DNB – Psychiatry, Jalna), Adv Mahesh Muthal (High court advocate, Maharashtra), and Mrs. Pooja Vishal Maulikar (Examiner of Patents and Designs, Central Government Office under the Patent Office, Ministry of Commerce & Industry, RGNIPM Nagpur). We have also organized a Skill Development Workshop, students went on academic trip, and we have also signed MoUs with the reputed institutes. The best part of this time period is that we have actively participated in Azadi Ka Amrit Mahotsav (organized talks, conducted competitions for the students, etc.), and 150th Satyashodhak Anniversary Year Celebration. Apart from this, we have also appointed a counsellor (Ms Savita Satpute). She conducted various personal and general sessions for the students. Along with it, we conducted psychometric evaluation for the students and organized various talks by the eminent scholars, subject experts of the psychology, psychoanalysis, etc.

Towards the end I would like to inform you that MARJ fraternity (faculty and students) keep doing great as far as academic activities such as research is concerned. They shine by publishing in the reputed journals, visiting and giving talks at various (inter)national institutions and industries and win various awards, recognition and accolades. I am really proud for to be the leader of this institute!

Prof. Uday S Annapure
Director

Encouragement from the Vice Chancellor



The first lot of the sanctioned money of Rs. 63 odd crores have been cleared and the tenders for the compound wall to enclose, this sprouting 203 Acre of campus will be out soon and is expected to be completed in the next 2 to 3 months.

Our successful visit to Hon'ble Minister of Technical and Higher Education Shree Chandrakantdada Patil with the Deans, Registrar and others was also a great success and the commitment made by the Hon'ble Central Minister Shree Raosahebji Patil Danve was endorsed whole heartedly by Hon'ble Chandrakantdada Patil, clearing all the hurdles for the establishing of the new campus.



Dear MARJ STAKEHOLDERS,

It is time again for a new issue and new message and the update from my end.

Unlike last time, when I talked about the visit to USA and my connect with the ICT Alumni there, this time the focus is on the exciting happening nearer i.e. ICT JALNA Campus visit.

Many activities have been undertaken in the past 6 months related to the campus development. After a successful visit of the Union Minister Shree Raosahebji Patil Danve to the campus, where he spent more than 2/3 hours, explored various new facilities at MARJ campus and also inaugurated the Steam Distillation Unit donated by CIMAP, CSIR, Lucknow. He was very happy to see the thriving campus and your participation and committed involvement in making this visit successful deserve a huge compliment. The Hon'ble Minister has assured all the necessary help needed to construct the new campus, financial and otherwise, from the state Government and also from centre using his good offices.

The first lot of the sanctioned money of Rs. 63 odd crores have been cleared and the tenders for the compound wall to enclose, this sprouting 203 Acre of campus will be out soon and is expected to be completed in the next 2 to 3 months. Our successful visit to Hon'ble Minister of Technical and Higher Education Shree Chandrakantdada Patil with the Deans, Registrar and others was also a great success and the commitment made by the Hon'ble Central Minister Shree Raosahebji Patil Danve was endorsed whole heartedly by Hon'ble Chandrakantdada Patil, clearing all the hurdles for the establishing of the new campus.

Establishing of new UG labs, functioning of all the high end characterization equipment, which incidentally has already started earning

some revenue, receiving samples from other universities and institutes, including some IITs, speaks a volume of the commitment and rigours displayed by you all in establishing the same.

Now, the real hard-work starts. The students are back for the final two trimesters, where the project work has been assigned and guides allotted. It is a make or break situation for all of us, as the credibility of ICT is at stake. The first batch graduating in July 2023 is going to be our brand ambassadors and hence it is up to all of us to show that this new revolutionary Integrated M Tech programme is successful and acceptable to the industry and other national and international institutes. You all are working towards the same, even though my sincere appeal to you is to go that extra mile and use all your contacts and collaborations in ensuring that all the graduating students are well placed, either in the industry or academics and research. The proof of the pudding is in its eating.

I trust you all that you will take this appeal and the request seriously and do your best to bring the ICT MARJ on the world map by July 2023 if not before.

Thanking you all in anticipation and assure you all the required assistance from my end.

I would like to conclude by acknowledging the efforts of the direction Professor Annapure and the faculty and staff along with the ICT Alumni, especially Shree Ashish Mantri, Shree Manoj Pangarkar, Shree Mukund Bhogle and others for their sincere help and assistance in overcoming various hurdles and expecting their continued co-operation.

Warm regards,

Professor Aniruddha B Pandit
Vice Chancellor
Institute of Chemical Technology

Academic Endeavour

■ Visit of Hon'ble Shri Raosaheb ji Patil Danve and the Installation of 500 kg Distillation Unit



Hon'ble Shri Raosahebji Patil Danve, central minister of State for the Railways, Coal and Mines, Government of India, visited Institute of Chemical Technology Marathwada Campus Jalna on 04 October 2022. He was welcomed by the ICT Vice Chancellor Prof Aniruddha Pandit with the bouquet and Shawl and coconut whereas MARJ students showed honour and reverence to him by applying tilak on his forehead and circulating the plate containing a diya in front of him.

ICT MARJ Director Prof Uday Annapure formally welcomed the chief guest and all the dignitaries. His welcome address included the ICT MARJ journey which highlighted the State-of-the-Art Laboratories and research facilities, infrastructure, hostel facility, accolades of MARJ faculties and students. His speech emphasized the importance of ICT MARJ in the development of Jalna region and putting it on the global map. Short and sweet welcome address concluded with the promise that the institute will make the difference in Jalna to be the landmark of education in the Marathwada region.

Welcome address is followed by Vice Chancellor's address who has discussed the future plan of ICT Jalna. The highlighting parts of the plan are-

1. The Carbon Neutral Building on 12- acre land which is going to be the Solar Power Project to generate 30 megawatt electricity. 28 megawatts will be given to the MSEB Jalna to sort out load shedding issue.
2. Procuring and fencing the land,

3. Construction of the basic infrastructure such as- admin building, academic building, hostels, library, staff quarters, workshop, Laboratories, computer labs, language lab, auditorium, etc.
4. Establishment of Food Processing Units, Mosambi Processing and Optimizing Project, etc.

The overall development in short period of four years and the future plan which includes the betterment of people and the farmers of Jalna region intrigued the Minister and he was eager to see all the developmental activities of Jalna Campus of ICT. The Minister in his speech promised to provide optimum support from the state and the central government and will strive to make the ICT MARJ functional on the given land ASAP. Hon'ble Central Minister Shri Raosahebji Patil Danve's efforts to procure Rs. 56 Crore is noteworthy and ICT MARJ accepted it with both the hands wide open. Apart from it, he also promised to help us get some more money to carry out the plan without any hassle.

Minster's speech is followed by tree plantation in the vicinity of the campus. Hon'ble central minister also inaugurated 500 kg Distillation Unit. This is an aromatic extraction oil extraction setup- a joint collaboration of ICT, Mumbai and CSIR-CIMAP, Lucknow.

This setup is the outcome of the MoU signed between ICT Mumbai and CSIR- Central Institute of Medicinal and Aromatic Plants (CIMAP) Lucknow. The objective of the MoU

is to improve the farmer's economic condition of Maharashtra state in general and Marathwada region in particular. In order to initiate the work, a 500Kg Distillation Unit was inaugurated by the Hon'ble Shri Raosaheb ji Patil Danve. Vice Chancellor Prof. Aniruddha Pandit, Registrar Prof. Rajendra Deshmukh, Director Prof. Uday Annapure, and Dean Off-Campuses Prof. Shashank Mhaske were present at the time of inauguration. The CSIR-CIMAP will look after the plantation of essential crops and to complement it ICT will develop the efficient technologies and process economics. Both the institutes will aim to

inculcate the culture of growing of essential crops such as Geranium, Menthes, etc. particularly in the Marathwada region. In due course of time, a Mobile Unit will be installed to reach the setup at the processing locations i.e. the Farm Dam. Dr Dipak Pinjari (ICT Mumbai) coordinated the entire activity whereas Dr Atul Bari was co-coordinator from the Jalna campus.

Towards the tail-end of the program, Hon'ble minister visited all the Laboratories, had a discussion with Vice Chancellor. ICT Registrar proposed vote of thanks and the program was concluded with the national anthem.

■ Institute of Chemical Technology Officials Visited Hon'ble Shree Chandrakantdada Patil, Minister of Technical and Higher Education



ICT Officials- Vice Chancellor Prof. A B Pandit, Registrar R R Deshmukh, Dead Off Campuses Prof. S T Mhaske and ICT MARJ Director Prof. U S Annapure- visited Hon'ble Minister of Technical and Higher Education Shree Chandrakantdada Patil on 14 October 2022.

