



# STRUCTURAL NEWSLETTER

Sanjivani Rural Education Society's  
Sanjivani College of Engineering, Kopergaon - 423603  
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)  
NAAC 'A' Grade accredited, ISO 9001:2005 Certified

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Volume 4

2023-24



site : [www.sanjivanicoe.org.in](http://www.sanjivanicoe.org.in)

DEPARTMENT OF STRUCTURAL ENGINEERING

## **Editorial Board Members**

Dr. A. S. Sayyad  
Dr. N. S. Naik  
Dr. S. M. Gunjal  
Dr. Ms. B. M. Shinde  
Prof. Ms. H.N. Wagh  
Prof. S. S. Kolapkar  
Prof. Ms. A. S. Jape  
Prof. S.B. Gayake  
Prof. Hrushikesh N. Kedar  
Dr. V. Vignesh

## **Vision of the Institute:**

- ❖ To develop world class professionals through quality education.

## **Mission of the Institute:**

- ❖ To create Academic Excellence in the field of Engineering and Management through Education, Training and Research to improve quality of life of people.

## **Vision of the Department**

- ❖ To achieve national and international recognition in structural engineering education.

## **Mission of the Department**

- ❖ To maintain healthy environment which encourage our students and faculty to achieve their best education and research.
- ❖ To nurture students as problem solvers who develop innovative solutions for engineering problems.
- ❖ To create technocrats in structural engineering profession.
- ❖ To create engineers who possess the knowledge and skills for future challenges and lifelong learning.

## **Sanjivani College of Engineering,**

### **Kopergaon**

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

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# **Structural Engineering Newsletter Volume 4 September**



# **2024**

### HOD's desk



The Sanjivani College of Engineering, Kopergaon, established by the Sanjivani Rural Education Society (SRES) in 1983, has been a pioneer in delivering quality education to Maharashtra's rural regions. Responding to the rising demand for skilled structural engineers, the institution launched its B.Tech. and M.Tech. programs in Structural Engineering in the 2020-2021 academic year. We are proud to announce that our first batch of B.Tech. students achieved an outstanding 100% placement rate in well-reputed companies and multinational corporations, reflecting the quality of education and dedication of our faculty.

Beyond B.Tech. and M.Tech. programs, the Structural Engineering Department actively engages in research and consulting, contributing real-world solutions to the field. Our team of highly qualified faculty leads a well-rounded academic and extracurricular experience for students. Over the past four years, the department has achieved numerous milestones, including recognition as a lifelong member of the Indian Society of Structural Engineers, underscoring our commitment to excellence and growth.

This achievement supports our mission to bridge the gap between academia and industry, equipping students with skills to excel and contribute meaningfully to society. With a solid foundation in theory and practical application, our graduates are prepared to lead and innovate in the structural engineering industry both nationally and globally.

1.	<b>Dr. A. S. Sayyad</b> (Professor & Head) Ph.D., 18 Yrs. Experience
2.	<b>Dr. N. S. Naik</b> (Associate Professor) Ph.D., 28 Yrs. Experience
3.	<b>Dr. S. M. Gunjal</b> (Asst. Prof.) Ph.D., 14 Yrs. Experience
4.	<b>Dr. B. M. Shinde</b> (Asst. Prof.) Ph.D., 14 Yrs. Experience
5.	<b>Prof. H.N. Wagh</b> (Asst. Prof.) M.E., 10 Yrs. Experience
6.	<b>Prof. S. S. Kolapkar</b> (Asst. Prof.) M.E., 09 Yrs. Experience
7.	<b>Prof. A. S. Jape</b> (Asst. Prof.) M.E., 09 Yrs. Experience
8.	<b>Prof. S.B. Gayake</b> (Asst. Prof.) M.E., 11 Yrs. Experience
9.	<b>Prof. H. N. Kedar</b> (Asst. Prof.) M.Tech., 02 Yrs Experience
10.	<b>Dr. V. Vignesh</b> (Asst. Prof.) Ph.D., 02 Yrs Experience
11.	<b>Prof. Rajani Vyavhare</b> (Asst. Prof.) M.E., 01 Yrs. Experience
12.	<b>Prof. M. R. Shaikh</b> (Asst. Prof.) M.E., 01 Yrs Experience

### Laboratories

The department currently possesses fully furnished laboratories including the Engineering Mechanics Lab, Material Testing Lab, Structural Analysis & Design Lab, Structural Audit & Health Monitoring Lab, Computers & Structures Lab, Students Innovations Lab, and Auto-CAD Lab, among others.



### Admission (2023-24)

Class	Intake	Admitted Count
FY B.Tech	69	69
FY M.Tech	18	14

## Best Teacher Award (Professional Course)

We are elated to share that **Dr. A. S. Sayyad**, Head of the Department of Structural Engineering at Sanjivani College of Engineering, has been awarded the esteemed "**Best Teacher Award (Professional Course)**" for the academic year 2023-2024 by Savitribai Phule Pune University, Pune. This prestigious honor recognizes Dr. Sayyad's exceptional contributions to education, dedication to academic excellence, and significant impact on students' professional growth in the rural education sector.

**Congratulations, Dr. A. S. Sayyad, on this well-deserved achievement!**



## Promising Engineer Award

We are thrilled to announce that Prof. Sudhir Bhaskarrao Gayake has been honored with the prestigious "Promising Engineer Award"!

This award recognizes his remarkable performance and outstanding achievements in the engineering field. The award was presented at Ahmednagar on September 18, 2023, as part of the 56th Engineers' Day celebrations organized by The Institution of Engineers (India).



## Overall Class Toppers (2023-24)



**Bawake Pratiksha Shivaji**  
S.Y. B.Tech  
CGPA - 9.1



**Abhang Kanchan Rajendra**  
T.Y. B.Tech  
CGPA - 9.6



**Sonawane Tejal Vishwas**  
B.Tech  
CGPA - 9.39

### Students Shine in Various Events

Sr. No.	Name of Student	Name of Event	Organized by	National/International	Date	Remark
1.	Sakshi Anil Deshmukh	Shakti the Beginning-Debate Competition	Sanjivani Group of Institutes , Sanjivani Women Empowerment Cell, Kopargaon	Institute	-	Winner
2.	Penshanwar Darshan	Maharashtra State Inter District Senior Volleyball Championship	Maharashtra Volleyball Association	State	01/02/24 to 04/02/24	Second Position
3.	Londhe Abhijit	VARCHASVA 2k24	Student Activities Council, Sanjivani College of Engineering, Kopargaon	-	-	Runner Up
4.	Sonawane Om	VARCHASVA 2k24	Student Activities Council, Sanjivani College of Engineering, Kopargaon	-	-	Runner Up
5.	i. Sadnya Vishwasrao ii. Sanap Madhuri iii. Qureshi Shahid iv. Deshmukh Dhairyashil	IDEATHON-2024	Entrepreneurship Development Cell-Sanjivani College of Engineering	Institute	21/03/24	Second Runner Up

