



Marathwada Mitra Mandal's College of Engineering

Accredited with 'A' Grade by NAAC

YANTRADYNA

ISSUE 8

AUGUST 2019

The Newsletter of Department of Mechanical Engineering



**Awarded as Best College
by SPPU**

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“ We crank the ideas and shift the gears to accelerate lives ”

VISION

Excellence in Mechanical Engineering for global competency and social welfare.



MISION

- To develop professional skills through student centric activities and the industry interactions.
- To prepare students for higher education, research and innovation.
- To make globally competent and socially committed Mechanical Engineers with morals and ethical values.



Programme Educational Objectives (PEOs)

Graduates from our program will

- Become competent engineers for successful career in higher studies, research and industries.
- Acquire knowledge based skills to solve the problems in mechanical engineering and related fields.
- Achieve professional ethics and managerial skills. Respond to growing demands of society through life long learning and extension activities.





From HOD's Desk

Dr. P. S. Purandare



The goal of this newsletter is to keep you updated with developments in Mechanical Engineering Department of MMCOE. This department is continuously undergoing transformation. New initiatives have been launched related to academics, student affairs, research and extra curricular activities.

The students and faculty members of the department are sincerely participating in various activities organized at institute or at other places. It is elevating to see the sound performance of students. I offer best wishes for future activities. At last, I thank to the editors of YANTRADNYA for their sincere efforts and I offer my best wishes to the readers of this newsletter.



I am very glad to launch the Issue 8 of Department newsletter 'YANTRADNYA'. 'YANTRADNYA' has been initiated to provide a platform for showcasing the activities and achievements of our department. Department had made concrete plans for several activities and successfully implemented them. Participation and success in various events and competitions which became rich content for the newsletter. I would like to express my gratefulness to the all persons who extended valuable assistance to publish YANTRADNYA and wish all the readers a prosperous and bright future.

Mr. Belsare S.N.
Mrs. Rode M.P.



Departmental Achievements

SAEINDIA SUPRA-2019
Society of Automotive Engineers INDIA

“Team Abhedya Racers” of MMCOE won 2nd Prize in Acceleration and secured 14th Rank at National Level competition held at Buddha International Circuit, Greater Noida, UP in July 2019.



“I have been impressed with the urgency of doing. Knowing is not enough; we must apply. Being willing is not enough; we must do.”

– Leonardo da Vinci (engineer, inventor, artist, mathematician)

Dr. K. R. Patil, Associate Professor honored with National Level ‘Dronacharya Award’ in SUPRA SAEINDIA 2019 competition held at Buddha International Circuit, Greater Noida in July 2019.



AERO DESIGN CHALLENGE 2019



AERO DESIGN CHALLENGE

SAEIIS Aerodesign Competition

Team "Alerios" of Mechanical Engineering Department participated in national level competition SAEISS, Aerodesign held at Anna University, Guindy , Chennai It was 5th team out of 108 to clear all the Technical Inspection. Team Alerios successfully completed the dynamic flight round.



Team Rudra – Robocon

Team Rudra of Robocon has got All India 11th Rank in National Level event held at IIT Delhi on 16/06/2019.



- First Match with K.K .Wagh Institute Of Engineering Education and Research (Nashik) which resulted in a draw



ISHRAE

ISHRAE (Indian Society of Heating, Refrigerating & Air Conditioning Engineers)

- ISHRAE Chapter Renewal Program conducted by ISHRAE
- Yoga K12 Activity for girl members at Yashwant Vidyalaya, Khadakwasla

You have to grow from the inside out. None can teach you, none can make you spiritual. There is no other teacher but your own soul.

