

### About News Letter

SSBT's COET, Department of Mechanical Engineering is proud to publish its NEWS LETTER 2019-20 (Vol. XV).

The objective of this News Letter is to keep our Students, Parents, Faculty and Industry informed about the activities happening in the Department.

Through this half yearly publication, we hope to engage our various stakeholders in building the network among themselves.

We hope you enjoy it!

### Editorial Board

Dr. S. P. Shekhawat,  
Prof. N. K. Patil, HOD MED  
Mr. A.V. Rajput

#### Members:

Bari Mayur Ganeshrao (B.E.)  
Nemade Diptesh Dilip (T.E.)  
Kulkarni Pooja Sharad (S.E.)

### INSIDE.....

- Chairman's Message...
- From Principal's Desk ...
- SSBT's COET at a Glance
- About Department
- Faculty Profile
- Faculty Participation
- Publications
- Result Analysis
- MESA Activities
- Students Participation
- Photo Gallery



Smt. PRATIBHA DEVISINGH PATIL  
Former President of India  
Founder Chairperson  
Shram Sadhana Bombay Trust



Dr. DEVISINGH R. SHEKHAWAT  
An Eminent Educationist  
The Founder President of  
Vidya Bharti Shaikshanik  
Mandal, Amravati



Shri. RAOSAHEB SHEKHAWAT  
Chairman  
Governing Body,  
Shram Sadhana Bombay Trust



Prof. Dr. K. S. Wani  
Principal  
SSBT's COET, Bambhori, Jalgaon



Prof. Dr. Sanjay P. Shekhawat  
Vice-Principal  
SSBT's COET, Bambhori, Jalgaon

## Chairman's Message...



We have a vision to build up excellent center of technical education coupled with industrial interaction. This will be structured with the academic excellence that the institution has set for itself. The Institute organizes programs that highlight the fundamental values in life directing its students to achieve excellence in their respective fields. The green campus extends career building opportunities for more than 800 students every year. Highly qualified and well experienced faculties mould and mentor the students for prospective careers. We have a very dedicated group of faculty & Staff who works together to spread the quality knowledge. These staff members bring an immense amount of talent, resources and experience to the table for benefit of SSBT College of Engineering & Technology. As part co-curricular and extracurricular activities, we conduct state level and intercollegiate level seminars and workshops; encourages students to participate in technical paper presentation contests; organize lectures by experts from leading industries etc. SSBT aims at not only educating the young to be successful Engineers, Managers and Entrepreneurs but also to churn out socially responsible human beings of tomorrow. I convey my best wishes to all the students and their parents for a successful future and good education.

## From Principal's Desk...



The current scenario in the local, national and international level is of intense competition with equal opportunity to all. The world has grown phenomenally in the past decade than ever before. Education which has always played an important role in the life of man has gained a lot of importance. In the present times it is not only, 'what you have' but 'how much you know' determines your success.

Here in our college we believe in 'shram sadhana' i.e. karm yoga & this value we inculcate in our students. Our college is having 8 UG Programs & 2 PG programs in engineering, a M.B.A. & 05 Ph.D. Programs. We have the best of staff, faculties & facilities to impart technical excellence to our students who will be the architects of technological development & Society.

The college gives due importance to co-curricular and extra-curricular activities. Our students excel in intercollegiate and University' competitions in extra-curricular events. College also conducts personality development programs, guest lecturers in general and technical areas for continuous improvement of students and faculty.

Training and placement department of our college helps students in making them aware about the various job opportunities in their respective fields with the aid in applying for the jobs and conducts campus interviews to recruit them when they are in final year of their graduation. Our aim is to impart the best of the knowledge and technical knowhow to our students with required inputs, and the desire and ability to learn, lead and excel to make them responsible and respected citizens of India. We will be pleased if we receive any suggestion regarding our improvement.

## **VISION of SSBT's COET**

Today we carry the flame of quality education, knowledge and progressive technology for global societal development; tomorrow the flame glow even brighter.