## Students Journal Publications

Name of the Authors	Title of the Work	Journal/Proceeding Name	Publisher	DOI	Indexed in
Rushikesh Aware, Gauri Repale, Pankaj Thakare, Prerana Sangale, H. N. Kedar	Optimizing industrial waste in road construction: a response surface methodology approach	Journal of Building Pathology and Rehabilitation	Springer	<a href="https://doi.org/10.1007/s41024-024-00419-1">https://doi.org/10.1007/s41024-024-00419-1</a>	Scopus
Pradosh P. Deshpande, Anuja S. Jape	Stress analysis of functionally graded nanobeams using hyperbolic theory	Materials Today: Proceedings	Elsevier	<a href="https://doi.org/10.1016/j.matpr.2023.06.218">https://doi.org/10.1016/j.matpr.2023.06.218</a>	Scopus/Conference Proceeding
Om Talekar	Experimental study on hollow interlocking FaL-G bricks	Materials Today: Proceedings	Elsevier	<a href="https://doi.org/10.1016/j.matpr.2023.06.452">https://doi.org/10.1016/j.matpr.2023.06.452</a>	Scopus/Conference Proceeding

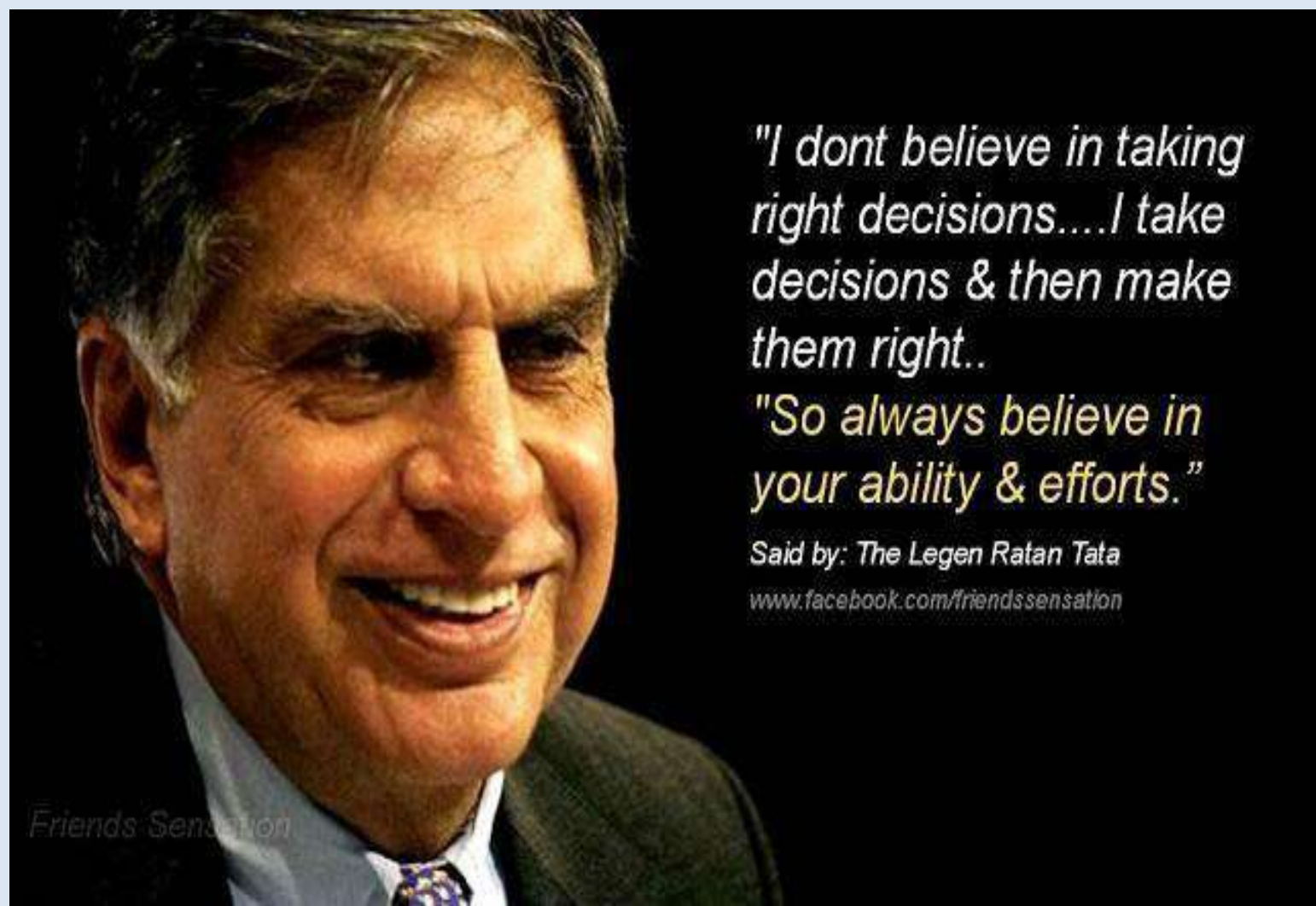
## Books/Book Chapter

S. No.	Name of the authors	Book title	Chapter title	ISBN Number	Publication House
1	<u>Arti A. Wagh, Rau N. Dohale, Komal N. Shinde, Dinesh M. Pandhure &amp; Abhay A. Bhagat, Sagar D. Turkane</u>	<u>Best Practices in Geotechnical and Pavement Engineering</u>		978-981-99-8505-0	Springer, Singapore
2	Vedant N. Nawale, Rutuja A. Girme, Tejal V. Sonawane, Shubham A. Wagh & Atteshamuddin S. Sayyad	<u>Best Practices in Geotechnical and Pavement Engineering</u>	Experimental Investigation on Cold Mix for Road Construction Using Granite Aggregates and Rubber Waste	978-981-99-8505-0	Springer, Singapore
3	Snehal V. Waghchaure, Priyanka A. Rakshe, Rutika S. Jadhav, Rutuja A. Gavhane & Bharti M. Shinde	<u>Best Practices in Geotechnical and Pavement Engineering</u>	Utilization of Construction and Demolition Waste Material in Low Volume Road Construction: Experimental Study	978-981-99-8505-0	Springer, Singapore
4	Shaikh, S.S., Wani, Y.A., Sonawane, S.S., Pagar, A.P., Gunjal, S.M.	Recent Advances in Structural Engineering	Use of Coconut Coir Fibre in Limestone Calcined Clay Cement (LC3) Concrete	978-981-99-9502-8	Springer, Singapore

