

St. John College of Engineering and Management, Palghar

(Approved by AICTE, Recognized by DTE and

Affiliated to Mumbai University)

NAAC Accreditation with A Grade

MECHATRON 5.0

(Departmental Newsletter)

Department of Mechanical Engineering

(December- 2022)



Chairman's message



Mr. Albert W. D'Souza

I am happy to see the first edition of newsletter/magazine of the Mechanical Engineering department **"MECHATRON 5.0"** December 2022 of St. John College of Engineering and Management, Palghar.

The newsletter/magazine is a communication medium for all students, staff, parents and friends to know the recent activities and developments that are taking place at the departmental level.

I congratulate the HOD, staff, students and the editorial team for coming up with this new issue of newsletter/magazine for the department.

At St. John, we remain committed to give very best to the students under our assistance. I want to extend my heartfelt gratitude to all the parents, students, stakeholders who have put their trust in us and been a part of this wonderful journey of St. John Technical Campus.

Let's come together to work with vision of Trust "Excellence in Serving to Educate and Educating to Serve".

Principal's Message



Dr. G. V. Mulgund

I am very pleased to see the first edition of newsletter/magazine of Mechanical Engineering department "**MECHATRON 5.0**" December 2022.

The newsletter contains all the information related to student activities, achievements, faculty achievements, workshops and other activities conducted at the departmental level.

Indeed it is a canvass that has taken its forum through the contribution of all the concerned in the department.

I would like to congratulate the Head of Department as well as staff and students.

I wish many more activities, academic pursuits, and achievements coming across our path as we journey together to conquer the milestone with St. John technical Campus.

HOD Message



Dr. Kishor Rambhad

(Ph.D Mechanical Engineering)
Associate Professor & Head

The department has a team of highly experienced and motivated faculty members who are in process of tuning the young minds to make them globally competitive. The strength of the department is highly motivated students who understand the dynamics of the industry and upgrade their skills accordingly. Depending upon the interest of the student, he/she may choose to go for higher studies or if employed can choose to do research, development, design, production, application, testing or management in the Information Technology industry.

In our department we not only give emphasis on study but also apply our knowledge in understanding the real life hands on experience by industry personnel because almost more than 30000 MSME companies are located in and around Palghar in the radius of 40km. We are encouraged to see many industries coming back to our department, which reinforces our belief in the effectiveness of our curriculum and its suitability to meet the dynamic corporate world.

Through innovative teaching-learning process a teamwork approach and leadership building experience, our students gain vital communication and critical-

thinking skills. Our institution provides a platform for the students to enhance their employability skills through Industry Institute Collaboration.”

With this brief introduction, I welcome you to be a part of our journey towards being a world-class centre of excellence in education, training, and research.

Editor Message



Mr. Ambeprasad Rushwaha

I am tremendously glad to present the first edition of newsletter/magazine "**MECHATRON 5.0**".

A lot of effort has gone into the making of this issue. We hope you enjoy reading the magazine.

This newsletter/magazine will continue to be a vehicle for promoting fluent communication among all members of the college. We have accounted for momentous achievements, events activities of the Students and staff of Mechanical department.

Our main endeavour is to spread knowledge and excellence which our team is working and progressing to achieve the best.

I would like to sincerely thank to the editorial team for their constant contribution and support into bringing this newsletter/magazine.

I also acknowledge my sincere thanks to our Chairman, Mr. Albert W. D'Souza, Principal, Dr. G.V.Mulgund and HOD, Dr. Kishor Rambhad for their encouragement and Support to prepare the this issue of annual newsletter/magazine "**MECHATRON 5.0**".

Departmental Vision

"To be a centre of high repute providing quality education and conducive environment for research leading to innovations in the field of Mechanical engineering."

Departmental Mission

- To impart quality education to the students and enhance their skills to make them globally competitive.
- To develop linkages with research and development organisations and Industries to create state of art facilities for teaching-learning and research.
- To inculcate habit of creative design and developing innovative products.

