



Prof A B Pandit
Vice Chancellor



Streamlining minds

मागजल

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Academic Year 2019-20



Prof Smita Lele
Director, ICT Jalna

MARJ Newsletter



▲ Celebration of Yoga Day at Jalna Campus

▼ e-Convocation at ICT Mumbai

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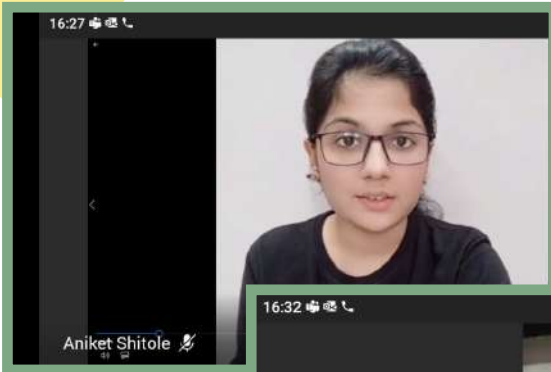
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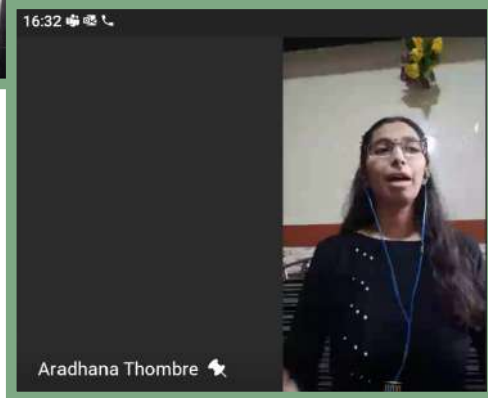
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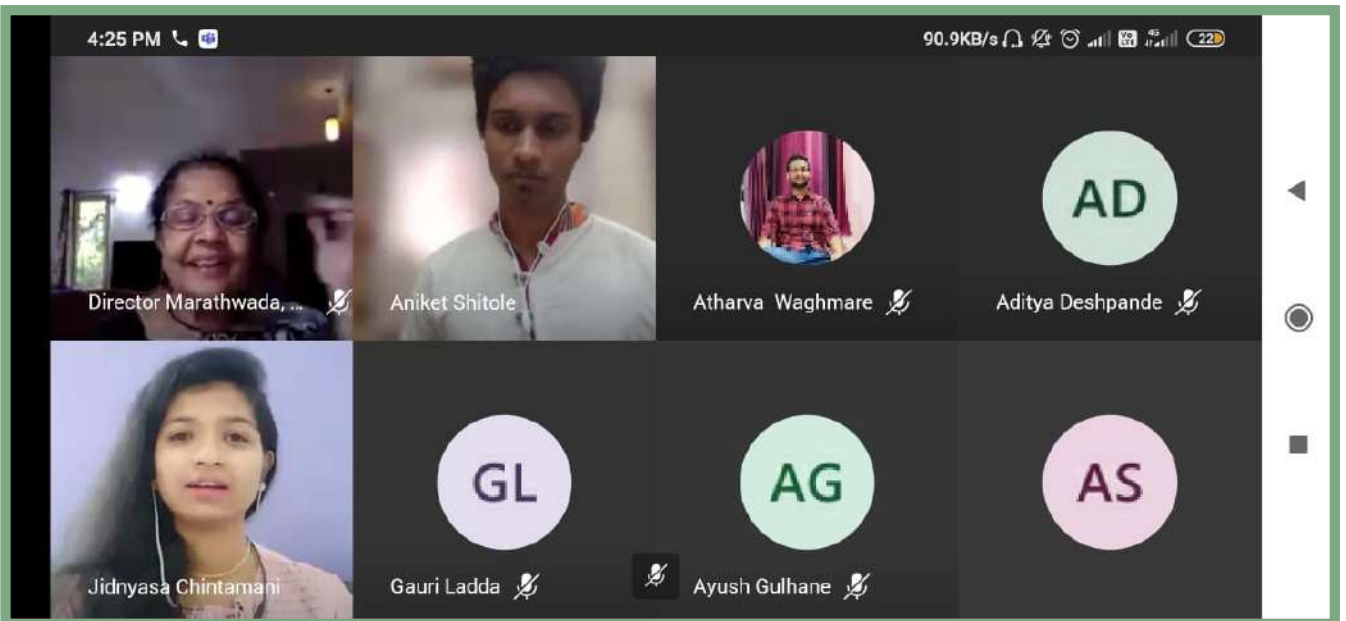
e-Teacher's Day Celebration



Students' Participation



Teachers' Participation



**Affectionate Message
from MARJ Director**

My very best wishes to all of you and let us all pray together to the almighty that soon this pandemic should be under control and hopefully in January 2021 all of us will be back to our Jalna Campus physically.



Dear Students, Parents, Well-Wishers and Alumni!

I am very happy to present to you this last issue of ICT Marathwada Campus Jalna Newsletter-Margjal. It has been a tough time across the world due to the Pandemic of COVID-19. But I feel very happy to see that all the teachers, support staff and students have been so cooperative and enthusiastic that we were able to start the last trimester (i.e. T3 & T6) for i-M. Tech Batches of 2018-2019 and 2019-2020 from May 2020. From September 2020 we are starting the third new academic year and we hope to admit the next batch of i-M. Tech very soon.

MARJ campus has been active as always but the method and mode of working has changed. We did have four e-pep talks, we had a counselling session, and many more activities during last four months' time. At ICT Mumbai also first of its kind Annual Day as well as 9th Convocation were also celebrated in online format.

At MARJ we successfully conducted the grade improvement e-Exam for both the i-M.Tech. batches and a few of our TARA members (PhD Scholars) have resumed duties on Jalna campus. Last but not the least most recently 2019-2020 i-M. Tech batch organised e-celebration of Teacher's Day and a very nice, beautiful video down the memory lane was prepared by them and all of us were touched and became very emotional to see the love, respect and commitment of these young i-M. Tech students. Most of the teachers and i-M. Tech students are working from home and, hence, we continued online lectures.

