



Streamlining minds

मागजल

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Academic year 2018-19



8th Convocation Address

- Prof. G D Yadav

MARJ News Letter



Blessings

Director mam's mother visited MARJ on 22nd April to bless all...



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Government of India, MHRD announced the 4th year national ranking of universities and institutes on April 8, 2019



*Nirf Ranking : With President of India
Prof. G D Yadav with other awardees ...*

From the Director's Desk



“

I take this opportunity to profusely thank our Chancellor, Vice-chancellor, all the Deans as well as Chamber of Marathwada Industries and Agriculture (CMIA) members, UAA members and well-wishers particularly from Marathwada region, to make the dream come true.

”

Dear Readers,

I am delighted to publish the 4th issue of Margjal at the end of the trimester II. The integrated M-Tech in Chemical Engineering (i-M-tech) is an innovative program introduced for the 1st time in India. It is offered at both the campuses of ICT (Marathwada & Odisha). As planned, Batch “A” comprising of 30 students (half of the class) successfully completed 1st Industrial Training (IPT-I). The performance of students was evaluated by a committee consisting of teachers as well as industry experts. The remaining class has successfully completed the academic term II subjects and final exam is also over. Now it's time for two batches to switch their role !!! It has been just one year, since the Bhumi-poojan at Siraswadi (proposed location of ICT Jalna) took place in the hands of Honourable Chief Minister Devendra Phadanvisji. Also were present, Shri Raosaheb Danve, M.P. and President, Maharashtra BJP, Shri Babanrao Lonikar, Guardian Minister and Shri Arjun Khotkar, Minister of State among many others. The UDCT Alumni Association and Chamber of Marathwada Industries and Agriculture (CMIA) assisted us in this endeavour. The 1st foundation day will be celebrated on 4th May 2019.

I take this opportunity to profusely thank our Chancellor, Vice-chancellor, all the Deans as well as Chamber of Marathwada Industries and Agriculture (CMIA) members, UAA members and well-wishers particularly from Marathwada region, to make the dream come true. At Mumbai campus, which started way back in 1933, over last few decades, land of 16 acres had become a constraint for the further growth because it was not possible to have Incubation/Innovation centre and Centre of excellence etc. Having started a new centre of ICT Mumbai in Marathwada now the limitations of space are overcome. This will surely enable ICT to make a mark on global map as leading institute in academics and research in coming years.

Once again a big THANK YOU



Professor S S Lele

FMASc, FBRS, FAFST

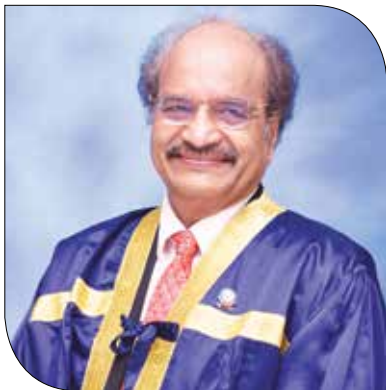
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The Vice Chancellor's Message



8th Convocation Address

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)



In a historic decision on February 12, 2018, the University Grants Commission has bestowed Category I Deemed to be University status to ICT which has maintained high academic standards (NAAC grade of A++ CGPA 3.77 out of 4).



The genesis of ICT, popularly called UDCT by old timers, is beyond fathom and imagination. We have completed 85 years of existence. Two programmes, Textiles and Chemical Engineering, to start with. The six branches of Chemical Technology: Dyestuff, Foods, Pharmaceuticals, Oils, Plastics and Paints completed 75 years. In fact in the IUFOST, 19th International Conference of Food Science and Technology, held in Mumbai, in October 2018, ICT was honoured for both these feats.

We have completed 10th year as an independent university which also received the top ranking in NAAC in engineering and technology. The MHRD/UGC granted us Category I status on 12th February 2018 which paved way for starting two new campuses and introduction of innovative programmes for the first time in our history. Despite many hurdles we have achieved many milestones which all of you should be proud of.

In a historic decision on February 12, 2018, the University Grants Commission has bestowed Category I Deemed to be University status to ICT which has maintained high academic standards (NAAC grade of A++ CGPA 3.77 out of 4). The Minister of Human Resource Development, Shri Prakash Javadekar announced that the Government is striving to introduce a liberalized regime in the education sector and emphasis is on linking autonomy with quality. Now, ICT will remain within the ambit of UGC and AICTE but will have immense freedom to start new courses, off campus centers, skill development courses, research parks and any other new academic programs which will be futuristic. ICT will also have the freedom to hire foreign faculty, enrol foreign students, give incentive based emoluments to the faculty, enter into academic collaborations and run open distance learning programmes. This freedom with a sense of responsibility and belonging will take us to top 200 in next 10-15 years. With the addition of two off campuses in Bhubaneswar and Jalna, we should ideally have a faculty strength of 500 and student strength of 10,000 with an aim of producing top class 500+ Ph.D.s, at least 10-20 entrepreneurs every year and promoting UG research, start-up companies and wealth generation. Talking of

wealth, ICT graduates contribute 8% of GDP. Indeed an unbelievable but admirable figure among comity of all branded institutes.

