CONCRETE PEOPLE – Newsletter of Civil Engineering Department

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Vision Service to Society through quality education.

Mission Generation of national wealth through academics and research. Imparting quality technical education at cost affordable to all strata of the society. Enhancing quality of life through sustainable development. Achieving the distinction of highest preferred engineering college by stake holders. Carrying out high quality intellectual work.

From Principal's Desk:



branches of engineering. Faculty is actively involved in research and development. College has a number of very high-end analytical, computational and experimental facilities at the disposal of students. We are going to concentrate more upon the Engineering Research activities and use those for students and society welfare. I am confident that the College is in a position to deliver the best theoretical and practical training to the students and offer the best talent to the employers. I wish all the best to the aspiring students, employers and all other stake–holders in achieving their goals.

Head of Dept.: Dr. P.B. Nangare

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COLLEGE OF ENGINEERING Approved by AICTE, New Delhi and affiliated to Savitribai Phule Pune University College ID No. PU/PN/Engp/093(1992) Accredited by NAAC with Grade 'A+'

The newsletter of Department of Civil Engineering

Concrete People

Editorial Board

Principal: Dr.D.S.Bormane

Editors:

Mr C S Misal Aryan Chawada [TE Civil] Nikita Bhosale [TE Civil] Our Inspiration

Shri Shahu Chhatrapati Maharaj

"Education is the most powerful weapon which you can use to change the world.".

President, AISSMS





From Editors Desk....

It gives us immense pleasure to hand over to you "Concrete People" the newsletter of Civil engineering department. The course leading to a bachelor's degree in Civil Engineering was started in the year 2002. Additional intake in 2012. The department also runs a PG program in Structural Engineering with intake of 18. The Department presently has highly qualified and experienced faculty on its roll. The activities in the Department are conducted, besides teaching, in the areas of research, training, alumni and Training and Placement. 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.

Hope you will find this newsletter informative. Your suggestions for improvement in the newsletter are welcome.

From HOD's Desk...



The department offers undergraduate civil engineering programme of 120 intake since academic year 2002-2003 and post graduate structural engineering programme of 18 intake from the academic year 2011–12. SPPU Pune recently granted approval for the Ph.D. Research Center also.

The Vision of Department is to Nurture the talent in civil engineers to work as global leaders for development of society. In line with our vision, the Department has modern software and well-equipped laboratories for geotechnical engineering, fluid mechanics, material testing, environmental engineering and transportation engineering. Our Industry Institute Interaction Cell's mission is to foster closer collaboration between academic and industrial fields, We understand the need to create avenues for close academia and industry interaction in a 360 degree approach for all our students. Our students are thriving in the construction industry, as a result of the sincere efforts of the faculties and the cutting edge facilities offered by the Department.



"Building is not just about bricks and mortar. It's about creating places where people can flourish.".

Vision

Nurture the talent in civil engineers to work as global leaders for the development of society.

Mission

•Provide quality education to develop competent civil engineers •Create awareness among students for sustainable development

•Cultivate the leadership qualities becoming successful for entrepreneurs

Specific Program Outcomes (PSO's) Graduates will able to:

PSO1: Exhibit technical knowledge in planning, analysis, design and management for infrastructural development.

■PSO2: Apply the innovative technologies address to Civil Engineering problems of the society.

PSO3: Enhance professional abilities to meet industrial need.

Objectives Program Educational (PEOs):

•To produce civil engineering's who will be fully aware of the impact of their work on society, both nationally and globally.

•To achieve a high level of technical expertise to succeed in civil engineering practice and research.

•To develop civil engineers who acquire professionalism. leadership and commitment professional to development through lifelong learning.

Short Term Goals

To infrastructure augment and processes for enhancement in teaching learning.

To extend assistance to students for competitive examinations, higher studies and entrepreneurship.

- To establish Research centre.
- Long Term Goals

 To develop testing and consultancy facilities.

•To have Doctorate percent cent faculties.

 To strengthen collaboration with the reputed institutes and industries.