## **MISSION of SSBT's COET**

To provide conducive environment for preparing competent, value added and patriotic engineers of integrity of par excellence to meet global standards for societal development.

## **OBJECTIVES**

- To impart innovative teaching and learning.
- To provide quality education with futuristic trends in engineering and technology.
- To develop the institute as a research center for academic excellence.
- To ensure continual improvement in quality management system.
- To inculcate social values, patriotism and professional ethics among students.

## **SSBT's COET at a Glance**

SSBT's College of Engineering & Technology is an Engineering College governed by Shram Sadhana Bombay Trust (SSBT). It is a college with long tradition of imparting excellence in education.

- The institute is conferred "A" Grade by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon vide letter number KBCNMU/11A/Academic Audit/246/2019 dated 04/06/2019 as per its Academic Audit.
- The institute is included in the list of colleges prepared under Section 2(f) of the UGC Act, 1956 vide letter number F 8-40/2008 (CPP-I) dated 2 June 2008 and 12(B) vide letter number F.No. 8-40/2008(CPP-I/C) dated 23 September 2010.
- Quality Management System (QMS) of the institute conforms to ISO 9001:2008 since March 2009 and ISO 9001:2015 since February 2018.

- The institute is awarded “Better India Education Awards 2018” on June 30, 2018 by Today Research & Rating, New Delhi.
- The institute is awarded “Brand Excellence in Education” in 2017 by 94.3 MY FM, Dainik Bhaskar Corporation Ltd.
- The institute is awarded "Engineering Education Excellence Award-2015" by INDO Global Chamber of Commerce Industries and Agriculture Pune, for the efforts in promoting Quality Education and implementing the higher standards of Technical Education in the field of Engineering.
- The institute is awarded "Corporate Excellence Award" on 28th November 2015, for Brand Excellence in Education by Lokmat.
- The institute is awarded “EEF Award for Excellence 2008 - 09” by Engineering Education Foundation, Pune.
- The Institute is Accredited by National Assessment and Accreditation Council (NAAC) with CGPA of 2.91 on a seven point scale at B++ Grade, valid for a period of Five Years from 16-09-2016 (Vide letter No: F.19.26/EC(SC-17)/DO/2016/132.1, dated 19-09-2016).

## **ABOUT DEPARTMENT**

Mechanical engineering focuses on working with the tools and machinery taking into account the principles of Science, mainly Physics for the development of various systems for mankind.

In today’s world, Mechanical Engineering are pursuing developments in the fields such as Composite Materials, Mechatronics, Industry Automation, Product Design and Development, Renewable Energy Sector and Industrial developments.

Mechanical Engineering aim to ease the lifestyle with the advancement in technology to further advance the world around us, providing more comfort, ease and economic vitally globally.

Today we find that Mechanical Engineering have made a benchmark with their creations, innovations and inventions in almost all the aspects of life.

Mechanical Engineering can make their career in the field of Thermal Engineering, Manufacturing, Design Engineering, Aerospace, Automobile, Robotics etc.

The department also offers PhD in major thrust areas. The department has highly qualified faculty members, state of art laboratories and infrastructures. Various Funded Research Projects and Consultancy projects are also taken up. Students of the department are actively involved in various extracurricular activities and extension activities. A group of students are participating in a national SAE BAJA competition and ROBOCON.

## **VISION of DEPARTMENT**

To nurture the students by providing high quality broad based technical education for global societal development and continuous improvement in value added knowledge.

