Department of Mechanical Engineering

"YANTRIK" THE DEPARTMETNAL NEWSLETTER 2021



Vision Mission of the Institute



Vision

Vision

"To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management""



Mission

- ➤ To strive for rearing standard and stature of the students by practicing high Standards of professional ethics, transparency and accountability.
- > To provide facilities and services to meet the challenges of Industry and Society.
- > To facilitate socially responsive research, innovation and entrepreneurship.
- To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices

Vision Mission of the Department



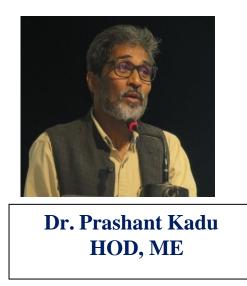
Vision

"To Emerge as a Premier Centre in the Field of Mechanical Engineering Education and Produce Competent Engineers"



Mission

- > To Impart Quality Technical Education Through Effective Teaching Learning Process.
- > To Provide a Better Environment to Encourage Innovation and Entrepreneurship.
- To Strengthen Industry Institute Interaction to Meet the Challenges of Industry and Society Environment.
- > To Ensure Overall Development of Students and Staff Members by Inculcating Knowledge and Professional Ethics.



It gives me immense pleasure to lead the department of ME. Our College is one of the premier institutions, unique like a prism reflecting the manifold shades of learning and cocurricular activities.

The very motto of our department is to provide quality education. The process of learning is extremely important in life. What you learn, how you learn and where you learn play a crucial role in developing one's intellectual capability, besides career. Hence on behalf of our Mechanical Engineering Department, I welcome you all to ME Department, TGPCET. Along with academic knowledge .Mechanical Engineering also trains its Engineers to face the challenges in life by providing many value added courses to enhance their career prospects. The excellent infrastructure, teaching faculty of the best kind ensuring quality education such as interaction among students, parents and staff, along with a Training and Placement Cell ensures a bright future to its students. Thus, we are confident that our Engineers will emerge as assets not only to this institution and to the organization they belong, but also to the country at large.

EDITORIAL



Mr. Ravindra Shende Chief Editor

It brings me immense joy & pleasure to introduce the Sixth edition of the departmental newsletter "YANTRIK". All the creative energies that came on to this platform in the form of faculty experts & students are finally presenting a replica of their enthusiastic hard work through this extravaganza that has come out so organically. Technical & Arts every section shines out differently in its true sense. All the events conducted throughout the year where perfectly planned &the overwhelming response it received said it all! This piece of art would not have been complete without the sheer determination & perseverance of all the students who pushed their limits every time to bring out this artistic reality. Their efforts coupled with immense support from the faculties truly have done justice to carry on the legacy. I am grateful for all the support "YANTRIK" has received throughout the year in every possible way from the faculties & Students. I hope the readers of the newsletter have a wonderful reading experience & wish this year's edition too receives your love &support like it has always received till date.