## Students Patents

S.No	Name of the Authors	Title of the patent	Status	Design No.
1	1. Deshpande Pradosh Prakash 2. Jape Anuja Sanjay 3. Gayake Sudhir Bhaskarrao	Tee shaped shear connector	Granted	348879-001
2	1. Sanjivani College of Engineering 2. Sayali Rajendra Kadam 3. Nitin Shankarrao Naik	Study of Projectile Motion Apparatus	Granted	358600-001
3	1. Pawan Rajendra Khodke 2. Divya Ravindra Kshirsagar 3. Sachin Madhavrao Gunjal 4. Sudhir Bhaskarrao Gayake	Column Plaster Carving Trowel	Granted	387330-001
4	1. Sanjivani College Of Engineering, Kopargaon 2. Nilesh Chandrakant Kharat 3. Gunjal Sachin Madhavrao	FLOWER PETAL DINNING TABLE	Granted	358605-001
5	1. Sanjivani College Of Engineering, Kopargaon 2. Mr. Harshal Raosaheb Auti 3. Shinde Bharti Machhindra	STIRRUP MAKING APPARATUS	Granted	358602-001
6	1. Sanjivani College Of Engineering, Kopargaon 2. Ajay Shrikant Randhav 3. Sachin Madhavrao Gunjal	SLIDING WINDOW	Granted	358601-001
7	1. Sanjivani College Of Engineering, Kopargaon 2. Prajakta Rajendra Girme 3. Sumit Saidas Kolapkar	CORNER TROWEL	Granted	358606-001
8.	1. Department Of Structural Engineering, Sanjivani College Of Engineering, Kopargaon 2. Priyanka B. Rokade 3. Sudhir Bhaskarrao Gayake	SLUMP MEASUREMENT ROD	Granted	403514-001
9.	Sanjivani College of Engineering Rutuja Gavhane Rutika Jadhav Nikita Kank Nitin Shankarrao Naik	UTENSIL FOR DOG FEEDING	Granted	384176-001
10	Sanjivani College of Engineering Shubham Anil Wagh Vedant Navnath Nawale Krishna Vitthal Tuwar Nitin Shankarrao Naik	Multipurpose Table cum Ladder	Granted	384196-001
11	Sanjivani College of Engineering Saniya Shaikh Yukta Wani Sakshi Sonawane Nitin Shankarrao Naik	Multipurpose Table Top	Granted	384713-001
12	Sanjivani college of Engineering Anand Ambore Nitin Shankarrao Naik	Foldable Shuttering	Granted	384170-001
13	Sanjivani college of Engineering Om Ramnath Talekar Nitin Shankarrao Naik	Bar Holding Clips	Granted	358609-001
14	Sanjivani college of Engineering Om Ramnath Talekar Nitin Shankarrao Naik	PRECAST INTERLOCKING BRICK	Granted	358608-001

S.No	Name of the Authors	Title of the patent	Status	Design No.
15	1.Department Of Structural Engineering, Sanjivani College Of Engineering, Kopargaon 2. Ashvini Sainath Damale 3.Ujjwala Lakshman Khairnar 4.Amey Sandeep Naik 5.Anuja Sanjay Jape 6.Sudhir Bhaskarrao gayake	SLIDING GRILL BAR WINDOW	Granted	406155- 001
16.	1.Sanjivani College Of Engineering, Kopargaon 2. Ghumare Shanatarm manohar 3.Atteshamudin Shamshuddin Sayyad 4. Patankar Subhash Vasantaro	BRICKS WITH 'V'GROOVE	Granted	365042- 001
17	1.Sanjivani Collage Of Engineering, Kopargaon 2. Shegokar Satyam Vijaykumar 3.Gunjel Sachin Madhavrao 4.Atteshamuddin Shamshuddin Sayyad	PEN HOLDER IN DRAWER	Granted	384180- 001
18	1.Sanjivani College Of Engineering, Kopargaon 2. Gaurav Dnyandeo Game 3.Bharti Machhindra Shinde	BLOCK LEVELLER	Granted	358607- 001
19	1.Sanjivani College Of Engineering, Kopargaon 2. Om Ramnath Talekar 3.Naik Nitin Shankarrao	INTERLOCKING BLOCK MOULD	Granted	358610- 001



Success is not final, failure is not fatal: It is the courage to continue that counts." –  
Winston Churchill



