



Streamlining minds

मार्गजल

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MARJ News Letter



MARGJAL
Creating Its Own Path!



Inauguration of ICT Mumbai Marathwada Jalna Campus

INSTITUTE OF CHEMICAL TECHNOLOGY MUMBAI
MARATHWADA CAMPUS, JALNA



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From the Director's Desk



“
Thanks to my colleagues, staff and our local hosts who made us so comfortable in such a short period. Special mention of the members of Local Advisory Committee and also CMIA for their assistance – thank you very much.
”

Dear Stakeholders,

It is heartening to publish the first News Letter from ICT-Mumbai, Marathwada Campus, Jalna now abbreviated as ICT-MARJ.

It is not even 2 months since this campus was formally inaugurated, but all of us feel as if we have been here from ages!!! Thanks to my colleagues, staff and our local hosts who made us so comfortable in such a short period. Special mention of the members of Local Advisory Committee and also CMIA for their assistance – thank you very much. And the cherry on the cake is the team of 60 young, enthusiastic, bubbling students eager to learn every aspect of academics as well as industrial activities. In merely 2 months we all has gelled in Beej Sheetal Campus like a big family- my family-our family-ICT MARJ!!

We are looking forward for many more happening in near future and dreaming to grow slowly and steadily to match the rich research and academic culture of ICT-Mumbai as soon as possible.

Wish you a very Happy Dasara and Diwali Festivals. 🎓

Professor S S Lele

Fellow of Biotech Research Soc India

Fellow of Maha academy of Sc

Director and Professor

ICT Mumbai- Marathwada Campus, Jalna

<director@marj.ictmumbai.edu.in>



The Vice Chancellor's Message



The syllabus will be vibrant to accommodate suggestions from industry and the student interns. We have to start about a dozen Centres of Excellence in Jalna as well as recruit Ph.D. student.



On May 4th, 2018
 Foundation
 Stone of ICT
 Jalna Campus
 was laid by
 hon'ble Chief
 Minister
 Shri. Devendra
 Fadnavis.

Bhumipoojan ►
 Ceremony

MARGJAL

Creating Its Own Path

I am indeed very delighted to pen down my thoughts on the occasion of the publication of the first issue of the news bulletin of ICT Mumbai Marathwada Campus Jalna on the auspicious day of Dasara. Printing bulletins regularly is an excellent idea to be in touch with all stake holders who would be obviously interested in knowing the progress of the new campus. Professor Smita S. Lele, the enthusiastic Campus Director asked me to suggest a name for the bulletin, I immediately suggested MARGJAL as the most appropriate name. It is potent and meaningful since the path of the fledgling campus must be vibrant finding its own direction like flowing water overcoming all obstacles in search of a greater goal. Compliments Professor Lele for the new and timely initiative. The news published in the bulletin should form the basis of the Annual Report. We were indeed fortunate to have the inauguration done by Padma Vibhushan Professor M.M. Sharma on 28th August with his characteristic style and passion. The audience was mesmerized by his authority and oratory. With skeleton staff and faculty, it was a great effort all concerned to start the Integrated M.Tech. programme on time. In this regard, Prof Lele and Dr Parag Nemade have gone beyond the call of duty and ensured smooth functioning including hostels as well as 6 factory visits for the students.

I again visited Jalna on 10th September to conduct the first meeting of the newly constituted Advisory Committee which was briefed about the courses of study and action plan. On the same day, Hon'ble Shri Prakash Javadekar, Union HRD Minister paid a short visit to the campus along with Shri Raosaheb Danve, MP and State President BJP, and prominent citizens and alumni. During past few weeks, a number of faculty members from the Main Campus have visited Jalna and lectured over there. The Saturday Lecture series by eminent citizens has been greatly appreciated. I am sure the students have been enjoying their interaction





▲
Speeches at
the ceremony

with the speakers.
I believe our interaction with local industries will increase with time and be mutually beneficial. During Second Trimester 30 students will go to industries for internship and the remaining will continue for the classes. Then during the 3rd trimester, the work term students will return to the campus for whom term 2 lectures will be repeated. The syllabus will be vibrant to accommodate suggestions from industry and the student interns. We have to start about a dozen Centres of Excellence in Jalna as well as recruit Ph.D. student. Each faculty member will have a Ph.D. student. The Executive M.Tech. programme will

also be commenced from January 2019. CMIA, UAA and Jalna industries will certainly assist us in our grand endeavor. We will continue our recruitment drive. I would also like to see some articles, poem and experiences of visitors to be included in the bulletin. A visitor's book should be thus maintained. Once again I congratulate one and all and wish them Happy Vijaya Dashami. 🎓