My very best wishes to all of you and let us all pray together to the almighty that soon this pandemic should be under control and hopefully in January 2021 all of us will be back to our Jalna Campus physically.

Thank you!

Prof. Smita S. Lele
Director, ICT MARJ



A Heart Touching Word from the Vice Chancellor



I am happy to inform you, as conveyed to you earlier, our ICT Jalna Campus has been officially recognized by AICTE, as an 'ICT Off Centre' Campus with all the Integrated Master's Programme currently running on the campus.



To all my colleagues at ICT-Jalna & enthusiastic students and collaborators,

I am indeed delighted to have been given this opportunity again to address you all through your official voice of MARGJAL. The past four months of this COVID -19 Lockdown has indeed tested our patience, but I am very happy to see that all of us have survived admirably well with a minimum academic damage. Everyone has adapted to this online regime of academic activities, as is the motto of ICT - "the show has been going ON" with full vigor.

For this, I must compliment the team ICT-Marathwada Jalna Campus, led by your dynamic Director Prof. Smita Lele and her dedicated colleagues, which have found out many innovative solutions to the problems faced and this has resulted in many first for the young campus of ours, showing a thing or two, even to ICT main campus. This has been possible because of the unity of purpose and the common end goal shown by you all, and I wish all the more success to you all for the future. ICT has successfully conducted "e-Annual Day" and "9th e-Convocation" involving more than 650 awardees and students on these occasions. Those who missed these mega-events are recommended to see the recorded versions of both on "ICT's Official YouTube Channel".

I am happy to inform you, as conveyed to you earlier, our ICT Jalna Campus has been officially recognized by AICTE, as an 'ICT Off Centre' Campus with all the Integrated Master's Programme currently running on the campus. Although this is only a conditional recognition, and conditions and deficiencies pointed out by the UGC are being effectively handled and I am sure that all of us together will remove these deficiencies, and the Off-Campus will be unconditionally recognized in the near future fulfilling all the requirements of the UGC and the AICTE. I need assurance from all of you students that in spite of all the "Nay-Sayers", sometimes raising unnecessary doubts, you all will not deviate from your primary goal of learning and research. ICT main campus and your Vice Chancellor is available for your wellbeing 24X7 and will not leave any stone unturned to achieve our primary objective of having a thriving campus before all of you graduate.

Wishing you all the very best of the future. Take pride in the achievement of your alma mater and declare yourself as a true ICT'ian.

Thanks, and Best Wishes,

Prof. Aniruddha B Pandit
Vice Chancellor, Institute of Chemical Technology

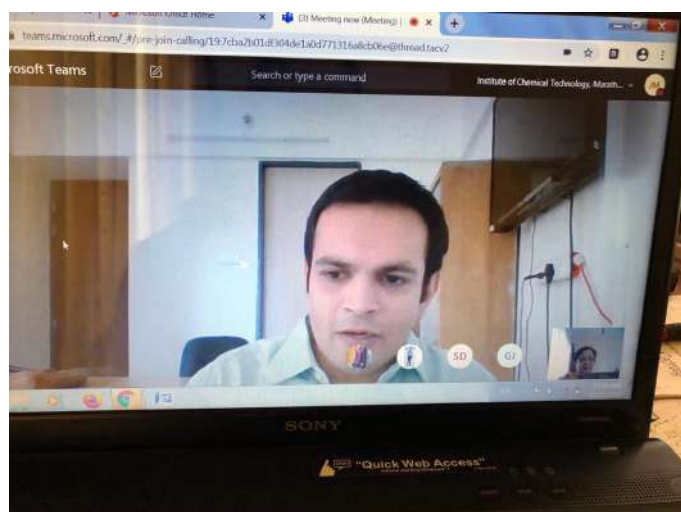
Academic Venture

Benjamin Franklin said “an investment in knowledge always pays the best interest” and we at ICT MARJ invest in knowledge heavily. Even during the lockdown, we continued investing in knowledge through engaging in wide range of academic activities such as e-pep talks, weekly faculty meet, IPT, etc. Besides, individual faculties engaged themselves in getting patents, publishing books and articles, achieving various academic and professional feet, and engaging in extension activities too. Let us have a look at our academic venture we were engaged during last four months.

E-Pep Talks

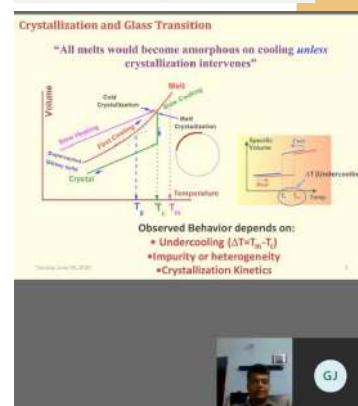
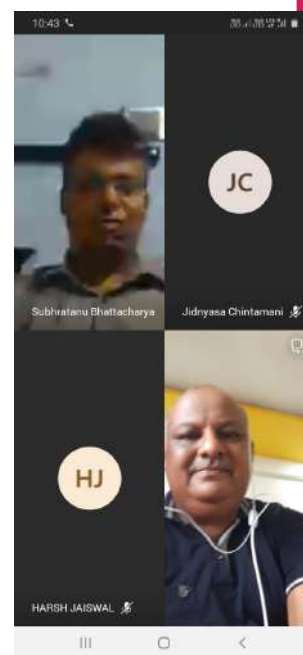
ICT MARJ has the culture of organising Pep Talks. Despite lockdown and online classes, we continued this tradition and organised a series of four e-pep talks and one in-house counselling session by ICT Counsellor during May-August 2020. Three invited guests were from universities out of which two were from abroad universities (namely- Prof. Teresa Cuberes and Dr. Haresh Manyar) and one from Indian university (Prof. Subhratanu Bhattacharya). We also organised a talk by a young Indian entrepreneur (Dr. Nilay J. Lakhkar). The e-pep talks are-