# Faculty Journal Publication

S.No	Name of the Authors	Title of the Work	Journal/Proceeding Name	Publisher	DOI	Indexed in
1	<b>Hrushikesh N. Kedar,</b> Rushikesh Aware, Gauri Repale, Thakare Pankaj, Prerana Sangale	Optimizing industrial waste in road construction: a response surface methodology approach	Journal of Building Pathology and Rehabilitation	Springer	<a href="https://doi.org/10.1007/s41024-024-00419-1">https://doi.org/10.1007/s41024-024-00419-1</a>	Scopus
2	<u>Hrushikesh N. Kedar</u> & <u>Satyajit Patel</u>	Effect of hydraulic binders on engineering properties of coal ash for utilization in pavement layers	Clean Technologies and Environmental policy.	Springer Link	<a href="https://doi.org/10.1007/s10098-024-02800-7">https://doi.org/10.1007/s10098-024-02800-7</a>	SCIE
3	<b>Harshada N. Wagh,</b> Sanskriti U. Tambe, Sakshi S. Kote, Ganesh S. Jagtap	Integrated Waste Management System in Kopargaon	Tanz Research Journal	Tanz Research Journal	<a href="https://doi.org/10.6084/doi.24.10.3.TANZ21875">10.6084/doi.24.10.3.TANZ21875</a>	Scopus
4	<b>Hrushikesh N. Kedar,</b> Satyajit Patel, Sandesh S. Shirol	Bulk utilization of steel slag–fly ash composite: a sustainable alternative for use as road construction materials	Innovative Infrastructure Solutions	Springer	<a href="https://doi.org/10.1007/s41062-023-01325-0">https://doi.org/10.1007/s41062-023-01325-0</a>	Scopus/ESCI
5	<b>Anuja S. Jape,</b> <b>Atteshamuddin S. Sayyad</b>	A hyperbolic theory for the analysis of laminated shallow shells with double curvature	Forces in Mechanics	ScienceDirect, Elsevier	<a href="https://doi.org/10.1016/j.finnmec.2023.100246">https://doi.org/10.1016/j.finnmec.2023.100246</a>	ESCI
6	<b>Atteshamuddin S. Sayyad,</b> Ramiz A. Sayyad	A review of research on fiber reinforced concrete	Journal of Materials and Engineering Structures		-	ESCI
7	Rupali B Tamnar and <b>A. S. Sayyad</b>	<u>Static response of functionally graded porous spherical shells using trigonometric shear deformation theory</u>	Advanced Topics in Mechanics of Materials, Structures and Construction: AToMech1-2023	Materials Research Forum LLC	<a href="https://doi.org/10.21741/9781644902592-9">https://doi.org/10.21741/9781644902592-9</a>	Scopus/Conference Proceeding
8	Ajim S Shaikh and <b>A. S. Sayyad</b>	Static and free vibration analysis of laminated sandwich shell with double curvature considering the effect of transverse normal strain	Advanced Topics in Mechanics of Materials, Structures and Construction: AToMech1-2023	Materials Research Forum LLC	<a href="https://doi.org/10.21741/9781644902592-6">https://doi.org/10.21741/9781644902592-6</a>	Scopus/Conference Proceeding
9	<b>Sumit S. Kolapkar,</b> <b>A. S. Sayyad</b>	Static response of FGM shell using refined higher-order shear and normal deformation theory	Advanced Topics in Mechanics of Materials, Structures and Construction: AToMech1-2023	Materials Research Forum LLC	<a href="https://doi.org/10.21741/9781644902592-13">https://doi.org/10.21741/9781644902592-13</a>	Scopus/Conference Proceeding
10	<b>Anuja S. Jape, A. S. Sayyad</b>	Static analysis of cross-ply laminated spherical shells using a new hyperbolic shear deformation theory	Advanced Topics in Mechanics of Materials, Structures and Construction: AToMech1-2023	Materials Research Forum LLC	<a href="https://doi.org/10.21741/9781644902592-76">https://doi.org/10.21741/9781644902592-76</a>	Scopus/Conference Proceeding
11	<b>A. S. Sayyad,</b> Lazreg Hadji, Abdelouahed Tounsi	On the mechanics of FG nanobeams: A review with numerical analysis	Forces in Mechanics	Elsevier	<a href="https://doi.org/10.1016/j.finnmec.2023.100219">https://doi.org/10.1016/j.finnmec.2023.100219</a>	ESCI
12	Latifa Ould Larbi, Mohamed Saad, Nafissa Zouatnia, Lazreg Hadji & <b>Atteshamuddin S. Sayyad</b>	A simple refined plate theory for buckling problems of in-plane bi-directional functionally graded plates with porosity under various boundary conditions	Mechanics of Advanced Materials and Structures	Taylor and Francis	<a href="https://doi.org/10.1080/15376494.2024.2346946">https://doi.org/10.1080/15376494.2024.2346946</a>	SCIE
13	Rupali B. Tamnar & <b>Atteshamuddin S. Sayyad</b>	A refined shell theory considering the effects of transverse normal strain for the analysis of functionally graded porous shallow shells with double curvature	Mechanics of Advanced Materials and Structures	Taylor and Francis	<a href="https://doi.org/10.1080/15376494.2024.2361462">https://doi.org/10.1080/15376494.2024.2361462</a>	SCIE
14	<b>Atteshamuddin S. Sayyad,</b> Yuwaraj M. Ghugal, Tarun Kant	Quasi-3D flexural analysis of laminated composite plates resting on elastic foundations using higher-order displacement model	Progress in Engineering Science	Elsevier	<a href="https://doi.org/10.1016/j.pes.2024.100005">https://doi.org/10.1016/j.pes.2024.100005</a>	

## Faculty Patents

S.No	Name of the Authors	Title of the patent	Status	Patent Date of Issue	Design No.
1.	1.Dr. Vignesh V. 2. Ronak Rajendra Gugale 3.Vishwajit Prakash Jagtap 4.Mohiniraj Kailas Raut 5.SudhirBhaskarrao Gayake	CORE EXTRACTING AUGER : SOIL SAMPLING TOOL	Granted	22/03/2024	400726-001
2.	1.Department Of Structural Engineering, Sanjivani College Of Engineering, Kopargaon 2. Sudhir Bhaskarrao Gayake 3.Sakshi Amol Rohamare 4.Muskan Javed Shaikh 5.Pratik Shamal Raskar 6.Shraddha Ashok Yadav	FLOW TABLE MEASURING SCALE	Granted	23/02/24	403505-001
3.	1. Harshada Nilesh Wagh 2.Atteshamuddin Shamshuddin Sayyad 3.Machhindranath Sakhahari Purkar 4.Swanand Suresh Vispute	Sanitary Bed	Granted	07/11/2023	337489-001
4.	1. Dr. T. S. Shanthi 2. T. S. Senthil 3. Prashant Sunagar 4. Dr. P. John Augustine	An AI Detection Face Recognition Access Control System	Granted	06/09/2023	387428-001
5.	1.Sudhir Bhaskarrao Gayake 2. Pravin Ravindra Parhe 3.Shubham Vijay Jadhav 4.Saiprasad Gopalkrishna Gaikwad 5.Rushikesh Sanjay Kasar	Plastic bottle fiber cutter	Granted	13/12/2023	394103-001
6.	1.Deepam Mahendra Patel 2. Dr. Atul K. Desai 3.Sudhir Bhaskarrao Gayake	EXTERNAL INVOLUTES FOR BUILDING FACADE	Granted	30/06/23	
7.	1.Sudhir Bhaskarrao Gayake 2. Atul K. Desai	FIBER FOR REINFORCEMENT	Granted	16/02/2024	367896-001
8.	1. Dr. Prashant Sunagar 2. Dr. J. Sumalatha 3. Dr. K. Rajalakshmi 4. Dr. SandeepPanchal	Solar Powered Seawater Desalination Apparatus	Granted	01/12/2023	396724-001
9.	1.Akash Namdeo Gholap 2. Amol Dnyaneshwar Wable 3.Sudhir Bhaskarrao Gayake	MULTI-KEY HOLDER	Granted	20/02/24	402663-001
10.	1.Sudhir Bhaskarrao Gayake 2. Atul K. Desai	FIBER FOR REINFORCEMENT	Granted	16/02/2024	367897-001
11.	Sudhir Bhaskarrao Gayake Anuja Sanjay Jape Sagar Dattatray Turkane Rajendra Bhimraj Gaikwad	DUAL HEADED STRIKER FOR IMPACT APPARATUS	Granted	02/04/2024	378459-001
12.	Atteshamudin Shamshuddin Sayyad Akshay Devchand Hagwane Pradnya Vasant Kadam	VERTICAL POINT LOCATOR	Granted	11/01/2024	317591-001
13.	Sanjivani College Of Engineering, Kopargaon Mr. Shripad Babasaheb Mate Ms. Bharti Machhindra Shinde	HIGH STRENGTH REINFORCEMENT TIE	Granted	08/05/2024	358611-001

# SPACE 2k23

## About the Event

The SPACE (Research Celebration Week) is a significant event for the Structural Engineering community, highlighting advances in design, technology, and sustainability. This week-long celebration marks the 40th Ruby Jubilee of our institute and honors Dr. Abdul Kalam's legacy. It serves as a platform for knowledge sharing, collaboration, and recognition of academic and research achievements. Events include seminars, panel discussions, competitions in paper and model presentations, and an Art Mela, all aimed at inspiring innovation and showcasing cutting-edge research in structural engineering.



