



**SHRI GAJANAN SHIKSHAN SANSTHA'S**  
**SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING**  
**SHEGAON-444203(M.S.),INDIA**

**Department of Mechanical Engineering SSGMCE, Shegaon**  
**NEWSLETTER AUTUMN SEMESTER 2025-26**

### **ABOUT THE DEPARTMENT OF MECHANICAL ENGINEERING**

Department of mechanical engineering of SSGMCE Shegaon is one of the most reputed departments in terms of amenities & faculties. For the overall development of students department organizes various activities such as guest lectures, workshops, short term training programs and industrial visits. Also to have practical exposure department motivate students to participate in national, international and inter college events. To upgrade knowledge of faculties department has been working on industry institute interaction. All these activities are summarized in departmental news letter for every academic year.

### **VISION**

To develop quality mechanical engineers, researchers and entrepreneurs with commitment for excellence, learning enthusiasm, ethical behavior and serving the society.

### **MISSION**

- To impart fundamental knowledge of Mechanical Engineering to the students through the excellent learning experience and provide a platform for Higher Education.
- To offer Industry Institute Interface, interdisciplinary knowledge, and value-based education for the overall development of students.
- To enhance research, next-gen skills, and entrepreneurship abilities of the students to solve social problems.

### **PROGRAM EDUCATIONAL OBJECTIVES (PEOS)**

- Engage in creating, designing, manufacturing, analyzing, testing, and maintaining the systems of Mechanical Engineering and allied branches of engineering.
- Solve the problems of societal importance by applying fundamentals of mechanical engineering & pursuing higher education, research in the domain of Mechanical Engineering.
- Imbibe ethical values & skills for lifelong learning to work effectively as a part of a team member, leading a team in a multidisciplinary setup.



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**ACTIVITIES AT DEPARTMENT**

**GUEST LECTURE**

The Guest lecture has organized the session on “Readiness of Mechanical Engineers for Future Prospects and Challenges” dated 25/11/25. It has conducted for Second Year Students of our department by Mr. Sachin Kondejkar V.P (Cummins Emission Solutions) & Country Head (CTIPL). The number of students benefitted by this program are 43.

**ADD ON COURSES**



The hands on training of three dimensional and surface modeling software “Computer Aided Design using Solid Works” during 15<sup>th</sup> Dec. to 31<sup>st</sup> Dec. 2025. The program has organized for final year mechanical engineering students. The program have been conducted by the student representative of our department. Around 20 students were benefitted by mentioned program.

The add on program on three dimensional modeling software “Fusion 360<sup>0</sup>” for the students of mechanical engineering during 20<sup>th</sup> December to 1<sup>st</sup> January 2026 . The number of students benefitted from the program conducted by the executive student members of mechanical engineering are 12



The add on Course of Robotics and CO2 Welding has conducted for the students of final year mechanical engineering for the duration of one week. The program has conducted by the faculty members of mechanical engineering during 26<sup>th</sup> December 2025 to 3<sup>rd</sup> January 2026) The number of students benefitted are 20.



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### **FACULTY DEVELOPMENT PROGRAM (FDP)**

- Prof. M. B. Bhambere has attended the 12 week faculty development program on "Computational fluid dynamics NPTEL IIT Madras".
- Prof. N. B. Borkar has attended an STTP arranged by SVNIT Surat (online mode) on basics of tribology and its industrial engineering applications(BTIEA-2025) during August 18-22 ,2025.
- Dr. P. A. Dalke has attended the two week program on "Robotic Vision using ROS and Machine Learning" organized by MIT-ADT University, Pune during Oct 3-15 ,2025.
- Prof. K. R. Dudhe have attended the One Week International Faculty Development Program on Generative AI & Large Language Models (LLM) organized by iBase Electrosoft LLP in association with International Community of Artificial Intelligence UK, GenAInstein in collaboration with SSGMCE Shegaon on Nov 10-15,2025.
- Prof. S. Q. Syed have attended the five days Short term Training Programme (STTP) on "computer aided design using solidworks" department of Mechanical Engineering, SSGMCE, Shegaon and IFS academy, Pune during Nov 17-21,2025.
- Prof. G. S. Wahile has attended the one week Short term Training Programme (STTP) on "Recent Advancements in Artificial Intelligence for Thermal Systems and Energy Management" organized by Dr. D. Y. Patil Institute of Technology, Pimpri, Pune. During Dec 12-18 ,2025.

### **FACULTY PUBLICATION**

Research Publication activities of faculty members

- A research M. B. Bhambere have publish the research paper on "Experimental and numerical investigation of heat transfer enhancement using perforated fins in electric motor" in International communications in Heat and Mass Transfer on 166 (2025) 109115.
- Dr. S. P. Joshi have published the research paper on a hybrid approach to optimize engine performance and emission control in internal combustion engines using graphene quantum dots-enhanced biodiesel-diesel blends in the journal of Applied Thermal Engineering 276 (2025) 126841.
- Prof. G. S. Wahile has published the research paper on "Evaluation of photovoltaic thermal-based humidification-dehumidification desalination" in the journal of applied Thermal Engineering 285 (2026) 129277.



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**PROUD ACHIEVEMENT BY TEAM X-TREME**



The moments of immense pride and joy of Team X-Treme from SSGMCE Shegaon has secured remarkable success at the prestigious National Level Hindustan Formula Karting Championship (HFKC), held at IES University, Bhopal, from 01-04 October 2025.

**SPECIAL AWARDS AND RECOGNITION**



Second Runner-Up among all participating teams across the nation.

**Category-wise Awards**

- Winner – Design and CAE
- Winner – Time Trial
- Winner – Endurance and Winner – Drag Test
- Runner-Up – Acceleration and Runner-Up – Skid Pad

This outstanding performance is a testament to the team's unwavering dedication, technical excellence, and collaborative spirit in innovation.

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Chief Editor	: Prof. N. B. Borkar , Asst. Prof. Department of Mechanical Engineering
Editor	: Mr. Suyash Pimple, Final Year, B.E. Mechanical Engineering.