—Swami Vivekananda



- **Dr. K.R. Patil, Associate Professor,**
Outstanding reviewer,
ELSEVIER's 'Energy Conversion and Management' Journal & 'Renewable Energy' Journal
- **Dr. R. J. Yadav, Professor & Dean R & D**
Recognition as a Ph.D. Research Guide of SPPU
- **Dr. Vikas R Deulgaonkar,**
Dean (Student Affairs') & Associate Professor
 - Publication entitled 'Failure analysis of fuel pumps used for diesel engines in transport utility vehicles', in *Elsevier Journal of Engineering Failure Analysis*
 - Publication entitled 'Design and Analysis of State Transport Utility Vehicles-Bus' in *International Journal of Vehicle Structures & Systems*
- **Dr. Vijay Bhatkar, Associate Professor**
ISHARAE 2018 Appreciation for valuable contribution as K12 Chair and CWC Member

PATENTS Published:-

1. **Design and Development of Car Seat Constrainer System.** Patent Application Number-E-1/22174/2018/MUM.
2. **Tyre Lifespan Assessment Assembly.** Patent Application Number-E-1/20182/2018/MUM.
3. **Variable Geometry Sun Visor Assembly.** Patent Application Number-E-1/21186/2018/MUM.
4. **Design and Development of Adaptive Door Lock Mechanism For Automobiles.** Patent No-R-1/24857/2018/MUM.
5. **Design and development of modified seatbelt mechanism for pregnant women passenger.** Patent No-R-1/3587/2018/MUM.
6. **Modified Headlight for Vehicle** Patent No-R-1/ 2018/21048112/MUM.
7. **An Innovative Blind Spot Detection and Reduction System for Vehicles** Patent No-R-1/ 2019/21002355/MUM.



8. An Static Current reduction Assembly

Patent No-E-1/2019/2200452/Mum.

9. Innovative steering mechanism in modern vehicles for after parking straight wheel alignment. 2019/201921025313/Mum.

DRDO Research Proposal Submission.

1. Innovative metal inserts with flow able additives to join structural composite materials. Date of Submission- 15/01/2019.

2. Design and Development of Micro foldable temperature controller stretcher assembly for carrying injured soldiers in distinct terrain of siachen. Date of Submission-15/01/2019.

**3. Instant innovative fold able light in weight bullet proof protection shield for hostile situation or close combating.
Date of Submission-20/01/2019.**

**4. Convoy mover drone with intelligence sniper, mines and IED detection micro technology.
Date of Submission-03/02/2019.**

**Research is to see what
everybody else has seen, and to
think what nobody else has
thought.**

Albert Szent-Gyorgyi



Guest Lectures & Workshops

- Industrial Hydraulics & Pneumatics, Mr. Ashok Raj, Senior faculty member at IMTMA, Pune.
- Cad-Cam & Automation, Mr. Ashwamedh Jadhav, Technical Head, Catia & Ansys, CADD Centre.
- Alumni Lecture by ex-student Mr. Rushabh Deshmukh and Mr. Ankit Changediya.
- Two Days Hand on Workshop using CATIA in association with MCAD Solutions

Industry/Exhibition Visits

➤ Visit to ACREX India 2019, Mumbai



Acrex India is an international exhibition on air conditioning, refrigeration and building services. It provides an ideal platform for the exchange of ideas among professionals and the opportunity to highlight the latest products, trends and innovations in the industry.

To succeed in your mission, you must have single-minded devotion to your goal.—Dr. A.P. J. ABDUL KALAM



Industry/Exhibition Visits



Visit to IMTEX 2019 , BIEC Bangalore, January 2019

Visit to Visvesvaraya Industrial and Technological Museum (VITM), Bangalore (TE Mech)



Visit to HAL, Bangalore (TE Mech)



Visit to Auto cluster Ahmednagar and Klasic Wheels Pvt Ltd, Ahmednagar (TE Mech)





PARENTS TEACHERS MEETING (17th August, 2019)

Parent teacher meeting is an effective way for parents and teachers to interact and discuss about their ward's progress. Parent teacher association works as a bridge between parents and teachers where through mutual cooperation both can decide what further steps should be taken so that a student can get most out of his/her studies.