The meeting held in the Secretariat catered the discussion on two campuses of ICT (Mumbai &

Jalna). Hon'ble Minister promised to personally look after the long pending matters. The meeting was successful for two reasons: firstly, for seeking the state government's aid for construction related activities and also for releasing the required fund for the same; and secondly, for the state government scholarships.

Prof Pandit requested the Hon'ble Minister to make scholarship related provisions for the ICT MARJ students so that they may avail the benefits of the various govt. scholarships like- Rajashree Chhatrapati Shahu Maharaj Shikshan Shulk Shishyavruti Yojana and other scholarships.

■ District Collector Dr Vijay Rathod and Mr Manuj Jindal, ZP CEO Jalna Visited ICT Jalna Campus

Hon'ble Dr Vijay Rathod, District Collector, Jalna and Mr Manuj Jindal, ZP CEO visited MARJ Campus on 26 August 2022. They interacted with ICT MARJ Director Prof Annapure and Deputy Director Dr Parag Nemade and all the faculty members. Thereafter, they visited the state-of-the-art research facilities and laboratories, Classrooms and other facilities at ICT campus. Both the administrators of Jalna were quite satisfied with the kind of premier institute a place like Jalna is bestowed with.



■ Celebration of Month-Long Nutrition Fiesta 2.0 & World Food Day



National Nutrition Month is celebrated every year in the month of September. With the focus on inculcating good nutrition habits and positive behaviors that help pregnant women, lactating mothers and adolescent girls combat malnutrition, the Ministry of Women and Child Development is celebrating the 5th *Rashtriya Poshan Maah 2022* from 01 to 30 September 2022. This year's **National Nutrition 2022** theme is “**Celebrate a World of Flavors**”. Last year we celebrated this event with immense enthusiasm. ICT conducted many competitions like **Nutrochef**, **Nutrimaster**, **Poster making** and also **awareness program in Padali village** and also few Pep Talks. The last year Nutrition Fiesta received a huge support and massive participation which encouraged ICT MARJ to organize Nutrition Fiesta 2.0 with more enthusiasm. This year the response was overwhelming and more than previous year. Around 70-80 colleges all over India showed interest. The following events were conducted.

Opening Ceremony was on 03 September 2022. The director of Shri Hari Nutrition Pvt Ltd, Ashish Mantri, Bhavesh Patel of Vikram Tea Pvt Ltd, Manoj Peety of Thakurji Solvex Pvt Ltd, Anuj Kabra of Matrix Life Science Ltd, and Uday Naik of Aromax Flavours and Fragrances Pvt were the guests of honour. Mr Sharad Lahoti, Dr Sandeep Bhairat Dr Kapil Sagrolikar, Dr Nagsen Meshram, Dr Sandhya Shiwale, Dr Navnath Hatwate, Dr Sameena Naz Malik graced the occasion. The faculty head Dr Yogesh Gat and all the event heads were making efforts to ensure the success of the event. On the occasion of the day, blood donation camp was also organized.

Competitive Events:

1. Poster Making Competition: Even this year this competition has been the highest participated event as more than 100 participants from more than 12 colleges shown interest. The entries were accepted in two categories: Handmade Poster and Digital Poster with themes: Do or Diet, A to Zinc, Healthy mother healthy child, etc. The winners from each category were selected separately.

2. Nutrimaster Competition: In this competition 100+ students from colleges all over India have participated. This competition was in 3 rounds:

1. Food storm- Basic quiz round
2. Nutri Rumble- presentation round
3. Food Mania hackathon – Industrial Defined Problem and Clash of Masters

3. Masterchef Competition: In this event the students participated from West Bengal, Karnataka, Nashik, Mumbai, Pune, and Nagpur. The themes for this competition was: Millet year 2k22, Nutraceuticals, Sweet tooth, and Waste to wealth.

4. Flavoreel: Inspired by this year's nutrition month theme 'Celebrate a World of Flavors', a flavoreel competition was organized. We received a short video from the participants that shows the diversity in flavors of India.

Plenary events:

1. Ted Talk: There were 7-8 Pep Talks organized. The invited speakers were from different fields like- dietician, sports nutritionists, etc. Every Pep Talk received overwhelming participation.

a. Ms Mihira Khopkar is the Founder of MARK (Dream, Believe, Achieve)- a Sports and Therapeutic Nutrition brand.

b. Prof Smita Lele's topic is “Traditional Wisdom and Modern Nutrition Holistic approach”. India has a great tradition of nutritious food. Prof Lele emphasized on that perspective on nutrition with



importance of our daily traditional food.

c. Ms Garima Goyal is a well-known registered Dietitians of Ludhiana who has over 6 years' experience. She is known for providing practical and research backed diet plans and health solutions for a range of health problems like diabetes, kidney diseases, gastro/ liver patients.

d. Ms Nupur Patil had a successful career as a commercial pilot until she discovered her interest as a nutritionist. She is a certified sports nutritionist (certified by Olympics committee). She is a fitness coach with a degree in biotechnology and master's in nutrition. With multiple specialized degrees to help people with specific issues, she aims to help individuals to inculcate good eating habits to ensure a healthy way of life.

2. Diet Clinic: Diet clinic got 90 responses and we prepared diet chart for them which includes how much portion of carbs, fats, and proteins a person should include in their diet according to their body mass index. Faculties as well as students supported the diet clinic to make it a successful event. Even the students and faculties from different school took part in the diet clinic.

3. Nutrition Carnival: In this various food items and game stalls were arranged by student in our campus. The stalls included corn chaat corner,



Cold coffee, sandwich, Momos, Soda corner, etc. More than 700 school children's along with faculty members visited ICT Marj visited our campus and stalls which were Barwale college, MS jain english school, Parth sainik school, Podar international school, Anil Jindal School.

4. Exhibition: The students of M Tech First Year made creative models by themselves which conveyed the message of significance of healthy nutritious food in our life. They explained each and every model with application part which helped school students understand the significance of nutrition in our day to day life. The models were based on Eat Right India, Healthy Unhealthy, Food Pyramid, Vitamin Model, Fortified Foods, Think before Eat, and Nutrients of Healthy Plate.

5. Awareness Program: In awareness program ICTians went to a village named Mahakala and conducted hands-on demonstration of the various adulterated food in front of the local communities and school students. The students performed a skit "Yogya Poshan, Desh Roshan" to spread awareness about the nutrition. Around 200-300 people gathered for this activity. The 7th to 9th standards students of Zilha Parishad school too actively participated in the program.

The ICT MARJ students delivered various

performances about nutritious diet and consuming the right and safe food. They also gave information about the important components of food like carbohydrates, proteins, fats, vitamins and minerals and water. The ICTians threw light on different health schemes run by the government for children, adolescent girls, pregnant and lactating women. The students demonstrated how to tests to check the adulteration in food at home.



■ Celebration World Food Day (15 October 2022)



On the occasion of
World Food Day

PFNDAI
Protein Foods & Nutrition Development Association of India
in collaboration with
Institute of Chemical Technology, Marathwada Campus, Jalna
Organizes Webinar on
Millets- The Nutri-Cereals

Date- 15th October 2022
Time- 11:00 AM (IST)

REGISTER NOW <https://forms.gle/TnMJrcYjMYzbdZwHs>

SPEAKERS

			
Prof. Uday Annapure Director, Institute of Chemical Technology- Marathwada Campus, Jalna	Dr Jagdish Pai Executive Director, PFNDAI	Mr. Arun Om Lal Sr. Vice President, Hexagon Nutrition	Dr Prabodh Halde Head Regulatory-R&D, Marico

Institute of Chemical Technology Mumbai, Marathwada Campus, Jalna celebrated World Food Day on 15 October 2022 by organizing Webinar on “Millets- The Nutri-Cereals” in collaboration with Protein Foods and Nutrition Development Association of India (PFNDAI). The Speakers for the webinar were Prof. Uday Annapure, Dr Jagdish Pai, Mr Arun Om Lal, Dr Prabodh S Halde. The webinar was held live on all social media platform. Prof. Uday Annapure, Director, Institute of Chemical Technology,

Marathwada Campus, Jalna gave the inaugural address.

Dr Jagdish Pai's, executive director at Protein Foods and Nutrition Development Association of India, talk discussed the incorporation of millets in daily diet; how millets are rich in phenolic compounds like ferulic acid & catechins; the antioxidants that help in healing, skin protection and with anti-inflammatory properties. Mr Arun Om Lal, President of Corporate Affairs & Communications, Hexagon Nutrition Ltd, spoke on “Fortification of Millets”. In that he explains Fortification of millet flours with minerals, seems to be a feasible strategy to combat micronutrient deficiency. Dr Prabodh Halde, Head of Regulatory and R&D, Chairman of Marico; All India Food Processing Association; Chairman, Chamber for Advancement of Small & Medium Business; former President of AFST (India), delivered his speech on “Popularising the Consumption of Millets and Can millets be called a Superfood?” he is of opinion that superfood is a marketing term for foods claimed to confer health benefits resulting from an exceptional nutrient density Multidimensional benefit associated with millets makes it a potential Superfood Millets are known to be high in protein, dietary fibre, and are a powerhouse of nutrients and phytochemicals including iron, folate, calcium, zinc, magnesium, phosphorus, copper, vitamins and antioxidants. Worth noting program was hosted by Dr. Yogesh Gat and Ms. Dolly Soni and it received a huge response despite being on the online mode.

