



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

An Autonomous Institute Affiliated with
Savitribai Phule Pune University

Accredited by NAAC with "A+" Grade | NBA - 7 UG Programmes



Department of Engineering Sciences and Humanities NEWSLETTER

From Principal's Desk:

I am pleased to announce that as we enter 2025-26 academic year, AISSMS College of Engineering celebrates more than 30 remarkable years since its establishment. Over these years, AISSMS COE has consistently demonstrated academic excellence, producing University gold medalists and top-ranking students across various engineering academic year is the first year of autonomy. Our faculty members are deeply engaged in research and development, and the college boasts an array of advanced analytical, computational, and experimental facilities readily available to our students.

Our teaching program emphasizes a practical approach, reinforced through strong industry-institute collaboration. The college regularly hosts a variety of events, including symposia, workshops, conferences, and the national-level students' symposium and exposition, 'AISSMS Engineering Today.' We also celebrate cultural events like Shivanjali and organize the intercollegiate event Ashwamedh, all of which have been met with great success. Additionally, our students are highly active in sports, cultural activities, and technical teams under the Society of Automotive Engineers (SAE). They also contribute to social causes through the National Service Scheme, which organizes an annual blood donation camp. Furthermore, our college magazine committee, continues to showcase the finest and most creative ideas of our students.

I am confident that AISSMS College of Engineering is well-equipped to provide students with the best theoretical and practical training, preparing them to be the top talent in the industry. I extend my best wishes to aspiring students, parents, employers, and all other stakeholders in achieving their goals.



Shri Shahu Chhatrapati Maharaj
President, AISSM Society



Dr D S Bormane
Principal, AISSMS COE

Editorial Board Members

Chirag Vakharia & Ayush Borude
(Student Co-ordinator)

Ms. B S Bobdey
Co-ordinator

Dr B D Bachchhav
Head, DESH

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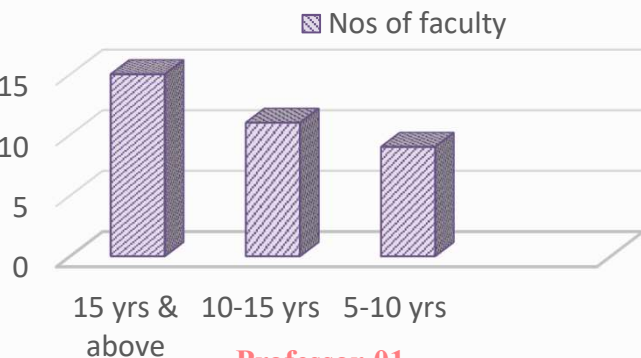
From HOD's Desk

First Year Engineering plays a pivotal role in ushering the students to be a prospective engineer. The department nurtures and molds the students to enter in the rapid fast changing pragmatic world yet maintaining the sensitivity in them. The teaching-learning methodology

Dr B D Bachchhav
HOD DESH
AISSMS COE

used by staff boosts the students thinking potential and lifts their critical analyzing skills. As most of the students come from the diversified social environment it becomes a need for the department that they are mentored by the staff with whom they can share their thoughts, expectations, express themselves and would feel comfortable away from home. We as the department is the family of 40 faculty and 6 supporting staff for 14 divisions each with 60+ students. The department has a well qualified and experienced staff that is always on their toes. The faculties have excellent academic records and are highly regarded amongst students. The various subjects offered to students in First Year, though common to all branches, essentially lays a strong foundation to emerge as a potential engineer. Hence, our self-motivated staff wholly dedicated to the first year department, do their best and try to make the subjects simple and interesting