Our vision for next 15 years is:

1. Deliver academic programs of the highest quality – Integrated with industrial internships, trimesters, innovative, diverse and entrepreneurship oriented cross and multi-disciplinary programmes: Chemical Sciences, Engineering and Technology; Biological Sciences, Engineering and Technology, Materials Sciences, Engineering and Technology, Energy Sciences, Engineering and Technology, (encompassing Nano, Bio and Green Technologies)
2. Conduct impactful and world-class research; faculty to have alternate term free for research or internship in industry as consultants.
3. Generate intellectual property that improves productivity and competitiveness of the knowledge economy in India. Creating patent portfolio of at least 1000 patents of which at least 50 should be commercialized in next 5 years.
4. Pioneer a system of undergraduate education that combines classroom learning with extensive training in industry and research, promoting UG research and start-up companies.
5. Be a diverse, inclusive and egalitarian community of scholars and innovators
6. Incubate entrepreneurs and collaborate with industry in order to translate inventions to innovations
7. Enrich society through outreach, engagement and service
8. Partner with national and international institutions and industries to expand the frontiers of S & T
9. Lead innovation in educational practices
10. Serve the nation by volunteering insights and expertise in the formulation of development, industrial and economic policies
11. Increase the number of full-time faculty members and students to 500 and 5000, respectively, across all campuses
12. Increase the proportion of international students to 10%, with a particular focus on African, SAARC and South-East Asian nations
13. Recruit over 50 adjunct faculty members from industry, international academic partners and government laboratories to offer novel courses and mentor students.

We will also create Centres of Excellence in different areas:

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|---|--|
| • Advance Graphene Research | • Internal Quality Assurance Cell |
| • Cellular Agriculture | • Mathematical Sciences |
| • Centre of Toxicological Studies | • Metabolic and Genetic Engineering |
| • CO ₂ valorization | • Nano Drug Delivery |
| • Continuous Education for Plant Personnel | • Process Intensification and Innovation |
| • Crystallization, Filtration and Drying | • Process Safety Science and Engineering (with Gexcon) |
| • Drug Discovery Engineering | • Product Engineering |
| • Eco-friendly Plastic Processing and Recycling | • Promotion of Science and Technology |
| • Entrepreneurship Resource Centre | • Sustainable Energy Engineering |
| • Fibres and Textile Engineering | • Sustainable Fertilizer Technology |
| • Food Processing and Quality Assurance | • Technology Forecasting and Public Awareness |



- | | |
|---|---|
| • Functional fluids and Tribology | • Technology Transfer Cell |
| • Green Technology | • Technology Incubation Centre |
| • Herbal Technology and Natural Products | • Translational Research |
| • Home and personal care Products | • Undergraduate Research In Engineering (CURIE) |
| • Infectious Disease Control and Prevention | • Water Research |
| • Interfacial Science and Engineering | |

The list appears long but is achievable. Every faculty member should be a seed for such centres. We also need a lot of support for building and infrastructure on all three campuses. On the Matunga campus, we are building Research Centre with initial funding from DAE. However, the total cost is to the tune of Rs 200 Crore. Every lab, auditorium, classroom and facility can be named after donors. It can be under CSR, 100% IT benefit is also given under 80G and 150% under Section 35.

ICT has flourished and has the potential to be one of the finest institutes/universities in India which will be in top 100 in next 15 years. Then we will have 500 faculty, 10,000 students, 33 Centres. And we should be an institute of National Importance with a CFI tag. We should create an endowment of Rs 3500 Crore through IPR and start-up companies !!!! 🎓

Major Events at ICT Mumbai

- Annual day function of the ICT-Mumbai took place on 19 th March , 2019 in the morning part. Dr. M.P. Poonia, Vice Chairman, All India Council for Technical Education Delhi was the Chief Guest.
- On the same day evening Eighth Convocation of ICT took place where Shri Ajay G. Piramal, Chairman, Piramal Enterprise Limited was the Chief Guest. On this day total 612 students received Degrees - 226 Bachelors, 243 Masters and 143 Doctorates.

Nirf ranking – ICT rocks

We are happy to share the good news that Government of India, MHRD announced the 4th year national ranking of universities and institutes on April 8, 2019. This year the National Institutional Ranking Framework (NIRF) of MHRD awards were given in the hands of Shri Ramnath Kovind, Hon'ble President, Government of India. Our beloved Vice Chancellor Padmashri Prof. G.D.Yadav received these on behalf of ICT.

- 6th Rank Atal ranking of institutions on Innovation Achievements
- 27th Rank Overall
- 4th Rank Pharmacy Institutes
- 12th Rank Engineering Institutes
- 15th Rank Among TOP 100 Universities

More than 4500 university/institutions in the country participated in this nationalized ranking. It's a team work and outstanding contribution of faculty members, support staff, students, alumni and well-wishers of ICT !!!