Padmashri Professor G.D. Yadav
Vice Chancellor and R.T. Mody Distinguished Professor
Tata Chemicals Darbari Seth Distinguished Professor of Leadership and Innovation
J.C. Bose National Fellow (DST GoI)

Genesis of MARJ Campus



During 4th Convocation of the ICT in 2016 Honorable Chief Minister Devendra Fadnavis announced that he would like ICT to have a campus in Marathawada. Within one year i.e. on May 13, 2017 the CM handed over papers for the land! On May 4th, 2018 the Bhumipoojan was done in the hands of Honorable Chief Minister Devendra Phadanvis. The pooja ceremony was done by Padmashri Dr. G.D.Yadav, Vice Chancellor, ICT and Dr. Mrs. Vasanti Yadav who is also a UDCT alumnus and first generation entrepreneur. A land of 203 acre at Siraswadi, Jalna has been given by the State government for the Marathawada Campus of ICT. Many local political Leaders, social workers, industrialist and UAA members from Marathawada Chapter were present. Hon. Shri Raosaheb Danve, BJP Maharashtra President, Hon'ble Shri Babanro Lonikar, Guardian Minister, Hon'ble Shri Arjun Khotkar, Shru. Manoj Pangarkar, Mr. Govind Agarwal, Shri Mukund Bhogale, Shri Prasad Kokil, and Shri Ashish Mantri are just few names of many more. The District Collector and Jalna Mayor were also present.



Special Events



Inauguration of ICT Mumbai Marathawada Campus

▲ Lightning Lamp @ ICT MARJ



ICT-MCJ Academic
Inauguration Program :
Speech by
Padma Vibhushan
Prof M M Sharma

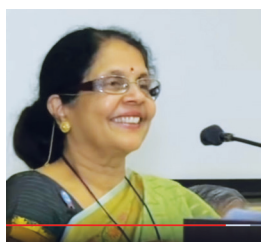
History was made in the annals of ICT on August 28th, 2018 when Academic Session inauguration of the ICT Marathawada campus Jalna was unveiled at the august by the hands of Padma Vibhushan Professor M.M. Sharma at a rented premises of Beej- Sheetal Innovation Centre, Biotech Park, MIDC, Jalna. Sixty young students who have been admitted through national and state level qualifying exams were excited to have a start of academic session and were excited to know that the Inaugural Address will be given by a Maha Guru in Indian Academia and Chemical Industry– none other than Padma Vibhushan Prof. Manmohan Sharma. The program started with lighting of the lamp followed by bowing to the Rasayan Devika– the Goddess of knowledge with a prayer– ICT Vidyeeth Geet.

After welcome of the dignitaries on dais and many off the dais, the welcome remarks were given by Prof. Smita Lele the first Director of the ICT Mumbai-Marathawada Campus, Jalna. She narrated genesis of UDCT in 1933 and said that history repeats– even this campus is being born with the desire of industry. She stated the uniqueness of ICT as an academic and research institute- namely very unusual ratio of UG-PG-PhD students– not a pyramid but quite high and comparable numbers of PG and PhD fellows, exemplary industry- academia relations, strong education base with inputs from relevant

research conducted by the faculty members as sponsored project / consultancy and a strong Alumni Network– UAA eager to help the alma mater.

After Prof. Smita Lele's energetic speech, there was a wonderful and passionate presentation by the VC Padmashri Prof. G.D.Yadav. He gave an overview of UDCT-UICT-ICT journey over past 8 decades, its contribution to nation building by providing great visionaries and leaders, researchers, technologist, first generation entrepreneur and so on. ICT has produced 19 Padma awardees so far!!! Prof. Yadav also expressed his gratitude towards the mother–University of Mumbai from whom ICT separated as a deemed University just a decade ago. He took the audience for a small time journey by referring to all great leaders of ICT, distinguished fellows across the globe, ICT ranking in NIRF, other global benchmarks, NAAC A ++ grade with 3.77 out of 4 score and so on. It was also mentioned that on normalized scale ICT might be number one, in actual ranking it has a disadvantage due to small size and that is why having more campuses is a must for growth of ICT.