FACULTY EXPERIENCE



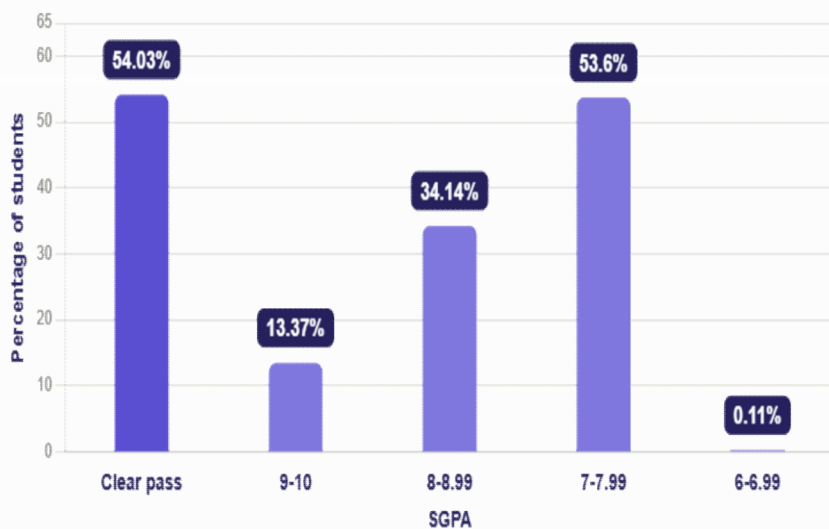
Professor-01

Associate Professors – 04

Assistant Professors – 35

Supporting Staff – 06

Result FY B.Tech SEM I AY 25-26



Department of Engineering Sciences and Humanities



Form Editors Desk....

It gives us great pleasure to hand over to you “Chronical” the newsletter of First Year engineering department. The Department of First Year Engineering has a total intake of 660 students. The present era and the challenging future, demands strong basic technical knowledge and continuous growth of engineering students on all facets. Therefore the department is bestowed with highly qualified and experienced faculty members with specialization in various disciplines of engineering and sciences. Also the behavioral changes found in the today's youngsters give rise to the need of continuous assistance and counseling for their professional and personal growth. First year department considers all the needs and requirements of the current generation and gives its best for their overall development. Hope you will find this newsletter informative.

Vision

- Impart students with pre-requisites of technical know how's to expedite as an emerging engineers

Mission

- Embed crucial thinking and analytical reasoning ability required by respective disciplines
- Cultivate students to deal with stress and anxiety imposed by academics and social milieu
- Nurture students to emulate and inculcate the judicious nature demanded by the multifaceted world

FDP/STTP Attended

Sr No.	Name of Faculty	Title of the FDP/STTP	Organized by	Duration/ Dates
1	Dr M K Nikam	Unlock The Power of AI in Education and Research	Pimpri Chinchwad University, Sate, Pune.	14/07/2025 to 25/07/2025
		Research Writing & Publication in Scopus Indexed Journals: A practical Approach	Ajeenkya D.Y.Patil School of Engineering, lohegaon, pune	14/07/2025 to 18/07/2025
		Vedic Mathematics- Techniques & Applications	A.C.T Academy	04/08/2025 to 14/08/2025
		Empowering Educators as authors and Content creators	PCCOE	23/06/2025 to 28/06/2025
		R-Programming	CSSR & SRRM Degree College	18/08/2025 to 25/08/2025

FDP/STTP Attended

Sr No	Name of Faculty	Title of the FDP/STTP	Organized by	Duration/ Dates
2	Dr. P. D. Baviskar	Unlock The Power of AI in Education and Research	First Year School of Engineering & Technology, Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025
		Using AI to match your abstract to the right journal	Elsevier Researcher Academy Elsevier B.V. Radarweg 29 1043 NX Amsterdam	18/12/2025
3	S.B.Patil	Research Writing & Publication in Scopus Indexed Journals: A practical Approach	Ajeenkya D.Y.Patil School of Engineering, lohegaon, pune	14/07/2025 to 18/07/2025
4	Bhakti Patil	Unlock The Power of AI in Education and Research	First Year School of Engineering & Technology, Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025
		AI-ML in Healthcare and Medical Informatics	Dr. D Y Patil Institute of Technology , Pimpri	16/06/2025 to 20/06/2025
5	Ankita Gupta	Unlock The Power of AI in Education and Research	First Year School of Engineering & Technology, Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025
		AI-ML in Healthcare and Medical Informatics	Dr. D Y Patil Institute of Technology , Pimpri	16/06/2025 to 20/06/2025
6	M. A. D'Cruz	Making Learning Engaging through Interactive Games	NPTEL	Jul-Aug 25
		Unlock The Power of AI in Education and Research	First Year School of Engineering & Technology, Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025
7	S A Kothari	Unlock The Power of AI in Education and Research	First Year School of Engineering & Technology, Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025
8	Mr. Gade S T	Unlock The Power of AI in Education and Research	First Year School of Engineering & Technology, Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025