EDITORIAL

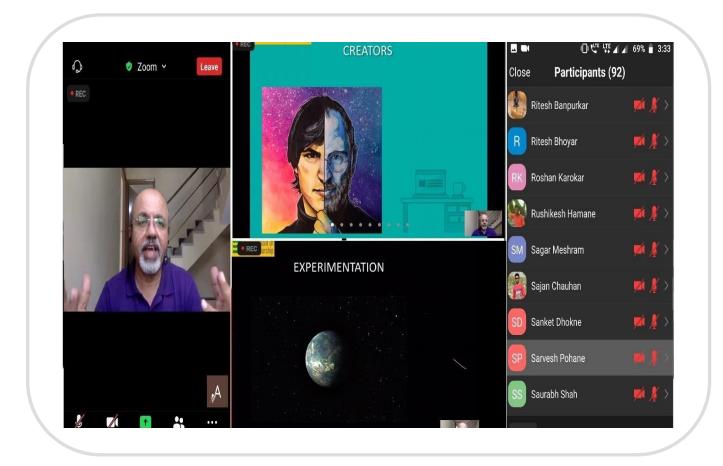


Mr. Nandadeep Dhone Student Content Editor Student, Third Year, ME

There is no denying that one day my memory of words will turn vague but every page of this newsletter will open a box of memory so vivid! Filled with hard work, dedication & limitless time put in making this one book that I will always be grateful to "YANTRIK" will make you fall in love with drawings again! It gives me immense pleasure to bring to you an extraordinary & masterly collection of the events, activities, achievements, highlights at the college presented in the 6th Annual departmental newsletter " YANTRIK" 2021". The newsletter reflects the identity of TGPCET mechanical department as well as gives the students & teachers a platform to explore their creativity & imagination. This work is a result of the various phases from planning to data collection to segregation to organization to proofreading to designing. I take this opportunity to express my gratitude to our HOD Dr. P. S Kadu& Mr. Ravindra Shende for their constant assistance & guidance. My sincerest thanks to all the captains, heads, mentors & the teams without whom this newsletter would have just been a dream. Last but the most important, you, the readers, YANTRIK would not havebeen what it is today without you. So, as you turn through the pages, I hope you like the curation of emotions, fervor, faith, ideas & aspirations expressed in words.

FORUM INSTALLATION

Mechanical Engineering department of Tulsiramji Gaikwad-Patil College of Engineering & Technology had organized a forum named "ROBUST" under Mechanical Engineering Students Association. During the Installation of forum the chief guest Mr. Mukesh Adhar, Co-founder, Lemon LSE & amp; JCE, USA Certified Trainer. He motivated the students stating the importance of Make in India. He further said that, manufacturing sector encompasses a set of industries to make or produce anything in a factory and therefore, it requires a great deal of specialized knowledge. Mechanical engineers are often referred as manufacturing engineers also as they are recruited by all kinds of companies which manufacture a variety of machines, robotics and other equipment.



TECHNICAL BUZZ



Industrial visit at Ador Fontech Ltd, Nagpur

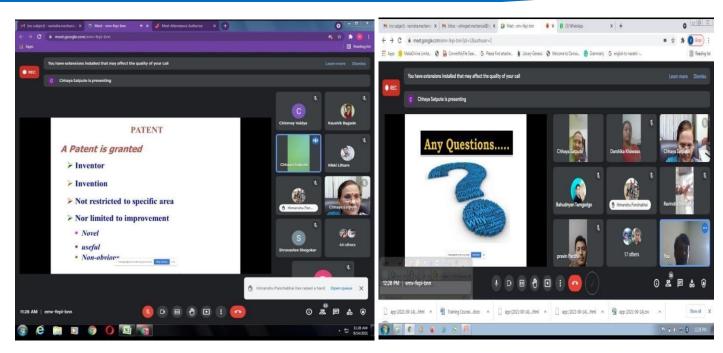


Industrial visit at Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd, Nagpur





Industrial visit at Industrial Robotic centre RTMNUNagpur



Guest Lecture: "Intellectual Property Right and Patent Information System" Mrs. Chhaya Satpute, Sr. Documentation Officer Rajiv Gandhi National Institute of IP Management

TULSIRAMJI GAIKWAD-PATIL epartment of Mechanical Engineering 6 Webinar on Supply Chain Lecture Alumni, Batch: 2014-15 Guest Lect 2021-22 et 📹 ; ≝ ■ ... ATIL ð 🗉 i

Alumni guest lecture by Rahul Sinha



Guest Lecture: The essence of industrial robotics and automation and opportunities for graduates

Guest

Guest Lecture: ACME By Mr.Anil Choudhary

Lokmat Times

Vijay Talodhikar awarded PhD in Mechanical Engg APRIL

18:

NAGPUR, Gondwana University, Gadchiroli has awarded doctorate to research schol-Vijay ar P Talodhikar in Mechanical Engineering.



He completed PhD on the topic 'Design, Analysis Fabrication and Manually Operated Potato Peeling Machine.

Vijay P Talodhikar did his PhD under the supervision of Head of Mechanical Engineering Department and Research Centre, Rajiv Gandhi College of Engineering and Research Technology,Chandrapur Dr Pravin Potdukhe . Prof Vijay Talodhikar has given credit of his suc-

cess to chairman of GPG, Dr Mohan Gaikwad-Patil, treasurer of GPGI, Prof Gaikwad-Patil, Sandip principal Geeta Padole and others.