After the charismatic motivational speech by the Vice Chancellor came the golden moment when the Guru's Guru, Padma Vibhushan Prof. M.M.Sharma stood up for his inaugural speech to the young budding chemical engineers. Students were excited to know that Prof. Sharma has been



ICT-MCJ Academic
Inauguration Program :
Opening Remarks by
Prof S S Lele





▲ Approved plan of the proposed campus



▲ Entrance lobby of the campus



First batch of 60 enthusiastic students

the guiding force, mentor, philosopher and GURU to Dr. R.A.Mashelkar, the chancellor of ICT, Prof. Yadav, VC and Prof. Smita Lele, the new Director!! Prof. MMS gave an over view of chemical industry for last 200 years across the word. He gave simple illustrations of vital role of chemistry in day to day life. Oxygen in blood due to mass transfer with chemical reaction, kidney functioning as one of the most efficient membrane filters and desirable and undesirable crystallization in the human body – e.g. bone and kidney stone were astonishing. Without any paper or power point, almost for 1 hour he made the audience spell bound, travelling through 200 years history of chemical industry and chemical engineering and how the processes were improved, made green and so on. It was simply mesmerizing. These speeches are uploaded on YouTube and also will be made part of MOOC portal for the benefit of many more students. The program was nicely compeered by Senior Librarian, Mrs. Madhavi Wadkar

of ICT Mumbai. Over 20 faculty and key support staff from ICT Mumbai attended the program. Over 50 UDCT alumni, industrialist, key persons from Jalna Aurangabad area were present for the academic inauguration event. It ended with Vote of Thanks by Prof. Pradeep Vavia, the Dean Academic program who himself had taken tireless efforts for the design of new academic programs. Contribution of all those and especially Mr. Deepak Jadiye, OSD (ex- employee from the Dept of Higher and Technical Education) were acknowledged with special mention. With motivation and guidance from the Chancellor, under the able leadership of the Vice Chancellor and with support from the Industry and Government this day came into reality – The Dream Come True– ICT Mumbai flying high up– spreading its wings beyond Mumbai– to make a mark on Global Map in next 10 years!!! I sincerely believe we will create new history with the help of all stake holders. I look forward to support from all of you dear alumni. 🎓



Focus



Prof G D Yadav's Vision

A position of Associate Dean (Industries and Internship) is created for both campuses. The students (60) will be divided into two batches which will alternate between classroom term and industrial term.

This is a unique program. Since the students are only 12th standard pass, specially designed subjects are introduced during Trimester 1. These will prepare them for Work terms.

Prof. Yadav also shared the new design of 5 years integrated Master's program. It has Chemical Engineering as Major and with chemical technology (e.g. foods, lipid, in materials, pharm, energy etc.) as minor degree. The pattern is trimester based and in 5 years (15 trimesters), the student will go to the industry alternate trimester (6 times, amounting to 2 years industrial exposure). Prof. Yadav also briefed on Executive Master's program for industry persons- the first of its kind in the country. Prof. Yadav also shared with the audience how the IOC Bhubaneswar campus is born with the participation of IIT-Kharagpur. He also shared the various Centres of Excellence that will be started in the 2 campuses Jalna and Bhubaneswar. He stated that there will be no departments or schools but only Centres of Excellence

for Research and Innovation. Of the total 32 planned Centres, some will be at Jalna and some at Bhubaneswar. Finally he shared his dream and vision for ICT. Some of the highlights of his passionate address are as follows:

- To be in Top 100 Universities in the World in next 10 years
- To have 500 top class faculty with 5000 students across three campuses
- To create job providers instead of job seekers
- To create a corpus of Rs 3500 Cr (~USD 0.5 Billion) by generating IPR and developing technologies in all areas of chemical and allied industries, energy, materials and biological sciences and technology,
- The program will have total 15 trimesters: Classroom Term (9) and Work Term (6).

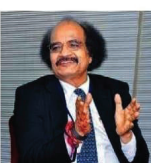
This is a unique program. Since the students are only 12th standard pass, specially designed subjects are introduced during Trimester 1. These will prepare them for Work terms. Programming languages R, Python, Mat Lab will be taught along with CAD/CAM and instrumental methods of analysis in Chemistry and Physics. The internship will be in all types of industries, government labs, software and hardware companies, including industries in India and abroad. ICT has planned to sign MOU for accommodation 300 Integrated

लोकमत

'लोकमत' कॉफी टेबलमध्ये कुलगुरु डॉ. जी. डी. यादव यांच्याशी दिलखुलास चर्चा

उद्योग क्षेत्रासाठी 'आयसीटी' ठरणार वरदान

'आयसीटी' जातून वेगळी उपेक्षेक धरून बनवण्याची काही मागणी आहे. यदव, ऑगोराव्हेरीतील 'सौराष्ट्र' संस्थेचे अध्यक्ष म्हणून काम करत असून, त्यांनी 'आयसीटी' विभागात आयसीटीचे उच्च शिक्षण देण्याची मागणी पुढेढ्यावेत असे म्हणून सांगितले आहे. यातून पुढील पाठ्यात त्यांच्या विचार प्रवाहाचा सारांश देत आहोत.