**SPACE**  
(Social, Professional, Academic, Commercial Research, Evaluation)

**13<sup>th</sup> October 2023**

- Guest Lecture Series
- HR Talk Show

**14<sup>th</sup> October 2023**

- Guest Lecture Series
- Structural Consultant Talk Show

**15<sup>th</sup> October 2023**

**Art Mela**  
Only for Students and Faculties of Sanjivani Group of Institutes

**16<sup>th</sup> October 2023**

**Paper / Poster Presentation Competition for Engineering & Diploma Students**

**17<sup>th</sup> October 2023**

**Model / Project Competition for Engineering & Diploma Students**

Dr. B.M. Shinde	Dr. A. S. Sayyad	Dr. A. G. Thakur	Hon'ble Amit N. Kolhe	Hon'ble Nitindada S. Kothe
Coordinator	HOD	Director, SCOE	Managing Trustee	Chairman



Sanjivani Rural Education Society's  
Sanjivani College of Engineering  
Department of Structural Engineering  
Presents

**SPACE**  
(Social, Professional, Academic, Commercial Research, Evaluation)  
A Research Week Celebration Program

**13<sup>th</sup> - 17<sup>th</sup> October, 2023**

(On the occasion 40<sup>th</sup> Ruby Jubilee year celebration of Sanjivani Group of Institutes and Birth Anniversary of Dr. A P J Abdul Kalam)

## Day 1: 13/10/2023

The inauguration of research week celebration program "SPACE (Social, Professional, Academic, Commercial research Evaluation)" program starts with the Saraswati Pooja in the presence of Dr. A. G. Thakur sir, Director SCOE, Dr. A. S. Sayyad, HOD Structural Engg. Dept., Er. Manoj Shingate, Project Leader, Bharat Petroleum Corporation, Ahmednagar. HOD sir had given brief about the event and then, Director sir had given his best wishes for the program.



# Structural News Letter, Volume 4, Issue 1

**Session 1:** After the inauguration, first session was delivered by Er. Manoj Shingote, Project Leader, Bharat Petroleum Corporation, Ahmed Nagar. During the lecture the expert highlighted various projects which BPCL has completed across the country as well as the guest focused on the various steps involved in the construction of Ahmed Nagar-Sambhaji Nagar gas pipe line project. He also explained about the special techniques used in the construction of pipe line used of gas and petroleum.



**Session 2:** 2<sup>nd</sup> session of the first day was delivered by Er. Sachin Avhad, Assistant Engineer, Water Resource Department, Ahmed Nagar, on “Opportunities for Strutural Engineers in various Fields”. During the lecture the expert highlighted various government projects he has completed in his field. The technical difficulties, challenges handled to execute the projects are also shared by the expert during his talk. Expert has guided the students for the preparation of competitive exams. He also the techniques used by him for cracking the MPSC exam. Students gets motivated after his thoughtful shadings.



**Session 3:** For 3<sup>rd</sup> session of the first day, Talk show of HR was organized. For HR talk show Mrs. Prachi Karmarkar, Head HR and Administration, JW Consultants LLP was invited as a expert and Dr. V. M. Tidke Dean Training and Placement SCOE, Kopergaon was invited as a moderator. Mrs. Prachi began the talk show with a presentation on JW Consultant LLP's profile. She discussed hiring procedures, required skill sets, her experiences, feedback, and expectations as an HR. She emphasized the importance of combining software proficiency with foundational knowledge for career growth.



Life is what happens when you're busy making other plans." – John Lennon

Day 2: 14/10/2023

**Session 1:** After the successful execution of first day, the second day start with, session of Er. Udit Hirey, Managing Director, Hiray Consulting Engineers and school of Structures, Pune, on the topic “ An overview of Structural Design Industry”. Er. Udit delved into the latest trends and innovations in the field of structural design, emphasizing how technology and materials have transformed the industry. Er. Udit shared real-life case studies and examples to illustrate key concepts and demonstrate successful projects in the structural design field. In short, expert has provided attendees with a comprehensive overview of the structural design industry, from its historical evolution to current trends.



**Session 2:** In the 2<sup>nd</sup> session, Er. Abay Khandeshe, Khandeshe Consulting Engineer, Ahmednagar was invited for panel discussion as a structural consultant. In the panel discussion Dr. A. S. Sayyad sir has asked questions to elicit informative responses that shed light on the consultant's expertise, experiences, and insights in the field of structural engineering. Er. Khandeshe sir has shared his experience with students along with a various practices followed in the field in structural consultancies. He has also highlighted important skills required by one being a Structural Engineer.



**Session 3:** In the 3<sup>rd</sup> session, Er. Amol Gite, Associate Vice President, and Er. Abhishek Dasgupta, Deputy General manager, Mold-Tek Technologies Ltd. and Mr. Abhishek A. Dasguptawas joined as a experts. Er. Abhishek talked about “Career Opportunities In Structural Engineering at MOLD-TEK” and Mr. Amol showed the actual working on the softwares and the ongoing projects undertaken and highlighted upon educational and career opportunities. in structural design, providing guidance and advice for students and professionals looking to enter or advance in the field. In summary, experts has provided a comprehensive overview and opportunities at MOLD-TEK technologies Ltd.



"The best way to predict the future is to invent it." – Alan Kay

**Session 4:** The last session of 2nd day was delivered by Er. Rohan Deshmukh, Geotechnical Solution Engineer, Bentley Systems, on “Slope Stability Analysis with PLAXIS”. Expert has highlighted on the various software's used in soil analysis. He has showed actual demonstration of use of PLAXIS software for the stability analysis of soil, to determined the properties of soil, prediction of soil behavior under loading etc. Expert has delivered a very informative session on soil investigation.