## MISSION of DEPARTMENT

To cultivate a conducive environment through teaching, application specific learning and services to foster the technical critical thinking ability of the students as well as the faculties to contribute for developing global mechanical engineering professionals and well-being of the society

## SALIENT FEATURES

- Experienced, Qualified & Research Oriented Faculty
- Modern and Well-Equipped Laboratories
- NAAC Accredited for 5 Years with B++ Grade
- Project Based Learning
- Teacher Guardian Scheme
- Well-equipped laboratories
- Research Facilities
- Wi-Fi Campus

## Programme Educational Objectives (PEOs)

- **PEO 1. Core Knowledge** - The mechanical engineering graduates will have the knowledge of basic science, engineering skills, humanities, social science, management, conceptual and practical understanding of core mechanical engineering area with project development.
- **PEO 2. Employment/ Continuing Education** - The mechanical engineering graduates will have the knowledge of Industry-based technical skills to succeed in entry level engineering position at various industries as well as in academics.
- **PEO 3. Professional Competency** - The mechanical engineering graduates will have the ability to communicate effectively in English, to accumulate and disseminate the knowledge and to work effectively in a team with a sense of social awareness.

## Programme Specific Outcomes (PSOs)

- 1) To develop professional leadership through co-curricular & extra-curricular activities
- 2) To impart skillful, value-based & modern technology knowledge center for lifelong learning
- 3) To develop multi-disciplinary, multi-skill technical abilities through integration of mechanical & other engineering disciplines

## Programme Outcomes (POs)

- 1) Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization for the solution of complex engineering problems
- 2) Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences
- 3) Design / development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations
- 4) Conduct investigations of complex problems: Use research-based knowledge & research methods including design of experiments, analysis & interpretation of data and synthesis of information to provide valid conclusion
- 5) Modern tool usage: Create, select and apply appropriate techniques, resources, modern engineering and IT tools, including prediction and modelling, to complex engineering activities, with an understanding of the limitations
- 6) The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
- 7) Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
- 8) Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
- 9) Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings
- 10) Communication: Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
- 11) Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments
- 12) Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

## FACULTY PROFILE

Sr. no.	Faculty Name	Designation	Email - Id
1	<b>Dr. Sanjay P. Shekhawat</b>	<b>Vice-Principal</b>	<a href="mailto:spshekhawat@rediff.com">spshekhawat@rediff.com</a>
2	<b>Mr. Navneet K. Patil</b>	<b>Asso. Professor</b>	<a href="mailto:navneetkpatil@gmail.com">navneetkpatil@gmail.com</a>
3	<b>Mr. Krishna S. Shrivastava</b>	<b>Asso. Professor</b>	<a href="mailto:krishnashrivastava@yahoo.co.in">krishnashrivastava@yahoo.co.in</a>
4	<b>Mr. Mahesh V. Rawlani</b>	<b>Asso. Professor</b>	<a href="mailto:meshu_sir@rediffmail.com">meshu_sir@rediffmail.com</a>
5	<b>Dr. Prajitsen G. Damle</b>	<b>Asso. Professor</b>	<a href="mailto:pgdamle2@yahoo.com">pgdamle2@yahoo.com</a>
6	<b>Mr. Devendra B. Sadaphale</b>	<b>Asst. Professor</b>	<a href="mailto:devendra_sadaphale@rediffmail.com">devendra_sadaphale@rediffmail.com</a>
7	<b>Mr. Prashant N. Ulhe</b>	<b>Asst. Professor</b>	<a href="mailto:prashantulhe@rediffmail.com">prashantulhe@rediffmail.com</a>
8	<b>Mr. Pradeep M. Solanki</b>	<b>Asst. Professor</b>	<a href="mailto:p_msolanki@rediffmail.com">p_msolanki@rediffmail.com</a>
9	<b>Mr. Pravin D. Patil</b>	<b>Asst. Professor</b>	<a href="mailto:pravinpatil100@rediffmail.com">pravinpatil100@rediffmail.com</a>
10	<b>Mr. Mahesh V. Kulkarni</b>	<b>Asst. Professor</b>	<a href="mailto:mvkmvk@gmail.com">mvkmvk@gmail.com</a>
11	<b>Mr. Ajay R. Bhardwaj</b>	<b>Asst. Professor</b>	<a href="mailto:mailme_ajaybhardwaj09@rediffmail.com">mailme_ajaybhardwaj09@rediffmail.com</a>
12	<b>Mr. Dipak C. Talele</b>	<b>Asst. Professor</b>	<a href="mailto:taleledeepak190687@gmail.com">taleledeepak190687@gmail.com</a>
13	<b>Dr. Prashant P. Bornare</b>	<b>Asst. Professor</b>	<a href="mailto:ppbornare79@gmail.com">ppbornare79@gmail.com</a>
14	<b>Mr. Chandan K. Mukherjee</b>	<b>Asst. Professor</b>	<a href="mailto:ckm.jalgaon@gmail.com">ckm.jalgaon@gmail.com</a>
15	<b>Mr. Akhilesh V. Rajput</b>	<b>Asst. Professor</b>	<a href="mailto:akhileshvrajput@gmail.com">akhileshvrajput@gmail.com</a>
16	<b>Mr. Ajay J. Puri</b>	<b>Asst. Professor</b>	<a href="mailto:ajaypuri19@gmail.com">ajaypuri19@gmail.com</a>
17	<b>Mr. Tejas G. Patil</b>	<b>Asst. Professor</b>	<a href="mailto:tejas.patil@live.com">tejas.patil@live.com</a>
18	<b>Mr. Abhinav D. Sardar</b>	<b>Asst. Professor</b>	<a href="mailto:abhinavsardar05@gmail.com">abhinavsardar05@gmail.com</a>