■ Celebration of Independence Day (15 August 2022) and Marathwada Mukti Sangram Din (17 September 2022)



ICT Marathwada Campus Jalna celebrated 76th Independence Day has been celebrated on 15 August 2022 and Marathwada Mukti Sangram Din on 17 September 2022.

The flag on the 76th Independence Day was hoisted at 10.00 am in front of New Building by Prof Uday Annapure, Director, ICT MARJ accompanied by national anthem and the Vidyapeeth Geet. Director's speech marked the 75 years' journey of independent India, it's achievement and the advancement towards becoming the world leader (Vishwa Guru). The inspirational speech from the institute leader preceded the distribution of certificates and mementos to the winners of the various competitions under the title "Celebration of Independence Week" (10-15 August 2022) on the occasion of Azadi ka Amrit Mahotsav. The winners of the singing competition sang patriotic songs. The program concluded with the national song- Vande Mataram.

The flag hoisting and national anthem on Marathwada Mukti Sangram Din done at 09.30 am in front of new building of the institute. Rest

of the program was in the auditorium. It started with the Vidyapeeth Geet and Marathwada Geet. MARJ Director Prof Annapure's welcome address included a brief introduction of the Marathwada Mukti Sangram Din which aptly connected the audience with the chief guests' speech.

The guest of honour was Prof. Nanasaheb Yashwantrao Gore. Prof Gore is the head of the department of Hindi and the director of research of Centre for the Research in Hindi Language and Literature. He occupied the audience with his impactful speech about the Nizam state, the condition of Marathwada region under his reign, the efforts by the heroes (Swami Ramanand Teerth, Digambarrao Bindu, Govindbhai Shroff, Ravinarayana Reddy, Devisingh Chauhan, Bhausahab Vaishmpayan, Shankarsingh Naik, Vijayendra Kabra, Babasaheb Paranjape and Mohanappa Somnathpurkar, etc.) of Marathwada Mukti Sangram Din. Prof Gore's speech was eloquent enough to visualize the history of Marathwada region and why this day needs to be remembered.

ACADEMIC ACTIVITIES

COLLOQUIY : Dr Sangita Kasture's talk on "Energy and Environment" (21 May 2022)



Dr Kasture, Department of Biotechnology, Ministry of Science and Technology, Govt. of India, took a session on the topic "Energy and Environment". Her talk provided the information on various government activities in the field of energy, environment and sustainable development. It also included various government schemes, funding such as SEED fund, LEAP fund, AcE Fund, PCU, etc. for projects and startups in the field of Biotech and fields that are interdisciplinary in nature. She encompassed wide range of Biotech driven priorities focusing on how to connect five nectar elements "panchamrut" (wind, fire, water, space and earth) to deal with climate change challenges. All the participants especially MARJ students, research scholars must have benefited from her talk and made up their minds for their future endeavour.

A Two-Day Skill Development Workshop on 'High-Performance Liquid Chromatography & UV-Vis Diffuse Reflectance Spectroscopy' (01-02 July 2022)



A Two-Day Skill Development Workshop on 'High-Performance Liquid Chromatography & UV-Vis Diffuse Reflectance Spectroscopy' was organized on 01-02 July 2022 at ICT MARJ. 20 participants from various institutions registered for the workshop. Dr Manojkumar M Jadhao's welcome note included a brief introduction of ICT MARJ, courses offered and research facilities available at MARJ campus. His welcome note was followed by Dr Manoj B Gawande's encouragement to the participants to learn HPLC and UV-Vis Diffuse Reflectance Spectroscopy instrumentation and troubleshooting. In the end, Prof. Girish M Joshi thanked the participants for joining the workshop.

The webinar had two incredible talks on HPLC and UV-Vis Diffuse Reflectance Spectroscopy by Mr. Mataprasad (Application Chemist, Toshvin Analytical Pvt. Ltd.) and Dr Manojkumar Jadhao (Assistant Professor, ICT

MARJ). Mr Mataprasad's talk was on UV-Vis Spectrophotometer with integrated sphere for diffuse reflectance. He discussed the types of spectroscopy and models along with components required for spectrophotometer. His talk covered the importance of spectroscopy, the basic concept of atomic spectroscopy, energy levels and modes of sample testing on spectrophotometer. Dr Jadhao's talk included the history and the usage of HPLC in various domain. It also incorporated various components and accessories essential for HPLC. Dr Jadhao concluded his talk with the instrumentation and validation of HPLC.

The second session was the Demonstration of the instruments. Students were divided into groups so that some groups would be getting hands on training of UV-Vis DRS and the other groups on HPLC. Mr Mataprasad and Ms Pratibha Jadhav (Research Scholar Physics ICT MARJ) took care of demonstration and hands on training of UV-Vis

DRS whereas Mr Vishal Beldar (Research Scholar ICT MARJ) looked after the demonstration and hands on training of HPLC. This session included performing various experiments related to different domains; instrumentation and various assembly; discussion on the sample preparation, testing, formulation and calculations and troubleshooting of the instruments; and development methods and the data analysis; Dr Jadhao closed the two-day workshop with the concluding remarks. Encouragement from the

participants' feedback has been held high by the organizers for instance- Vipul Bharuka one of the participant suggested to arrange more workshops on other instruments such as Raman Spectroscopy, X-Ray Diffraction and many more.

Dr Manojkumar M Jadhao and Prof. Girish M Joshi and the research team (Ms Pratibha Jadhav, Mr Shankar Humbe, Ms Supriya Joshi, Ms Rushali Dudure and Mr Vishal Beldar) were the organizers of the workshop.

Induction cum Orientation Program for the M Tech Batch of 2022 Program



Institute of Chemical Technology welcomed the M Tech (Two Year Regular) Students of the Batch of 2022-2024. Induction cum Orientation was organized for them at Mumbai and Jalna Campus. They were introduced to both the campuses, the administration, the academic life, the teaching staff, and the State-of -the-Art research facilities and Laboratories at these campuses. ICT MARJ Director Prof Uday Annapure made

the new entrants aware of the vision and mission of the MARJ campus, welcomed them and gave an introductory speech whereas Deputy Director Dr Parag Nemade discussed the course structure, academics, and the functioning of different committees at MARJ Campus. On the other hand, Dr Manoj Gawande and Mr Sharad Lahoti provided the students with the valuable information on the research facilities and Laboratories, and the functioning and achievement of the placement cell at MARJ Campus. In the post lunch session, the new entrants interacted with the faculties, M tech students of previous batch, Research Scholars and also with the newly formed student council headed by General Secretary Aditya Deshpande. Dr Kapil Sagrolkar was the overall coordinator.

Research Projects and Grants

● Prof Joshi Fetched the First Patent to ICT MARJ Campus

Prof Joshi was instrumental to fetch the first grant to ICT Marathwada Campus Jalna. It is one of those great moments that helps MARJ Campus hold its head high.

Prof. Joshi with his group of inventors- Prof. R R Deshmukh (ICT Mumbai) and Shankar Humbe and Partibha Jadhav (Doctoral Research Scholars of Prof. Joshi)- obtained the grant of Indian Patent No.202121061383 on 24 August 2022. It was an excellent processing of admix



for obtaining desirable electrical properties of polymers. Furthermore, it is a remedy to hand of the technology transfer for polymer composite



industry. MARJ Director Uday Annapure, all the faculties, staff and students appreciated the efforts of Prof. Girish Joshi and his research group.

● Grant by Krishi I-Dal Pvt. Ltd.

Dr Manoj Gawande has received an industrial project grant by Krishi I-Dal Pvt. Ltd for the project titled “Scale Up the Synthesis of Metal Single Atom on Carbon Nitride Catalysts”. The

aim of the project is- designing and fabrication of advanced carbon nitride-based single atom catalysts for industrially important organic reactions. Congratulations to Dr Gawande and a heartfelt thanks to the Krishi I-Dal Pvt. Ltd management and their stakeholders for providing this wonderful opportunity and entrusting to ICT MARJ for the same.