1. ICT MARJ organised Dr. Nilay J. Lakhkar's online pep talk titled “From Biomaterials Research to Bio Entrepreneurship- Perspectives from Our 5 Year Journey” on 23



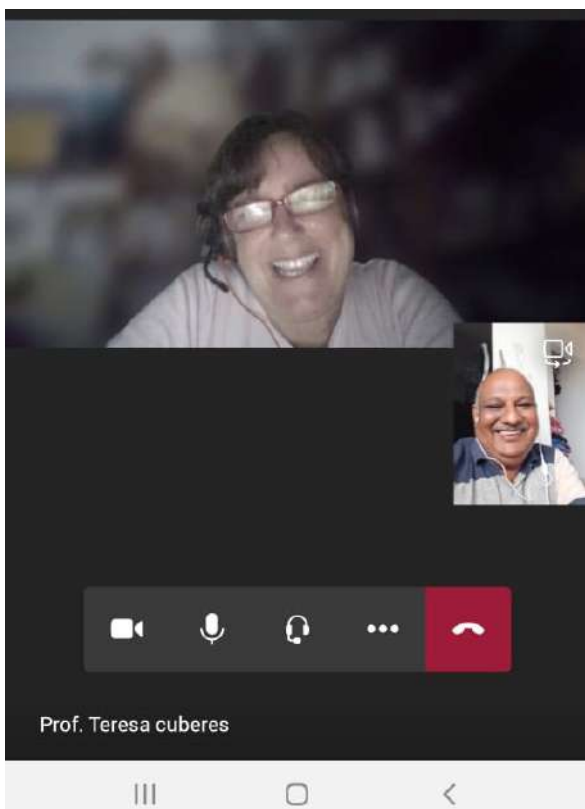
June 2020. The speaker is the PhD recipient from abroad in Biotechnology (Chemical Engineering). The self-made man received DBT sponsored BIG (Biotech Ignition Grant) for his entrepreneurship. He shared his experiences, reality strikes and struggles for the first-generation entrepreneur who go through the experiences in terms of funding, team, regeneration, market, accounting and compliances. The speaker involved the participants with the sayings like “don't just build a team, build a culture”, “the reasons for failures of start-ups are cash flow, investment and then HR”, “know thy gatekeepers”, “follow the rules of regulator”, and “act of god force majeure”. Eighty participants (students, teacher and PhD fellows) attended the webinar.

2. Dr. Girish Joshi took initiative to organise Prof. Subhratanu Bhattacharya's e-pep talk on “Tuning the Phase Transformation in Electroactive Polymers and Room Temperature Ionic Liquids” on 30 June 2020. The speaker works at the Department of Physics, University of Kalyani, Nadia, West Bengal. His talk ruminated on the role of crystallization phases and kinetics, and activation energy. He also spoke on the polymer gel electrolyte concept with recent experimental result. His deliberation on the selection of ionic liquid, silver nano particles and ZnS as high surface



charge for tailoring energy devices such as supercapacitor, battery electrolytes were applauded by the MARJ faculty.

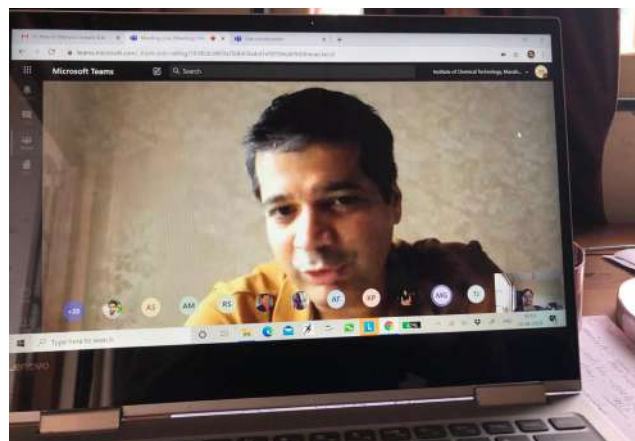
3. Prof M. Teresa Cuberes, the director of NanoTechnology Laboratory, University of Castilla-La-Manchas, Spain, delivered e-pep talk on “Characrization of Polymer Matrices for Bio Compounds using Atomic Force Microscopy Techniques” on 04 August 2020.



The first ever international talk since the lockdown provided the pertinent information about the recent acrylamide gels, sodium alginate ionic network and their significance of the brighter regions morphology and polymer network explored at subatomic level in detail topographic analysis. Prof. Cuberes compared the electron microscopy and probe microscopy. Dr. Girish Joshi was instrumental to organise this talk.

4. Dr. Manoj Gawande was instrumental to organise the second international and the fourth e-pep talk in this series on 10 August 2020. Dr. Haresh Manyar- a Senior Lecturer in Chemical Engineering at Queen’s University Belfast, and is leading the research

theme on Catalysis- delivered a talk on the topic “Catalysis as an Enabling Technology to



Achieve 2050 Net Zero Target”. He discussed how the catalysis is an enabling technology and plays a key role in sustainable, environmentally benign manufacture of renewable chemicals and biofuels. Later on, he also mentioned about the holy grail in catalysis and the kind of research his group is engaged in.