## FACULTY PARTICIPATION

Sr. No.	Name of Faculty	Training/STTP/Workshops	Duration	Venue
1	Mr. N. K. Patil, Mr. A. R. Bhardwaj, Mr. P. M. Solanki, Mr. P. D. Patil Mr. D.C. Talele Mr. A.J. Puri	CNC Programming & Operations	19 <sup>th</sup> Jul. to 21 <sup>th</sup> Jul. 2019	SSBT's COET, Bambhori, Jalgaon.
2.	Mr. C. K. Mukherjee	Completed 6 NPTEL courses named: 1. Corporate Social Responsibility 2. Design Practices 3. Project Management 4. Work System Design 5. Industrial Safety Engineering 6. Waste Water Treatment and Recycling	8/12 Weeks  From Jul. to Sep. 2019.	Online

## FACULTY PUBLICATIONS

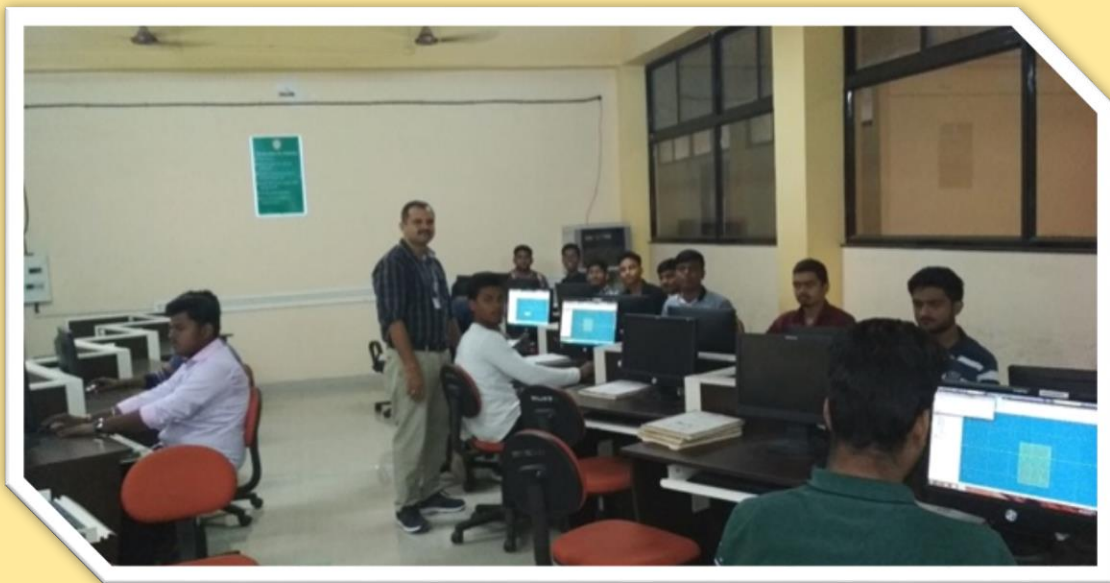
Sr. No.	Faculty Name	Papers in Conferences/ Journals	Title	Date and Venue
1.	Dr. S. P. Shekhawat	International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management (ICGTSTHCM-19)	Industrial Automation in Food Industries	December 28-30, 2019, SSBT'S College of Engineering and Technology, Bambhori, Jalgaon, India
2.	Dr. S. P. Shekhawat	International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management (ICGTSTHCM-19)	Road Traffic Accident Scenario in India.	December 28-30, 2019, SSBT'S College of Engineering and Technology, Bambhori, Jalgaon, India
3.	Dr. S. P. Shekhawat	International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management (ICGTSTHCM-19)	A Study of Operational Parameters of Poultry Houses to Reduce Heat Stress Effect Under the Tropical Climate Conditions.	December 28-30, 2019, SSBT'S College of Engineering and Technology, Bambhori, Jalgaon, India
4.	Mr. N. K. Patil	PRATIBHA: International Journal of Science, Spirituality, Business and Technology (IJSSBT)	Generation of Electricity Through Desk Chair	ISSN (Print) 2277-7261, Vol. 7, No. 1, September 2019
5.	Dr. P. G. Damle	PRATIBHA: International Journal of Science, Spirituality, Business and Technology (IJSSBT)	Generation of Electricity Through Desk Chair	ISSN (Print) 2277-7261, Vol. 7, No. 1, September 2019