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Prof Uday Annapure

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Dr Manoj Gawande

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Dr Saurav Raj

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Dr Srimanta Maji

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EXTENSION ACTIVITIES**Prof Uday Annapure****International Visit of Prof Uday Annapure to Fraunhofer IMM Germany**

ICT MARJ Director presented his collaborative project-work titled AUTONUTRI: a homeostasis health of crops cultivation using hydroponics aeroponics in IGST on the 12th Foundation Day celebration of Fraunhofer IMM Germany. This institute is one of the biggest technology-creating leader institutes in the world. Fraunhofer-IMM's key investigators in this collaboration are Dr. Thomas Klotzbucher, Dr. Rer. nat. Michael BaBler & Rainer Gransee. Apart from them, the institute at Mainz has been HiMedia's collaboration partner under the INDO GERMAN SCIENCE AND TECHNOLOGY CENTRE (IGSTC) funding agency along with the Institute of Chemical Technology (ICT), Mumbai. Collaborators-Professor Uday S. Annapure - Director ICT Jalna Campus, Dr. Vishal Warke, Director of HiMedia along with his associates Manish Raut; Business Head-Higronics, Dr. Girish B. Mahajan, Sr.VP-Microbiology.

**Invited Speaker**

1. He was an Invited Speaker at SGGGS College of Engineering (Autonomous) Vishnupuri, Nanded. His talk was on **“Cold Plasma and Emerging Non-Thermal Process at Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI)”**. It was sponsored by the DST and organized by Swami Ramanand Teerth Marathwada University (SRTMU) in collaboration with Shivaji University Kolhapur during 25-31 July 2022.
2. delivered a talk titled **“Cold Plasma Processing of Food”** at a workshop on **Recent Developments in Agro-Food Processing and Nutrition** organized by Department of Food Science and Technology, Shivaji University, Kolhapur during 12-13 August 2022.
3. delivered a talk titled **“Integrating Innovations with Cost-effectiveness for Competing Electromagnetic Energy Assisted Food Processing and Packaging Technologies”** at a workshop organized by Department of Food
- Process Engineering, National Institute of Technology Rourkela, Odisha during 22-26 August 2022.
4. was Invited Keynote Speaker For “Smart Protein: The Future of Food.” Virtual Workshop organised by DBT-ICT CEB, Institute of Chemical Technology Mumbai and Good Food Institute India.
5. presented Chief Guest Talk on **“Current Trends in Food & Drug Analysis: Emphasis on Forensic Prospective”** under the Scheme of Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI), An initiative by the Department of Science and Technology, India. The program is Organised by Institute of Chemical Technology, Mumbai (PMU). It will be hosted by National Forensic Sciences University, Gandhinagar.
6. Delivered an invited talk on **“Introduction to Extrusion Technology for Soy Based Extruded Foods”** at Regional Soy Food Workshop on Learn overview of extrusion



processing and application of extrusion technology in the procession of soy foods. In order to educate the industry representative in South Asia, United States Soyabean Export Council (USSEC) organised at Hotel Marriot, Kathmandu (Nepal).

- ✓ He was Director of Food Engineering and Food Technology, Food Biotechnology at 12th Interim Convocation ICT Mumbai.
- ✓ He was Member of Academic Audit of Raosaheb Patil Danve College of Pharmacy, D.pharm, B.Pharm, Badnapur.
- ✓ Professor Uday Annature has been selected for **Shri Somalal Vyas - SEA Innovation Award 2022 by The Solvent Extractors' Association of India**. It was 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".

Prof Girish Joshi Visited MIT Aurangabad (05 August 2022) and CITK, Assam (17 August 2022) as an Expert

Prof. Joshi visited MIT Aurangabad as an examiner for the Industry-in plant –project training. Students of different application-based-projects explored various industries such as Garware, BKT, Goodyear and various small and medium scale industries. Student were provided with the information to apply the techniques for material design, moulding and processing for variety of day-to-day applications. This visit was helpful to build the theory and applications jointly feasible for material applications. The faculties and the students of Polymer Department appreciated

the Prof. Joshi's efforts.

Prof. Joshi also conducted doctoral viva as an external examiner in the Department of Physics at Central Institute of Technology, Khokhrajar, Assam. First Physics doctorate was examined and declared at CITK by Prof. Joshi. It was a fruitful academic trip which explored the possibility of mutual exchange facilities and resources to build strong network between ICT MARJ and the Department of physics, CITK. There is a possibility for the joint events for the faculties and for the students in future.

Prof. Girish M. Joshi is the Guest Editor for "Material Today: Proceedings" and also for the Special Issue of the journal "Nanomaterials"

It is highly prestigious to share the expertise for international joint event organised by VIT-AP University and Indiana Purdu University, USA. Prof. Girish Joshi was nominated as a guest editor for **Material Today** Proceedings special edited for the **International conference on Advanced Nanomaterials and Applications (ICANA-2022)** jointly organised by VIT –AP University. India and Indiana University-Purdue University Indianapolis, USA. Latest upcoming

articles would be accepted by him for publication. Prof. Joshi is the guest editor for the special issue titled "**Preparation and Application of Polymer Nanocomposites**" of the journal titled "**Nanomaterials**" (ISSN 2079-4991, IF 5.719). This Special Issue focuses on interface and surface effects on polymer nanocomposites, the relevance of the polymer structure on the resulting properties, and their modification induced by external actuation.

Academic Technical Trip to Central Institute of Plastic and Engineering Technology Aurangabad (29 July 2022)



A group of Integrated M Tech (2019-2020) students with special subject on polymer science and technology exposed to the various technical activities, testing and production system at Central Institute of Plastic and Engineering Technology Aurangabad.

CIPET: CSTS, Aurangabad demonstrated the career avenues along with various employment-oriented skill development training programmes in the field of Plastic Processing/Injection Moulding/Extrusion/compression moulding/Tool Room and Design/Testing lab. Manager of CIPET, Aurangabad Mr Milind kumar Bharne had

introduced the CIPET branches and the courses offered there. Mr Shripad Kulkarni introduced the facilities available at CIPET regarding the plastic technology. The main objective of this visit was to complete two practical exams related to the compression moulding and injection moulding. Mr M Sethuraman, Assistant Technical Officer, CIPET, completed the practical exams along with other instruments including different moulds, milling machines, blow mouldings- stretch injection blow mould and electro discharge blow mould, blown film extrusion and extrusion blow mould.

It was a great and effective learning session for the students. Other faculty members from CIPET took great efforts to expose the ICT students to the domain of polymers and engineering technology through this short study visit. Students enjoyed this visit and are highly motivated by the interactive talks given by the trainers. Prof Girish Joshi coordinated this academic cum technical trip. He was accompanied by TARAs- Mr Shankar Humbe, Ms Namita Karna, Ms Pratibha Jadhav and Ms Savita Mane.

MOU ICT MARJ-Thapar University, Patiyala, Punjab (01 August 2022)

It was a memorable moment to sign an MOU with Thapar University, Patiala Punjab. This collaboration will be instrumental for the academic exchange, collaborative joint research projects, seminars, workshops, etc. between these prestigious institutes. The Department

of Chemical Engineering, Thapar University is excited to work with scientific contingent of ICT for value added research. Prof Joshi played crucial role in this initiative and it was supported by MARJ Director Prof. Uday Annature and Thapar University VC Prof. Rajeev Mehta.



IPT

Allotment of Industries (Batch 2020) IPT-3 (September to November 2022)

Student Name	Name of Industry
1. Abhilasha Pravin Shastri	RCF Thal Alibag
2. Aditya Vishram Desai	Abbott Labs Mumbai
3. Advait Ashok Mandlik	Indo Rama Synthetics Nagpur
4. Aiyshwaryalakshmi	Defense Institute of Physiology & Allied Sciences New Delhi
5. Ajaz Ahmed Khan	Chemvera Mumbai
6. Akhil Raveendran Nair	Akzo Nobel Mumbai
7. Amrut Umesh Chavan	RCF Ltd Chembur Mumbai
8. Amruta Bhanudas Phegade	Rupmani Chemicals MIDC Badlapur (East) Mumbai
9. Ananya Ashutosh Sathe	Rossari Biotech Ltd, Mumbai
10. Atharva Sagar Nilkanth	HPCL Mumbai
11. Deep Damodhar Sandikar	RB CFBP Labs Mumbai
12. Devansh Vipul Pathak	GHCL Sutrapada Dist Gir Somnath
13. Hridaay Purnesh Eppaturi	GHCL Sutrapada Dist Gir Somnath
14. Jyoti Dharmendra Soni	Hi Media Mumbai
15. Kabir Ravindra Raut	Garware Hitech Films Waluj
16. Khushwantsing Rajput	Alkyl Amines Mumbai
17. Km Ankita Singh	Home Project Under Dr Kundu
18. Mahesh Uttam Kshirsagar	Humanity Chemie Pharma Waluj
19. Prachi Gajanan Patil	RCF Thal Alibag
20. Pranjal Rajendra Ambhore	RCF Thal Alibag
21. Pruthvi Sandeep Marathe	HPCL Mumbai
22. Rohit Arun Pawar	CIPLA Rasayani Mumbai
23. Sanika Rajendra Raut	RCF Thal Alibag
24. Satkirti Nivratti Chame	RCF Thal Alibag
25. Shaikh Rehan Nazimuddin	RB CFBP Labs Mumbai
26. Sharjil Mazhar Khan	Snackibles Mumbai
27. Varun Ranjit Shastri	Indo Rama Synthetics Nagpur
28. Shubham Ankush Ghuge	Garware Hitech Films Waluj
29. Sudhanshu Sudhir Vyawahare	Divya SRJ Foods Jalna
30. Tejas Manoj Gorkar	Garware Hitech Films Waluj
31. Tejaswini Ganesh Giri	Humanity Chemie Pharma Waluj (IPCA Labs)
32. Vaishnavi Dadasaheb Bhutekar	RCF Thal Alibag
33. Varad Vinay Deshpande	RB CFBP Labs Mumbai
34. Vasudeo Ram Wange	RB CFBP Labs Mumbai
35. Vasudha Daulatrao Patil	Godawari Bio Refineries Ltd Sakarwadi
36. Garima Yogesh Thole	RCF Ltd Chembur Mumbai
37. Govind Prakash Adhe	Humanity Chemie Pharma Waluj
38. Kaustubh Ravindra Mene	Marico Ltd Jalgaon
39. Radhika Kisanrao Taur	RCF Ltd Chembur
40. Narsing Kalyan Kumbhar	Humanity Chemie Pharma Waluj
41. Vaishnavi Tulsidas Gajare	IPCA Labs Waluj
42. Patil Durvesh Vilas	BASF Ltd Dahej Gujarat