5. In-House Counselling session was held by ICT Counsellor Ms. Malini Shah on the topic “From Changes and Uncertainty to New Normalcy” on 08 August 2020. Her session included various physical activities, motivational fables (Three Fishes and a Pond, Life of Eagle), sharing real-life experiences and incidences. She also discussed different techniques to cope with stress and keep oneself motivated (adjusting, rebounding, resilience, one-minute breathing space, benefits of

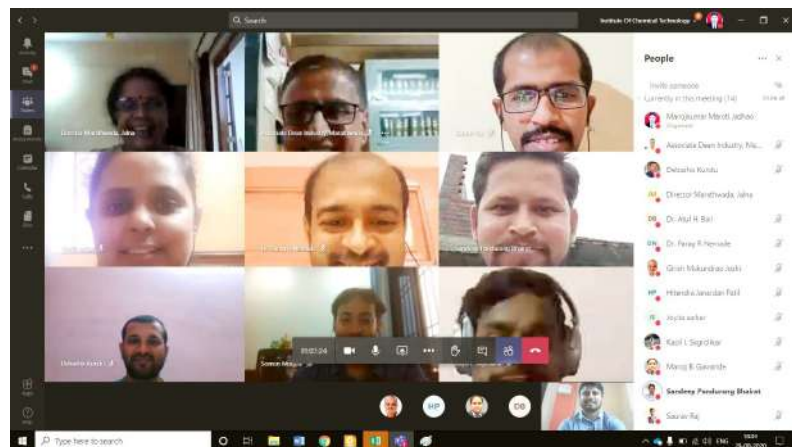


mindfulness and its strategy, etc.).



Weekly Faculty Meet

Right from the start of the Lockdown and closing down of ICT MARJ campus, we, the ICT MARJ faculty, conducted Faculty Meet every Saturday from 5.00 PM onwards on the



Microsoft Teams platform. This Meet deliberated and proliferated various subjects, issues, problems, virtual classroom, IPT related discussions, exam related queries, procurement of equipment, and other pertinent aspects.

So far, we conducted over 20 Faculty Meets out of which two meetings were participated

by i-M. Tech students and one by ICT MARJ TARAs. The purpose of having a meeting with students is to listen to their queries and address them. Apart from the Faculty Meet, ICT MARJ Director Prof. Smita S. Lele, though she keeps in

touch with everyone via phone, email, WhatsApp and other similar sources, also conducted one Formal Meet for the Support Staff on 17 August 2020. Throughout the Meet she has been the driving force, motivator, leader, charioteer who helped the MARJ fraternity function may it be in terms of virtual teaching, procurement of equipment, conducting grade exam, and the like. All the attendees also used to share their own lockdown

experiences during the meeting that would help us know each other's situation.

This Meet worked as a sigh of relief in the lockdown and helped us discuss and take necessary decisions on umpteen number of issues to run institute successfully during this pandemic.

IPT at ICT MARJ in the COVID-19 Scenario

Due to lockdown students have completed the tail end part of IPT, and IPT related submissions and diaries online from home. Their viva and evaluation were conducted online by the faculty panel in the month of July and grades were awarded too.

IPT-1 of Batch B-2019-2020: We have modified the IPT-1 of 2019-2020 Batch B so that students can complete their IPT trimester through online guidance of the faculty. Students were provided with 2-3 Home projects. The evaluation scheme list is-

EVALUATION Scheme of IPT Projects (Batch-19-B- May to August 2020)

Sr	Evaluation Steps	Date	Particulars
1	Evaluation by PI/ Faculty (Weekly evaluation)	7 June 2020	1. Brief Write up of papers studied
		14 June 2020	2. Write up on key learnings/information
		21 June 2020	3. Concept Note on Project
		28 June 2020	4. MCQs on the learnings
2	Mid Term Submission of PPT in pdf. file, by mail, individually. (Submission by Mail), Evaluation by Faculty & Associate Dean	30 July 2020	Every student was supposed to submit 10 slides PPT in pdf form by mail. This presentation should contain- 1. Introduction of problem. 2. Key learnings, papers studied, knowledge gained. 3. Concept Note of Problem. 4. Work done calendar- Day Wise 5. Lab/Practical work plan approved by PI



Sr	Evaluation Steps	Date	Particulars
3	PPT and Viva by the Project Group of every project.	August 2020	15 Minutes presentation by every group. This presentation will be a detailed group presentation of PPTs, topics as above in (1).
4	Certificate by PI/ Faculty and Report on the completed Project.	August 2020	1. Diary to be submitted. 2. Detailed Report of Project.

As this was the First IPT of B Batch of 2019-2020, an extensive work plan was prepared which ensured that students would be fully engaged in the study work and would be in constant touch with their faculty guide. Their learning was monitored at regular intervals, and they were given guidance for timely completion of all assignments and studies.

IPT-3 Home Project for entire 2018-2019 Batch (58 Students): To make this IPT more engrossing, the students were given 12 experiments in Chemical Engineering, Applied Chemistry and other sciences to be completed on online Virtual Laboratories platforms of IITs &

other Institutions. A panel of ICT MARJ faculty supervisors is formed for the evaluation and supervision.

We extend our heartfelt thanks to our local industry partners Vinodrai Engineering, Roopam Steel, Bhagyalaxmi Steel, Abhay Nutrition, Fine Packaging Aurangabad, Syn Thera Pune, Krishi Vidnyan Kendra Jalna and others for suggesting the project ideas and guiding the students.

Our attempts ensured the success of the IPT Home project with the complete involvement of the MARJ faculty and students.

- **Mr. Sharad Lahoti (Associate Dean (Industry))**

Patent

- Dr. Parag Nemade (along with Dipil Sarode) got patent (Application No.4042/MUM/2014) for the invention entitled- "A Water Resistant Phosphogypsum Composition".
- Dr. Girish Joshi is granted patent (Application No.349/CHE/2012) for his invention "Storage-Stable Epoxy Resin Composition and a Method for Preparing the same".

Publication

1. **Prof. Smita S. Lele** (along with **Anamika Banerji and Laxmi Ananthanarayan**) published a book titled "The Science and Technology of Chapatti and Other Indian Flatbreads" by the CRS Press, Taylor and Francis Group. 2020, 162 Pages.



2. **Dr. Girish Joshi** published a paper titled "Influence of surfactant assisted exfoliation of hexagonal boron nitride nanosheets on mechanical, thermal and



dielectric properties of epoxy Nanocomposites Composite Interfaces", in the journal Composite Interfaces, 2020, 27, 6, 529-550.