6.	Mr. A. R. Bharadwaj	International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management (ICGTSTHCM-19)	Metal Matrix Composite: A Review	December 28-30, 2019, SSBT'S College of Engineering and Technology, Bambhori, Jalgaon, India

<b>Sr. No.</b>	<b>Faculty Name</b>	<b>Papers in Conferences/ Journals</b>	<b>Title</b>	<b>Date and Venue</b>
7.	Mr. M. V. Kulkarni	International Conference on advances in Mechanical & Electrical Engineering (ICAMEE) 2019	Phase Change Material for Enhancing Performance of Solar Water Heater	25 <sup>th</sup> Aug. 2019, G. H. Raison, College of Engineering & Technology, Nagpur
8.	Mr. M. V. Kulkarni	International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management (ICGTSTHCM-19)	Applications of Artificial Neural Network in Solar Energy Systems: A Review	December 28-30, 2019, SSBT'S College of Engineering and Technology, Bambhori, Jalgaon, India
9	Mr. C. K. Mukherjee	International Conference on Industrial Engineering (ICIE-19)	Review Report of Maharashtra Sugar Mills and Its Challenges	Dec. 2019, SVNIT, Surat
10.	Mr. C. K. Mukherjee	International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management (ICGTSTHCM-19)	An Overview of Business Ethics in CG and CSR.	December 28-30, 2019, SSBT'S College of Engineering and Technology, Bambhori, Jalgaon, India
11.	Mr. A. J. Puri	International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management (ICGTSTHCM-19)	Road Traffic Accident Scenario in India.	December 28-30, 2019, SSBT'S College of Engineering and Technology, Bambhori, Jalgaon, India
12.	Mr. Tejas G. Patil	International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management (ICGTSTHCM-19)	Industrial Automation in Food Industries	December 28-30, 2019, SSBT'S College of Engineering and Technology, Bambhori, Jalgaon, India

## ADD-ON COURSE



- Mr. M. V. Rawlani organized 5 days Add on Course on “**Aptitude Test**” for SE and TE students dated 19<sup>th</sup> Aug. to 23<sup>th</sup> Aug. 2019.