Program Educational Objectives (PEO's)

- To demonstrate their expertise in areas of design, manufacturing and thermal engineering to solve real life problems.
- To pursue higher education, research and entrepreneurship and do it ethically.
- To engage in lifelong learning and exhibit leadership quality.

Program Outcomes (PO's)

- Engineering graduates will be able to apply the basic knowledge in mathematics, sciences and engineering fundamentals for solving problems in mechanical engineering.
- Apply knowledge, techniques and skills to design mechanical and thermal systems or processes as per requirements.
- Demonstrate the ability to design and conduct experiments and standard tests to interpret and analyse data and results.
- Identify, formulate and design complex mechanical engineering problems in their future profession.
- Select and use modern engineering software tools and equipments to analyse mechanical engineering problems.
- Appreciate social and cultural values, asses the health, safety and legal issues and practices.
- Understand the impact of professional engineering solution for sustainable development.
- Understand the professional as well as ethical responsibilities and norms of different countries.
- Function effectively within multidisciplinary team as leader or member.
- Communicate effectively within engineering community and society at large by means of report writing, presentation and documentation.
- Demonstrate knowledge and understanding of engineering and management principles for effective project management.
- Educate and clearly understand and implement the value of lifelong learning.

TEACHING STAFF



**HOD Mechanical &
Associate Professor**



Prof. Vinod Surange



Prof. Ambeprasad Kushwaha



Prof. Rajesh Bisane



Prof. Vivek Narnaware



Prof. Rakesh Shinde



Prof. Sangam Rane



Prof. Parag Nikam



Prof. Chirag Kale



Prof. Avinash Chavan



Prof. Janak Suthar



Prof. Kiran Beldar



Prof. Pranit Mehta



Prof. Hrishikesh Kulkarni



Prof. Uday Prajapati

STTP/Guest lecture/Workshop/Seminars/Training organized by Faculty

S.N.	Title of the Seminar/workshop/Training	Organized by	Resource Person	From-To Date	Number of Participants	Learning Outcomes
1	Training on 3D Printing	Dr. Kishor Rambhad Mr. Vinod Surange	Mr. Prahlad Solanki	9th August 2022	10	Hands-on training on 3D Printer
2	One Day Webinar on Intellectual Property Rights (IPR)	Dr. Kishor Rambhad	Mr. Prahlad Jadhav	30th July 2022	71	IPR Awareness
3	5 Day FDP on Python for Mechanical & Civil Engineering	Dr. Kishor Rambhad Mr. Sangam Rane	Dr. Seema Kolkur Mr. Sunny Nanade	4th to 9th July 2022	10	Hands-on training for Python
4	Workshop on CO-PO Calculation	Dr. Kishor Rambhad	Mrs. Aditi Raut	1st Sep. 2022	06	CO-PO Awareness

Faculty Activities (Workshops, seminars, STTP/FDP attended by faculty)

S.N.	Name of Faculty	Title of training	Date	No. of days	Organization
1	Dr. Kishor Rambhad	One-week ISTE approved Online/SF-STTP/FDP Programme on Robotic Process Automation Design and Development V3.0	27th June 2022 to 1st July 2022	5	Thakur College of Engineering and Technology, Mumbai, Maharashtra
2	Mr. Rakesh Shinde	Condition Monitoring and Machinery fault diagnostic	29th to 30th July 2022	2	Fr. C Rodrigues Institute of Technology, Vashi
3	Mr. Rakesh Shinde	Mentors Training by Bureau of Indian Standards	6th and 7th May 2022	2	BIS, Pune Branch
4	Mr. Sangam Rane	One week FDP on Machine Learning: Basics to Advanced	1 st to 7 th July 2022	6	St. Francis Institute of Technology, Borivali

Faculty Publication (Patent/Book/ Book Chapter/ IC/IN/NC/IC)