Acknowledgement

- Prof. Smita Lele Endowment has been activated through her personal donation of Rs. 4 lakhs made in last two years. A series of merit and leadership awards are planned to be given from the interest earned and she plans to continue donation to build the corpus. The first award is started as a merit award at Jalna campus and is already announced. Ameya Mantri will be getting the first award (Rs 5000 plus certificate) for getting highest marks at Trimester 1 of iMTech.
- Shri Shrad Lahoti and his wife donated Rs. 30,000/- to ICT Jalna for supporting internship of some students who are needy but did not receive adequate stipend to cover conveyance etc. This money will be disbursed as per the recommendation of the donor.
- We are very much thankful to all the donors and look forward for more support from others too !
- We also thankfully acknowledge support for following industries for accepting our Batch "B" students for IPT (from May7 onwards).

Industry from Jalna	Industry From Aurangabad
Apollo Plastic Industries	Adherence Techno Product Pvt Ltd
Bhakti Solvent Extraction Pvt. Ltd.	Shree Tubes Pvt Ltd
Dukes SRJ Foods	
Gauri Agro Tech Industries Pvt. Ltd.	Industry From Other Area
Kalash Seeds Pvt Ltd	Tata Motors Ltd, Dharwad
Kalika Steels Pvt Ltd	Trilok Foods India, Satara
Mahalaxmi Cotspin Ltd	
Metarolls Steels Group	
Poland Steels Group	
Rajuri Steels Group	
Roopam Steels Group	
Smoothline Cable Industries	
Tanmay Plastic Films	
Vinodrai Engineering Pvt. Ltd.	

Social Responsibility

"In a world of lies and liars, an honest work of art is always an act of social responsibility."

- Robert McKee

Blood Donation

Krutarth Pandit and Prasad Lakade, while doing IPT at Metaroll Industries, donated blood in the Blood Donation camp arranged on 7th April at the company. Greetings and Keep it up!!!



Special Events

110th International Women's Day Celebration

Matsyodari college of Engineering staff in the Women's day program



International Women's Day is celebrated in many countries around the globe. It is a day when women are recognized for their achievements without regard to divisions, whether national, ethnic, linguistic, cultural, economic or political. The earliest Women's Day observance, called "National Woman's Day," was held on February 28, 1909, in New York, organized by the Socialist Party of America. At the 1910 International Socialist Woman's Conference suggested German revolutionary Clara Zetkin proposed that 8 March be honoured as a day annually in memory of working women.

International Women's Day was celebrated at ICT Marj on 8th March 2019. Women Faculty and Girls students of MSS Engineering College were invited for the programme arranged on this day. On this occasion we invited Dr. Usha Zehr, Renowned Scientist, Life Sciences & Biotech, a VASVIK Award winner, and Director of Mahyco Ltd, as the Guest of Honour for the Women's Day programme.

"There is only one thing in the Universe which a woman still needs to learn and that one thing is that, 'she has the power to turn the direction of the wind on her own'. On this note, the celebration of the International Women's Day initiated. Prof. Lele welcomed Dr. Usha and introduced her to the gathering. Dr. Usha gave an informative lecture on her journey in the field of scientific research. She advised students to never get bogged down by the problems and always strive for the best.

Prof. Lele addressed the students and shared her experiences. She said that now gender biases are getting eliminated with the advent of modern technological developments. "SHE" is more powerful than "HE". This is proven from the fact that 'HE' comes into existence only after 'S' is shed from 'SHE' said by the Prof. Lele & by saying this she created the energetic atmosphere in the auditorium. After the motivating words from Prof. Lele, students interacted with the guest and sought answers to their various questions. Students thoroughly enjoyed the company of Iconic Women scientists in ICT Marj premises. For this program staff from the Matsyodari college of Engineering were also invited. The program concluded on a very cheerful note. 🎓

डॉ. स्मिता लेले (Loksatta Chaturang Dt. 8 March 2019)

प्रा. डॉ. स्मिता लेले यांना संशोधन क्षेत्रात ४० वर्षांचा अनुभव आहे. १९७७ मध्ये हिंदुस्तान लिट्हरमध्ये पहिली महिला अभियंता म्हणून त्यांनी करियरला सुरुवात केली. त्यानंतर मुंबईमध्ये रसायन तंत्रज्ञान (आयसीटी) संस्थेत संशोधन आणि शिक्षण असे कार्यक्षेत्र निवडले. २०१८ मध्ये त्यांची निवड 'आयसीटी'च्या मराठवाडा उपकेंद्रासाठी 'पहिली संचालिका' म्हणून झाली आहे. शंभराहून अधिक शोधनिबंध आणि दोन पेटंट त्यांच्या नावावर आहेत.

पन्नास वर्षांपूर्वी कारखान्यामध्ये एखादे यंत्र चालविण्यासाठी उंचावर चढून, खूप जोर लावून कुठले तरी चाक फिरवा, व्हॉल्व्ह उघडा अशी ताकद लागणारी कामे होती परंतु आता संगणकाच्या मदतीनेच हे सगळे केले जाते त्यामुळे तेथील तंत्रज्ञ आणि अभियंता स्त्री आहे की पुरुष याने काहीही फरक पडत नाही. हे शक्य झाले आहे ते सामाजिक आणि वैज्ञानिक क्रांती आणि प्रगतीमुळे आणि म्हणूनच पुढील २०-३० वर्षांत या क्षेत्रात स्त्री-पुरुष भेद कमी महत्त्वाचा ठरणार आहे.