3. **Dr. Manoj Gawande** published six papers-
 - Functional Mesoporous Silica Nanoparticles for Catalysis and Environmental Applications, Bulletin of the Chemical Society of Japan, 2020, DOI: 10.1246/bcsj.20200136.
 - Mesoporous P- and F-co-doped Amorphous Carbon Nitride: Nanocatalysts for Photocatalytic CO₂ Reduction and Thermocatalytic Furanics Synthesis from





Sugars. ChemSusChem, 2020, DOI: 10.1002/cssc.202001172.

- Bio-waste chitosan-derived N-doped CNT-supported Ni nanoparticles for selective hydrogenation of nitroarenes, Dalton Trans., 2020,49, 10431-10440.
- N-Graphitic Modified Cobalt Nanoparticles Supported on Graphene for Tandem Dehydrogenation of Ammonia-Borane and Semihydrogenation of Alkynes, ACS Sustainable Chem. Eng. 2020, 8, 30, 11058–11068.
- Molybdenum-promoted cobalt supported on SBA-15: Steam and sulfur dioxide stable catalyst for CO oxidation, Applied Catalysis B: Environmental 2020, 277, 15, 119248.
- Sustainable synthesis of nanoscale zerovalent iron particles for environmental remediation, ChemSusChem 2020, 13, 3288 – 3305.

4. **Dr. Sandeep Bhairat** published his article titled “New approach to existence of solution for weighted Cauchy-type problem” in the Journal of Mathematical Modeling, 2020, arXiv:1808.03067.



5. **Dr. Hintendra Patil** published two papers-

- A Bibliometric Analysis of global research trends in Biodiversity, International e-Journal of Library Science 2020, 8, 1, 1-10.
- Analysis of publication productivity of Corona Virus by scopus during 2010 to 2019, Journal of Advances in Library and Information Science 2020, 9, 1, 11-16.



Professional & Academic Achievement

ICT MARJ Director, deputy director and esteemed faculties keep achieving professional and academic milestones every now and then. In this period of four months following professional achievements by Director and deputy director and the academic achievements by Dr. Manoj Gawande and Dr. Saurav Raj have been grabbed. Apart from this ICT MARJ Campus has been registered as Local Chapter in Swayam NPTEL.

- ICT MARJ Director Prof. Smita S. Lele as Special Invitee on the CMIA Executive Committee 2020-2021 (This is one of the cherishing moments for ICT MARJ that our Director Prof. Smita S. Lele is invited to join the Executive Committee for the



Prof. Smita Lele



Dr. Manoj Gawande

year 2020-2021 as “special invitee”. CMIA (Chamber of Marathwada Industries and Agriculture) president Mr. Kamlesh Dhoot invited her and expressed CMIA’s eagerness and hopefulness looking forward for Prof. Lele’s association and valuable inputs to take them to a new height.)

- Dr. Parag Nemade became a member of CMIA Technical Advisory Committee.
- Dr. Manoj Gawande’s paper has been recognized as one of the most read and top downloaded papers in 2018-2019 in Advanced Material Journal.
- Dr. Girish Joshi completed 1k citations of his research work.
- Dr. Manoj Gawande has been invited as one of the



Dr. Parag Nemade



Dr. Girish Joshi



Guest Editors of “ACS Sustainable Chemistry and Engineering, ACS Publications” for a Virtual Special Issue. This VSI focuses on the theme “N-doped Carbon Materials: Synthesis and Applications”.

- Dr. Saurav Raj presented and won Best Paper Award for his research paper entitled, “Hybrid Intelligence Technique for Reactive Power Planning using FACTS Devices”



Dr. Saurav Raj

at IEEE International Conference Emerging Frontiers in Electrical and Electronics Technologies (ICEFEET 2020) organized by National Institute of Technology (NIT) Patna held on 10-11 July 2020.

- ICT MARJ has been registered as Local Chapter in Swayam NPTEL. The Local Chapter id for ICT MARJ is 4102. Dr. Hitendra Patil is SPOC (Mentor).

Extension Activities

- **Prof. Smita S. Lele,**

Director of ICT MARJ, the backbone, motivator and the leader who leads ICT MARJ from the front, who not only kept the ICT MARJ Faculty motivated during the pandemic time but also backed every MARJ family member time to time. How can such a personality stay calm and stop herself spreading the inspirational words to the world during the dark, depressing, demotivated and stressful pandemic time! Apart from this, she, as an acclaimed scientist, food technologist, engineer and subject expert was invited as chief guest, panelist, Speaker, etc. She participated as-



1. One of the panellists at the ICT and AFST organised program on 07 June 2020.
2. One of the speakers at a Live Webinar on “Opportunities in Agribusiness Post Covid-19” which was organized by Udyog Prerana- Real Inspiration of Foodpreneurs on 12 July 2020.
3. One of the Chief Guests and gave inaugural talk on “Fruit Veg Processing” at Maharashtra Sarkar Vikas Mahamandal, Pune organized “Aatmanirbhar Bharatasathi- Agro Business Startup” from 30 July 2020 to 31 July 2020.
4. A motivational talk through zoom platform to a small group of women who were stressed due to business tension

plus increased work at home during the lockdown at Saturday Club Global Trust Mumbai on 31 July 2020.

5. A motivational speech to a small group of women on 17 August 2020. It was an in-house session.

- **Dr. Girish Joshi,** Associate

Professor of Physics at ICT MARJ, delivered a keynote talk on the topic “Recent Trends in Thermoplastic Blends” at an FDP (titled “Challenges and Opportunities in Recent Emerging Technologies”) organised by Department of Chemical Engineering, SGGSI & T, Nanded. He explained the role of modern plastic for various improved properties for engineering applications such as wear and thermal conductivity. His talk was appreciated by all the participants. He also presented his research work “Polymer Quantum Dots Composites Morphology and Electrical Properties for Engineering Applications” at a one-day Virtual International Conference on Photovoltaic and Material Science at VIT Vellore Conference on 23 June 2020. This is his collaborative work with UCLM Almaden (Spain) Director Prof. Teresa.