- Mr. P. M. Solanki organized 5 days Add on Course on “**Introduction to INVENTOR Software**” for BE students dated 4<sup>th</sup> Sep. to 9<sup>th</sup> Sep. 2019.

## ACTIVITIES BY MESA



Expert Lecture given by **Mr. Nitin Banait**, on  
**“Electrical Vehicles: Opportunities and Challenges”** for TE /BE students



Guest Lecture given by **Mr. Prasad Kharche**, SAP,  
 Consultant on **“Additive Manufacturing”** for TE  
 /BE students



Expert Lecture given by **Mr. Amol Gambhir**, President, ISHRAE, Aurangabad Sub-Chapter on  
**“One Degree Challenge”** for BE students on 15<sup>th</sup> Oct. 2019.

Sr. No.	Name of Activity/Event	TOPIC	Date	Participants
01	Guest Lecture by Mr. Prasad Kharche, MD, ASMI Engg. Soln. Pvt. Ltd., Franchisee of CAD Centre Jalgaon.	Additive Manufacturing	13 <sup>th</sup> Nov. 2019	T.E./B.E. Students
02	Expert Lecture by Mr. Nitin Banait, Khodiyar CAD Centre Pvt. Ltd., Pune, organized by SESI, student chapter.	Electrical Vehicles: Opportunities and Challenges	19 <sup>th</sup> Sep. 2019	T.E./B.E. Students
03	Expert Lecture by Dr. Gopal Sonawane.	Fulfillment of Dream with Health, Wealth, Family & Enjoyment	13 <sup>th</sup> Sep. 2019	T.E./B.E. Students

## INDUSTRIAL VISITS



- Industrial visit for BE students organized by Dr. P.G. Damle and Mr. P. M. Solanki at **“Nashik Engineering Cluster & Epiroc Mining India Ltd., Nashik”** on 4<sup>th</sup> and 5<sup>th</sup> Oct. 2019.



- Industrial Visit organized for BE students by Dr. P. P. Bornare and Mr. A. J. Puri at **“India Garage, Jalgaon & Kiran Machine Tools, Jalgaon”** on 11<sup>th</sup> Nov. 2019.

## EXTRA-CURRICULAR ACTIVITIES



- Inauguration of Indian Society of Heating, Refrigerating and Air-Conditioning Engineers (ISHRAE) - Student Chapter under title as “SSBT’s College of Engineering and Technology, Bambhori, Jalgaon – ISHRAE, Student Chapter on 4<sup>th</sup> and 5<sup>th</sup> Oct. 2019.



- Inauguration of “Solar Energy Society of India (SESI) - Student Chapter” on 19<sup>th</sup> Sep. 2019.

**LIST OF CLASS TOPPERS**

KBCNMU Dec- 2019

<b>SE-A</b>		
<b>Rank</b>	<b>Student Name</b>	<b>SGPA</b>
I	Patil Saurav Madhukar	7.39
II	Baviskar Rupesh Sanjay	6.9
III	Pandhare Vishal Sanjay	6.2

<b>SE-B</b>		
<b>Rank</b>	<b>Student Name</b>	<b>SGPA</b>
I	Pandit Avani Mahendra	8.5
II	Ghodke Saurav Sanjay	7.65
III	Sonawane Aakash Bhaiyasaheb	7.65