सोळाव्या वर्षी यदव यांनी 'आयसीटी' विभागात आयसीटीचे उच्च शिक्षण देण्याची मागणी पुढेढ्यावेत असे म्हणून सांगितले आहे. यातून पुढील पाठ्यात त्यांच्या विचार प्रवाहाचा सारांश देत आहोत.



मुंबई आणि भारत देशातील आयसीटी क्षेत्रातील प्रगतीबद्धता आणि यशस्वीता यांच्याबद्दल यदव यांनी आपले विचार व्यक्त केले. आयसीटी क्षेत्रातील प्रगतीबद्धता आणि यशस्वीता यांच्याबद्दल यदव यांनी आपले विचार व्यक्त केले.

व्ही.ए.ए.सी. परीक्षा घेऊन आयसीटी विभागात आयसीटीचे उच्च शिक्षण देण्याची मागणी पुढेढ्यावेत असे म्हणून सांगितले आहे. यातून पुढील पाठ्यात त्यांच्या विचार प्रवाहाचा सारांश देत आहोत.

दहा वर्षांत ४४० पेटंट आयसीटी क्षेत्रातील प्रगतीबद्धता आणि यशस्वीता यांच्याबद्दल यदव यांनी आपले विचार व्यक्त केले.

सुविधा मिळवण्यास योग्य आयसीटी क्षेत्रातील प्रगतीबद्धता आणि यशस्वीता यांच्याबद्दल यदव यांनी आपले विचार व्यक्त केले.

अभियांत्रिकी सुविधाही आयसीटी क्षेत्रातील प्रगतीबद्धता आणि यशस्वीता यांच्याबद्दल यदव यांनी आपले विचार व्यक्त केले.

संपादन : रम निखर



Masters students and 300+ Masters Students on the main campus.

For the campuses at Jalna and Bhubaneswar will have the following features:

A position of Associate Dean (Industries and Internship) is created for both campuses. The students (60) will be divided into two batches which will alternate between classroom term and industrial term. The batches A (30) and B (30) will be together during Trimester 1 (T1) and there after Batch A will continue in the class during Trimester 2 (T2) whereas Batch B will go for internship. The week will be of 6 days and there will be only a week's holiday at the end of each term. Trimester 3 (T3) will be replica of Trimester 2 (T2) for students of Batch B. This way the students will continue alternating. Enough number of electives and minor subjects will be added during the interim terms.

Both Batches A and B will come to the class together during Trimesters 14 (T14) and 15 (T15) to graduate together. During T14 and T 15 the students will study courses on management, finance, environmental laws, legal issues, entrepreneurship and sustainability and work on a group project called Start-Up Project. The students will be divided in 12 groups with mixture of students from Batch A and B, who would have worked in different industries, and given a project based on research done in ICT.

They will repeat experiments to verify data, develop a green process for the given project, collect information on kinetics, reactor design, safety, market, capacity and potential industrial zone, etc. and will prepare a feasibility report to start a company and will be helped to meet venture capitalists.

This Integrated M. Tech. is first of its kind in India.



Local Advisory Committee

Local Advisory committee has been formed to assist smooth functioning of the new campus. The constitution is as follows:

Name	Designation
Prof. S.S Lele	Chairman, Campus Director
Shri. Govardhan Agarwal	President, UAA Marathwada Chapter
Shri Ram Bhogale	President, CMIA
Shri. Prasad Kokil	President, CMIA's Nominee
Shri. Kishor Agarwal	President, Jalna Entrepreneurs Asso.
Shri. Vinod Lahoti	President, Rotary Club of Jalna
Shri. Ravindra Binvade	Collector, Jalna
Shri. Santosh Khandekar	Municipal Chief Officer, Jalna
Shri. Mahesh Shivankar	Jt. Director, DTE, Aurangabad Region
Shri Suresh Agarwal	Chairman, Beej Sheetal
Shri. Ashish Mantri	VC's Nominee
Shri. Manoj Pangarkar	VC's Nominee
Dr. Parag Nemade	Member Secretary

This committee met on September 10, 2018 and on October 6, 2018. Prof. G.D. Yadav, Vice Chancellor was present for the first LAC meeting.