- **Dr. Manoj Gawande,** Associate Professor of Chemistry at ICT MARJ, delivered two online talks at SGGSI Nanded and Shri Shivaji College Chikhali, Amravati University respectively. He delivered the first



talk as one of the keynote speakers on “Advanced Nanomaterials for Sustainable Applications” on 8 July 2020 at an FDP titled- “Challenges and Opportunities in Recent Emerging Technologies”. His talk emphasized the importance of sustainable nanomaterials and nanotechnology for environment-friendly catalytic and environmental applications. His second invited talk was on “The Rise of Nanomaterials: A Guide for the Synthesis and Applications” on 8th August 2020 at the national webinar on “Recent Advances in Nanotechnology”. He talked on the basic concepts of nanotechnology, synthetic techniques of nanomaterials, characterization, and general and catalytic applications of various types of nanomaterials including single-atom catalysis.



- **Dr. Kapil Sagrolkar**, Assistant Professor of English at ICT MARJ, delivered a talk in a Three-Day National Level FDP on “Literature: Trauma, Eco-criticism and Oral Narratives”. The title of his talk was “Significance of Oral Narrative Tradition in English Classroom”. This FDP was organised by department of English and Foreign Languages, Madanapalle Institute of Technology and Science, Madanapalle,



Andhra Pradesh. In his talk he introduced “GMS Model: a Tool for Active Learning”. He discussed how he created this model in order to active learning happen in English classroom. His talk was an attempt to trigger participants’ mind so that they too can experiment with their research interest in English classroom as the way the speaker experimented the oral narrative tradition of Maharashtrian women in his classroom.

- **Dr. Saurav Raj**, Assistant Professor of Electrical Engineering at ICT MARJ, delivered two online lectures on “Optimal allocation of FACTS for the solution of Reactive Power Planning” and “FACTS device implementation for enhancing power transfer capability” in the Faculty Development Programs titled- “Challenges & Opportunities in Electrical Engineering - A Research Perspective” (from 15- 20 June 2020) and “Recent Advances in Electrical Engineering” (from 22-27 June 2020) respectively. In his talks he spoke on different approaches to solve the issues of reactive power planning and different methods for the solution of reactive power planning problem. Bharat Institute of Engineering and Technology (BIET), Hyderabad organised both the FDPs. These lectures were very helpful and appreciated by the faculties and research scholars from various engineering colleges.



Grade Improvement e-Examination

Academic Year ended for ICT Marathwada Campus Jalna on 31st August 2020. We successfully conducted grade improvement e-examination for the 2018 and 2019 i-M. Tech Batches. Though it was for first the time, all the MARJ faculties successfully completed their syllabus and continuous evaluations virtually. The academic activities in the last trimester was completely materialized online.

Student Corner

Chinese proverb “teachers open the door, but you (students) must enter by yourself (themselves)” is aptly applicable to the MARJ students’ hard work which in return got them success.

Provided with a push, our students excelled on various fronts- they created app and won special mention at Smart India Hackathon, an i-M. Tech student of second year and two research scholars presented research papers at an international conference and the first year students successfully organised e-Teacher’s Day.

- **Student Achievement at Smart India Hackathon**

Six i-M.Tech ICT MARJ students (Prasad Lakade, Aditya Deshpande, Omkar Shetye, Sarang Shindalkar, Shreya Yeole



and Tanisha Patni) under the team name “Code_Vision_1.0” participated at Smart India Hackathon, a “Virtual Hackathon”, is a National Initiative aimed to inculcate a culture of product innovation and problem-solving ability. Their problem statement was Innovative Apps for Women Safety in Cyberspace. The team

designed an application called ‘Chat Modulus’, which incorporates major aspects of chat-based platforms, along with 3 Unique Features proposed by the team to enhance user experience and safety, namely-

1. PING – To accurately report Virtual Harassment

2. Face Detection – To reduce and hopefully prevent Fake Profiling
3. Stalker Detection – To display a list of the User’s Profile Viewers

The team received Special Mention due to their ‘Flawless Execution’ from the Jury. We congratulate the team and their leader, Prasad Lakade, for this success.

- **Paper Presentations at the “International virtual Conference on Physics of Solid-State Materials”**

PhD Scholars Shankar Humbe and Pratibha Jadhav presented experimental research work on “Quality Factor of Polymer Blends” and “Nitrogen Treated Polymer Composite” respectively, and i-M. Tech student Vedant Joshi presented a paper on the topic “Synthesis, characterization and Applications of nano materials” at an international conference on “Physics of Solid-State Materials” organised by department of Physics, St. Aloysius College (Autonomous), Mangaluru, Karnataka from 2-3 September 2020. This conference exposed them to interact with the eminent speakers from University of California USA, Australian National University, Australia, with a group of scientists from TIFR, Hyderabad.

Dr. Girish Joshi guided them to bring out well-researched papers. Dr. Joshi also chaired Prof. Arun M. Isloor’s session titled- “Tailormade Polymeric Membranes and Applications of Membrane Technology” at the same conference.



- **e-Teacher's Day Celebration: Good Buildings Don't Make Good Schools, Good Teachers Do!**

Student moderators began e-Teacher's Day Celebration by saying- "during this pandemic we all attended online lectures, we were neither on campus, nor we had the expensive equipment or facilities study but we had *sarva guna sampanna* (well equipped) teachers!".

Despite lockdown and home stay i-M. Tech students organised a virtual Teacher's Day celebration. The celebration included an AV (Atharva Waghmare showed a video on two years activities happened on the campus; Gauri Ladda sang Saraswati Vandana; and Tanisha Patani shared her views.), Kabir ka Doha (where St. Kabir feels that teacher is superior to god), song-shayaries (such as- Teachers aapke pyar ko maine to khuda mana, yaad karegi ICT aapka-hamara afsana), poetry recitation, stories (Chanakya, the teacher and Chandragupta, the student) and experience sharing by the i-M. Tech

students- Aradhana Thombre, Tanisha Patani, Ayush Gulhane, etc.