FDP/STTP Attended

Sr nos	Name of Faculty	Title of the FDP/STTP	Organized by	Duration/ Dates
9	Dr.S.S.Modhave	Data Analytics Using Power BI	EXCELR	28/07/2025 to 01/08/2025
		Augmented Reality / Virtual Reality (AR/VR)	EXCELR	25/08/2025 to 31/08/2025
		AI applications in Chemistry for Research and Development	Shaban Degree college for women, Hydrabad	28/11/2025 to 03/12/2025
		Fitech for Financial Inclusion Using Artificial Intelligence	A.C.T. Academy	07/07/2025 to 11/07/2025
		Unlock The Power of AI in Education and Research	PCU, Pune	14/07/2025 to 25/07/2025
		Research writing and publication in Scopus	DY Patil school of Engineering	14/07/2025 to 18/07/2025
10	K G Choudhari	Unlock The Power of AI in Education and Research	First Year School of Engineering & Technology, Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025
		Research Writing and Publication in Scopus Indexed Journal	Ajeenkya D Y Patil School of Engineering	14/07/2025 to 18/07/2025
11	S G Wani	Research Writing & Publication in Scopus Indexed Journals: A practical Approach	Ajeenkya D.Y.Patil School of Engineering, lohegaon, pune	14/07/2025 to 18/07/2025
		Unlock The Power of AI in Education and Research	First Year School of Engineering & Technology, Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025
12	R.M.Deshmukh	Unlock The Power of AI in Education and Research	Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025
		Research Writing and Publication in Scopus Indexed Journal	Ajeenkya D Y Patil School of Engineering	14/7/2025 to 18/7/2025
		Next Generation Research on Energy Material	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College	04/08/2025 to 09/08/2025.

FDP/STTP Attended

Sr No.	Name of Faculty	Title of the FDP/STTP	Organized by	Duration/ Dates
13	B S Suryavanshi	Electric Vehicle Systems and Control	National Institute of technical Teachers Training and Research Chennai	16/06/2025 to 20/06/2025
		NEP 2020 Orientation & Sensitization Programme	Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by IIT Kharagapur	18/06/2025 to 27/06/2025
		Faculty of Science and Technology JSPM University Wagholi Pune	Machine Minds Middleware:Exploring IOTand IIOT for the smart world of Tomorrow	24/06/2025 to 28/06/2025
14	Mr.S.T.Surase	Unlock The Power of AI in Education and Research	Pimpri Chinchwad University, Sate, Maval, Pune.	14/07/2025 to 25/07/2025
		Research Writing & Publication in Scopus Indexed Journals: A practical Approach	Ajeenkya D.Y.Patil School of Engineering, lohegaon, pune	14/07/2025 to 18/07/2025
		Vedic Mathematics- Techniques & Applications	A.C.T Academy	04/08/2025 to 14/08/2025
15	Mr V Y Sonawane	Advances in Engineering and Technology	Mechanical Engineering, VACOE, Ahilyanagar,	10/02/2025 to 14/02/2025.
		Adversarial Attacks and Defences in Deep Learning Models O P Jindal University December 15_19_2025	IEE and O P Jindal University	15/12/2025 to 19/12/2025
16	Almas Ambreen	FDP on applications of computational techniques in process and manufacturing industries	D Y Patil international University Pune	15/12/2025 to 19/12/2025
17	Ujwala Wanaskar	Generative AI for Scientific Research,Data Augmentation and Interdisciplinary Applications	D.Y. Patil International University, Akurdi, Pune	25/11/2025 to 29/11/2025
		AI in cyber security	MMCOE,karvenagar	01/12/2025 to 05/12/2025