Visit by Shri Parakash Jawdekar

Union Minister of Human Resource Development (MHRD)



It was indeed wonderful to receive such important personalities at the Campus

In Marathi it is said “साधुसंत येती घरा, लोच दिवाळी दसरा” !! Indeed for ICT – MARJ the festival season started when Union Minister of Human Resource Development (MHRD) Shri Parakash Jawdekar visited ICT-MARJ campus on Sept 10, 2018. Maharashtra President

of BJP, Shri Raosaheb Dadarao Danve, a public figure, politician and social worker in the Jalna area was instrumental for this visit. It was indeed wonderful to receive such important personalities at the Campus which was just born 10 days back!!! 🎓

Academic Update

The ICT- Marathwada Campus was inaugurated on 28th Aug. 2019 and the academic activity started from very first day. Prof. P.R. Vavia, Dean (Academic Program) addressed the students in the afternoon and then Mrs. Madhavi Wadkar, Librarian briefed the MARJ students. From next day various experts were invited for teaching the students on soft skills. Mr. Abhijeet Kulkarni and Mr. Noel talked on professional values and ethics. It was followed by a session on Art of Living by Mr. Akhil Bhalekar. Next day the students learnt similar subjects and also entrepreneurship, ethical business and financial management. This session was conducted by Mr. Lahoti. Teaching of all the subjects has started full fledge. ICT-Jalna Campus also works on all Saturdays and Sundays to adjust time table with some visiting faculty. Special thanks to Principal Dr. S.K. Biradar and other teachers for extending cooperation in conducting engineering drawing classes in the campus of Matsyodary Engg. College.

ICT Mumbai Faculty Visits

- Dr. Ashwin Mohan, Physics Department, ICT, Mumbai along with Mr. Milind Thorat visited Jalna campus during 27-29 Sept. 2018.
- Professor Anand V. Patwardhan, Chemical Engineering Department, ICT, Mumbai visited Jalna Campus during 7-8 Oct. 2018 and taught some part of “Introduction of Chemical Engineering”. 🎓



Faculty Profile

ICT Jalna Campus



Prof. S. S. Lele

Prof. S. S. Lele

Director and Professor, Fellow of BRSI, Fellow of Maha.Acd. of Sc.

(director@marj.ictmumbai.edu.in)

Awards & Honors :

- UDCT Alumni Association Distinguished fellow, 2015
- Zee Marathi 'Uncha Maza Zoka' Woman achiever award, 2016
- 110 Research papers, 2 patents granted, several technology transfers and mentor of 2 start ups in fruit and vegetable processing sector. Working for last 40 years for popularizing science through AIR talks, TV interviews, short films, books and sessions on career selection and positive thinking.



Dr. Girish Joshi

Dr. Girish Joshi

Associate Professor, Engg. Physics and Materials

(gm.joshi@marj.ictmumbai.edu.in)

Awards & Honors:

- National Best Teacher Award, 2017 (by Krishnamurthy Trust, Tirupati)

Research Interests:

- Polymer Nanocomposites- Battery Electrolyte Applications, Dielectric Properties
- Graphene Oxide- Quantum dots, thermistor, capacitor Applications
- Polymer Blends- Engg. Applications, thermal conductivity, Tribology, High performance composites
- Metal Precursor- Electrical and optical properties

Publications

- International – 100+
- Patents – 01 (filed)
- Students Guided: Masters: 3 completed Ph.D.: 6 completed

Selected Publications

- D Arthisree, GM Joshi, Graphene

oxide derived high dielectric constant of polymer blends, Materials Research Express 5 (7), 075304, 2018

- A Joseph, GM Joshi, Durometer test and impedance measurement of metal precursor reinforced polymer composites, Measurement 122, 320-324, 201, 2018
- JH Joshi, GM Joshi, MJ Joshi, HO Jethva, KD Parikh Raman, Photoluminescence, AC Electrical Studies of Pure and L-serine Doped Ammonium Dihydrogen Phosphate Single Crystals: The Understanding of Defect Chemistry in Hydrogen Bonding New Journal of Chemistry, 2019 (just online)

Dr. Parag Nemade

UGC Assistant Professor at ICT Mumbai On deputation in MARJ and also Warden

(pr.nemade@ictmumbai.edu.in)

Awards & Honors:

- DAE Young Scientist Award, 2013 (BRNS, Dept. of Atomic Energy)
- Re-invent The Toilet Challenge, 2013 (BIRAC-Bill and Melinda Gates Foundation)
- Chevening-Rolls Royce Science, Innovation and Leadership Fellowship, 2016, (Foreign and Commonwealth Office, Govt. of UK-Rolls Royce Plc)

Research Interests:

- Membrane Separations- Aqueous Separations, Organic-Organic Sep
- Catalysis and New Materials- New Catalysts, Scale-up, Catalysis with Graphene oxide, Silicones, additives.
- Water and Sanitation- Water-free Toilets, Waste water treatment, Waste to wealth, new building materials
- Biosensors- Pesticide detection, milk adulteration

Publications

- International – 16
- Patents – 05 (filed)



Dr. Parag Nemade

- Students Guided: Masters: 23 completed, Ongoing- 10 Ph.D.: 3 completed, Ongoing- 5

