



**St. John College of Engineering and Management, Palghar**

(Approved by AICTE, Recognized by DTE and Affiliated to Mumbai University)

**NAAC Accreditation with 'A' Grade**

**Department of Mechanical Engineering**



# MECHATRON 1.0 MECHATRON 1.0

**June - 2019**



## CHAIRMAN'S MESSAGE

**Mr. Albert W. D'Souza**

I am happy to see the second edition of newsletter/magazine **“MECHATRON 1.0” June 2019 edition** under Mechanical Engineering department 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 second edition of newsletter/magazine of Mechanical Engineering department **“MECHATRON 1.0” June 2019 edition**.

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. V. Sivabharathi**

I am very blissful to inform that Department of Mechanical Engineering, has taken a leading role constructively in various development activities. The news letter report highlights many evidences in the areas, such as, industrial visits, internship, training of students and faculties. This Academic Year 2018-19, . our department received University minor research grants which are utilized for upgrading resources and knowledge of students and faculties. A major area of focus during this year has been enhancement of industry institute interaction. I am excited to note that we are able to achieve significant number of students of Mechanical Engineering have participated in internship.

The department continually strives to nurture the new relations with follow-up activities to strengthen the bond between academia and industry. We believe that teaching and learning should expand beyond the classrooms which is the need of the hour. Students got opportunities to learn in this new fashion and innovate through industry supported projects, internships, networking projects and guest lectures of eminent persons. As in previous years, students passionately participated in national level technology competitions like SAE BAJA. Department conducted some student centric training's, for example, NDT and ANSYS etc. Research papers have been published in the renowned national and international journals by the department in this year which shows a healthy trend and positive look. Our alumni continue to support and perform well in the field in which they serve or pursue their higher education. This year I proud to express that our faculties are showing interest in pursuing their research works and few are having interest to join in PhD program which is a good sign. I take this opportunity to acknowledge that all faculties have contributed whole heartedly to achieve and enriched good students Mumbai University academic results.

I thank all the faculties for their efforts to deliver impressive performance and achieving tremendous significant overall growth of the department and I am much more beholden to the management for given the opportunity to serve as Head of the Department.

## EDITOR MESSAGE

**Mr. Abhishek Kumar**



I am tremendously glad to present the first issue of annual newsletter/magazine **"MECHATRON 1.0 June 2019 edition"**.

This newsletter/magazine will continue to be a vehicle for promoting fluent communication among all members of college. We have accounted 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. V. Sivabharathi for their encouragement and Support to prepare the second issue of annual newsletter/magazine **"MECHATRON 1.0"**



## 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 life long 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



**Dr. V. Sivabharthi**  
(Prof. and Head)



**Prof. Shivaji Shelar**



**Prof. Vinod Surange**



**Prof. Rajesh Bisane**



**Prof. Ambepasad  
Kushwaha**



**Prof. C. Ganesh**



**Prof. Vivek Narnaware**



**Prof. Bhushan Sonawane**



**Prof. Avinash Chavan**



**Prof. Arif Upletawala**



**Prof. Rakesh Shinde**



**Prof. Abhishek Kumar**



**Prof. Sangam Rane**



**Prof. Gaurav Bhawde**



**Prof. Parag Nikam**



**Prof. Rohit Deshpande**



**Prof. Kiran Beldar**



**Prof. Chirag Kale**



#memories #SJCEM #nostalgia

Mr. Sandeep Sankhe, Mr. Sachin Kandi, Mr. Gyanchand Yadav, Mr. Chetan Kudu,  
Mr. Alpes Naik and Mr. Neeraj Mishra (From Left to Right)





## FINAL YEAR MECH - A



#memories #SJCEM #nostalgia



## FINAL YEAR MECH - B



#memories #SJCEM #nostalgia





## THIRD YEAR MECH - A



#memories #SJCEM #nostalgia



## THIRD YEAR MECH - B



#memories #SJCEM #nostalgia





## SECOND YEAR MECH - A



#memories #SJCEM #nostalgia



## SECOND YEAR MECH - B



#memories #SJCEM #nostalgia

## FACULTY CONTRIBUTIONS

### Faculty Development Programme/ STTP Attended :

Sr. No.	Name of Faculty	FDP/STTP/ Training program attended	Resource Person(s) / Agency / Company	Venue	Date
1.	Dr. V. Sivabharathi	Soft skills for teacher in higher technical education	SJIPR Palghar	SJIPR Palghar	6 – 10 May 2019
2.	Prof. Gaurav Bhawde				
3.	Prof. Abhishek Kumar Singh				
4.	Prof. Kiran Beldar				
5.	Prof. Dhiraj Darunde				
6.	Prof. Ravi Verma				
7.	Prof. Abhishek Kumar Singh				
8.	Prof. Vivek Narnaware	Recent Trends in IoT	Dr. P. N. Kondekar, IIIT Jabalpur	SJCEM Palghar	10 – 15 June 2019
9.	Prof. Rajesh Bisane				