Paper Published/ Paper Presented

Sr. No	Authors	Document Details	Year	Source Details	ISBN/ ISSN	Publisher
1	Dr. P. D. Baviskar	Comparative Analysis of Adsorption of Acetic Acid by Banana Pseudostem and Commercial Wood Charcoal	May 2025	DOI: https://dx.doi.org/10.21275/SR25520174900	ISSN: 2319-7064	International Journal of Science and Research (IJSR) ISSN: 2319-7064 Impact Factor 2024: 7.101
2	S G Wani	Nutritional and Biological Analysis of Nutrient-dense Banana Sap Water	July 2025	https://dx.doi.org/10.5281/zenodo.16595109	ISSN: [2454-1850]	International Journal of Environmental & Agriculture Research (IJOEAR)
3	Dr B D Bachchhav	Effect of MoS ₂ nano-additive size and concentration on the wear performance of crude Jatropha-based bio-lubricant	August 2025	DOI 10.1108/WJE-05-2025-0375]	ISSN 1708-5284	World Journal of Engineering
		Multiphysics Analysis of Weld Defects and Thermal Contact Resistance in H-Fin Tube	Nov. 2025	DOI: 10.22075/jhmtr.2025.38895.1822	ISSN 2283-3068	Journal of Heat and Mass Transfer
4	Dr. S.S. Modhave	Synthesis, Characterization, and Photocatalytic Application of Nickel Ferrite (NiFe ₂ O ₄)	Dec.2025		ISSN:2998-4459	Royal International Global Journal of Advance and Applied Research
		Improving The Effectiveness and Efficiency of Technical Debt Management Automation	July 2025		ISSN 0971-3034	Indian Journal of Technical Education

Paper Published/ Paper Presented

Sr. No	Authors	Document Details	Year	Source Details	ISBN/ ISSN	Publisher
7	Bhakti Patil	AI Powered Interview Feedback Generator: A Multimodal Interview Preparation Platform	Nov 2025	DOI:18.15001/JOT.2025/V13I11.25.17861	ISSN: 101234 07	Journal of Technology
8	Dr. Tanaji M Nimbalkar	Impact of various aqueous electrolytes on the electrochemical performance of Zinc-doped nanowires as δ -MnO ₂ electrode material for supercapacitor device applications	Sept 2025	doi.org/10.1016/j.jallcom.2025.184116	ISSN:1 873-4669	Journal of Alloys and Compounds
9	Dr B D Bachchhav	Artificial Neural Network Modelling and Intelligent Optimization for H-type Fin-Tube Projection welding system	22-23 August 2025	4 th International Conference on Innovations in Mechanical and Civil Engineering,		
		Performance Evaluation of MoS ₂ enhanced Jatropa Oil as a sustainable cutting fluids in CNC turning	22-23 August 2025	4 th International Conference on Innovations in Mechanical and Civil Engineering,		
		Grade Classification of Non-edible Vegetable Oil Base Stocks Using WASPAS and COPRAS Multi-Criteria Decision-Making Methods	29-30 December 2025	Engineering Advances 2025: Second International Conference	ISBN: 978-81-973116 -6-6	
		Effect of MoS ₂ Nano-additives on Oil Film Strength of Jatropa Oil under Boundary Lubrication	29-30 December 2025	Engineering Advances 2025: Second International Conference	ISBN: 978-81-973116 -6-6	
10	Ujwala Wanaskar	5th International Conference on Artificial Intelligence and Advanced Information Architecture	20-22 August 2025	International 3 days conference hybrid mode		

Paper Published/ Paper Presented

Sr. No	Authors	Document Details	Year	Source Details	ISBN/ ISSN
11	Dr.B.D Bachchhav	Grade Classification of Non-edible Vegetable Oil Base Stocks Using WASPAS and COPRAS Multi-Criteria Decision-Making Methods	29-30 December 2025	Engineering Advances 2025: Second International Conference	ISBN: 978-81-973116-6-6
		Effect of MoS2 Nano-additives on Oil Film Strength of Jatropha Oil under Boundary Lubrication	29-30 December 2025	Engineering Advances 2025: Second International Conference	ISBN: 978-81-973116-6-6
		Sustainable Manufacturing of Compact H-Type Fin Heat Exchangers Using CuCrZr Electrodes in Resistance Welding	29-30 December 2025	Engineering Advances 2025: Second International Conference	ISBN: 978-81-973116-6-6
12	Mrs.B.S Suryavanshi	Enhanced Reactive Power Control in STATCOM using Advanced PWM	07-08 November 2025	International Conference on Future Technology Sponsored by IEEE Maharashtra Section	
13	Ms.K.G Choudhari	Enhanced Reactive Power Control in STATCOM using Advanced PWM	07-08 November 2025	International Conference on Future Technology Sponsored by IEEE Maharashtra Section	
14	Ms .S.B.Patil	Integrating SAFe Agile, Scrum, and Artificial Intelligence for Adaptive Building Construction Management	29-30 November 2025	Two Day International Multidisciplinary Conference (Hybrid Mode)	