जगातील स्त्रीशास्त्रज्ञ कोण म्हटल्यावर बहुतेकांच्या तोंडून नोबेल पुरस्कार मिळविणारी मादाम मेरी क्युरी हेच नाव येईल. आपल्या भारतामध्ये स्वातंत्र्यपूर्व काळातील स्त्रीवैज्ञानिकांची यादी केली तर जानकी अनमल, डॉ. आनंदीबाई जोशी, असीमा चटर्जी, कमला सोहनी इत्यादी नावे डोळ्यांसमोर येतात. कर्करोग संशोधनामध्ये प्रामुख्याने काम केलेल्या स्त्रीशास्त्रज्ञ म्हणजे पद्मभूषण डॉ. कमल रणदिवे. यांचे विशेष योगदान म्हणजे त्यांनी सुरू केलेली आयडब्ल्यूएसए (इंडियन वुमन सायंटिस्ट असोसिएशन) ही हजारो स्त्रीशास्त्रज्ञांना एकत्र आणून विज्ञान प्रसार करणारी संस्थेची स्थापना. सुमारे ४५ वर्षे या संस्थेच्या माध्यमातून-कित्येक स्त्रीशास्त्रज्ञांनी समाजप्रबोधन आणि विज्ञानप्रसार याचे काम केले आहे.

'लीलावतीच्या कन्या' या पुस्तकात काही स्त्रीशास्त्रज्ञांची यशोगाथा लिहिली आहे. या सर्व मूलभूत विज्ञान संशोधन करणाऱ्या आहेत पण भारताला आज जास्त गरज ही तंत्रज्ञान आणि अभियांत्रिकी विषयात संशोधन करून ज्ञानातून संपत्ती निर्माण करण्याची आहे. तंत्रज्ञान व अभियांत्रिकी शाखेत स्वातंत्र्यपूर्व काळात जन्माला येऊन शास्त्रज्ञ झालेल्या स्त्रियांची नावे तर अगदी बोटार मोजता येतील इतकी कमी आहेत. परंतु गेल्या ३० वर्षांत मुर्लीना शिकविण्याचा विरोध कमी झाल्यामुळे व अभियांत्रिकी क्षेत्रात ३० टक्के जागा स्त्रियांसाठी राखीव ठेवल्यामुळे आता देशामधील प्रत्येक उत्तम संशोधन केंद्रामध्ये (आयआयटी, सीएसआयआर लॅब्ज वगैरे) १०-२० टक्के स्त्रीसंशोधक आढळून येतात. यूडीसीटी/यूआयसीटी/ आता आयसीटी म्हणून प्रख्यात असलेली मुंबईची रसायन तंत्रज्ञान संस्था येथेदेखील आता ३० टक्के स्त्रीशास्त्रज्ञ काम करताना दिसतात. अवघ्या १००-१२५ शास्त्रज्ञ शिक्षक असलेल्या या संस्थेत पाच-सहा जणी जागतिक कीर्तीच्या स्त्रीशास्त्रज्ञ सध्या कार्यरत आहेत आणि प्रा. बचवाल व प्रा. पुष्पा कुलकर्णी अशा काही जणी निवृत्त झाल्या आहेत.

या क्षेत्रातील पुढच्या काळात काय चित्र दिसेल याचा विचार करता मला असे वाटते की, पुढील १५-२० वर्षांत स्त्रिया पुरुषांच्या बरोबरीने नसल्या, तरी स्त्रीशास्त्रज्ञ, तंत्रज्ञ, संशोधक यांची संख्या भारतामध्ये ३०-४० टक्के नक्कीच असेल. राष्ट्रीय आणि जागतिक पातळीवर नाव कमावण्यासाठी २८-३० वर्षे संशोधन क्षेत्रात घालवावी लागतात. त्यामुळे सध्या वयाच्या तिसीत असणाऱ्या स्त्रिया १५-२० वर्षांत आपल्या कामाचा ठसा समाजाच्या प्रगतीमध्ये, आर्थिक विकासामध्ये दाखवू शकतील. पण एकूणच समाजाचा विचार करता या क्षेत्रातील स्त्री-पुरुषांचे सध्याचे प्रमाण असमान आहे हे नक्कीच. मुळात समानता म्हणजे काय आणि समतोल म्हणजे काय? गणिताप्रमाणे प्रत्येक गोष्ट विभागून करणे आणि प्रत्येक क्षेत्रामध्ये ५० टक्के पुरुष, ५० टक्के स्त्री असणे हे स्वप्नच मुळात असमतोल आहे. १९९० मध्ये जेव्हा प्रथम मी जपानला गेले तेव्हा तिथल्या हॉटेलमध्ये कर्मचारी म्हणून १०० टक्के स्त्रियांना काम करताना पहिले. स्वागत कक्ष, साफसफाई, सुरक्षा, स्वयंपाक, हॉटेलमध्ये राहणाऱ्यांना लागणारी सेवा पुरविणे अशा प्रत्येक ठिकाणी स्त्रियाच काम करीत