Selected Publications

- Zambare, R. S., Dhopte, B. B., and Nemade, P. R.* Polyamine functionalized graphene oxide polysulfone mixed matrix membranes with improved hydrophobicity and anti-fouling properties, Desalination 2016, 403, 24-35
- Kadam, M. M., Dhopte, K. B., Jha, N., Gaikar, V. G., and Nemade, P. R.* Synthesis, characterization and application of γ -MnO₂/graphene oxide for the selective aerobic oxidation of benzyl alcohols to corresponding carbonyl compounds, New J. Chem. 2016, 40, 1436-1442
- M. Zhou, P. R. Nemade, X. Lu, X. Zeng, E. S. Hatakeyama, R. D. Noble, and D. L. Gin, "New Type of Membrane Material for Water Desalination Based on a Cross-Linked Bicontinuous Cubic Lyotropic Liquid Crystal Assembly," J. Am. Chem. Soc., 2007, 129, 9574-9575.



Dr. Sandip Shinde



Dr. Manoj Jadhao

Dr. Sandip Shinde

Associate Professor of Industrial Chemistry

(ss.shinde@marj.ictmumbai.edu.in)

Awards & Honors:

- Ramanujan Fellowship, CSIR-National Chemical Laboratory, Pune, India
- Young Scientist Fast-Track Fellowship, Department of Science and Technology, India
- JSPS Post-Doctorate Award, Hokkaido University, Japan
- Jung-Seok International Ph.D. Fellowship, Inha University, South Korea

Research Interests:

- **Organic Chemistry-** Organo-Fluorine molecules, Agrochemical and Drug Development
- **Biochemistry-** Chemo-Enzymatic Reactions, Identify biosynthesis of Terpenoids based on Gas-Chromatography analysis.
- **Green Chemistry-** One-pot Reactions, Ionic Liquids Applications

Publications

- International – 29
- Patents – 10
- Students Guided: Masters: 20 completed, Ph.D.: 3 completed

Selected Publications

- Shinde, S.S., et.al., "Enzymatic construction of skipped methyl-substituted octaprenyl side chain of Longest in : Involvement of homo-IPP as a putative common extender unit." Angew. Chem Int. Ed. 2018, 6629.
- Shinde, S.S. et. al, "One-pot Sequential Bromination and Fluorination to Access 3- Fluoroimidazo [1, 2-a]pyridines from Arylketones." Eur. J. Org. Chem. 2018, 3432.
- Minami, A., Shimaya, M., Suzuki, G., Akira M., Shinde, S.S., et.al. "Sequential enzymatic epoxidation involved in polyether Lasalocid-A biosynthesis." J. Am. Chem. Soc. 2012, 7246
- Shinde, S.S., et.al "Synergistic effect of two solvents, tert-alcohol and ionic liquid, in one molecule in nucleophilic Fluorination." Org. Lett. 2008, 733.

Dr. Manoj Jadhao

Assistant Professor in Advance Instrumentation

(mm.jadhao@marj.ictmumbai.edu.in)

Awards & Honors:

- National Postdoc Fellowship, 2017 (DST-SERB, Government of India)

Research Interests:

- **Photodynamic therapy (PDT)-** Overcoming the limitation of PDT and development of smart photosensitizer
- **Smart drug delivery system-** Development of Target selective drug delivery system Development of Target selective drug delivery system.
- **Amyloid Aggregation and misfolding** Investigating monomer- oligomer transition and development of small modulators for A aggregation
- **Photophysics-** Photophysical investigating of bioactive compounds

Publications

- International – 11





Dr. Sandeep Bhairat

- Students Guided: Masters: 01 completed

Selected Publications

- M. Jadhao, P. Ahirkar, R. Joshi, H. Kumar, S. K. Ghosh*, "Interaction of aluminium phthalocyanine with aziridinylquinone in biomimicking micellar microenvironment for the application of photodynamic therapy: Effect of micellar hydration," Journal of Photochemistry and Photobiology A: Chemistry, 316, 2016, 62-68.
- M. Jadhao, C. Das, A. Rawat, R. Joshi, H. Kumar, S. Maiti and S. K. Ghosh*, "Development of Multifunctional Heterocyclic Schiff Base for as a Potential Metal Chelator: A Comprehensive Spectroscopic Approach towards Drug Discovery," Journal of Biological Inorganic Chemistry, 2017, 22, 47-59
- R. Joshi, O. R. Meitei, M. Jadhao, H. Kumar and S. K. Ghosh* "onformation controlled turn on – turn off phosphorescence in metal free biluminophore: Thriving the paradox that exists for organic compounds" Physical Chemistry Chemical Physics, 2016, 18, 27910.

Dr. Sandeep Bhairat

Assistant Professor of Engineering Mathematics

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Awards & Honors:

- University Scholar Fellowship, 2015 (Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.)