2022-2023 (Term I)

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Concrete People

Staff Achievements

- Under the mentorship of Dr. (Mrs) V N Patil, Trash-to-Cash startup stood runner-up in the i-2- e competition organized by SPPU, Centre for Innovation, Incubation & Enterprise, allotted us 50,000 rupees as a reward and officially registered start-up as ScrapMan Pvt. Ltd.
- Dr.(Mrs) V N Patil honored as member of prestigious "Confederation of Elite Academicians of IICDC" for outstanding contributions and stellar commitment to inspiring Engineering students to innovate and create ground breaking solutions
- Dr V N Patil worked as Jury member in Avishkar at AISSMS COE
- Under the mentorship of Dr. (Mrs) V N Patil, Trash-to-Cash startup have been rewarded working capital from Navayuvak Entrepreneur
- Dr.(Mrs)V N Patil's product patent on "Device For Testing Optimum Bearing Capacity Of Geotechnical Materials With A Sliding Load Frame" was granted on July 27th, 2022.
- ♦ Under the mentorship of Dr. (Mrs) V N Patil TEAM won SIH 2022.
- Dr. P B Nangare worked as a JURY Member for 'Well Built Structure Competition", organized by BAI Pune.
- Dr V N Patil worked as Jury in Startup competition organized by Maharashtra Government.
- ✤ Dr R D Nalawade is Co-applicant of 8 Patent related to civil Engineering issue.

Papers Published /Presented in Journal /conferences by Faculty

♦Mrs K N Kulkarni published a paper on "An Assessment of Assimilative Capacity, the Current Industrial Air Pollution Load and Supportive Carrying Capacity in the Chakan Region" Mathematical and Statistician and Engineering Applications (MSEA). Vol. 71 No. 4 (2022). ISSN 2094-0343, 2326-9685. (Indexed in - Scopus, GS, Elsevier, WOS, LOCKKS, Open J-Gate)

◆Dr S R Parekar published paper on "Reinforced concrete Rectangular and Flanged beams under Pure Torsion"

✤Dr M. V. Waghmare published paper on Nonlinear Seismic Analysis of RC Elevated Liquid Storage Tanks, pp 1785-1790 (2022) ASPS Conference Proceedings 1: Vol. 1 No. 6 Proceedings of 12th Structural Engineering Convention-An International Event (SEC 2022), NCDMM, MNIT Jaipur, India| 19-22 December, 2022

Papers Published /Presented in Journal /conferences by Faculty

- Dr M. V. Waghmare published paper on Effect of Structural Shape on Seismic Response of Air Traffic Control Tower, pp 359-363 (2022) ASPS Conference Proceedings 1: Vol. 1 No. 2 Proceedings of 12th Structural Engineering Convention-An International Event (SEC 2022), NCDMM, MNIT Jaipur, India 19-22 December, 2022
- Dr M. V. Waghmare published paper on Non-linear Dynamic Analysis of RC Structures Under Earthquake Sequences pp 373-378 (2022) ASPS Conference Proceedings 1: Vol. 1 No. 2 Proceedings of 12th Structural Engineering Convention-An International Event (SEC 2022), NCDMM, MNIT Jaipur, India 19-22 December, 2022
- S P Khedekar published paper on "Use of Recycled Concrete Aggregate in Construction", International Journal of Engineering Inventions, Vol.11, Issue 7, July 2022
- Mrs S A Chavan published a paper on "Planning and designing of High-Rise Sustainable Building", A Journal of Physical science, Engineering and Technology, Vol 14, No spl -3, 23 Jan 2023
- Mrs S A Chavan presented a paper on "A design of Eco-friendly Bitumen by adding plastic waste", in NCIET22 proceeding
- Mr S S Mulay published paper on "Stream-flow Prediction using Data Driven Techniques for Upper Krishna Sub-basin Stations of Maharashtra", in ICRACE
- Dr. M V Waghmare published paper on "Effect of Frequency Content of Earthquake Ground Motions on Structures with varying dimensions" pp 793-798 (2022) ASPS Conference Proceedings 1: Vol. 1 No. 3 Proceedings of 12th Structural Engineering Convention-An International Event (SEC 2022), NCDMM, MNIT Jaipur, India 19-22 December, 2022
- Dr. M V Waghmare published paper on "Experimental investigation of Magneto-rheological damper" pp 1607-1613 (2022) ASPS Conference Proceedings 1: Vol. 1 No. 5 Proceedings of 12th Structural Engineering Convention-An International Event (SEC 2022), NCDMM, MNIT Jaipur, India 19-22 December, 2022
- Dr. M V Waghmare published paper on Experimental Study of Crack Patterns of Composite Slabs", 2022 Dickensian Journal, Vol. 22, Issue 6, , (June 2022) (UGC care) Online ISSN:0012-2440