**Allotment of Industries (I M Tech Batch of 2021) IPT-1 (September to October 2022)**

Student Name	Name of Industry
1. Abhay Ghule	Kalika Steel Jalna
2. Abhishek Sarang	Reva Process Technologies Pune
3. Aditi Pashte	S4S Technolgies Aurangabad
4. Aditya Bora	Reva Process Technologies Pune
5. Aditya Mundhe	Kalika Steel Jalna
6. Advait Chavan	Icon Steels Jalna
7. Anish Vaze	Concept /Vinodrai Engg Jalna
8. Anish Gore	Dyna Filters Pvt Ltd Pune
9. Anushka Tonde	Dairy Niphad Nashik
10. Anwita Metre	S4S Technolgies Aurangabad
11. Atharva Karthik Chandrashekhar	Guj.Alkalies & Chemicals Ltd Vadodara
12. Chirag Kothawale	Bhagyalaxmi Rolling Mills Jalna
13. Chirayu Kothawale	Icon Steels Jalna
14. Dev Patra	Metarolls Jalna
15. Dhiraj Damahe	Benito Water Gondia
16. Garima Khotkar	Vinodrai Engg Jalna
17. Harshal Kumbhar	Bhagyalaxmi Rolling Mills Jalna
18. Harshank Chaudhari	Bhagyalaxmi Rolling Mills Jalna
19. Jai Vengurlekar	RB CFBP LAB SNTD Mumbai
20. Kashish Bondade	RSA Industries Hingna MIDC Nagpur
21. Mohammed Rayyan Abdul Rasheed Shaikh	Metalman Auto Comp Waluj
22. Mrunal Nannaware	S4S Technolgies Aurangabad
23. Nandini Jain	Arhaa Foods Nashik
24. Prathamesh Joshi	Khandesh Roller Flour Mill Jalgaon
25. Pratik Mali	Roopam Steels Jalna
26. Pratik Mahajan	Roopam Steels Jalna
27. Rahul Waghmare	Roopam Steels Jalna
28. Rohit Pansare	RB CFBP LAB SNTD Mumbai
29. Rutuj Runwal	Metarolls Jalna
30. Sahil Sharma	RCF Ltd Chembur Mumbai
31. Sakshi Kataruka	Savera Pharma Aurangabad
32. Sania Zarkar	Ray Chem Ltd Vasai Mumbai
33. Sanket Maurya	Metarolls Jalna
34. Sarthak Gajre	Kalika Steel Jalna
35. Shatakshi Joshi	Savera Pharma Aurangabad
36. Shikhar Gupta	RCF Ltd Chembur Mumbai
37. Shrawani Pangarkar	Vinodrai Engg Jalna
38. Shreya Bhardwaj	RCF Ltd Chembur Mumbai
39. Shruti Dighe	Humanity Chemie Pharma P Ltd Aurangabad
40. Sujal Solav	Laksha Chem Organics Amravati
41. Swapnil Lokare	VSSSK Ltd Gangamai Nagar
42. Swapnil Garule	Vinodrai Engg Jalna
43. Tanishq Prasad	Kalash Seeds Jalna
44. Tanmay Zade	ACC Cements, Sindola Mines Chandrapur
45. Vaibhavi Kadam	RB CFBP LAB SNTD Mumbai
46. Vasudha Patil	Humanity Chemie Pharma P Ltd Aurangabad
47. Vijendra Awale	Chandrapur STPP Chandrapur

SOCIO-CULTURAL ACTIVITIES

Mind Matters: Activities for Mental Health of MARJ Individuals

We all have come at the end point of the Covid 19 era. This two and half years have affected everyone (in)directly physically and mentally. To neutralize its effect and keep the ICT MARJ folks (Students and Staff) motivated, mentally healthy and understand their state of mind, we have appointed one counsellor, conducted psychometric evaluation and organized a couple of pep talks. They are-

● ICT MARJ Counsellor Ms Savita Satpute

ICT Jalna has appointed Ms Savita Satpute, founder of Sarvaprit Counselling Center, Aurangabad, as the counsellor in the month of July 2022. Ms Satpute has been into this field for over 20 years. Her expertise lies in mediation, spirituality, life nitration, personal counselling, etc. She has given two talks for the I M Tech Batch of 2020 & 2021 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 worksheets to carry out in future which includes general and personal sessions, a 4 hour Akashtattva meditation for students and staff and the like.

● Psychometric Evaluation

Mr Vivek Phadake and Mayuresh Joshi from the Organisation for Graphology and Graphotherapy, Pune have conducted psychometric evaluation for the Research Scholars (TARA), Two-Year M Tech Students of Food Pharma and Polymer (Batch of 2021-2023 & 2022-2024), integrated M Tech (2019 Batch) and the faculty. It was scheduled from 10.00 am to 05.30 pm on 23 September 2022. The evaluation included various personality related questions, handwriting sample, etc. The evaluation helped the students and the institute to locate the areas of improvement and accordingly the customized personal and general counselling sessions will be arranged too.

● Talks on “Lifestyle Boosters” and “De-Addiction”



A couple of lectures were arranged for the students. One of them was by Mr Rajeev Panse, UAA BOG representative of UDCT UAA, Mumbai on **“Lifestyle Boosters- For Enhancing Quality of Life”**.

The second talk was on **“De-Addiction: Alcohol and Drug Addiction”** on 20 July 2022 was arranged to promote awareness among the students about the hazardous effect of addiction on our health, family, and society, ICT Mumbai Marathwada Campus Jalna. The lecture was delivered by a doctor cum social worker Dr Prakash Ambekar,



MBBS, MD, neuropsychiatrist. He is the founding president of Manas Foundation, Jalna, which is dedicated to working on de-addiction and farmer suicides, and mental health awareness. He discussed with ICT Jalna students about their habits and addiction to specific things. He also emphasized reducing mobile usage as it also emerges as one of the emerging addictions resulting in many psychological disorders and mental stress. Dr Ambekar has agreed to collaborate with ICT Jalna to spread awareness about addiction among students and society at large.

Celebration of Shiv Swarajya Din (06 June 2022)



We celebrated Shiv Swarajya Din on 06 June 2022 to remember Chhatrapati Shivaji Maharaja's coronation held on the same day in 1674. The celebration started with the lighting the lamp, garlanding Chhatrapati's photo, and Maharashtra Geet. It was followed by a series of events like welcome address by deputy director Dr Parag Nemade, chief guest address by Adv Mahesh Muthal, speeches and singing by ICT MARJ students, prize distribution and a film on the life of Chhatrapati Shivaji Maharaja.

Dr Nemade welcomed the guest Adv. Muthal, Bombay High Court (Aurangabad Bench), all the faculty members and the students on this occasion. His welcome address included a brief introduction of Chhatrapati's life and the lessons everyone should learn from it. Adv Muthal enthralled the gathering with his excellent oratory skills and the knowledge he has on the life Chhatrapati. His comparison of Chhatrapati's astute administration, excellent leadership, respect for women, his dedication to work for the people with today's administration, leadership and working of the political leaders. His talk ended with the oath to lead the life the way Chhatrapati's did (for the people).