Nagpur First Page No. 2 Apr 19, 2022 Powered by: erelego.com

Mr.Vijay Talodhikar, Faculty of **MEAwarded Ph.D Degree**



Prof. Ritesh Banpurkar felicitated as **Best Performance of the year**

Department Achievements

Shubhangi Gondane awarded PhD

agpur University has awarded doctorate to research scholar Shubhangi M Gondane in mechanical engineering. Her



topic was 'Development of Suitable Adhesive for Bamboo Joinery'. Shubhangi was guided by PN Belkhode, Laxminarayan Institute of Technology, and MP Joshi, Priyadarshini College of Engineering. She attributes her success to Mohan

Gaikwad-Patil, chairman, Gaikwad Patil Group, Prof Sandip Gaikwad-Patil, treasurer; Geeta Padole, director; AV Kale, principal of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Prof Pragati Patil, vice-principal of TGPCET, prof Anup Gade, dean, academics and Prof Ritesh Banpurkar.

Mrs.Shubhangi Gondane, Faculty of ME Awarded Ph.D Degree



Prof. Ravindra Shende felicitated as **Best Feedback performer of the year**

STUDENTS ACTIVITIES





Creation of Ganeshji Idol from Best of Waste ActivityBased Learning

Copyrigh Awarded

Sr. No.	Name of Faculty	Title of Work	Dairy Number	Date of Registration	Status
1	Mr. Ritesh Banpurkar	Design and Fabrication of Solar operated Multipurpose agriculture machine	14642/2021- CO/L	02-07-2021	Awarded
2	Mr. Ravindra Shende	Design and Fabrication of Agriculture sprayer vehicle	14651/2021- CO/L	02-07-2021	Awarded
3	Ms. Shubhangi Gondane	Design and Fabrication of Multipurpose screening machine for small scale industries	14695/2021- CO/L	03-07-2021	Awarded

NSS ACTIVITIES

' बेस्ट आफ वेस्ट एक्टिविटि बेस्ड लर्निंग ' इंजीनियरिंग के विद्यार्थियों ने बनाई श्रीगणेश मृति

नागपुर ग्रामीण एसपी राकेश ओला ने किया मूर्ति का अनावरण

डां. तेजसिंह किराड **नागपुर। "**सीखनें कि ना ते कोई उम्र होती हैं और ना ही कोई भी सामग्री व्यर्थ की समझी जान चाहिए। जीवन में एक विद्यार्थी बनकर जो सीखता हैं वह जीवन पर्यन्त उसकी एक जीवन शैली का महत्वपूर्ण सामाजिक अंग बन जाता हैं। शिक्षा,कला और संस्कृति को आत्मसात करने का

संस्कृति को आत्मसात करने का हर एक नागरिक का जन्मसिध्द अधिकार हैं। यह एक पीढ़ी से दूसरी पीढ़ी में सदैव हस्तांतरित होते रहना चाहिए।" उक्त प्रेरणामयी उदगार नागपुर ग्रामीण के पुलिस अधीक्षक मा. राकेश ओला (IPS) ने आज तुलसीरामजी गायकवाड़ पाटील कालेज आफ इंजीनियरिंग एंड टेक्नालाजी मोहगांव नागपुर में प्रथम पूज्य गणनायक श्रीगणेश मूर्ति के अनावरण के अवसर पर मूति क अनुविरण के अवसर पर कहें । उन्होंने कहा कि -" महाविद्यालय के एनएसएस और मेकेनिकल विभाग के संयुक्त तत्वावधान में अनुपयोगी हो चुके वेसिट मरेटियल से इतनी सुंदर, आर्कषक और कलात्मक



श्रीगणेश की मुर्ति को देखकर मैं बहुत ही अभिभूत हूं। बुद्धि के दाता श्रीगणेश सबके जीवन में बेहत्तर जीवन जीने की शक्ति और अपने अर्जित तकनीकि ज्ञान से विद्यार्थी सर्वहारा वर्ग के विकास के लिए कटिवध्द रहकर राष्ट्र के नवनिर्माण में नीत नवीन तकनीकि प्रयोगों से म नात नवान तकनाक प्रथागा स सेवाओं को जमीनी स्तर पर पहुंचाएँ,ऐसी शुभकामना प्रदान करता हूं।" इस अवसर पर तुलसीरामजी गायकवाड़ पाटील राम्य आफ टीन्टरायक तुलसारामजा गायकवाड़ पाटाल गरुप आफ इंस्टिट्यूशन के चेयरमेन डां. मोहन गायकवाड़ पाटील ने कहा कि –" कला और शिक्षा का घनिष्ट संबंध हैं। इससे संस्कृति का स्वमेव जन्म होने लगता हैं। इसलिए अपने अंदर की सुषुप्त कलाओं को अवसर के