Research Interests:

- Differential and Integral Equations)- Cauchy-type Problems, Nonlinear Fractional Differential and Integral Equations, Fractional Integral Inequalities.
- Qualitative Theory of Fractional Differential Equations-Existence, Uniqueness and Stability of Solution, Non-existence of Global Solutions, Global Stability of Solution, Ulam-type Stability.
- Mathematical Tools-MATLAB, Mathematica, Maple, LaTeX.
- Programming languages- C, Python, R.



Mr. Majeed Jamakhani

Publications

International – 07

Selected Publications

- Dhaigude D. B. and Bhairat S. P.*, "Local existence and uniqueness of solution for fractional differential problem with Hilfer-Hadamard fractional derivative", Nonlinear Dynam. Syst. Theory, 18 (2) (2018) 144-153. Infor. Math Publishing Group/1562-8353 (print)/1813-7385 (online) /http://endst.kiev.ua144.
- Dhaigude D. B. and Bhairat S. P.*, "Existence and uniqueness of solution of Cauchy-type problem for Hilfer fractional differential equations", Communications in Applied Analysis, 22, No. 1 (2018), 121-134. Dynamic Publishers, Inc., Acad. Publishers, Ltd. USA.
- Bhairat S. P.* and Dhaigude D. B., "Existence of solutions of generalized fractional differential equation with nonlocal initial condition", Mathematica Bohemica, (2018), DOI: 10.21136/MB.2018.0135-17.

Mr. Majeed Jamakhani

Tutor

(*ma.jamakhani@marj.ictmumbai.edu.in*)

Awards & Honors:

- DBT CTEP Travel grant award Govt of India, 2015 (Institute of Food Technologist (IFT), USA.)
- UGC SAP fellowship, 2013 (Institute of Chemical Technology

Research Interests:

- Food Allergy- Identification of allergens, Epitope analysis, Structural features of antigen antibody interaction
- Recombinant DNA Technology- Polymerase Chain reaction, Primer Design, Transformation.
- Bioinformatics Tools-Shrodingger Desmond, GLIDE, PRIME, AUTODOCK, MOTSUR, NGS analysis.
- Programming languages- C, Python, Java

Publications

International – 06

Selected Publications





Prof. Sharad Lahoti

- Majeed Jamakhani, Smita S. Lele, Bhagwan Rekadwad. "In silico assessment data of allergenicity and cross-reactivity of NP24 epitopes from Solanum lycopersicum (Tomato) fruit. Data in Brief. <https://doi.org/10.1016/j.dib.2018.09.074> .2352-3409/ © 2018.
- Majeed Jamakhani, Smita S. Lele. Allergenic study and epitope analysis of Indo-American hybrid Tomatoes. International Journal of Advanced Biotechnology and Research ISSN 0976-2612, Online ISSN 2278-599X, Vol-7, Issue-3, 2016, pp1025-1036
- Majeed Jamakhani, Smita S. Lele. Nanometrology in biological and medical sciences. International Journal of

Advanced Biotechnology and Research .
ISSN 0976-2612, Vol 2, Issue 1, 2011, pp
213-223

Prof. Sharad Lahoti

Associate Dean (Industry)

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- He has a working experience of more than 40 years in Private sector industries in Electronics, Plastics, Fertilizers, Agro Inputs etc. and also in Banking sector.
- He has good experience in day today administration of industrial units, including all management functions, ISO & Ecocert Certifications, DSIR approval, Project grants, Industrial promotion schemes of Government



Admin Staff

Currently the Jalna Centre is like a small family with only few support staff.

- **Mrs. Neha Vyas** and **Mrs. Ambika Gudewar** opted to come here from Mumbai.
- In addition **Mr. Sainath Alsatwar**, **Mr. Sandeep Kadam** and **Mr. Rahul** are also working to look after office, labs, hostel and mess as well!
- **Mrs. Preeti Nemade** is working as Warden for girls hostel.

Fountain of Creativity

Sketches by Manthan Dixit (1st year)



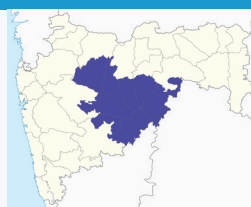
मराठवाडा

मायभूमी ही माझी,
संतांची इथे वस्ती,
मराठवाड्याची
हीच खरी संपत्ती.

गोदाचा काठ वसला
नंदिग्राम येथे,
औरंगाबाद येथे
लेणीची हस्ती.

लातूरही
शिक्षणाची शान,
येथील संस्कृतीवर
आमुचा अभिमान.