होत्या. मी कुतूहलाने मोडक्यातोडक्या जपानी भाषेत बोलून चौकशी केली तेव्हा एक जण म्हणाली, "सगळे जपानी पुरुष कारखान्यामध्ये काम करतात. ज्या ठिकाणी खूप जास्त शारीरिक ताकदीची गरज नाही अशी सगळी कामे, अगदी पुरुषांचे केस कापणेसुद्धा आम्ही जपानी स्त्रियाच करतो." याला मी म्हणून की गणिती समानता नाही पण समतोल आहे.

पूर्वीच्या काळात म्हणजे माझ्या तरुणपणी भारतीय स्त्रीला स्वतःलाच असे वाटत असे की मी संसार, कुटुंब, घरकाम आणि करियर याचा तोल सांभाळला पाहिजे. म्हणून कालच्या संशोधक स्त्रीला घर आणि प्रयोगशाळा याची तारेवरची कसरत करावी लागे. कदाचित म्हणूनच काही स्त्रिया स्वेच्छेने अविवाहित राहिल्या आणि काहींनी लग्न केले तरी मुलांची जबाबदारी निर्माण केली नाही. परंतु आता काळ बदलला आहे. आजच्या स्त्रीला काय हवे आहे हे तिने ठरवले पाहिजे. काही तरी कमावताना काही तरी गमवावे लागते. मुलांना जन्म देऊन निदान पहिल्या वर्षी तरी त्याची रोजची प्रगती स्वतः पाहायची इच्छा असेल, तर त्या आईने आपल्या करियरमधला ब्रेक किंवा मंदगती करियर आनंदाने स्वीकारले पाहिजे. या ठिकाणी एक मुद्दा लक्षात घेतला पाहिजे तो म्हणजे आपण उच्चशिक्षित स्त्रियांबद्दल बोलत आहोत आणि नोकरी करणाऱ्या स्त्रियांविषयी नाही. केवळ पदवीधर अथवा त्याहून कमी शिकलेल्या स्त्रीला मिळालेली नोकरी एकदा सोडली तर पुन्हा संधी मिळेलच असे नाही. परंतु विज्ञानशास्त्रज्ञ, तंत्रज्ञ, संशोधक स्त्रिया या उच्चशिक्षित असल्यामुळे करियरमध्ये खंड पडला तरी त्यांना पुन्हा करियर सुरू करता येणे शक्य आहे. आता असे समजा की एखादा पुरुष ४०व्या वर्षी जेथे पोहोचेल तेथे पोहोचायला स्त्रीला कदाचित जास्तीची दहा वर्षे लागतील. पण त्याच्या बदल्यात तिला मातृत्वाचे सुख पूर्ण उपभोगता येईल, पहिली एक-तीन वर्षे मुलाचा सहवास मिळेल, त्याच्याशी मातेचे उत्तम नाते तयार होईल, दोन संशोधन निबंध कमी लिहिले जातील. पण ही स्त्रीवर जबरदस्ती नाही आणि नसावी. जर तिला खूप लवकर पुरुषांच्या बरोबरीने किंवा त्याच्या पुढे खूप उंच उडायचे असेल तर 'स्काय इज लिमिटेड' असा कुटुंबीयांचा विचार हवा. नवरा व सासर-माहेर यांनी अडथळा बनू नये.

मी स्वतःही कालची स्त्रीतंत्रज्ञ-शास्त्रज्ञ आहे, आजचे बदल मला काय जाणवतात तर सुशिक्षित कुटुंबात मुलगा-मुलगी असा भेद केला जात नाही व मुलींना हवे ते व हवे तितके शिक्षण घेता येते. आजच्या स्त्रीला अधिक आत्मविश्वास, आर्थिक स्वातंत्र्य असून ती स्वतःचे निर्णय स्वतः घेण्याचा प्रयत्न करते. विज्ञान आणि तंत्रज्ञान अधिक प्रगत झाल्यामुळे आधीची जी कामे (उदा. पेट्रोलियम रिफायनरीमध्ये एक मोठे चाक हाताने फिरविणे) ज्याला खूप शारीरिक ताकद लागते अशी बहुसंख्य कामे संगणकाच्या साहाय्याने एक बटण दाबून होत असल्यामुळे, ते बटण दाबणारा हात स्त्री किंवा पुरुष कोणाचाही असू शकतो. स्त्रीची शारीरिक ताकद पुरुषापेक्षा कमी असते, मानसिक ताकद कदाचित जास्त असते, पण मानसिक व भावनात्मक विचारसारणी वेगळी असते. परंतु बुद्धीसाठी आणि आत्म्यासाठी स्त्री-पुरुष असा काही भेदभाव नाही. आहारशास्त्रामध्ये किशोरवयीन मुलींनी काय खावे, मातेने काय खावे अशी वेगळी पुस्तके आहेत किंवा मानसशास्त्रामध्ये 'चाइल्ड सायकॉलॉजी, वुमन सायकॉलॉजी असे वेगवेगळे विभाग आहेत. परंतु बौद्धिक किंवा आध्यात्मिक पातळीवर कधी असा भेदभाव करणारी पुस्तके पाहिली आहेत का? ५० वर्षांपूर्वी कारखान्यामध्ये एखादे यंत्र चालविण्यासाठी उंचावर चढून, खूप जोर लावून कुठले तरी चाक फिरवा, व्हॉल्व्ह उघडा अशी ताकद लागणारी कामे होती परंतु आता संगणकाच्या मदतीनेच हे सगळे केले जाते, त्यामुळे तेथील तंत्रज्ञ आणि अभियंता स्त्री का पुरुष याने काहीही फरक पडत नाही. हे शक्य झाले आहे ते सामाजिक आणि वैज्ञानिक क्रांती आणि प्रगतीमुळे आणि म्हणूनच पुढील २०-३० वर्षांत स्त्री-पुरुष भेद कमी महत्त्वाचा ठरणार आहे.