Best Of Waste Activity best learning -Faculty and students of ME made Murti of Ganeshji from mechanical waste components



गणेश मूर्तीची प्राणप्रतिष्ठ

देशोत्रती वृत्तसंकलन..

पारील

बुटीबोरी = येथील तुळशीराम गायकवाड इंजिनिअरिंग

आर.एस.एस. व मेकॅनिकलच्चा विद्यार्थ्यांनी मेकॅनिकलमधील टाकाऊ निकामी पार्ट्स उसे

लोखंडी धमेले, शॉकअप, नट बोल्ट धासारख्या

वस्तूंपासून ५ ते ६ फूट उंचीची गणेश मूर्ती साकारून रंगांनी आकर्षकरित्या सजविले. या मूर्तीची

प्राणप्रतिष्ठा नागपूर ग्रामीण पोलिस अधीक्षक राकेश

संचालक डॉ. प्रशांत कडू, प्रा. गीता पडोळे,

उपप्राचार्य प्रा. प्रगती पाटील आदींसह इतर

प्राध्याणकगण तसेच कर्मचारी आणि विद्यार्थी मोठ्या

संख्येने उपस्थित होते. कार्यक्रमाच्या यशस्वीतेसाठी

रितेश, अरविंद, डोंगरे, प्रा. प्रफुल रणदिवे आदींनी

सहकार्य केले. (बार्लाहर)

कार्यक्रमाच्या अध्यक्षस्थानी मोहन गायकवाड पाटील तर प्रमुख अतिथी म्हणून संदीप गायकवाड,

ओला यांच्या हस्ते नुकतीन्न करण्यात आली.

महाविद्यालयातील



Lokmat Times

Stress management is key to happiness: B K Smita

LOKMAT NEWS NETWORK NAGPUR, FEB 15

Gaikwad-Patil Group of Institutions (GPGI) recent-ly organised a motivation-al lecture on 'stress man-agement' for all the staff members of GPGI. The eminent speaker for the event was B K Smita Behan from Prajapita Bramha kumari. The speaker focussed on

The speaker focussed on several models of stress management, each with distinctive explanations of mechanisms for controlling stress. The lecture was followed

by some stress relieving activity and meditation This activity was organ-ised under the guidance of vice-principal of the col-

The programme was organised to enhance the performance level of all the staff members, to stay innovative, motivated. -



lege Prof Pragati Patil

B K Smita

Patil. The

Stress produces numerous physical and mental symptoms which vary according to each individual's situational factors. These can include a decline in physical health as well as depression. B K Smita on this occa-

sion said stress produces numerous physical and mental symptoms which mental symptoms which individual's situational factors. These can include a decline in physical health as well as depression. The process of stress management is named as **GPGI ORGANISES** TALK ON STRESS MANAGEMENT

one of the keys to a happy and successful life in mod-ern society, she further said. The activity was con-ducted by head of IT, Prof Sarvesh, Praful Randive and Prof Arvind Totey. Dean of CSR Dr Sanjay Barai director of Barai, director of Tulsiramji Gaikwad-Patil Institute of Health care and Management, Prof Anup Gade, dean and Manesenergy dean (Academics) Prof Ameya Khedikar, head Department of Civil Engineering and al staff members were present on members were this occasion.

Stress management Lecture- By B.K.Smita

Nagpur First Page No. 2 Feb 16, 2022 red by: ereled



ठाकसत्ता

तंत्र' या विषयावर डॉ. अमोल पुसदकर यांचे व्याख्यान आयोजित करण्यात आले होते. यांत्रिकी विभागातर्फे हा कार्यक्रम आयोजित करण्यात आला होता. संचालन विभाग प्रमुख प्रा. रितेश बनपूरकर यांनी केले. कार्यक्रमाला उपमुख्याध्यापिका प्रा. प्रगती पाटील, प्रा. अनुप गाडे, प्रा. अमेय खेडीकर, डॉ. प्रशांत ठाकरे, डॉ. नंदकिशोर सवाई उपस्थित होते.