परभणी हे कृषीचे धन,
हिंगोली, बीड,



उस्मानाबाद, जालना
व्यापाराचे माहेरघर.

इथल्या मातीत रुजतो
स्वाभिमान,
येथे होतात स्वप्ने
साकार.

Poem by
Sakshi Jatkar
(1st year)



Nemade sir's Sketch by
Shriharsh Shete
(1st year)



Cocurricular Activities



▲ 30 innovative projects presented by engg. students from different institutes on the state level innovative projects competition 2K18 at Matsyodari College of Engineering

Pep-talks by successful entrepreneurs & industry experts

MARJ has started unique M.Tech. program in Chemical Engg. Major with some other minor specializations. The students are admitted after 12th. In 5 years span the students will be going to industrial training every 4 months. To make the students industry ready several new ideas are implemented by ICT with the vision of Padmashri Prof. G.D.Yadav Pep-talks by successful entrepreneurs and industry experts is one such initiative.

PEP TALK-1

Mr. Suresh Agarwal, Chairman Beej Sheetal was the first speaker in the series of pep talk by successful entrepreneurs. He interacted with MARJ students on 6th Sept. 2018 over an hour and shared his career graph and success story of Beej Sheetal, a leading name in Plant Tissue Culture. He advised one should pay attention towards all the things one encounters in his/ her life journey and Keep his mind open to all opinions and ideas. He emphasized "SUCCESS COME TO THOSE WHO ARE LOOKING FOR IT". Students asked several questions and also had one to one talk with Shri Sureshji.

PEP TALK-2

Shri Sunil Raithatha, Chairman of Vinodrai Engg. is known as Jalna Icon, an innovative engineer, entrepreneur with major focus on export was the second speaker in the Pep Talk series, Sept 22, 2018. He advised students to be global businessman rather than becoming only global consumer who buys imported brands. He started his career with L&T but quit in 4 years and came back to Jalna to be an entrepreneur. After several failures, finally he saw success. Now his company with a turnover of only 18 crore, exports Roto moulding machines in 55 countries.

He shared his IDEA OF Z TO A: which means a company should start trading in small markets, expand and then trade to bigger markets i.e. from Zambia to America. He also apprised that ideas are one's treasure and one should never ignore them. He told that as SOLDIERS GUARD POLITICAL BOUNDARIES WE ENGINEERS SHOULD GUARD ECONOMICAL BOUNDARIES. He concluded by saying that we should remove fear and let inner potential come out and guide others to be self-ignited. Students were excited to hear about the financial risks and adventures in real life.

MARJ faculty also went as resource persons to Matsyodari College of Engg. Prof. S.S.Lele gave motivational speech on career selection to the first year engg students on Sept 21, 2018. Dr. Girish Joshi and Dr. Majoj Jadhao spent 10th Oct. 2018 listening to over 30 innovative projects presented by engg. students from different institutes. Prof. Lele was invited as the chief guest along with some other industrialists. 🏠





Teacher's Day Celebration

On 5th September, the Teacher's day was celebrated in ICT Marathwada Jalna Campus by the students with great enthusiasm. Teachers day is celebrated to mark the birth anniversary of former President of India Dr. Sarvapalli Radhakrishnan and to pay tribute to all the teachers.

The program was commenced by the lighting of lamp by the hands of Director Prof.S.S. Lele. Students displayed their skills of music and instruments by performing various solo as well as group instrumental, vocal performances and skit to convey a student's devotion, love and respect to teachers.

On this occasion Prof. S. S. Lele addressed the students and appreciated their efforts. It is worth mentioning that with less than one day for preparation, the students displayed a marvelous ability to plan, practice and coordinate the event. Well done Team MARJ !!! 🎓



Hostel Facility

Total 59 students have joined for the integrated 5 yrs MTech program of which 49 students which include 9 girls have joined the Hostel. Others are local students. There are 20 students from Marathwada and rest from other parts of the state as well as few from other states.

Dr. Parag Nemade & Mrs. Preeti Nemade are acting as hostel wardens for boys and girls respectively. 🎓



Glimpses...



Mathematics Workshop by Dr. Sandeep Bhairat, Assistant Professor of Engineering Mathematics



Innovation Intercollegiate event at Matsyodari Engineering College

LAC members at Physics Lab



Industry Visits : 6 industry visits were organized in the very first week of opening Jalna Campus. From 3rd Sept. to 7th September, students were thrilled to go to various industries in Aurangabad and Jalna. Special thanks to CMIA and Shri. V.B. Joshi who were very enthusiastic in planning these visits that covered engineering, polymers, software, pharma and many other sectors. The list includes Garware Polyesters, Metalman Auto, Expert Global Soln., Atra Pharma and other, Vinodrai Engg. Etc.