On this occasion ICT MARJ Director Prof. Smita S. Lele shared her experience, her life journey at ICT right from her master's degree to PhD degree, to holding several admin posts and becoming MARJ Director. In this journey, she expressed her gratitude to her teachers, namely- Prof. M.M. Sharma, Prof. J.B. Joshi, Prof. G. D. YADAV, and Prof. Mashelkar. Besides, she expressed her experience with the MARJ students, about MARJ campus and the potential it got to flourish as one of the best institutes in India. Senior teacher Shree. Sharad Lahoti also praised the students for their hard work, diligence and positive attitude which they showed even during the lockdown. The e-program concluded with an appeal to the students, TARAs and teaching staff to write and share a post on their social media using the hashtags (#ourteachersourheroes and #teachersfromIndia). Ketaki Patil submitted a formal vote of thanks.

ICT Mumbai Campus News

ICT Mumbai, an institute of repute and an inspiration for many, stood first in the ARIIA ranking 2020 in the category of govt. aided university. This institute, whom we look up to every time and learn a lot, organised e-Annual Day and e-Convocation successfully during the lockdown.

- **e-Annual Day Celebration**

Institute of Chemical Technology for the first time celebrated its Annual Day online on 4 August 2020. The UAA Distinguished Orator and the Chief Guest of the program was **Padma Shree Prof. Rohini Godbole**- Centre for High Energy Physics, Indian Institute of Science, Bangalore. **Shri Kashiprasad Murarka**, Chairman, Mirachem Industries Ltd was the Guest of Honour on this occasion.



ICT Vice-Chancellor **Professor A.B. Pandit** gave the welcome address and also introduced the Chief Guest. **Shree Dilip Udas**, UAA President, **Shri Oshal Khairnar**, General Secretary of Technological Association and **Prof. P.D. Amin**, Vice President, Technological Association were among the other distinguished dignitaries present on this occasion.

Despite organising it online it got huge response from the alumni, current students and others.

- **First Rank in ARIIA Rankings 2020**

Institute of Chemical Technology has been ranked 1st in the category of Government aided University among all major higher educational institutions and universities in India during e-Award Ceremony of Atal Ranking of Institutions on Innovation Achievements (ARIIA) Rankings 2020 held on 18 August 2020. ICT received this rank for the entire academic year under the able leadership of former Vice Chancellor Prof. G. D. Yadav and present VC Prof. A. B. Pandit.

- **e-Convocation Celebration**



ICT celebrated its first ever online and overall 9th convocation on 2 September 2020. Padma Vibhushan Professor R. Chidambaram (FTWAS, FASc, FNASc, FNAE), D.A.E. Homi Bhabha Professor, Bhabha Atomic Research Centre, Mumbai delivered the Convocation Address in the august presence of Shri Sanjiv Singh, Ex-Chairman, Indian Oil Corp Ltd. Padma Vibhushan Dr. R.A. Mashelkar (FNA, FTWAS, FASc, FNASc, FNAE, FRS), Chancellor, Institute of Chemical Technology, presided over the function. Professor Aniruddha B. Pandit (FNA, FTWAS, FASc, FNASc, FNAE), Vice-Chancellor, Institute of Chemical Technology, addressed the gathering.

- **Girl Student Leadership Award**

Prof. Smita S. Lele started an award at ICT Mumbai Campus under the name Girl Student Leadership Award. Ten Thousand Rupees are given to a girl student as a token of encouragement every year on Annual Day.

Virtual Celebration of International Yoga Day

Awards Given to the First Year i-MTech Students for their Outstanding Performance

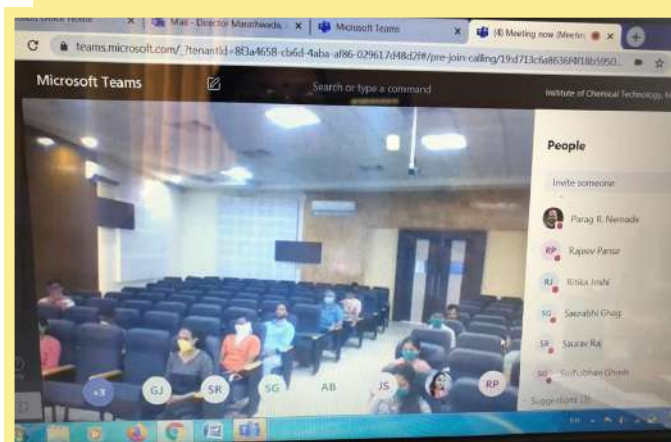
1. Prof. Smita Lele Merit Awards

Every year we at ICT MARJ give away two awards. First award is given under the title “Prof. Smita Lele Merit Awards” to the First Year Student who excel in their academic i.e. to the students who score highest marks in Trimester I of integrated M. Tech. in Chemical Engineering. This year this award is given to Mr. Raj Lalasaheb Wagh. This award consists of a cheque of Rs. 5000/- and a Certificate of Merit.

2. Vedavalli Vaidyanathan Girl Student Award

The second award is given to the first-year girl student for the outstanding academic performance at Trimester I and also for the significant aptitude for creative skills such as Music, Dancing, Drawing, and the like. This year this award is given to Ms. Jidnyasa Chintamani. This award too is given in the form of a cheque of Rs. 5000/- and a Certificate of Merit.

These awards were announced on E-Annual Day Function of ICT Mumbai held on August 4, 2020.



ICT MARJ organised International Yoga Day virtually on 21st June 2020. Mr. Rajeev Pansare (a UDCT alumnus, BoG Member UAA, CEO, Advantage HR of Mind Fitness- Life Coach and Corporate Consultant) conducted this session for us. His session incorporated the discussion on yoga, its inception, different yoga styles and their uses. Afterwards he engaged us with yoga practice: “Pranayama”-the practice of breath control in yoga.