Sr. No	Name of Faculty	Patent Files	No. of Conferences	Journals				
				WOS		Scopus	UGC Care	Other
				SCI	ESCI			
1	Dr. K. S. Rambhad	-	4	2	2	1 + 4 Accepted	-	-
2	Mr. Vinod G. Surange	-	-	-	-	1 Accepted	-	-
3	Mr. Rajesh Bisane	1	2	-	1	1 + 2 Accepted	-	-
Total		1	6	2	3	2 Published+ 6 Accepted	-	-

Faculty Citations

Sr. No	Name of Faculty	Google Scholar				Scopus			
		Citation	h-index	i10-index	citation in 2022	Citation	h-index	i10-index	citation in 2022
1	Dr. K. S. Rambhad	155	4	2	56	107	3	2	37
2	Mr. Vinod G. Surange	179	6	5	15	44	3	2	11
3	Mr. Rajesh Bisane	9	2	0	1	4	1	0	1
4	Mr. Chirag Kale	31	1	1	11	6	2	0	1
Total		374	13	7	83	161	9	4	50

Research Grant Applied

Sr. No	Name of Faculty	No. of Proposal submitted	Funding body
1	Dr. K. S. Rambhad	1	RGSTC
2	Mr. Rakesh Shinde/ Mr. Sangam Rane	1	
3	Mr. Rajesh Bisane	1	
4	Mr. Vivek S. Narnaware/ Mr. Nitin Sall	1	

Faculty interaction with outside world

Sr. No	Faculty Name	Paper Reviewed (WOS/Scopus)	Session Chaired/ Judged	Guest Lecture Delivered	Question Paper Setting
1	Dr. Kishor Rambhad	2	1	1	-
2	Mr. Vinod G. Surange	-	1	-	1
3	Mr. Rajesh Bisane	-	-	-	1
4	Mr. Ambepasad Kushwaha	-	-	-	1
5	Mr. Vivek Narnaware	-	-	-	2
6	Mr. Chirag Kale	-	-	2	2
Total		2	2	3	7

Industries visited by faculty members

S.N.	Name of Industry	Faculty Name	Located at	Date of Visit
1	Satpati fishermen Sarvodaya society cold storage	Dr. Kishor Rambhad Mr. Rajesh Bisane and Mr. Parag Nikam	Shirgaon, Palghar	13/04/2022
2	Vinod Cookware	Mr. Vivek Narnaware	Palghar	13/04/2022
3	CEMS, Powai	Mr. Parag Nikam	Powai	20/08/2022
4	EBCO Pvt. Ltd. & Plus Electronics	Mr. Chirag Kale Mr. Nitin Sall	Palghar	12/04/2022
5	Mahindra & Mahindra Limited.	Mr. Vinod Surange	Kandivali, Mumbai	29/06/2022