## FACULTY PUBLICATION

### Faculty publication in Journals :

Sr. No.	Name of Faculty	Title of Paper	Journal Title	Journal ISSN No.
1.	Dr. V. Sivabharathi	CFD Analysis of Flow Field and stress Analysis of Cell Stack on PEM- Based Hydrogen generator	International Journal for scientific research and Development	ISSN 2321-0613
2.		Modelling the challenging factors for setting up semiconductor fabrication plants: a case study from India	International Journal Productivity and quality management	ISSN 1746-6482
3.		Modeling the interrelationship between parameters for improving weld Strength in Plastic hot plate welding A DEMATAL approach	Journal of Elastomers and Plastics	95244318824779

### Minor Research Grant Sanctioned by Mumbai University :

Academic Year 2017-18			
Sr. No.	Name of Faculty	Title of Project	Amount Sanctioned
1.	Mr. Vivek Narnaware	Design and Fabrication of Spray Painting Robot Prototype with Six Degrees of Freedom	Rs. 25,000/-

## FIVE DAYS WORKSHOP

### **Five Days Workshop on “Non Destructive Testing (NDT) Level -I” conducted at St. John College of Engineering and Management, Palghar during 16 th to 20 th March 2019.**

The Inauguration ceremony was held at 9am in the presence of Dr. G. V. Mulgund, (Principal, SJCEM), Dr. V. Sivabharathi (HOD Mechanical), Mr. Tejpal Singh (Guest speaker), Mr. Rahul Singh (Course conductor). At beginning Mr. Parag Nikam, Asst. Professor, SJCEM addressed the gathering and felicitation of Guest been done by Dr. G. V. Mulgund, Principal, SJCEM, with flowers and sir also explained the students about the importance of new NDT courses.

This particular Workshop will help students to increase their knowledge and skills regarding Non Destructive Testing (NDT).





## THREE DAYS WORKSHOP

### Three Days workshop on Finite Element Analysis using Ansys software

Department of Mechanical Engineering has organized 3 Day workshop on Finite Element Analysis using Ansys software specifically for Third Year Students which focuses on the concepts and problem solving with the help of APDL method in Ansys.

Resource Person:- Mr. Shah Ibrahim Shaikh, Director Tech-Task, Centre Head - CADD Centre Vasai Road, is a Mechanical Engineer with 13 years of experience in CAD/CAE training, also serving Industry as a Machine Design Consultant.



## INDUSTRIAL VISIT

### Industrial Visit to Ice Manufacturing Factory Satpati , Palghar [12/03/2019]

An industrial visit was arranged for the students of B.E Mechanical at Ice Manufacturing Factory Satpati, Palghar on 12th March 2019. The name of company is “The Satpati Fisherman Sarvodaya Sahakari Society Ltd”. It was organized to understand the working of ice plant using ammonia gas as refrigerant and cold storage.



### Industrial Visit to Vinod Cookware, Palghar [16/03/2019]

An industrial visit was arranged for the students of S.E. Mechanical at Vinod Cookware, Palghar on 16th March 2019. It was organized to understand the working various types of sheet metal operations.





# NPTEL CERTIFICATIONS BY FACULTY

## NPTEL Certifications by Faculty



Following students have completed industrial internship in various reputed organizations.

Sr. No.	Name of Student	Year	Organization	Date of Internship
1.	Manish Manohar Patil	T.E.	TATA Steel ,Tarapur	14/12/18 to 05/01/19
2.	Varun Devendra Churi	S.E.	Adani D.T.P.S(6 days internship)	21/01/19 to 26/01/19
3.	Nimesh Arun Dutkar	S.E.	Adani D.T.P.S(6 days internship)	21/01/19 to 26/01/19
4.	Dhananjay Vairal	T.E.	TATA STEEL LIMTIED	18/12/18 to 3/01/19
5.	Durgesh Ghanasham	T.E.	Aarti Drugs Ltd.	14/12/18 to 04/01/19
6.	Mahipatrao Sujay	T.E.	Larsen & Toubro Ltd	17/12/18 to 17/01/19

## SPORTS

**Mr. Ketan Bhagwat** of TE-B has secured Runner-up position in Badminton (Men's Doubles) held at VCET, Vasai on 11th January 2019.



**Mr. Kevin Francis** of BE-A has secured Runner-up position in Football held at Vidyalankar Institute of Technology, Wadala on 9th and 10th February 2019.