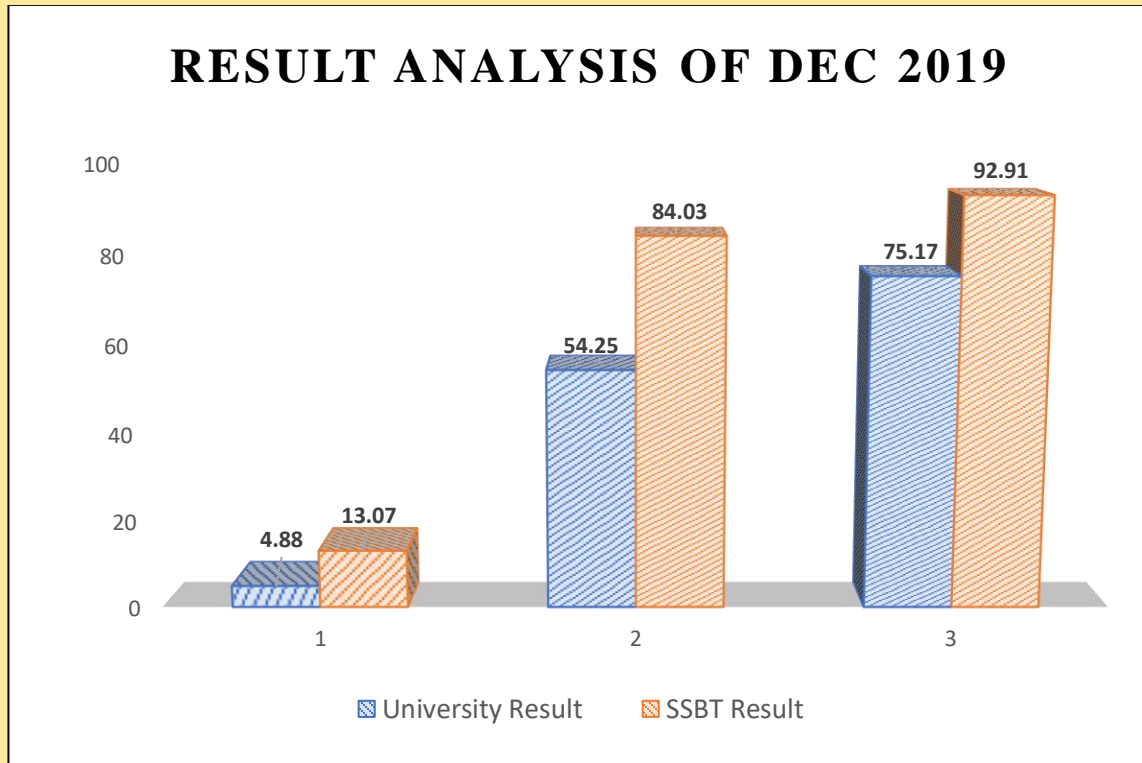
<b>TE-A</b>		
<b>Rank</b>	<b>Student Name</b>	<b>SGPA</b>
I	Parmar Manupratapsingh	8.86
II	Joshi Rohit Dinesh	8.67
III	Patil Ajay Anil	8.48

<b>TE-B</b>		
<b>Rank</b>	<b>Student Name</b>	<b>SGPA</b>
I	Dusane Apurva Shrikant	8.48
II	Khairnar Vina Krushna	8.38
III	Dhavale Pooja Vilas	8.29

<b>BE-A</b>		
<b>Rank</b>	<b>Student Name</b>	<b>SGPA</b>
I	Patil Asawari Harish	8.87
II	Thakar Anurag Anil	8.83
III	Patil Gauravkumar H.	8.7

<b>BE-B</b>		
<b>Rank</b>	<b>Student Name</b>	<b>SGPA</b>
I	Sutar Dhiraj Ashok	9.48
II	Bari Vaibhav Prakash	9.09
III	Patil Tejaswini Ganesh	9.09

**University v/s Department Result Analysis**  
**KBCNMU Dec 2019 Exam**  
**SE TE BE**



## PHOTO GALLERY



**Engineering Day Celebration**



**Teachers Day Celebration**



**Harshal Devare** (SE Mech) got 1<sup>st</sup> prize in speech competition and 2<sup>nd</sup> prize in Story telling in National level competition “**Abhivykti 2019**” at Government College of Engineering, Jalgaon.