The aura and image of Chhatrapati is so great, so adorable, and so inspirational that everyone from the audience could have spoken on the life of Chhatrapati. However, due to the time constraint only a few students were allowed to share their thoughts. Their speeches and song were so energetic that everyone in auditorium got the goosebumps. The program also appreciated the participants and the winners of the Drawing Competition. Shruti Dighe's (first year student of Integrated M Tech) drawing adjusted as the first whereas Deblina Bhowmik's second. They were encouraged with the certificates so that they would participate in such competition in future and others would feel inspired to participate in such events too. The cherry on the cake was the film "Sher Shivray" which was shown in the post lunch session. It portrayed the "the battle between Shivaji Maharaja and Afzal Khan and how Shivaji Maharaja's cleverness helped to win over the boastful and egotistic Afzal.

Overall, the day was filled with food for the mind (intellectual discussions, speeches and songs), heart (drawing competition, movie, Maharashtra Geet, rangoli, and the overall ambience) and body (in the form of refreshment).

Events organized under Azadi Ka Amrit Mahotsav (May-June 2022)



Institute of Chemical Technology (Mumbai) Marathwada Campus Jalna started taking part in the govt of India initiative “Azadi Ka Amrit Mahotsav”. Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of independence and the glorious history of its people, culture and achievements. The events organized are-

■ An Inspirational Talk on “Lifestyle Boosters: For Enhancing Quality of Life” (04 May 2022)

An inspirational talk on “Lifestyle Boosters- For Enhancing Quality of Life” was organized on 04 May 2022. Mr Rajeev Panse was the speaker. He is a UAA BOG representative of UDCT UAA, Mumbai. His talk was for students, faculty, and the support staff. Overall, the talk, the way he spoke and explained the complex aspects of life easily was excellent and it energised everyone present in the Auditorium.

He disseminated the information on lifestyle formula: $4R + 2Q + 1W + S$ (R for regular

exercise, regular nutrition, regular meditation, and regular sleep; Q for Quality time for family and friends, and quality time for hobby, whereas W was for workload with optimum stress and S for Sewa i.e., social service. His talk revolves around the Japanese term “ikigai” meaning positive start of the day. The inspirational talk ended, which we wanted never to, with the focus in life to be given on happiness and contentment. 130 participants attended the lecture and got benefitted.

■ Lecture on “Constitutional Rights and Duties” (06 June 2022)

Adv. Mahesh Muthal, Bombay High Court Aurangabad Bench, delivered a lecture on “Constitutional Rights and Duties: the Constitutional Rights for every Citizen and Their Duties towards the Nation.” on 06 June 2022. He started from the very basic. For instance- the basic rights of an Indian citizen and their duties to keep the peace and integrity in the country which are applicable to all the citizens irrespective of caste, class, gender, etc. Then he threw light on Six fundamental rights (right to equality, right to freedom, right against exploitation, right to freedom of religion, cultural and educational rights, and right to constitutional remedies.)

and eleven fundamental duties (such as- abide by the constitution and respect national flag & national anthem, follow ideals of the freedom struggle, protect sovereignty & integrity of India, defend the country and render national services when called upon, spirit of common brotherhood, preserve composite culture, preserve natural environment, develop scientific temper, safeguard public property, strive for excellence, duty for all parents/guardians to send their children in the age group of 6-14 years to school).

He concluded the informative talk with an oath to be abided by these rights and follow the duties. 86 participants attended the talk.

■ Celebration of International Yoga (21 June 2022)



Institute of Chemical Technology, Marathwada Campus Jalna celebrated international Yoga Day on 21 June 2022. Renowned Yoga Prashikshak Mr Suresh Singh Parma, member and trained of Yog Bhumi Parivar, was the trainer cum guest of honour for the day. Deputy Director Dr Parag Nemade offered a welcome Bouquet and a small token of gratitude in the form of dry fruit box to the trainer cum guest. Mr Parmar took the session for about two hours starting from 8.30 am went till 10.30.

He gave the background of the International Yoga Diwas and its significance for every individual. Afterwards, he engaged us with the various yoga exercises, practices, and meditation. The best part of the day was we were engaged in the yoga asanas by one of the 2020 batch student Abhilasha Shashtri. She engaged till the arrival of the guests. Around 100 participants which includes Deputy Director, faculty staff, support staff and the students. Dr Kapil Sagrolikar was the coordinator of the event.

■ One Day Workshop on Intellectual Property Rights (IPR): Patents and Design Filing (23 June 2022)

One-day workshop on “Intellectual Property Rights (IPR): Patents and Design filing” on 23 June 2022 was organised at ICT MARJ. It was conducted in association with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Government of India, Nagpur (Under National Intellectual Property Awareness Mission). Mrs. Pooja Vishal Maulikar, Examiner of Patents and Designs, Central Government Office under the Patent Office, Ministry of Commerce & Industry, RGNIIPM Nagpur. She gave an overview of the IPR Offices, Head Office, and other pertinent information as far as IPR in India.

She simplified the complex things as far as IPR is concerned. For instance, the basic information

like- Exclusive Right, Territorial Right and Licensable Right. For instance- the difference between discovery and invention. For instance- the example of pin, paper clip, Ballpoint pen and the most famous patented invention. Apart from this, she also shared the information on different things that come under IP- e.g., patents, designs, trademarks, GI, copyrights, etc. The workshop encompassed the vast information of IP starting from what IP, IPR filing (electronic and Physical), cost of filing, filing procedure, etc.

The workshop turned out to be very effective and informative for the students. All the 135 participants must have been benefitted from the workshop. Dr Kapil Sagrolikar was the coordinator of the event.



Celebration of Independence Week: Competitions, Har Ghar Tiranga, and Selfie with Tiranga (08-15 August 2022)

Institute of Chemical Technology Marathwada Campus Jalna participated in the Azadi Ka Amrit Mahotsav (AKAM) to mark the 75 Years of Independence, an initiative of Govt. of India. We celebrated Independence Week (10-15 August 2022) and organized various competitions for the students. Elocution (Topic- "75 Years of Independence and Chemical Technology: Past, Present and Future") and Singing competition ("patriotic song") were held on 08 August 2022. Debate Competition (Topic- "The Impact of the Use of Chemical in Everyday Life: Pros and Cons") was held on 10 August whereas the entries for the Essay competition (Topic- "75 Years of Independence: The Advancement of Chemical Technology") and Drawing competition (Themes- 1. Portrayal of Women Freedom Fighters 2. Some event related to Freedom Struggle (e.g., Jallianwala Bag) 3. Tiranga with Soldiers) were received till 12 August 2022. Overall, 85 students participated in these competitions and the best two were selected as winners for each competition. ICT

MARJ Director Prof Uday Annapure gave away the certificates and mementos to the winners on 15 August 2022 and all the participants received the participation certificates too.

Along with it, ICT MARJ encouraged the students, support staff and faculties to participate in "Har Ghar Tiranga" event. All of them responded positively and have unfurled National Flag for three days- namely on 13, 14 and 15 of August 2022. The celebration of Independence Week concluded with "Selfie with Tiranga" event on 15 August 2022. ICT Director Prof Uday Annapure, Deputy Director Dr Parag Nemade, Associate Dean (Industry) Sharad Lahoti Sir, faculty members, support staff and the students enthusiastically participated in this event.

The "Celebration Independence of Week" was organized by Dr Kapil Sagrolikar (Nodal Officer, AICTE), Dr Somen Mondal (Coordinator, Cultural Committee) and Dr Nagsen Meshram (Co-coordinator, Cultural Committee).

Dasara Celebration at ICT MARJ (04 October 2022)

It was a memorable day in the history of ICT MARJ. The topmost ladders of ICT- VC Prof Aniruddha Pandit, and Registrar Prof R R Deshmukh and the Dean Off Campus Prof S T Mhaske along with Dr Deepak Pinjari from the Institute of Chemical Technology Mumbai graced the occasion of Dasara Celebration on 04 October 2022 at ICT MARJ. The celebration started with the chief guest Prof Aniruddha Pandit (Vice Chancellor, ICT), Prof Rajendra Deshmukh (Registrar, ICT) and Prof Uday Annapure (Director, ICT MARJ) offering flowers and prayers to the Rasayan Devika. Thereafter all the dignitaries along with MARJ staff visited the Laboratories and offered the flowers to the machines and instruments.

The central and the most attractive part of the program was Mahapooja at the Central Hall, first floor of new building. The chief guest was instrumental in carrying the worship ritual which included flower offering, chanting of mantra, aarti and prasad offering. All the labs were decorated by Master's (Integrated and regular Two Year M Tech) and PhD students. It is noteworthy to mention that research scholar Shankar Humbe led the team to design and decorate the beautiful temple of goddess Saraswati with the leaves of the coconut tree and the like. Dr Kapil Sagrolikar was the overall coordinator whereas all the faculties, research scholars and students and non-teaching staff were the pillars of the success of the program.