Appeal for Personal Donation

Dear Readers,

With the heavy heart it is to inform you that a very young and dynamic faculty, Dr. Nagsen Meshram from Institute of Chemical Technology Jalna Campus has been detected for Blood Cancer in the month of June 2020. Since then he had been undergoing the Chemo Therapy and other cancer related treatment at Central India Institute of Hematology and Oncology, Dhantoli, Nagpur. Needless to mention, the estimated total expenditure costs in several lacs. We, the ICT MARJ Faculties, have made personal donations and will make contribution when necessary. We hereby make an appeal to you to extend a helping hand and make your contribution if possible.

If interested, you may contact

Dr. Manoj Gawande,

Associate Professor at ICT Marathwada Campus

email: mb.gawande@marj.ictmumbai.edu.in

Mob: 9960746726) for further details

Campus Development Activity

We converted difficulties into opportunity during the lockdown time and speeded up the campus development related activities. Our campus was never at halt. Our campus was functioning partially. In order to establish various labs, we procured lab equipment.

Campus Being Partly Operational



Due to the pandemic ICT MARJ had to be shut down. This is why i-M. Tech. students, TARAs, support staff and teaching staff of the campus went home by the end of March. MARJ campus remained completely closed from the last week of March 2020 to the last week of June 2020. The campus started functioning partially from the last week of June 2020 as per the Government Norms.

The support staff and some research scholars started going to the campus on alternative days at least for a couple of hours. While being partially operational, the campus has been sanitised

time to time. Automatic Hand Sanitizers were installed as self-precautionary for individuals at Library, entrance gate of both the buildings and laboratories. Every staff member made sure that they would follow the social distancing related norms. This partial functioning enabled us to keep the laboratory up-to-date; facilitated essential administrative work; and allowed us to clear the pending work in due time.

Procurement, Installation and Establishment of Laboratory and Workshop



- **Material Physics Laboratory**
The process of establishing Material Science Laboratory is in progress. As part of psychomotor domain, students in the material physics shall be exposed to the various experiments. It includes operation of the

Gonio Meter for surface characterization. This will address the issues of barrier material coating, dielectric and magnetic properties, mechanical properties such as hardness and softness of engineering materials, measurement of viscosity of various grades of chemicals, thermal conductivity, optical conductivity, and refractive index analysis.

- **Wet Laboratory**

Analytical instruments such as HPLC, GC, and GC-MS, are calibrated and GC column conditioning have

been done during the lockdown period. Wet Lab is almost ready for use.

During lockdown, we completed furniture work such as fume hood, and chemical

cabinets installation. Safety Showers are also placed properly keeping in mind the safety precaution. Microwave Reactor instrument has reached safely at ICT MARJ campus and soon it will be installed in the Wet Lab. The Heatless Illumination instrument (Photoreactor), and the Electrochemical Station will arrive soon to the campus.

- **Microbiology/ Biochemistry and Animal Tissue Culture (ATC) Laboratory**

Many types of equipment have been procured for practical courses and research purpose which are listed as follows:

1. BSL II Biosafety Cabinets: For handling



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of microorganisms and animal cells under sterile conditions

2. CO₂ incubator: For culture and growth of animal cells
3. Bright field and Phase contrast microscopes: For routine observation of cells
4. -80°C freezer: For storage
5. Thermal cycler: For running PCR reactions
6. Waterbath/ vortexer/ solution rocker: For general laboratory purposes

- **Electrical Engineering Laboratory**

Several forms of equipment for technical

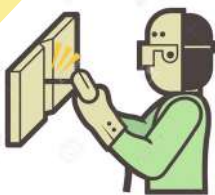


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experience on Electrical Engineering have been purchased and installed. Some of instruments with experiments are listed as follows:

1. **Transformer:** For perform load test and step-up/step-down of voltages.
2. **Induction motor:** For speed control and load test.
3. **3-phase circuit with star connected load & delta connected load:** To understand the concept of phase voltage and line voltage.
4. **Wattmeter:** To measure power in 3-phase circuit.
5. **Multimeter:** To measure current and voltage in AC as well as in DC supply.
6. Kirchhoff's law, Thevenin's theorem and Superposition theorem will be verified.
7. **Cathode-Ray Oscilloscope:** Study of half wave, full wave and bridge rectifier circuits.

These instruments shall enable students to



understand the concept of DC current, Single phase AC current and three phase AC current.

- **Workshop**

Different types of instruments have been installed for practical course of workshop. The instruments with their purposes are listed below:

1. **Welding machine:** All types of welding purposes.
 2. **Drilling machine:** For operations like Plane, Step, Counter and Spot facing etc.
 3. **Bench Grinder:** For Rough Grinding.
 4. **Power Hacksaw machine:** For cutting large size metals.
 5. **Lathe Machine:** For Threading, Boring, drilling operation on Round steel job.
 6. **Shaper Machine:** For slotting, grooving on plane surface.
 7. **Universal head milling machine:** For Boring, slotting, keyways, racks & gears, step cutting, dividing, drilling, form cutting and facing.
- These instruments will enable students to have practical experience on different types of machines.

Equipment Procurement

- Automatic Hand Sanitizers have been installed as self-precautionary for individuals in various major locations on the campus like library, entrance gate of both the buildings and laboratories.
- Two water coolers have been installed in the new building of our campus. One is on Ground Floor and the other one on the First Floor.
- Fire Extinguishers have been installed for the safety measures and also in case of emergency in various laboratories. They were installed in the labs like- Material Laboratory, Chemical Engineering Laboratory 1 and Laboratory 2, Biochemistry/Microbiology Laboratory, Animal Cell Culture Laboratory, Instrumentation Laboratory, Wet Laboratory, and at the entrance of the Library, Main Building.
- Biochemistry/Microbiology and Animal Cell Culture Laboratory equipment reached ICT-MARJ Campus and are accessible for the installation process.

Laboratories :



◀ Infrastructure Development (RO Plant)



▼ e-Teacher's Day Celebration

