



MECHATRON 1.0 MECHATRON 1.0



December - 2018



CHAIRMAN'S MESSAGE

Mr. Albert W. D'Souza

I am happy to see the first edition of newsletter/magazine **“MECHATRON 1.0” December 2018 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 first edition of newsletter/magazine of Mechanical Engineering department **“MECHATRON 1.0” December 2018 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 December 2018 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	Engine Management System	SurajSD,CEO, CompetencesFactory Pvt.Ltd.Bengaluru, Karnataka	SJCEM Palghar	12 – 14 October 2018
2.	Prof. Shivaji Shelar				
3.	Prof. Vinod Surange				
4.	Prof. Ambeprasad Kushwaha				
5.	Prof. Rajesh Bisane				
6.	Prof. Vivek Narnaware				
7.	Prof. C. Ganesh				
8.	Prof. Bhushan Sonawane				
9.	Prof. Arif Upletawala				
10.	Prof. Gaurav Bhawde				
11.	Prof. Parag Nikam				
12.	Prof. Sangam Rane				
13.	Prof. Rohit Deshpande				
14.	Prof. Dhiraj Darunde				
15.	Prof. Ravi Verma				
16.	Prof. Abhishek Kumar Singh				
17.	Prof. Ambeprasad Kushwaha	Product Analysis	Shah Ibrahim Bashir, CADDCentre,Vasai	SJCEM Palghar	
18.	Prof. C. Ganesh				
19.	Prof. Arif Upletawala				
20.	Prof.Gaurav Bhawde				

FACULTY CONTRIBUTIONS

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21.	Dr. V. Sivabharathi	NBAProcess	NITTTR Chennai	NITTTR Chennai	17-21 December 2018
22.	Prof. Ambepasad Kushwaha				
23.	Prof. Gaurav Bhawde				
24.	Prof. Abhishek Kumar Singh				
25.	Prof. Kiran Beldar				
26.	Dr. V. Sivabharathi	Research Methodology	Dr. Santosh Rane, SPCE Mumbai	SJCEM Palghar	21-22 September 2018
27.	Prof. Shivaji Shelar				
28.	Prof. Vinod Surange				
29.	Prof. Ambepasad Kushwaha				
30.	Prof. Rajesh Bisane				
31.	Prof. Vivek Narnaware				
32.	Prof. C. Ganesh				
33.	Prof. Bhushan Sonawane				
34.	Prof. Arif Upletawala				
35.	Prof. Gaurav Bhawde				
36.	Prof. Parag Nikam				
37.	Prof. Sangam Rane				
38.	Prof. Rohit Deshpande				
39.	Prof. Dhiraj Darunde				
40.	Prof. Ravi Verma				
41.	Prof. Abhishek Kumar Singh				

FACULTY PARTICIPATION IN CONFERENCES:

Sr. No.	Name of Faculty	Title of Paper	Conference attended	Venue	Date(s)
1.	Prof. Vinod Surange	Framework for lean six sigma and knowledge management to reduce cost of quality	National Convention of IIIE&	Shiksha O' Anusandhan University, Bhubaneswar, Odisha	27-30 sep 2018

NPTEL Certifications by Faculty



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
ABHISHEK KUMAR
 for successfully completing the course
Fundamentals of Manufacturing Processes
 with a consolidated score of **78 %**

Online Assignments	24.06/25	Proctored Exam	54/75
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Total number of candidates certified in this course: **1084**



Prof. B. K. Gandhi
Coordinator, Continuing Education Center
NPTEL Coordinator, IIT Roorkee

Jul-Oct 2018
(12 week course)



Indian Institute of Technology Roorkee



Roll No: NPTEL18ME51S21660446

To validate and check scores: <http://nptel.ac.in/noc>

INDUSTRIAL VISIT:-

ANCO MOTORS, PALGHAR [08/10/2018]

An industrial visit was arranged for the students of B.E Mechanical at ANCO Motors, Palghar manufacturing unit on 8th of October 2018. It was organized for the students to understand the working, assembling and testing of pumps and motors.



RALTECH PRECISION Pvt. Ltd. , GOREGAON [9/10/2018]

An industrial visit was arranged for the students of S.E-Mechanical at Raltech Precision Engineering Pvt. Ltd., Goregaon manufacturing unit on 9th of October 2018. It was organized to understand the manufacturing process of submersible and mono block pump sets.



STUDENT'S ACHIEVEMENTS

Mr. Rohit Patel of TE-A has secured first rank in Robosoccer held at Padre Conceicao College of Engineering, Goa on 10th , 11th , and 12th October 2018



Team "Excel" of SJCEM has participated in Smart India Hackathon held at IIT, .Kharagpur on 18th to 22nd 2018.



Following students have completed industrial internship in various reputed organizations.

Sr. No.	Name of Student	Year	Organization	Date of Internship
1.	Pranay Ayare	B.E.	Autobahn Enterprise	20/12/18 to 07/1/18
2.	Chinmay Mahajan	T.E.	Viraj Profiles Ltd	15/12/18 to 31/12/18
3.	Vishal Singh	T.E.	Tata Steel Boisar Pvt Ltd	15/12/18 to 15/01/19
4.	Harsh Pagdhare	B.E.	Kurla Railway She	17/12/18 to 31/12/18
5.	Chinmay Pagdhare	T.E.	Tata Steel Boisar Pvt Ltd	14/12/18 to 28/12/18)
6.	Durgesh Sonawane	T.E.	Tata Steel Boisar Pvt Ltd	14/12/18 to 04/01/19
7.	Mahant Tamore	T.E.	AFFF/BARC	14/12/18 to 28/12/18
8.	Shubham A Sonavane	T.E.	Cocacola India Pvt Ltd	20/12/18 to 05/01/19
9.	Prashant Shimpi	T.E.	TATA Steel, Tarapur	14/12/18 to 04/01/19
10.	Harshvardhan Patil	T.E.	Adani D.T.P.S (15 days internship)	14/12/18 to 28/12/18
11.	Saurabh Anil Mestry	B.E.	KLT Automotives	15/12/18 to 30/12/18
12.	Subrat Kumar Behera	T.E.	CWM - Carriage Workshop	13/12/18 to 06/12/18