### Day 3: 15/10/2023

Integrating an art-related activity like a drawing competition into a Research Week Celebration event, can create a multi-dimensional and engaging experience, bridging the worlds of art and academia. This incorporation can foster a holistic approach to innovation, encouraging a fusion of creativity and analytical thinking. Ultimately, this integration creates an environment where both art and research intersect, emphasizing the importance of creativity in academia and encouraging participants to explore, express, and communicate their research in innovative and visually compelling ways. It creates a platform that celebrates diverse forms of expression while promoting the core values of research and innovation. With this perspective, an Art Mela open for all age group students was organized on 15<sup>th</sup> Oct 2023, a Sunday morning. Dr. Manali Amitdada Kolhe (Managing Director-Sanjivani Group of Schools), Dr.A.G Thakur (Director-SCOE), Dr.A.S Sayyad (HOD-Structural Engineering) inaugurated the program. Students all over the group of institute has participated in the event and had a enjoyable experience. The participation has been judged in two categories viz. Kids and Graduate. Mr. Matin Daruwala and Mr.Babasaheb Suryawanshi was invited as a judges for the event. Two prizes from each category are awarded to best drawings.



## Day 4: 16/10/2023

A Paper/ Poster presentation competition was organized on the day 4 for the engineering and diploma students. Hosting a paper presentation competition as part of a Research Week holds significant importance within an academic or research-oriented event. In essence, it serves as a critical component in highlighting the academic and research achievements within an institution, fostering collaboration, encouraging innovation, and promoting a culture of academic excellence. Almost, 33 groups have participated in the competition and presented their research work on various technical topics.. Prof. V. M. Vibhute, Assistant Professor ECE Department, SCOE has invited as a judge for the competition. Three winners are shortlisted from among all who has awarded a cash prize of Rs.1500 (1<sup>st</sup> winner), Rs. 1000 (2<sup>nd</sup> Prize), Rs.500 (3<sup>rd</sup> Prize)



## Day 5: 17/10/2023

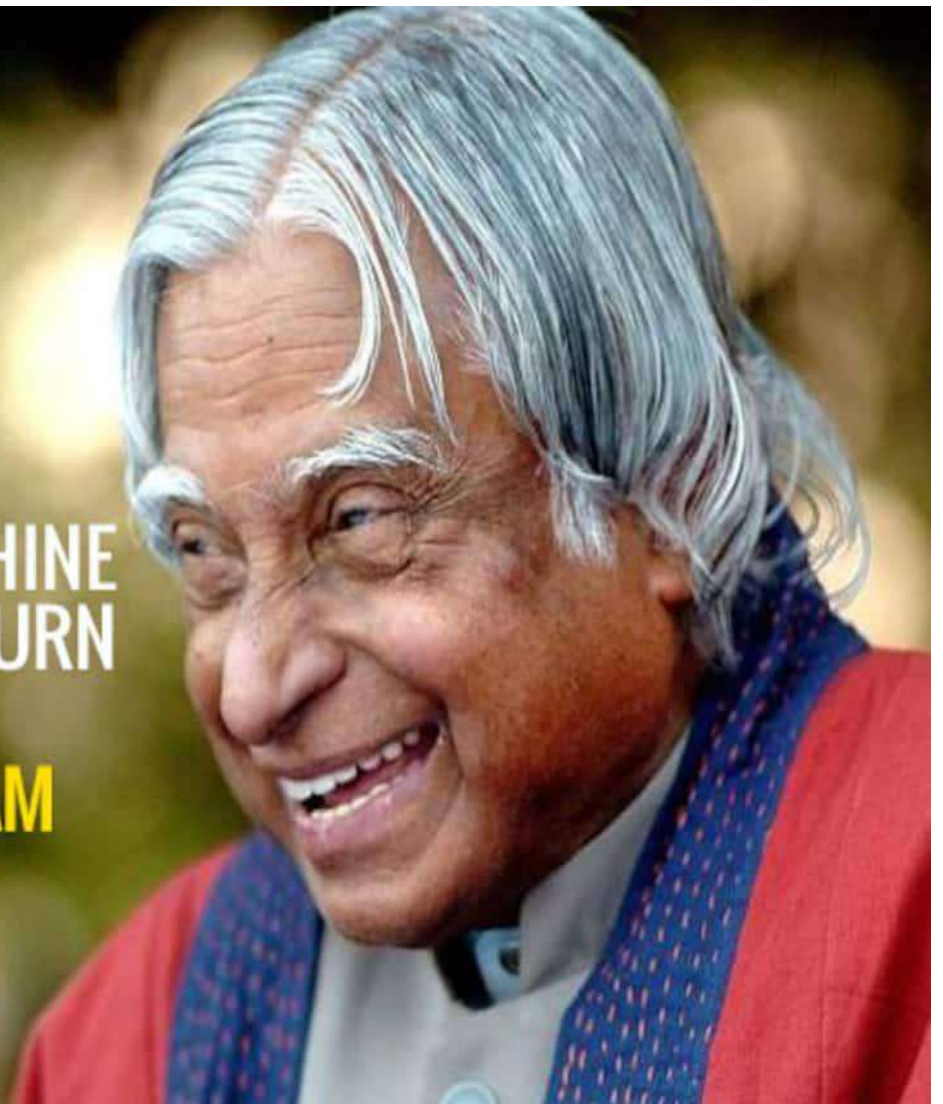
A Model/ Idea competition was organized on the last day of the research week program for the engineering and diploma students which holds significant importance in fostering innovation, creativity, and the development of novel concepts. Model or idea competitions encourage participants to propose innovative solutions to real-world problems. It serves as a platform for the generation of new ideas that could potentially address societal, scientific, or industry challenges. Model or idea competitions within a Research Week event are crucial in promoting creativity, innovation, and problem-solving skills among participants. They provide a platform for the development and presentation of novel ideas, contributing to a vibrant culture of research and development within academic settings.

Almost, 17 groups have participated in the competition and presented their model / idea on various technical/ non-technical topics.. Dr. S. M. Ghumare, Assistant Professor Civil Engg. Department, SCOE has invited as a judge for the competition. Three winners are shortlisted from among all who has awarded a cash prize of Rs.1500 (1<sup>st</sup> winner), Rs. 1000 (2<sup>nd</sup> Prize), Rs.500 (3<sup>rd</sup> Prize). At the end Dr. A. S. Sayyad proposed vote of thanks to Hon'ble Management, Director for their support, Organizing Committee, all students for their active involvement. At last he congratulate all the winners.

"Arise, awake, and stop not till the goal is reached." – Swami Vivekananda



**"IF YOU WANT TO SHINE  
LIKE A SUN, FIRST BURN  
LIKE A SUN."  
- Dr APJ ABDUL KALAM**





# STRUCTURAL ENGINEERING TALKS (SET 2024)

Under the Sanjivani I-Connect initiative and in commemoration of the birth anniversary of our esteemed Founder, Late Shri. Shankarraoji Kolhe Saheb, the Department of Structural Engineering and the Association of Structural Engineering Students (ASES) jointly organized a Guest Lecture Series titled "Structural Engineering Talks-SET2K24" for S.Y. and T.Y. BTech students on the 22nd and 23rd of March 2024. We were privileged to host esteemed experts in the field of structural engineering across Maharashtra.