Celebration of Teachers Day at ICT MARJ (05 September 2022)

Institute of Chemical Technology Marathwada Campus Jalna celebrated Teachers Day on 05 September 2022. The program included speech by Students, Deputy Director and the Director. The program started with the ICT ritual of lighting the lamp and reciting Vidyapeet Geet. Students' poems, speeches and other gestures show their deep respect for the ICT Faculty; their longing to remain a part of it whole life; how ICT faculty inspire them to aspire for bigger and never settle for the less. The students have also shown their love for the ICT teachers with a small token of gratitude- a sapling.

The director of the institute Prof Uday Annapure shared his school day memories, the indelible impact various teachers had on his life and the way they helped shape his life and reach to the level of director of a reputed institute. Deputy director Dr Parag Nemade captured the importance of Teachers Day, what roles teachers and the students need to play to keep the field as revered as it has been. The celebration also included the screening of the film "Super 30". The celebration concluded with the sumptuous refreshment and the happy faces.

ICT MARJ Students Celebrated Guru Pournima as a Tribute to "Guru Shishya Parampara" (13 July 2022)



We celebrated Guru Poornima with a traditional glory on 13 July 2022. It was a student organized

program. They were in traditional attire, decorated the auditorium, sang the songs, up with the cultural events such as on classical songs, Bharatnatyam, singing of Raga, recitation of poems, classical Bharatnatyam dance on western songs, and the like. They felicitated the ICT faculties for the kind of work, toiling and dedication they do to make the students prosper in their life. ICT MARJ Director Prof Uday Annapure shared his thoughts on Guru Pournima, the need to go back to the "guru-shishya parampara" for the overall personality development and the like. Overall, the efforts put by all the ICT MARJ students to successfully organize the event is noteworthy.

150th Satyashodhak Anniversary Year Celebration



Satyashodhak Samaj (Truth Seekers' Society) was a social reform society founded by Jyotiba Phule in Pune, Maharashtra, on 24 September 1873.

The Samaj advocated education for the underprivileged, Dalit and women. It vouched for the social rights and political access for underprivileged groups- focused on women, peasants, and Dalit in Maharashtra. His wife Savitribai Phule was the head of women's section of the society.

ICT MARJ decided to celebrate the 150th anniversary of Satyashodhak Samaj for one year and it has organized-

1. Writing of Proverb/Slogans of Mahatma Phule

and pasting the same in classrooms and in Library 24 September 2022.

2. Reading of Excerpts from Mahatma Jyotirao Phule's Writing on 15 October 2022.

On this occasion ICT MARJ Director Prof Uday Annapure shared his thoughts on Mahatma Phule's life, the points that make him Mahatma, his efforts through Satyashodhak Samaj and his wife Savitribai's indelible efforts in the field of education for women in Maharashtra.

The yearlong schedule includes expert lectures on Satyashodhak Samaj, Powada Singing by students, staging of the play "Triratna" by the students, debate, elocution and drawing competition.

Celebration of Birth Anniversary of Dr A P J Abdul Kalam as Vaachan Prerana Din (15 October 2022)



Institute of Chemical Technology (Mumbai) Marathwada Campus Jalna celebrated the birth anniversary of former President of India Dr A P J Abdul Kalam on 15 October 2022. 15 October is celebrated as Reading Day to promote reading as a tribute to former President of India Dr A P J Abdul Kalam's birth anniversary. To promote reading habit among the students and sensitize them about reading, ICT Jalna organized a day long program for the students.

The day started with Reading at Library. Faculty,

Non-Teaching Staff, Research Scholars and M Tech Students read in the library. In the afternoon, we took the pledge to make the reading as an everyday habit. It followed by Panel wise Reading Session. It included Dr Kalam and Mahatma Phule's writings in English and Marathi. There were four panels. The panel 1 included Director, Deputy director and Associate Dean Industry. Panel 2 was of teaching staff whereas Panel 3 & panel 4 were of Non-Teaching and Students (Research Scholars and M Tech Students). The excerpts were read in

such a way that from their reading the audience deciphered the meaning and they did not need explanation of the same.

The students of ICT MARJ wrote proverbs and quotations related Reading, of Dr APJ Abdul Kalam. They have been pasted on cardboards and put up on the walls of Library, verandah, and corridors of the ICT MARJ Building.

Director of the institute addressed the gathering and conveyed them the importance of reading in today's rapid, instant, and readymade world and

stay away from the knowledge gaining from social media. He urged everyone to keep reading: for pleasure, for knowledge, and for study purpose. He is of opinion that reading is more than just reading. It is not a line-by-line reading but reading between the lines. In the end, he said that at least we should read 1-2 pages every day in leisure time. (Stories, short stories, novels, poems, fiction and non-fiction etc.,)

Overall, the day was fruitful, well enjoyed and worth spent.

Celebration of Sardar Vallabhbhai Patel's Birth Anniversary as (31 October 2022)



Institute of Chemical Technology (Mumbai) Marathwada Campus Jalna celebrated birth anniversary of Sardar Vallabhbhai Patel as on 31 October 2022 under the aegis of Azadi ka Amrit Mahotsav (AKAM). The celebration included pledge, unity run and motorbike rally. Director of the institute Prof Uday Annapure read the pledge and all the teaching staff, non-teaching staff, research scholars and M Tech students repeated the pledge. Prof Annapure shared his thought on the unity, Sardar Vallabhbhai Patel's role in uniting and merging the different princely states such as Nizam's Hyderabad state. He also reiterated that it is the responsibility of every individual present in the audience to work proactively to sustain the unity in India. He concluded by urging everyone to follow the pledge throughout their life.

Students actively participated in Unity Run after the pledge and a short pep talk by the director. The enthusiastic students with the slogans on the Unity and in the name of Sardar Vallabhbhai Patel participated in the motorbike rally. Overall, it was



a day worth remembering both Sardar Vallabhbhai Patel and his contribution towards bringing all the princely and other states under one roof i.e. India and building a strong united nation.

STUDENT CORNER

Campus Placement

Institute of Chemical Technology (Mumbai) Marathwada Campus, Jalna proudly announces that following Two Year M Tech students of 2020-2022 Batch have been placed at various industries. They are-

1. Vaidehi Shukla, Pooja Mulge, Jaheer and Mahpara are placed as "Research Associate" at Mordor Intelligence.
2. Suraj Kolte and Akshay Chavan AKSHAY CHAVAN are placed as "Production Trainee" and "Production Executive" at Mapro Foods Pvt. Ltd. Respectively.
3. Rajshree Shinde is placed at Biocon.
4. Shraddha Kamble is placed as "Chemical Compliance Associate" at Kimberly Clark India Pvt. Ltd.
5. Krishna Alnure got consultancy agreement with Science for Society Techno Services Pvt. Ltd. For "Research & Development" project.



6. Pooja Kikkara is placed as "Trainee- Analytical Development" at Par Formulations Pvt Ltd.
7. Shilpa Sonawane is placed as "Trainee- Analytical Development" at Par Formulations Pvt Ltd.

We wish them all a productive, empowering future ahead. May all the success be with them! Institute of Chemical Technology Marathwada Campus Jalna is an organization with a total commitment to the quality and excellence in academic pursuits. We groom our students, not only in the field of discipline but also broaden their mindset and create a positive attitude. Thus, equipping them with all the qualities makes them an asset to whichever institute/organization they may join.

STUDENT PUBLICATION

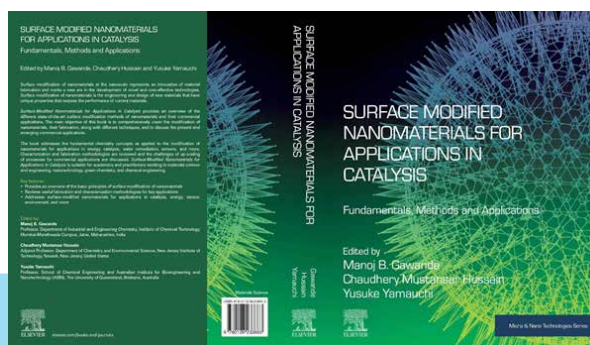
1. Indrajeet R. Warkad (PhD Student) published a research article entitled, "Facile synthesis of nanostructured TiO₂-SiO₂ powder for selective photocatalytic oxidation of alcohols to carbonyl compounds", in *Molecular Catalysis* an Elsevier journal under the guidance of Prof. Manoj B. Gawande. (*Molecular Catalysis* 2022, 530, 112566)

Please visit the below link for full access of this paper- <https://www.mdpi.com/2073-4344/12/1/94/htm>

2. Third Year I- M Tech Students Harsh Jaiswal, Omkar Muley, Omkar Shetye, Sakshi Tak, and Dr Sameena Naaz Malik published an article (research and review) titled "Emerging technologies for hydrogen production from wastewater" in the journal International Journal of Hydrogen Energy.
3. Sarang Shindalkar (3rd year I-M Tech) Shankar S. Humbe (PhD Scholar), Dr. Girish M. Joshi and Dr. C. Ramesh Kumar published an article (research and review) titled "Engineering Properties of Teflon derived blends and composites: A Review" in the journal Polymer-Plastic Technology and Materials.
4. Sarang Shindalkar (3rd year I-M Tech)

published an article titled "Tribological Issues in Engineering Teflon" published in the journal Modern Plastic India.