रोजच्या जीवनात वैज्ञानिक दृष्टिकोन निर्माण केला तर सामान्यातील सामान्य माणसाचेसुद्धा जीवनमान सुधारेल, रोगराई कमी होईल व जगणे सोपे होईल. महिला दिनाच्या निमित्ताने मला वाचकाला अशी विनंती करायची आहे की तुम्ही यंत्रमानव व कृत्रिम बुद्धी (आर्टिफिशियल इंटेलिजन्स) याविषयी थोडी माहिती वाचा. ज्या वेगाने कृत्रिम बुद्धीवर आधारित यंत्रमानव व संगणक बनत आहेत ते पाहता २०५० पर्यंत स्त्री विरुद्ध पुरुष ही तुलना मोडीत काढली जाईल आणि मानव विरुद्ध यंत्र ही तुलना करायची वेळ येईल!

Visit by Ms. Malini Shah

Counsellor ICT Mumbai



Young students face lot of anxieties and other psychological problems especially in their initial years in professional courses. Most of them are away from home for the first time. Professional course curriculum is also highly demanding. In the view of this ICT has started psychometric assessment as well as individual counselling for the fresh admit. The first year i.M.Tech students visited ICT Mumbai in September 2018 and undergone these activities at main campus. The

outcome of psychometric assessment is shared with the candidate as well as with the counsellor. To continue mentoring and counselling of MARJ students, Ms. Malini Shah (Counsellor ICT Mumbai) was invited to visit Jalna campus. She spent the entire day (30th March 2019) on the campus. One to one sessions were organized for some of the students who were probably more stressed (as evident from indisciplinary acts). As usual her common lecture was scheduled in the evening so that both A & B batches can attend. She addressed the gathering explaining psychology of behaviour and how thoughts cause anger, pity and thus affect one's emotions and behaviour. She stressed the need to control & modify the thoughts so that emotions can be managed. She also shared the theory of rejuvenation and survival by giving example of life cycle of eagle. Her speech was very motivating and good learning for all the students and faculty as well. At the end, her narration of Birbal's story with the quote to Akbar "Boond se jo Gai, Wo Hauz se nahi Aati" was a golden message to the youngsters to control their behaviour from day 1 of professional life. 100% spotless track record is a must !!! 🎓

Seminars and Pep talks

Prof. Datta Madamwar



Open defence (OD) of the PhD, Mr. Majeed Jamakhani (Tutor at MARJ) was arranged on 11th March. Mr. Majeed defended his thesis (Title: Study on Isolation and Characterization of Allergens of Indam Variety of Tomatoes.). Prof. Datta Madamwar, (Sardar Patel University, Vallabh Vidhyanagar, Gujarat) was invited as the examiner for the same. He travelled all the way to Jalna so that the students could witness PhD OD. Dr. Datta Madamwar is the

renowned personality in the field of Bioscience. On this day, Prof. Madamwar, shared his view on title "Characterization of Therapeutic application of Phycobili from cyanobacteria". He also highlighted other important topics such as Photosynthesis & Light Harvesting, etc. 🎓



Prof. Sunil Bhagwat



Prof. Sunil Bhagwat, (Dean IQA, Head DBT ICT Centre for Energy Biosciences, Co-Ordinator CGD CTM), delivered an enlightening lectures for the MARJ students on 16th March 2019. He asked students to visualise their role in future in chemical engineering field, after 35 years. After giving a brief history of ICT, he shared the history of evolution of mankind. How war has given many inventions and how

these inventions helped in meeting the food, clothing and shelter needs of growing world population. He visited MARJ and spend whole day in Jalna campus. He interacted with the faculty and gave valuable suggestions.