On the first day, during the initial session, Ar. Shewta and Er. Rupesh Ghodke from Excelize Techniques, Ch. Sambhajinagar, shared their insights on "Building Information Modeling - A New Future for Building Modeling." In the subsequent session of the same day, we were honored to welcome Col. N. Krishnan, Director at Eyrie Projects and Technologies, Pune. He elaborated on various projects undertaken by Eyrie and provided valuable insights into post-technical education recruitment opportunities.

The final session of the day was conducted by Ar. Sucheta Inamdar, representing Precision Precast Services, a consultancy firm based in Pune with over 20 years of experience. Her session delved into the applications of Artificial Intelligence in Building Information Modeling (BIM) along with the future job prospects in this domain.



Sanjivani Rural Education Society's  
**Sanjivani College of Engineering, Kopergaon**  
 An Autonomous Institute, Affiliated to SPPU, Pune  
 ISO 9001:2015 Certified, Approved by AICTE  
 Accredited by NAAC (A Grade) and NBA

Department of Structural Engineering  
**ASSOCIATION OF STRUCTURAL ENGINEERING STUDENTS (ASES)**  
 Organizes  
**Structural Engineering Talks (SET-2k24)**  
 A 2-days Guest Lecture Series Under *Sanjivani I-Connect*  
**"Building Ideas-Bridging Future"**

22<sup>nd</sup>-23<sup>rd</sup> March, 2024 | Time -10.00am onwards | Venue- 025 Gallery Hall

- |                                  |                       |                            |  |
|----------------------------------|-----------------------|----------------------------|--|
| Prof.S.B.Gayake<br>ASES Incharge | Dr. A.S.Sayyad<br>HOD | Dr. A.G.Thakur<br>Director | Hon. Shri Amit Kolhe<br>Managing Trustee |
|----------------------------------|-----------------------|----------------------------|--|



"Work hard, be brave, and have faith in yourself." – Dr. A.P.J. Abdul Kalam

On the second day, the inaugural session was led by Er. Deepak Shelar, Executive Structural Engineer at Dimsoln Structures, Gujarat. He delved into the Role of Structural Engineers in the design of structures for the Oil and Gas industry, focusing on pipe rack structures. Er. Shelar also highlighted various special structures such as equipment foundation design and fluid retaining structures, discussing the relevant codal provisions of both Indian and foreign standards.

The final session of the day was conducted by Er. Vijayji Bankar, a Life Coach and Mentor specializing in Corporate Readiness and confidence building. This session was exceptionally engaging and enthusiastic, with many students actively participating in various fun events. The session aimed to motivate students and enhance their stage daring, instilling a sense of confidence without fear.

On behalf of ASES and the students of structural engineering, we extend our heartfelt gratitude to all the experts, the HoD, the Director, and the Management for their invaluable support in organizing such enriching activities aimed at the holistic development of students.

Announcing the launch of the Structural Engineering Digest 2K23-Volume 1! 🎉 Unveiled by Er. Vijayji Bankar during SET2K24 on March 23, 2024, this technical magazine showcases insightful articles, pioneering research, and innovative patents from students and faculty in structural engineering.

🔊 Open for submissions: Experts and enthusiasts are invited to contribute on real-world challenges in structural engineering.

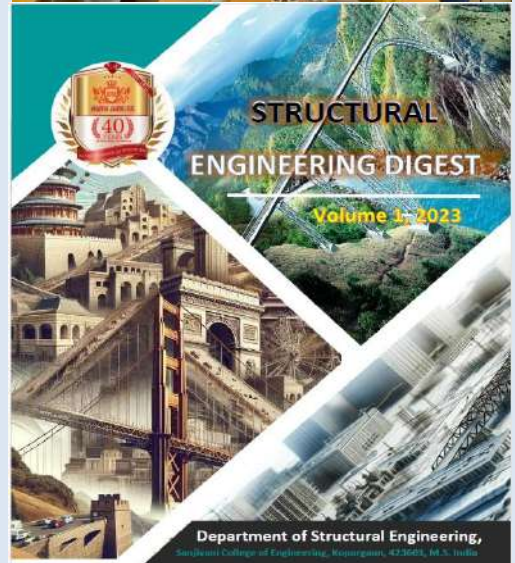
Editorial Team:

Chief Editor: **Dr. A. S. Sayyad**

Associate Editor: **Hrushikesh N. Kedar**

Board Members: **Dr. N.S. Naik, Dr. S. M. Gunjal, Dr. B. M. Shinde**

A heartfelt thank you to our Director and Management for their support in bridging academia and industry.



## Sport Championship Sem I (2023-2024)

The Structural Engineering Department, Sanjivani College of Engineering Kopergaon hosted a spectacular Sports Championship on the **4th and 5th of December 2023**, bringing together our students in a celebration of skill, teamwork, and sportsmanship under Mandatory Learning Course of 1 credit. A special thank you to all the participants, organizers, and supporters who made this event a grand success. We extend our heartfelt gratitude to the Managing Trustee, Director, Physical Director, HOD, and all Structural Engineering faculty members for their unwavering support. Highlights of the Event:

🏏 Cricket ⚽ Football 🏐 Volleyball, 🏀 Basketball, 🎯 Kabaddi & Kho-Kho: A thrilling medley of traditional and contemporary sports. 🏸 Badminton, ♟️ Chess, 🏓 Table Tennis, 🏊 Tug of War: Showcasing agility, strategy, and teamwork. Shot Put & Discus Throw: Raw strength on display in the field events. The event concluded by recognizing TY students as Champions with outstanding performance. **Mr. Rau Dohale (B.Tech.)** and **Ms. Nikita Kank (B.Tech.)** were awarded with best sportsman category.



## Sport Championship Sem II (2023-2024)

The Structural Engineering Department, Sanjivani College of Engineering, hosted a spectacular Sports Championship on April 29–30, 2024, under the Mandatory Learning Course (1 credit). The event was a vibrant mix of traditional and modern sports, including 🏏 Cricket, ⚽ Football, 🏀 Basketball, 🎯 Kabaddi, 🏸 Badminton, and more.

Highlights:

Champions: **TY students** showcased stellar performances.

Best Sportspersons: 🏆 Mr. Darshan Penshanwar (S.Y. B.Tech.) and 🏆 Ms. Sanskruti Tambe (T.Y. B.Tech.).

A special thanks to the Managing Trustee, Director, Physical Director, HOD, faculty, and participants for making the event a grand success!