Lecture on Management technique of Chhatrapti Shivaji Maharaj By Mr. Amol Pusadkar

Department in Media

Lokmat Times



Dignitaries during the guest lecture held at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET).

Technology (TGPCET). The department of mechanical engineering of Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) recently conducted an expert lecture. The expert lectures that dwith welcoming the guest Annil Gauddbir, technology the speet lecture. The expert lecture. The expert lecture. The expert lecture. The audit and the speet the speet and the speet the speet lecture. The speet lecture of the speet of the speet the speet lecture of the speet of the speet of the speet the speet lecture of the speet of th

servicing and repair in the field of calibration for all types of lab instruments. Dr Mohan Gaikwad-Patil, chairman Gaikwad-Patil Group (GPG), Prof Sandeep Gaikwad, treasurer, (GPG), Dr Geeta Padole, practical and the second calibration of the second calibration of the second calibration of the second calibration of the second calibratic of the second sorganized under the guidance of the head of the expert lecture. The expert lecture was guidance of the head of the mechanical engineer-ing department and coor-ting department and coor-ting department and coor-sorganized under the guidance of the head of the mechanical engineer-ing department and coor-man and any Muley, assistant professor.

Nagpur First Page No. 3 Apr 29, 2022 Powered by: erelego.com

Lokmat Times



A college faculty member giving away a memento to a guest at Tulsiramji Gaikwad-Patil College of Engineering and Technology.

a guest at Tulsiramji Gaikw Engineering and Technolo The department of mechanical engineering of Tulsiramji Gaikwad-fatil ercologe of trechnology (TGPCET) organised a lecture on State of the trechnology Technology (TGPCET) organised a lecture on State of the trechnology Introduction recently. The lecture helped stu-dents learn hoy of their control of the treat world and build a valuable experi-ence that makes them substate of the treat of the build a valuable experi-ence that makes them of the real world and build a valuable experi-ence that makes them substate of the treat of the tor product/portfolio management. Germany, who was a guest on the occasion, delivered a lecture on and New Products Introduction (NPD). Hatwar shared knowl information about

y. strategic innovation aspects, innovation capping tions, novvation uct introduction, new product aspects, and market strategy with demand for innovation

Nagpur First Page No. 3 May 23, 2022 Powered by: erelego.com

औद्योगिक रोबोटिक्स और स्वचालन पर व्याख्यान संपन्न



तुलसीरामजी गायकवाड़-पाटिल कॉलेज ऑफ इंजीनियरिंग एंड टेक्नोलॉजी का आयोजन

नागपुर. तुलसीरामजी गायकवाड-पाटिल कॉलेज ऑफ इंजीनियरिंग एंड टेक्नोलॉजी की ओर से यांत्रिक अभियांत्रिकी विभाग में औद्योगिक रोबोटिक्स और स्वचालन और स्नातकों के लिए अवसर के विषय पर व्याख्यान का आयोजन किया गया. मैकेनिकल इंजीनियरिंग विभाग के अनिल टाटोडे ने छात्रों को औद्योगिक स्वचालन और औद्योगिक रोबोटिक्स के बारे में समग्र विचार के लिए निर्देशित अपने व्याख्यान पर जोर दिया और लाभ और अनुप्रयोगों के साथ औद्योगिक स्वचालन और औद्योगिक रोबोटिक्स के विभिन्न पहलुओं के बारे में विस्तार से बताया.फीडबैक फॉर्म के आधार पर यह देखा गया है कि छात्रों ने औद्योगिक स्वचालन और औद्योगिक रोबोटिक्स की अवधारणा को समझा.साथ ही छात्रों को औद्योगिक स्वचालन और औद्योगिक रोबोटिक्स के दृष्टिकोण के बारे में पता चला और यह भी प्रेरित हआ कि औद्योगिक रोबोटिक्स उद्योगों में भविष्य की आवश्यकता के लिए सबसे अच्छा समाधान है.कार्यक्रम प्रो. रितेश बानपुरकर,यांत्रिक अभियांत्रिकी विभाग के प्रमुख के मार्गदर्शन में किया गया.कार्यक्रम का संचालन प्रो. प्रफुल्ल रणदीवे एवं डॉ. योगेश माहलकर द्वारा किया गया.