Prof. Bhagwat addressed students on Energy and Exergy and Environment. He explained these principles in very simple way. The carbon explosion in environment and its effect of global warming was stressed by him. He opined that now the role of chemical engineers is very important in reducing these emissions and makes the world a better place. Everybody enjoyed the session. 🎓

Prof. B.M. Bhanage



Sustainability of Chemical Technology is a major challenge. The chemical technologists have to align their future research towards green chemistry. Prof. B.M.Bhanage, Dean, Infrastructure & Campus Development, gave this message to students at ICT MARJ on 27th March 2019. He specially travelled to Jalna. Since he is dean of Infrastructure, he visited the new

building and suggested the new plans for the development of the Infrastructure & facilities.

He took a joint session of Batch A & B and spoke eloquently on “Twelve Principles of Green Chemistry”. He stressed that sustainability with growth in chemical technology is the need of the future. He explained the twelve principles of green chemistry with real life examples and advised the students to pursue these principles. He also informed about the endangered elements and need for focussed research on their conservation and recovery. 🎓



UAA Prof. G.M.Nabar Memorial Oration by Shri R Gopalkrishnan On “Lessons on Institutional Transformation - Innovation, Power & People”

On 3rd April 2019, Shri R Gopalkrishnan, Former Director Tata Sons, delivered UAA Prof. G.M.Nabar Memorial Oration on “Lessons on Institutional Transformation - Innovation, Power & People”. He shared 5 founding principles of great institutions.

1. Consistent purpose
2. Long term view & balance with a short term view
3. Tolerance
4. Conservative
5. Harmony

Students and faculty at ICT Marj viewed live relay of this highly educative and thought provoking lecture. 🎓

“Emotional Health, Stress Management & Leadership Development ”- By Mr Suresh Babu, (a Parent), Dharwad

ICT students are expected to be good entrepreneurs. They need to have strong emotional health and should be able to manage stress in their day to day life. With an view to make them aware of various techniques of improving EQ and manage stress, a special interactive session by Mr Suresh Babu , Head of Instrumentation Division , Walchandnagar Industries Ltd, Dharwad was arranged on 12th April 2019 . Mr Suresh Babu gave various real life examples and explained how to fight stress. He also explained various leadership qualities and how to develop the same. He gave simple DIY exercises to students to understand their personality and their strengths and weaknesses.

Mr Suresh Babu is a qualified Instrumentation Engineer with post-graduation in management. He has a diverse experience in industries in senior positions. His son Vishnu is a student of ICT Marj. Classroom students and IPT students attended this special session. 🎓

Celebration of 128th Birth Anniversary

Bharatratna Dr. Babasaheb Ambedkar

“Unlike a drop of water which loses its identity when it joins the ocean, man does not lose his being in the society in which he lives. Man’s life is independent. He is born not for the development of the society alone, but for the development of his self.”- Dr. Babasaheb.

Father of Indian Constitution, Bharatratna Dr. Babasaheb Ambedkar was fondly remembered for his great contributions on his 128th Birth Anniversary on 14th April 2019. Tributes were paid by faculty and students at ICT Marj on this day. In ICT a special programme “Bharatratna Dr. Babasaheb Ambedkar Oration 2019” on the occasion of 128th Birth Anniversary of Bharatratna Dr. Babasaheb Ambedkar had been arranged on 20th April, 2019 in KV Auditorium. Dr. Narendra Jadhav, Member of Rajya Sabha had kindly consented to the Chief Guest for the function and delivered a talk on “Gandhi and Ambedkar: Conflict and Compromises”. Padma Vibhushan Professor M.M Sharma was the Guest of Honour. The talk as mesmerising the speakers gives. Beautiful speech on Philosophy as well as talk of two great leaders of India i.e. Gandhi & Ambedkar. Students and faculty at ICT Marj could listen to this enlightening speech through live relay. 🎓



Achievements

Dr. Girish Joshi



“

In the present era all possible developments achieved by processing the advanced materials for various applications from bucket to rocket .

”

Dr. Girish Joshi was invited as Expert Speaker to address the U.G. students of Matsydari Engineering College, Jalna, for one day Workshop on “Role of Advanced Materials for Engineering Applications”. All engineering students and faculty of MECS attended this lecture which was very well received. 🎓

Prof. S.S. Lele



Prof. S.S. Lele was invited to chair the 2 Day Seminar on ‘Demystifying Regulatory Requirements’. This seminar was organised by AFSTI jointly with FSSAI of Govt. of Maharashtra on 19 -20 March 2019. More than 120 industry delegates attended this seminar. This seminar helped

industry delegates in better understanding of the various regulatory requirements under FSSAI. 🎓



Prof. Smita Lele was the chief guest for the Convocation 2019 of University of Mumbai, Sahyadri Shikshan Sanstha Sarwade, on 1st April 2019. Five different Pharmacy colleges graduates and 2 Management college graduates received their degrees during this convocation.



