

About News Letter

SSBT's COET, Department of Mechanical Engineering is proud to publish its NEWS LETTER 2021-22 (Vol. XX).

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

Er. N. K. Patil, HOD MED
Mr. D. C. Talele

Members:

Kulkarni Pooja Sharad (B.E.)
Dhakad Atharva sunil (T.E.)
Rane Mangesh Rahul (S.E.)

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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. G. K. Patnaik
Principal
SSBT's COET, Bambhori, Jalgaon



Dr. Sudhakar B. Pawar
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...



On behalf of Shram Sadhana Bombay Trust's College of Engineering & Technology, Bambhori, Jalgaon I heartily welcome you all!

Started in 1983 with scarce infrastructure, developing infrastructural support, particularly in rural area, has been a challenge. Since then the institute with its visionary governing body has transformed into a pleasant, conducive and eco-friendly environment that carry the flame of quality education, knowledge and progressive technology for global societal development.

During these four decades since inception, the institute has evolved to a green campus with consistent efforts and dedication. The campus with lush green lawn, trees with name, pollution free makes more joyful. Towards sustainable development the campus has renewable energy through solar plant, waste water recycling plant, rain water harvesting, garbage composting etc. These amenities make the campus ideal for lifelong learning. The institute has been accredited by various accreditation board/council and bagged several awards during these four decades.

The institute has the policy to create and enhance the infrastructure that facilitates effective teaching and learning. The institute with its huge built up, full greenery campus, ICT class rooms, well equipped laboratories, spacious library, gymnasium with advanced facilities, play grounds, open air theatre, furnished hostels, staff quarters, cafeteria, guest house, renewable energy sources, Internet access anytime – anywhere etc. reflects the vision of the institute.

Making students competent to face real world challenges for better career opportunities & self reliance necessitates quality education. For all-round development of students, moulding them academically, professionally and intellectually through value added and skill education are integral part of our quality education mandate.

Today, the institute is one of the most preferred for fresh aspiring engineering students. We are sure that the kind of infrastructure provided, well qualified & experienced faculty and enthusiastic students will continue to glow the flame even brighter.

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 “Outstanding IQAC Awards – 2021” in the category of Research Environment by Green Mentors, Ahmadabad.
- The institute is awarded “Engineering College of the Year for Academic Productivity” in 2020 by The Academic Insights, Bangalore.
- 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 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

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

FACULTY PROFILE

Sr. no.	Faculty Name	Designation	Email - Id
1	Dr. Sanjay P. Shekhawat	Professor	spshekhawat@rediff.com
2	Mr. Navneet K. Patil	Asso. Professor	navneetkpatil@gmail.com
3	Mr. Krishna S. Shrivastava	Asso. Professor	krishnashrivastava@yahoo.co.in
4	Mr. Mahesh V. Rawlani	Asso. Professor	meshu_sir@rediffmail.com
5	Dr. Prajitsen G. Damle	Asso. Professor	pgdamle2@yahoo.com
6	Mr. Devendra B. Sadaphale	Asst. Professor	devendra_sadaphale@rediffmail.com
7	Mr. Prashant N. Ulhe	Asst. Professor	prashantulhe@rediffmail.com
8	Dr. Pradeep M. Solanki	Asst. Professor	p_msolanki@rediffmail.com
9	Mr. Pravin D. Patil	Asst. Professor	pravinpatil100@rediffmail.com
10	Dr. Mahesh V. Kulkarni	Asst. Professor	mvkmvk@gmail.com
11	Mr. Ajay R. Bhardwaj	Asst. Professor	mailme_ajaybhardwaj09@rediffmail.com
12	Mr. Dipak C. Talele	Asst. Professor	taleledeepak190687@gmail.com
13	Dr. Prashant P. Bornare	Asst. Professor	ppbornare79@gmail.com
14	Mr. Chandan K. Mukherjee	Asst. Professor	ckm.jalgaon@gmail.com

Congratulations to Mr. P. M. Solanki for Completion of his Ph. D. On “Critical Ergonomics Analysis of Manufacturing Industries in the Context of Productivity Improvement”