MoUs and Collaboration with Industries

MOUs



MSRTC, ST Workshop, Dapodi



KIRLOSKAR PNEUMATIC COMPANY LIMITED
A Kirloskar Group Company



**Indian Machine Tool
Manufacturers' Association**



Enriching Skills

Sofcon Training

An ISO 9001:2008 Company



**MechaTol
Engineering
Solution,
Kothrud, Pune**

Collaboration



**Autodesk's Fusion
360**



**Design Tech
Systems Ltd.**



**India Soft
Technologies India
(P) Ltd.**

**Mechworks
Engineering and
Consultants, Pune**



**EDS Technologies
Pvt. Ltd.**



**Onward
Technologies Ltd.**

“

Talent wins games, but
teamwork and
intelligence win
championships.”

Michael Jordan



Toppers



Rank	Name of the Student	CGPA / Percentage
1	VHANDURGE ATUL SAHADEV	9.91
2	SAPTARSHI SHRADDHA M	9.84
3	KUDLE PRATIK RAJENDRA	9.64
	KULKARNI VEDANT MANOHAR	
	PAWAR KUNDAN PRATAP	
4	UPASANI SHUBHAM NITIN	9.57
5	SHINDE ISHAWAR PRALHAD	75.47%
6	KATHOLE HITESH SUBHASH	9.5
	MAHAJAN VIVEK VIKAS	
7	JAYWANT MAHADEV PATIL	9.48
8	MANIYAR SAMEER HAMEED	9.41
9	JOSHI NEHA ARUN	9.39
10	LAWANDE MANISH RAJU	9.36

Rank	Name of the Student	CGPA
1	INGOLIKAR NUPOOR MANOJ	9.09
2	LANDAGE VIJAY SUNIL	8.89
3	DESHMUKH CHINMAYSANJAY	8.87
4	AWATE NEHA SANJAY	8.76
	POWAR AKSHAY BALU	
5	GADIA AKSHAY RAHUL	8.7
	MYAKAL SHRIDHAR KRISHNA	
6	YEWALE NITYANAND OM- PRAKASH	8.57
7	DESALE JAGDISH HIMMATRAO	8.52
8	RAKHONDE SHAILESH DNYANESHWAR	8.46
	SATHE OM KARAN	
9	FERNANDES SHERLY SALU	8.41
	JAGTAP ATHARV SANJAY	
	PHARATE MAKARAND VIJAY	
10	JAWALE PRASAD VIDYADHAR	8.35
	KULKARNI OMKAR VISHWESH	

BE Mechanical Engineering

TE Mechanical Engineering



Toppers

Rank	Name of the Student	CGPA
1	Balinavar Chaitanya Girish	9.56
2	Pawar Shubham Sudhakar	9.14
3	Dadhkar Chinmay Abhay	8.8
	Pawar Ajinkya Anil	
	Pendse Parth Purushottam	
4	Mote Ameya Abhay	8.76
5	Dhepe Rajas Pramod	8.7
6	Ghenand Kunal Dattatraya	8.66
7	Jadhav Rushikesh Mahadev	8.6
8	Shinde Sunil Dadaso	8.52
9	Tolani Pritesh Harish	8.5
10	Patil Ankita Tushar	8.42
11	Pande Ashish Sandeep	8.4

"Success usually comes to those who are too busy to be looking for it."