Lokmat Times



Students of Department of Mechanical Engineering of Tulsiramii Gaikwad-Patil College of Engineering and Technology during the industrial visit.

and Technology during the Department of M e c h a n i c a l Engineering Gaikwad-Patil College of Engineering and Technology (TGPCET) organised an industrial visit for its students to Br Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd, Nagpur. The visit started with the manager and labor officer giving an intro-duction and details of soot girni. They shared useful information about the names of machines and their functions. Students got hands-on experience about differ-

dents of the first and sec-ond year got motivated by the visit.

Dr Mohan Gaikwad-Patil, chairman of GPG, professor Sandeep Gaikwad, treasurer, GPGI, Dr Geeta Padole,

GPGI, Dr Geeta Padole, principal, and professor Pragati Patil appreciat-ed the faculty members for organising the indus-trial visit. The visit was organ-ised under the guidance of the head of the mechanical engineering department and coordi-nated by Dr Vijay Talodhikar, Dr Yogesh Mahulkar, and profes-sor Pramar Bakane of the mechanical engi-neering department.

Nagpur First Page No. 3 May 26, 2022 Powered by: erelego.com

Department of ME



ACTIVITIES UNDER TRAINING AND PLACEMENT

HR-CONCLAVE-2022

Innovative project-Design and Fabrication of Agriculture Pesticides Drone-Prof. Ravindra Shende(Lokesh Bhagat, Kamlesh Rahangdale, Harsh Pandey, Pratik Katre, Rushikesh Vasake, Nikhil Pardhi)



Campus Recruitment Training (CRT) Classes



CAMPUS INTERVIEW- GREEN ENRGY



CAMPUS INTERVIEW- DHOOT TRANSMISSION

Department of ME



DOM LAB



RAC LAB







Mohgaon, Maharashtra, India

Lat 20.96505°

Google

AUTOMOBILE LAB

Long 79.019476°

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NH 44, Mohgaon, Maharashtra 441108, India





HT LAB

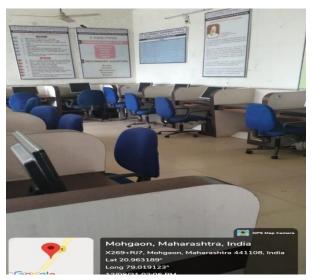
MTRX LAB

Department of ME

DEPARTMENT LABS



EM-LA



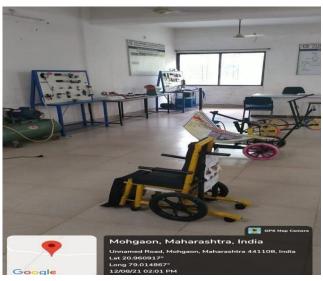
CAD LAB



Mohgaon, Maharashtra, India NH 44, Mohgaon, Maharashtra 441108, India Lat 20.959967° Long 79.014699° 12/08/21 01:54 PM

HM LAB

DEPARTMENT LABS



EC-III LAB



MMM LAB





B.Tech | B.Arch | M.Tech | MBA | MCA | Diploma | International School | Skill Development





INSTITUTIONAL MILESTONES



Prof. Sandeep Gaikwad elected as SENATE Member RTMNU, Nagpur



Dr. Shubhangi Gondane, ISTE Award for Best Women Teaching Faculty (Engineering) 2022



EDUCATION EXCELLENCE AWARD 'Most Promising Private Engineering College in Vidarbha'



Winner of 'OUTSTANDING ENGINEERING INSTITUTE (WEST)' Presented by ABP News 'National Education Awards - 2015'

Campus:

Mohgaon, Wardha Road, Nagpur - 441 108 Maharashtra, India Central Office: Ojaswini Complex, Gayatri Nagar, IT Park Road, Nagpur - 22. Tel/Fax: 0712 - 2240656 99229 66176 97637 11372 88050 00935

Department of ME