<p>Congratulations to Mr. M.V. Kulkarni for Completion of his Ph. D. On “Critical Ergonomics Analysis of Manufacturing Industries in the Context of Productivity Improvement”</p>	
<p>Congratulations to Dr. P.G. Damle for his Patent of “Critical Ergonomics Analysis of Manufacturing Industries in the Context of Productivity Improvement”</p>	

FACULTY PARTICIPATION

Sr. No.	Name of Faculty	Training/STTP/Workshops	Duration	Venue
1	Mr. K. Shrivastava	Attained one-week Refresher program “IC Engine - The Future perspective” by SV Polytechnic College Bhopal	17-23 Feb-22	(Online Mode)
2.	Mr. Mahesh V. Rawlani	Participated & completed successfully, One Week Workshop on “Emerging Trends in Teaching and Learning Pedagogy” organized by REST Society for Research International (RSRI)	11 - 15 April 2022	(Online Mode)
3	Mr. Mahesh V. Rawlani	Participated & completed successfully, One Week Workshop on “Emerging Trends in Multi Criteria Decision Making” organized by REST Society for Research International (RSRI)	27 June - 22 July 2022	(Online Mode)
4	Dr. P.G. Damle	Attained faculty development program on “Sustainable Product Design & Manufacturing” by School of Mech Engineering, Mata Vaishno Devi University, J&K	10-14 Jan-22	(Online Mode)
5	Mr. C.K. Mukherjee	Attained 8 Week faculty development program on “Indian Economy – contemporary perspectives” by IIT Kanpur on NPTEL, exam score 91 %	Jan- March 2022	(Online Mode)
6	Mr. C.K. Mukherjee	Attained 8 Week faculty development program on “Behavioral & Personal Finance” by IIT Kharagpur on NPTEL, exam score 84%, Topper	Jan- March 2022	(Online Mode)
7	Mr. C.K. Mukherjee	Attained 8 Week faculty development program on “Financial Accounting” by IIT Mandi on NPTEL, exam score 83 %	Jan- April 2022	(Online Mode)

8	Mr. C.K. Mukherjee	Attained 12 Week faculty development program on “E - Business” by IIT Kharagpur on NPTEL, exam score 77 %	Jan- April 2022	(Online Mode)
9	Mr. C.K. Mukherjee	Attained 12 Week faculty development program on “Management of Inventory Systems” by IIT Kharagpur NPTEL, exam score 67 %	Jan- April 2022	(Online Mode)
10	Mr. C.K. Mukherjee	Attained 12 Week faculty development program on “Business Statistics” by IIT Roorkee on NPTEL, exam score 58 %	Jan- April 2022	(Online Mode)

FACULTY PUBLICATIONS

Sr. No.	Faculty Name	Papers in Conferences/ Journals	Title	Date and Venue
1.	Dr. S. P. Shekhawat	International Journal of Mechanical Engineering, vol.7, No.1, Jan. 2022, ISSN 0974-5823, pg. no.81-87 (UGC Care List/Scopus)	“Development of an IOT-based solar banana dryer monitoring and control system”	January 2022
2.	Dr. S. P. Shekhawat & Mr. D.B. Sadaphale	Advanced Engineering Forum Vol 43 ISSN NO :2234-991X, Pg. No. 59-71 (UGC Care List I)	Experimental investigation on slat gradient solar pond with additional non convective zone for improved thermal performance and stability	January 2022
3.	Dr. P. M. Solanki, Dr. P. G. Damle	GIS Science Journal Volume 9, Issue 5, pp 1789-1797 ISSN (Print) 2277-7261 (UGC Care list -II)	Fabrication of Pick and Place Arm Robot	May 2022
4	Dr. P. M. Solanki, Dr. P. G. Damle	GIS Science Journal Volume 9, Issue 5, pp 683-691 ISSN (Print) 2277-7261 (UGC Care list -II)	Optimization of Thermoelectric Generator System for its Performance Enhancement	May 2022
5	Dr. P. M. Solanki	GIS Science Journal Volume 9, Issue 5, pp 1217-1224 ISSN (Print) 2277-7261 (UGC Care list -II)	A review on Mecanum Wheel for Forklifting	May 2022
6	Dr. S. P. Shekhawat, Mr. Mahesh V. Kulkarni	Springer Proceedings in Energy book series	Optimization of Solar Hot Water Storage Tank Performance During Charging Process Using Buckingham’s Theorem	February 2022
7	Dr. P. P. Bornare, D. C. Talele,	International Journal of Innovative Research in Science, Engineering and Technology e-ISSN: 2319-8753, p-ISSN: 2320-6710 Page No. 6778 - 6783, Volume 11, Issue 5	Anatomization of Flourishing Indian Agricultural Marketing after Globalization	May 2022