-- Henry David Thoreau



Placements

Sr. No	Name	Company	CTC in LPA
1	Sourabh Fodekar	Prime Marketing	3.60
2	Shubham Lasure	Cognizant	3.60
3	Akib Attar	Infosys	3.60
4	Darshan Ganganalli	Infosys	3.60
5	Sachin Patne	Infosys	3.60
6	Priyanka Rajebhosale	Volkswagen	3.36
7	Rajwardhan Kulthe	Volkswagen	3.36
8	Shraddha Saptarishi	Volkswagen	3.36
9	Akib Attar	Helical	2.75
10	Kundan Pawar	Helical	2.75
11	Mihir More	Helical	2.75
12	Pratik Kudle	Helical	2.75
13	Shubham Shinde	Helical	2.75
14	Shweta Gandhe	Helical	2.75
15	Laxman Kawalgi	HUDL	2.64
16	Kishor Raut Mech	Sutherland	2.50
17	Parth Bachal Mech	Sutherland	2.50
18	Madhvaraj Kulkarni	Elevation	2.50
19	Sachin Patne	Elevation	2.50
20	Karan Paigude	Thermax Ltd.	2.16
21	Radheshyam Choudhari	Thermax Ltd.	2.16
22	Ved Gumaste	Thermax Ltd.	2.16
23	Malhar Pagedar	Amazon.in	2.00
24	Amit Bhosale	Tata Motors	2.00
25	Parth Bachal	Tata Motors	2.00
26	Darshan Shah	Apple Aircon Pvt. Ltd.	1.80
27	Anand Karpe	Albus Engineering	1.80

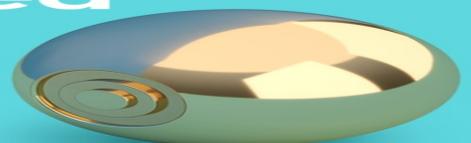


Prominent Recruiters



“Employees engage with employers and brands when they’re treated as humans.”

- Meghan Biro



SOCIAL ACTIVITIES



NSS Winter
Camp



Swaccha Bharat
Abhiyan



Trek to Torna
Fort



Grocery Donation



Police Mitra



Tree Plantation



Job Fair



Kargil Vijay Diwas



Visit to Orphanage

LIFE IS EITHER
A DARING
ADVENTURE,
OR IT IS NOTHING.
-HELEN KELLER

General information concerning Patents

A patent is a form of intellectual property that gives its owner the legal right to exclude others from making, using, selling, and importing an invention for a limited period of years, in exchange for publishing an enabling public disclosure of the invention. In this Article we are going to enlighten myths and facts of Patent application.

What Are Patents, Trademarks, Service marks, and Copyrights?

Some people confuse patents, copyrights, and trademarks. Although there may be some similarities among these kinds of intellectual property protection, they are different and serve different purposes.

What is a Patent?

A patent for an invention is the grant of a property right to the inventor, issued by the Indian Patent and Trademark Office. Generally, the term of a new patent is 20 years from the date on which the application for the patent was filed in the India or, in special cases, from the date an earlier related application was filed, subject to the payment of maintenance fees..

The right conferred by the patent grant is, in the language of the statute and of the grant itself, “the right to exclude others from making, using, offering for sale, or selling” the invention in the India or “importing” the invention into the India. What is granted is not the right to make, use, offer for sale, sell or import, but the right to exclude others from making, using, offering for sale, selling or importing the invention.

There are three types of patents:

- 1) **Utility patents** may be granted to anyone who invents or discovers any new and useful process, machine, article of manufacture, or composition of matter, or any new and useful improvement thereof;
- 2) **Design patents** may be granted to anyone who invents a new, original, and ornamental design for an article of manufacture; and
- 3) **Plant patents** may be granted to anyone who invents or discovers and asexually reproduces any distinct and new variety of plant.

cont..



Students Corner

काहो नसते कोणीच ती ?

असते ती बहीण, असते ती प्रेयसी..
असते ती अर्धांगिनी, असते ती आई..

येवढं सगळं असतानाही,
नसतेच काहो कोणी ती?

असते घरातली पणती ती, असते घराची शान ती,
असते प्रेमाची खाण ती, असते उत्तम मैत्रीण ती,

येवढं सगळं असतानाही,
नसतेच काहो कोणी ती?

आयुष्याला बहार देते ती, घराला घरपण देते ती,
लढायला बळ देते ती, जगायला अर्थ देते ती,

येवढं सगळं असतानाही,
नसतेच काहो कोणी ती?

कधी झाशीची राणी असते ती, कधी सावित्रीबाई फुले असते ती,
कधी स्वभावाने कडक, तर कधी फुलाप्रमाणे जपणारी असते ती,

येवढं सगळं असतानाही,
नसतेच काहो कोणी ती?