Event 1 - Inaugural ceremony of Induction Program

AISSMS College of Engineering conducted a two-week Induction Program for newly admitted First-Year Engineering students from 08th September 2025 through 13th September 2025, following the AICTE guidelines. The Centralized Induction Program was held on September 08, 2025 at Nehru Memorial Hall welcomed first-year engineering students into the esteemed AISSMS Family. The event was graced in the presence of the Chief Guest, Mr. G D Yadav, Padma Shri awardee (2016), Emeritus Professor of Eminence and J.C. Bose National Fellow at ICT, Dr. D. S. Bormane, Principal AISSMS COE, and Dr. B. D. Bachchhav, Head Department of Engineering sciences and Humanities, all Dean, Heads of all departments, Dr. N. N. Shejwal (NSS In-charge), Dr. Manisha Kondhare (Sports Director, AISSMSCOE), Parents, and Students and staff made up the large audience.



Event 2 - Induction Program



The two-week Induction Program for First-Year Engineering Students at AISSMS College of Engineering took place from September 8th to September 13th, 2025. This program was organized following AICTE's directives, with the primary goal of providing students with a smooth transition into their new environment and fostering their overall development. The activities conducted during the sessions of this induction program are listed below

- Yoga and sports
- Universal Human Value
- Motivational Talk
- Health care
- Soft skill
- Industrial Scenario
- Green Energy
- Career Guidance
- Computer Competence
- CPR and First Aid
- Triz

Event 3 - AMRITAM GAMAY

The Department of Civil Engineering and the Department of Engineering Sciences & Humanities, AISSMS College of Engineering, Pune, successfully organized an enlightening talk titled “अमृतं गमय (अमरता की ओर)” on 24th November 2025 at CITP Hall, AISSMS COE. The program was conducted with the objective of inspiring young minds by integrating spiritual wisdom, ethical values, and social responsibility with professional education. The event saw enthusiastic participation from students, faculty, and representatives of Omkarnath Mission, and was appreciated for its relevance and inspirational content



Event 4 - SEMINAR ON MENSTRUAL HEALTH

A menstrual health awareness seminar was recently conducted by the Department of Engineering Sciences & Humanities (DESH) on 28.11.2025 at the college to educate students about hygiene, health, and the social importance of open conversations on menstruation. The session witnessed active participation from more than 120 students, who attended with curiosity and enthusiasm. The seminar aimed to dispel myths, promote scientific understanding, and encourage healthy practices among young women, fostering confidence and awareness in a supportive environment. The seminar was informative and empowering, emphasizing awareness, self-care, and the need to break menstrual taboos. Such initiatives help create a healthier and more inclusive campus environment.



Event 5 - Educational Outreach Activity

The Department of Engineering Sciences & Humanities (DESH), AISSMS College of Engineering, Pune, organized an Educational Outreach Activity titled “How to Use Scientific Calculator” in collaboration with Casio India on 5th December 2025 . The program was conducted to help students and faculty understand the proper and effective use of scientific calculators in engineering education, with a focus on essential functions, practical applications, and time-saving techniques for solving complex problems accurately. Such activities are very helpful for first-year students and should be conducted regularly, as they strengthen fundamental problem-solving skills, improve calculation accuracy, and build confidence in handling complex engineering computations.

Resource Person: Akhilesh Dubey and Parth Goel

Activity Coordinator: Mr S T Surase



Event 6 - Industrial Visit



Engineering students visited Pimpri Chinchwad Science Park, Pune, for an educational excursion that combined learning with recreation. The park's interactive exhibits on levers, pulleys, gears, and energy systems helped students connect classroom theory with real-world engineering applications. Students from the following branches were present for the visit:

- Robotics & Automation
- Civil Engineering
- Mechanical Engineering
- Chemical Engineering

Overall, the visit enhanced practical understanding, encouraged teamwork, and reinforced the value of experiential learning. Such trips help bridge the gap between theoretical knowledge and practical application in engineering education.