Sr. No.	Faculty Name	Papers in Conferences/ Journals	Title	Date and Venue
8	Dr. P. P. Bornare, D. C. Talele,	International Journal of Innovative Research in Science, Engineering and Technology, e-ISSN: 2319-8753, p-ISSN: 2320-6710 www.ijirset.com, Page No. 6608 - 6612, Volume 11, Issue 5	Role of Marketing Agencies in Supply and Distribution of Perishable Fruits in Maharashtra State A Critical Review	May 2022

MESA Activities

Sr. No.	Title of Activity Conducted	Date	No. of Participants
1	Webinar on “The Constitution of India” by Mr. Ashish K. Patil (Online Mode)	26/10/2021	All S.E., T.E., B.E. Students of Mechanical Engineering Department
2	Webinar on “Career Opportunities in Piping Design Engineering and Construction”	13/04/2022	All S.E., T.E., B.E. Students of Mechanical Engineering Department
3	Professional Day	30/03/2022 To 01/04/2022	All S.E., T.E., B.E. Students of Mechanical Engineering Department
4	“April Cool” Tree Plantation organized by MESA near College canteen	01/04/2022	All S.E., T.E., B.E. Students & Faculty of Mechanical Engineering Department
5	Industry Visit to Manraj Motors Workshop, MIDC Jalgaon conducted by Mr. K. Srivastava	09/04/2022	42 students of TE
6	Group Day	11/04/2022	All S.E., T.E., B.E. Students of Mechanical Engineering Department
7	Traditional Day	12/04/2022	All S.E., T.E., B.E. Students of Mechanical Engineering Department
8	Tie/ Saree Day	13/04/2022	All S.E., T.E., B.E. Students of Mechanical Engineering Department
9	Farewell party 2k22 organized by MESA in Non-AC Seminar hall	30/04/2022	All S.E., T.E., B.E. Students & Faculty of Mechanical Engineering Department

10	<p>Training on “Casting & Black Smithy” organized by Mechanical Engineering Department. SSBT’s COET, Jalgaon.</p> <p>Resource persons were Mr. A.R. Bhardwaj, W/s Superintendent & Mr. D.M. Mahajan, Foundry & Smithy shop Instructor</p>	23-24 May 2022	3 faculty & 4 Workshop instructors
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Photo Gallery



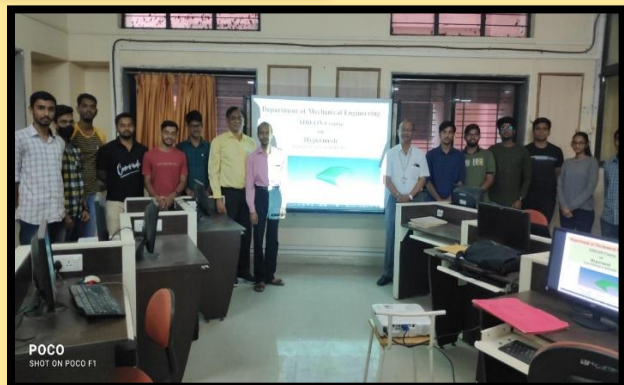
Farewell Party



“April Cool” Tree Plantation Programme



Professional Day



Add-on Course