आपल्या घराचा त्याग करत असते ती, दुसऱ्याचे घर जपत असते ती,
सारखी वादळे झेलत असते ती, कधी अग्नीपरिक्षाही देत असते ती,

येवढं सगळं असतानाही,
नसतेच काहो कोणी ती?

दुष्ट लोक तिची छेद काढत असतात,
त्या प्रगतीच्या पणतीचा लहानपणीच जीव घेत असतात,

ही सगळी संकटे ती पार करत असते,
सर्व कठीण प्रसंगांना तोंड देत असते,

येवढं सगळं असतानाही,
काहो नसते कोणीच ती?

काहो नसते कोणीच ती?

© शिवानी धनंजय भोसले.

B.E. Mech.



कलारसिकाचे मागणे

नकोत गाऱ्हाणी, नकोत विराणी, नको सततचे प्रेमाचे हे बहाणे
नको कहाणी नकोत शिकवणी, असल्यास ऐकवा जरा नवे तराने
तोच सूर्य, चंद्र अन् तीच रात्र, नकोत त्याच त्या ऋतूंचे गाणे
तीच ती नदी अन् तेच ते पात्र, तीच ती वळणे तेच ते वहाणे
नको त्याच लढाया, रक्ताचे पाट वा फुगवलेली राजेशाही वर्णने
तोच हिटलर, सीझर, बोनपार्ट तोच कट आणि तीच कारस्थाने
तेच पुढारलेले नेते, त्यांचे तेच स्वभाव, नको ते घडवलेले शहाणे
त्याच त्या समाजाचा तोच तो गाव, तिच मागणी तीच आंदोलने
नकोत तुमच्या हृदयीची वेदना, तेच खचणे अन् तेच उभारणे
कर्जाऊ शब्दांनी मांडलेल्या भावना त्याच विरहाचे तेच रडगाणे
त्याच त्या आयुष्याचा एकच संगमंच, त्याच संकटांचे अंक अवतरवणे
त्याच त्या शब्दांचा बंदिस्त संच, त्याच बुद्धीने पुन्हा तिथेच विहरणे
शब्द हवे शाश्वत नावीन्य उमलवणारे, प्रगल्भता प्रतिभा विस्तारणारे,
दिशादर्शक आत्मभान जागावणारे, शब्द मागो ज्ञाना प्रमाणे पसायदाने

© श्रेयश शशिकांत फापाळे

मौन

मौन माझे दडपलेला विखुरलेला वारसा
बोलका नसला तरी नाही अबोलही फारसा
मौन माझे ऐकताना सत्य वाटे मज आता
मौन माझे परीवजा परि परीसमानशी परीकथा
मौन माझे दोन तीरांमधील अटळशी अंतरे
अंतराच्या पलीकडील ती भावनिक भाषांतरे
मौन माझे पसरुनी वाटेवरी तू ठेव ना
वाट आणि मौन माझा आवडीचा खेळ ना

मौन माझे हरवले तू शोधुनी देशील का
गवसता ते त्यामधून तू भावना घेशील का
अखेरीस मी मौन माझे कपाटातच मांडले
तयासाठी आजवर कित्येक अश्रू सांडले
आज मी हे मौन माझे साठवाया लागलो
जेतके जपतोय तितके घालवाया लागलो
© विराज कवी





Marathwada Mitramandal's **COLLEGE OF ENGINEERING** Karvenagar, Pune - 52.

Permanently affiliated to SPPU | Accredited with 'A' Grade by NAAC
'Best College' award in 2018-19 by SPPU



VISION OF THE INSTITUTION

To aspire for the welfare of society through excellence
in science and technology.



MISSION OF THE INSTITUTION

Our Mission is to

- Mould young talent for higher endeavours.
 - Meet the challenges of globalization.
- Commit for social progress with values and ethics.
- Orient faculty and students for research and development.
 - Emphasize excellence in all disciplines.