5. Sarang Shindalkar (3rd year I-M Tech) published a journal Article (Research and Review) titled "Application of Fluoropolymer as Food Processing and Packaging Material" in the journal Modern Plastic India.
6. Sarang Shindalkar and Sarika Kulkarni (Integrated M Tech 2019 Batch) published a research paper in CSCS - 2022 conference under the guidance of Dr Girish Joshi
7. Balasubramnian Pillai (M Tech Polymer-Roll No J21POL602) published a technical article titled "Triboelectric Nanogenerators from Reused Plastic" in the journal Modern Plastic India. <http://digital.emeraldgroup.com/m5/3471405/Modern-Plastics-India/Vol-23-%7C-Issue-03-%7C-April-2022-%7C-Mumbai#page/66/1>.



ACHIEVEMENT

Shankar S. Humbe won Second Rank at a Training Program on "Structural & Morphological Characterization Using Sophisticated Instruments"

Shankar Humbe and Pratibha Jadhav, Research Scholars of Prof. Girish Joshi, attended 7 Days (12-18 September 2022) Training Program on "Structural & Morphological Characterization Using Sophisticated Instruments". It was organized by Sophisticated Analytical Instrumentation Facility (SAIF-DST), Shivaji University, Kolhapur under the Scheme STUTI, supported by Department of Science and Technology, Ministry of S&T, GoI, New Delhi. Quiz competition based on Instrumentations and basics of Physics, has been taken and Mr. Shankar S. Humbe secured the second rank.

➤ Aiyshwaryalakshmi, has been learning Bharatnatyam for the past 12 years at the Kala Madhuri Institute of Performing Arts, Delhi, under Guru Kalasree Kalamandalam Radha Marar. She is ranked One in All India Level in the Seventh Year Examination in Bharatnatyam conducted by Bhangiya Sangeet Parishad, West Bengal. She has secured the First Division with Distinction in both Theory and Practical Examinations.

➤ Krutarth Pandit (4th year I-M Tech) received International / National Internship Programme

by an Academic Institute or Government Body, Queens University Belfast International Internship, Belfast United Kingdom.

➤ Omkar Shetye (3rd year I-M Tech) is granted with a Design Patent on topic Capacitive Deionization (CDI). He has working on this topic since his research internship (IPT-4) at VJTI, Mumbai, under guidance of Dr. Pankaj Pardeshi. Through this design he has tried to increase the desalinated water production from saline water.

➤ Sarang Shindalkar (3rd year I-M Tech) presented a paper titled "Engineering Properties of Teflon derived blends and composites: A review" at the inter(national) Current Scenario in Chemical Sciences (CSCS- 2022), on 16 September 2022, at Moolji Jaitha College, Jalgaon.

➤ Sarika Kulkarni (3rd year I-M Tech) presented a paper titled "Emerging Teflon composites blends for food Processing and packaging application" at the inter(national) conference Current Scenario in Chemical Sciences (CSCS- 2022), on 16 September 2022, at Moolji Jaitha College, Jalgaon. **She also won the second prize for best oral presentation.**



ZP Primary School Mahakala students also actively participated in the programme. Students demonstrated how to tests to check the adulteration in food at home.

असे असेल संकुल : प्रशासकीय इमारत, चक्रवर्त्य, क्लासरूम, प्रयोगशाळा, संगणक केंद्र, सेमिनार हॉल, ग्रंथालय, मुलांसाठी आणि मुलींसाठी स्वतंत्र वसतिगृह अशा

<p>न्यूलर संकुप : या परिसरत इस्तराजो होण्याची सुमनवार आणली सुमनवार विजेणारी याचा वापर, प्रयुक्ती उंची वेव्हरील हा वापर आणि वापरात वापरात किंवा जाणवर आहे. ते केला जाणवर आहे. कधी अशाप्रमाणे कार्य- ने होत असेल तर ते होत नाहीत.</p>	<p>आयसीटी जलन काय कारण : काय न्यूलर कॅम्पस वापर घेणुन आयसीटी जलन न्याय १५ फेब्रुवारी यावेळी प्रत्यक्ष फिरविले कारण आहे. यातून २० मेगावॅट तेथे निगमा होयल. यापैकी १० मेगावॅट रोखेल आयकर आहे २८ मेगावॅट महाविशारणल दिली जाईल. सडकांपासून निर्यात कारण यासाठी स्वतः काय फिरविले केला जाणवर आहे</p>
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Mahapara Khanar

Best wishes for your future endeavours!!!
ICT Mumbai's Marathwada Campus, Jalna

दानवेंनी राज्याच्या उच्च व तंत्रशिक्षण विभागाशी संपर्क करू दिल्यास मोठा मदत होईल, असे सांगितले.

यावेळी स्थानिक संचालक उदय अन्नपुरे, प्रा. राजेंद्र देशमुख यांना उपस्थिती होती. अन्नपुरे यांना प्रास्ताविक केले.

कॉलेज सुरू करण्याची मागणी केली होती. त्या पुढीलच मी मुख्याध्यापक झाले. या बाबतीत पाठपुरावा केला. त्यांनी तात्काळ त्यामंजुरी दिली. २०१८ साली जालना जिल्ह्यात आर्यसंती कॉलेजची सुरुवात झाली.

यावेदी कार्यक्रमांचा कॉलेजच्या मासिकात प्रसस्तिकात जालना येथील अर्यसंती कॉलेजचे वरिष्ठ शिष्य हरीश अग्रवाल यांनी

गेल्या चार वर्षात कॉलेजचे केलेल्या प्रगतच आढावा वर्यांसमोर मांडला त्यानंतर आर्यसंतीचे कुटुंबिय आर. पी. पंडित यांनी येणाऱ्या काळात आर्यसंती कॉलेजचे जेणे करणे काय बदल करणाय येणार आहेत, याची माहिती सनाना दिली. कार्यक्रमात उपस्थित प्राध्यापक, विद्यार्थी यांनी मोठ्या संख्येने उपस्थिती दिली.

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गेल्या चार वर्षात कॉलेजचे केलेल्या प्रगतच आढावा वर्यांसमोर मांडला त्यानंतर आर्यसंतीचे कुटुंबिय आर. पी. पंडित यांनी येणाऱ्या काळात आर्यसंती कॉलेजचे जेणे करणे काय बदल करणाय येणार आहेत, याची माहिती सनाना दिली. कार्यक्रमात उपस्थित प्राध्यापक, विद्यार्थी यांनी मोठ्या संख्येने उपस्थिती दिली.

ICT-MARJ announced 2nd International Conference (NANO-SA-2023)



2nd International Conference on

"NanoMaterials and Sustainable Applications"

NANO-SA-2023



Institute of Chemical Technology, Mumbai Marathwada Campus, Jalna

January 10th -11th, 2023 || Aurangabad, MH, India

We would like to announce the Second International Conference on **"Nanomaterials and Sustainable Applications"**, organized by the Institute of Chemical Technology, Mumbai-Marathwada Campus, Jalna (ICT-MARJ), India, on the January 10-11, 2023, at Rama International Hotel, Aurangabad.

Invitation:

Dear students, faculties and researcher, we would like to invite you to attend or present your work in two days 2nd international conference NANO-SA-2023 at Rama International, Aurangabad by in person meet. Students, who are pursuing UG/PG, research scholar, postdoc, industrial researchers in catalysis, nano-catalysis, material science, chemical, organic synthesis, sustainable technology, pharmaceuticals field can benefit with these talks.

Registration:

Early Bird Registration Last Date: **December 15, 2022**

Registration Link: <https://forms.gle/z2TdvvX3UWpMD11v9>

Abstract Submission Last Date: **December 15, 2022**

Abstract Submission Link : <https://forms.gle/FNXUdAgkQTSYHfCw6>

Awards: There are several awards for the poster presentations including American Chemical Society (ACS), and Royal Chemistry Society (RSC).

Registration Fees:

Category	Conference Fees	Due Date
Students (PhD, and Graduates)	INR.3500/-	30th November 2022
Postdocs	INR.4500/-	
Faculty	INR.6000/-	
Industries	INR.8000/-	
International Student/Faculty/Industry	USD. 300/ 500/ 600/-	

For complete event details please visit our webpage: www.ictsusnanomaterials.com