Vinod Cookware



Satpati Cold Storage

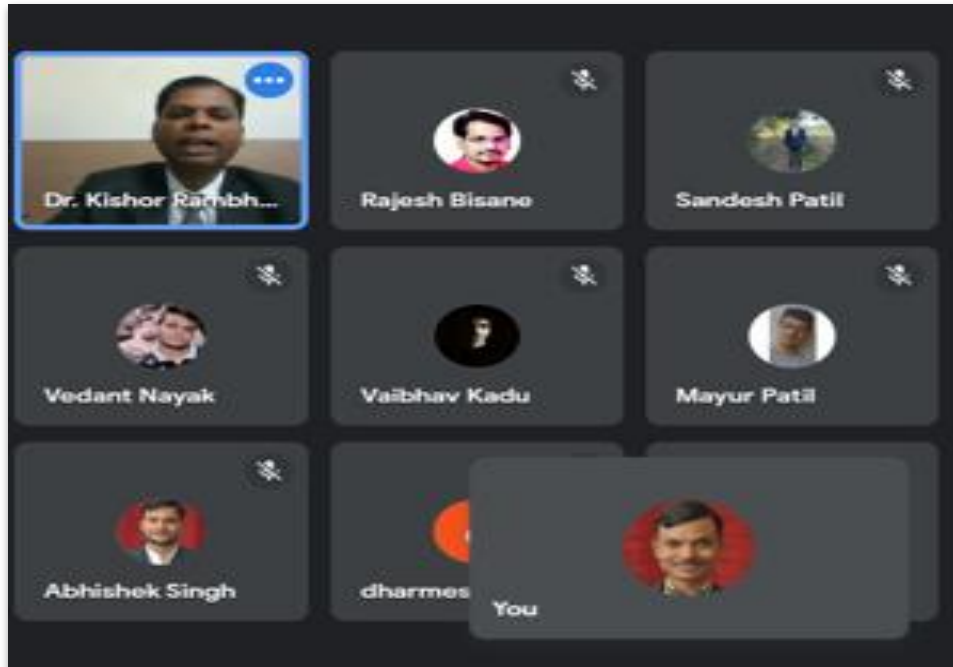
Faculty Achievements

S.N.	Faculty Name	Achievement	Details
1	Mr. Rajesh Bisane	Submitted Ph.D. to the University of Mumbai on 29th July, 2022	Thesis entitled " Performance Investigation on Single Cylinder Four Stroke Tri-charged Diesel Engine Supervisor: Dr. Rajesh Kale
2	Mr. Vinod Surange	Submitted Ph.D. to the University of Mumbai on 29th July, 2022	Thesis entitled "Investigation of Critical Risk Factors in Manufacturing Sector Supervisor: Dr. Sanjay Bokade
3	Mr. Rajesh Bisane	Best Paper Award	International Conference in Embracing Industry 4.0 Technologies for Sustainable Growth (ICET4.0) held on 21-23 April

Parents Teacher Meeting

A Parents Teachers Meeting was organized on 16th July 2022 for T.E and B.E Students.

Parents Present –80



Alumni Talk

On 18th August 2022, the Mechanical engineering department organized “Alumni Talk “.

Alumni Mr. Shubham Dnyanmothe (Production Engineer, at Kumar Metals) of BE Mechanical Batch 2021 interacted with final year students of Mechanical Engineering and shared his experience with students.



Institute Visit

K.J. Somaiya College of Engineering, Vidyavihar, Mumbai (KJSCE), on 23/05/2022



Glimpses of FDP on Python





Glimpses of Workshop on CO-PO Calculation

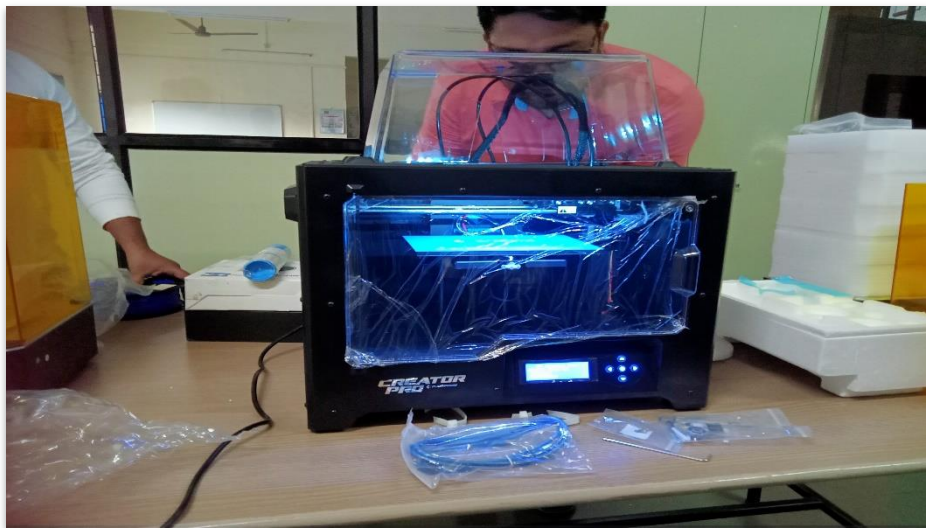


Glimpses of Campus Drive

Perfect Containers on 27 July 2022



3D Printing Training



MESA Activities



Painting Competition



Mehandi Competition



Rangoli Competition