"A focused mind can pierce through a mountain of difficulties." – Chanakya

## Parents Meet

A parent meet was held on 15th April 2024 at 10:30 am in the 025 Gallery Hall for F.Y., S.Y., T.Y., and B.Tech Structural Engineering students. The event was coordinated by Prof. A. S. Jape, with dignitaries Shri Vijay Naidu, Dr. D. B. Kshirsagar, and Dr. A. S. Sayyad in attendance, along with faculty members and approximately 70 parents.

The meeting commenced with a warm welcome and Saraswati Poojan. Dr. Sayyad delivered a detailed overview of departmental initiatives like placements, patent culture, industry collaborations, and mock interviews, emphasizing faculty efforts in mentoring students. Insights from Dr. Kshirsagar and Shri Naidu highlighted the importance of these initiatives.

Academic excellence was celebrated by felicitating top performers across all years, inspiring their peers. Parents of placed students were specially honored with personalized photo frames, symbolizing their children's transition to professional success. Many parents expressed their gratitude towards the faculty, with some presenting tokens of appreciation.

The event concluded with a vote of thanks by Prof. Jape, and feedback forms were distributed to gather valuable suggestions. The meet reinforced collaboration between the department and parents in fostering student success.



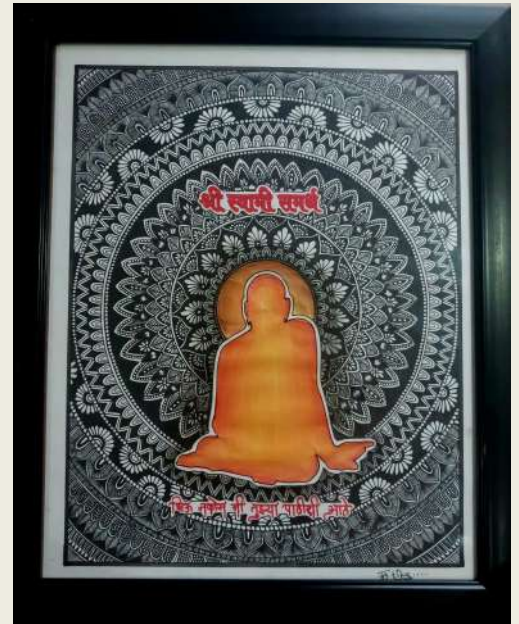
"Dream is not what you see in sleep, it is something that does not let you sleep." – Dr. A.P.J. Abdul Kalam

# Arts Gallery

Tanishqa Kolhe (SY B.Tech)



Rutika Chine (SY B.Tech)



Pratiksha Bawake (SY B.Tech)



Ishiqqa Halwai (SY B.Tech)





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**Madake Anant**



**Pandure Dinesh**



**Dobole Swapnil**



**Kapse Vaibhav**



**Kalaskar Kiran**



**Sonawane Sakshi**



**Waghchaure Snehal**



**Waghaskar Snehal**



**Kasar Rushikesh**



**Tribhuvan Pratiksha**



**Deshmukh Sakshi**



**Rakshe Priyanka**

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"It is only through labor and painful effort, by grim energy and resolute courage, that we move on to better things." – Dr. B.R. Ambedkar



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**Department of Structural Engineering**



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**Kshirsagar Divya**



**Wani Yukta**



**Kale Neeraj**



**Gadge Vikram**



**Bhagat Abhay**



**Sanghavi Bhushan**



**Bawake Pranav**



**Gavade Mahesh**



**Gite Akshay**



**Kopare Sachin**



**Gaikwad Saiprasad**

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"Dream, dream, dream. Dreams transform into thoughts, and thoughts result in action." – Dr. A.P.J. Abdul Kalam



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Department of Structural Engineering



Darade Anand



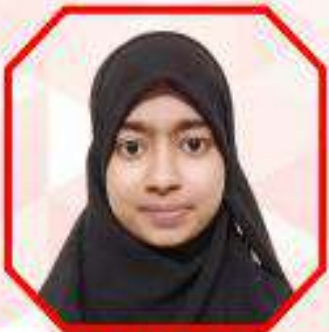
Pote Vaibhav



Komal Nandkumar



Jadhav Shubham



Shaikh Saniya



Sable Sanket



Sonawane Tejal



Parhe Pravin



Sangale Radhika



Shejwal Abhay



Kank Nikita



Jadhav Sanket

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"Do not wait for anyone or anything. Do whatever you can, build your hope on none." – Swami Vivekananda





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Department of Structural Engineering



Kote Abhishek



Gaikwad Akash



Wakchaure Chandrashekhar



Khodke Pawan



Mandhare Mayur



Jagtap Tushar



Palekar Shruti



Jadhav Nikita



Girme Rutuja



Gavhane Rutuja



Jadhav Rutika

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"Your aim is yours; you must chase it relentlessly." – Dr. A.P.J. Abdul Kalam



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PLACEMENT 2023-24

Department of Structural Engineering



Dohale Rau



Wagh Arti



Nawale Vedant



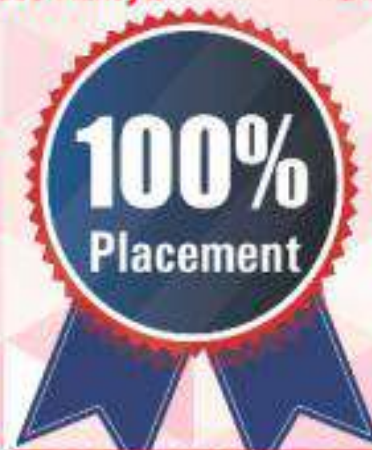
Wagh Shubham



Kote Aditya



Shinde Komal



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(An Autonomous Affiliated to SPPU Pune)



**Department of Structural Engineering**  
**B.Tech First Batch - 2024**



**Second M.Tech Batch Convocation**



"Success can come to you by courageous devotion to the task lying in front of you." –  
Pandit Jawaharlal Nehru



## Program Educational Objectives (PEOs)

**PEO1:** To impart basic and advanced knowledge of structural engineering so that graduates are able to analyze and solve the industrial problems.

**PEO2:** To provide hands on training to the graduates on latest equipment and latest software to make them suitable for industries and consultancies.

**PEO3:** To equip the graduates with basic professional skills to work as a team member or leader for the socio-economical growth of the nation.

**PEO4:** To motivate the graduates to pursue research, higher education and entrepreneurship in the structural engineering field.

## Program Specific Outcomes (PSOs)

**PSO1:** Graduates will be able to provide the best possible solutions for the analysis and design problems using conventional and modern engineering tools for the sustainable development related to the structural engineering.

**PSO2:** Graduates will be able to identify societal and industrial needs through allied courses such as planning and drawing, infrastructural engineering, project management, materials, mechanics, etc.

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(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

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