*Congratulations,
Mr. Majeed
Jamakhani
(Tutor at MARJ)
receiving PhD
degree*



Academic Update

15 new Doctorate students have recently joined MARJ, most of them have reported by 30th March 2019. The appointment is tenure based as Tutor cum research associates who should be also perusing doctorate degree. Each faculty member also gets some teaching help. 2 of these are CSIR fellows who brought their own fellowship. Prof. Smita Lele, Director MARJ, has passion for making students a “Complete Professional”. One of the important steps is appropriate selection of career and career planning. This has to be further extended by acquiring soft skills such as verbal and written communication and improved EQ. Time management is yet another vital aspect in increasing efficiency and effectiveness. She has been involved in this activity through lectures, workshops, books, films etc. for last 4 decades. As the first step, she suggested a better nomenclature “TARA” meaning Teaching Assistant Research Associate instead of TCRA (Tutor cum RA). The idea that every ICT alumnus should become a “Shining Star” (TARA in Marathi). Further, she addressed the entire TARA group as “Orientation Lecture”, stating Do’s and Don’ts. Dr. Smita Lele explained some success mantras and tips on how to develop complete personality. She also said that a good teacher is like a catalyst who reduces activation energy and keeps the student in excited state of mind! Several ideas were shared so that in next few months the TARA group can spend time on soft skill development before their lab research starts in full swing. The first activity was delivering a small seminar on various topics. The TARA fellow chose Masters project or other topic and gave a presentaion in front of all faculty members (9 -10 April). 🏠



Ankush S. Ranaware
M.Sc. Medical Biotechnology
Guide: Prof. S.S.Lele
Co-guide: Dr. Nandkumar S. Kunchge (Beej Sheetal)



Rushali Dudure
M.Sc. Analytical Chemistry
Guide: Dr. Manojkumar Jadbao



Arun D. Kute
M.Sc. Physical Chemistry
(CSIR -UGC Fellow)
Guide: Dr. Sandip Shinde



Saurabhi Ghag
M.Sc. Biotechnology
Guide: Prof. S. S.Lele
Co-guide: Dr. Jyoti Gokhale (ICT, Mumbai)



Indrajeet R. Warkad
M.Sc. Organic Chemistry
Guide: Dr. Sandip Shinde



Sayalee Baviskar
M.Sc. Organic Chemistry
Guide: Dr. Parag Nemade





Janabai Narwade
M.Sc. Biotechnology
Guide: Prof. S. S. Lele
Co-guide: Dr. Annamma A. Odaneth (ICT, Mumbai)



Shankar Humbe
M.Sc. Physics
Guide: Dr. Girish M. Joshi



Manisha Gohil
M.Sc. Physics
Guide: Dr. Girish M. Joshi



Shatabdi Kamble
M. Tech
Food Sc. & Tech.
Guide: Prof. S.S. Lele
Co-guide: Dr. Snebasis Chakraborty (ICT, Mumbai)



Namita Karna
M. Tech
Polymer Eng. & Tech.
Guide: Dr. Shashank Mhaske (ICT, Mumbai)
Co-guide: Dr. Girish M. Joshi



Shruti Bajpai
M. Tech- Biochemical Engg.
Sub: Bioprocess Technology
Guide: Dr. Parag Nemade



Rahul P. Gaikwad
M.Sc. Organic Chemistry
(CSIR Fellow)
Guide: Dr. Sandip Shinde



Sweta Khushwaha
M.Sc. Biotechnology
Guide: Prof. S.S. Lele
Co-guide: Dr. Nandkumar S. Kunchge (Beej Sheetal)



Vishal G. Beldar
M. Pharm
Pharmacognosy
Guide: Dr. Kirti S. Laddha (ICT, Mumbai)
Co-guide: Dr. Manojkumar Jadhao

Industrial Training Appraisal

After spending 3 months in the industry, (IPT- In Plant Training), students of Batch “A” gave presentations in front of faculty and all students on 1st April 2019. This was the interim evaluation like the classwork for IPT. Students did meticulous hard work for preparing excellent presentations covering various aspects. They were beaming with confidence during these presentations. The presentations were on their learning about industry, its operations and products. They also shared their assignments and projects completed. Their key learning of various soft skills and of science and technology was explained by them. Students gave their day wise working in various departments and other activities they have completed in this period. 15 minutes presentation was given in group of 2 students from every industry. It was followed by questions by examination panel.

Students expressed their joys of learning and shared their experiences during IPT. Common consensus was that IPT has transformed their personality and behaviour. They informed that they feel more confident to work anywhere.



Finally the Batch “A” completed the 4 months period of IPT on 24th April 2019. Internship Diary completed in all respect was submitted by each student for evaluation. Individual student was asked questions (viva) and assessed for his/her contribution in the industrial project, problem solving, overall soft skill acquired etc. by a panel of examiners which included the Associate Dean, Industry, few faculty members and industry persons.



It was satisfying for the industry as well as for the Institute to see that every student did learn something new and became one step closer to be the “professional” and industry has also given very positive feedback. Most industries have paid handsome stipend to these very young students (just 18 years old who finished 12th few months back). 🎓



Glimpses...



Certificates and Awards distributed on Women's Day



8th Convocation - 2019



Chief Guest : Shri. Ajay G. Piramal, Chairman, Piramal Enterprise Ltd. and Chanceller Dr. Raghunath Mashelkar



612 Degrees Awarded