Papers Published /Presented in Journal /conferences by Faculty

- Dr. M V Waghmare published paper on "Analysis of Offshore Jacket Structure with Tuned Mass Damper", Dickensian Journal, Vol. 22, Issue 7,, (July 2022) (UGC care) Online ISSN:0012-2440
- Dr. M V Waghmare published paper on "Dynamic Analysis of Cantilever Retaining Wall" Samriddhi, An International Journal, (A journal of Physical Sciences, Engineering & Technology) Volume 14, Special Issue 2, 2022 Print ISSN : 2229-7111 Online ISSN : 2454-5767 (UGC care) Journal no. 64061
- Dr. M V Waghmare published paper on, "Ultrasonic Pulse Velocity Test on Hybrid Fiber Reinforced Concrete" Samriddhi, An International Journal, (A journal of Physical Sciences, Engineering & Technology) Volume 14, Special Issue 2, 2022 Print ISSN : 2229-7111 Online ISSN : 2454-5767 (UGC care) Journal no. 64061
- Dr. M V Waghmare published paper on "Analysis of Rectangle Bridge Pier for Different Velocities" Samriddhi, An International Journal, (A journal of Physical Sciences, Engineering & Technology) Volume 14, Special Issue 3, 2022 Print ISSN : 2229-7111 Online ISSN : 2454-5767 (UGC care) Journal no. 64061
- Dr. M V Waghmare published paper on "Effect of Post Tensioning on Long Span Precast Beam" Samriddhi, An International Journal, (A journal of Physical Sciences, Engineering & Technology) Volume 14, Special Issue 3, 2022 Print ISSN : 2229-7111 Online ISSN : 2454-5767 (UGC care) Journal no. 64061
- Dr R D Nalawade published paper on Pavement Evaluation and applications of Geo textiles in Pavements CJGE, Vol. 44(12), 2022
- Dr R D Nalawade published paper on Geotechnical Characterization of Soil Slopes a Tool in Determining. CJGE, Vol. 44(12), 2022
- Dr R D Nalawade published paper on Stabilization of Soil using Waste Plastic Fibre and Kitchen Waste CJGE, Vol. 44(12), 2022
- Dr R D Nalawade published paper on Influence of Swelling Rock with Drying-Wetting Cycles on Stability of Canal Slope. Published in CJGE, Vol. 44(12), 2022

Webinars/Expert Talks organized by Faculty

Dr. R D Nalawade and Mr. C R Yeole organized seminar entitled as "Intellectual Property Rights and IP management" under IGS Student Chapter on 12 October 2022

Webinars/Expert Talks organized by Faculty

- Mrs. K N Kulkarni worked as convenor in organizing Expert talk on "Water and Urbanization" under IWWA chapter on 12.12.22
- ✤ Dr V N Patil organized Innovation week from 12.10.22 to19.10.22
- P R Modak organized interactive session on "Entrepreneurship and Innovation as career opportunity" in association with E&SD Cell on 04.11.2022.
- M S Chiwande organized Guest lecture on 22.09.22 by Er. Rajendrakumar Saraf on Solar Energy and Sustainable Goals
- ✤ C S Misal coordinated Lecture series for DSE students during 28.11.22 to 17.12.22
- Dr U R Awari organized and coordinated 55th Engineer's Day Celebration and key note address on topic "Use of glass Fiber Reinforced Polymer Rebar for the theme smart engineering for better word" at The Institute of Engineers (India), Pune local center on 15.09.2022.
- Mrs. K N Kulkarni and S P Khedekar organized an Expert talk on "Structural geology for Civil Engineers" by Dr. Durga Mohanty, on 15th September, 2022
- S P Khedekar and Mrs. K N Kulkarni organized an Expert talk on "Water and urbanization" by Dr. Dinkar More on 12th December, 2022
- U J Jadhav organized the motivational speech by Mr. Raghav Koli, Founder Author, Motivational speaker, Conquerors, Pune on 29.7.2022
- Dr R D Nalawade coordinated 5th Bharat Ratna M. Visveshwaraya Annual Oration, "Geotechnical and foundation challenges for infrastructural projects" on 03.09. 2022 at COEP

STTPs/Workshops/FDPs attended by Faculty

- Dr. U R Awari attended ATAL FDP on Behavior and design of RC and steel structures in online mode on 19.09.2022, organized by VNIT, Nagpur
- Mrs. K N Kulkarni and S P Khedekar attended Seminar on Pune Metro organized by ICI and BAI on 30.07.22 at Sheraton Grand.
- Dr. R D Nalawade attended Three day online Training Programme on "Review of Structural Safety and Rehabilitation of Distressed Hydraulic Structures including Seismic Aspects" during 13th -15th December 2022.

STTPs/Workshops/FDPs attended by Faculty

- Dr. U R Awari, Dr. V S Chavhan & Mrs. K N Kulkarni attended two day online workshop on "Execution and Implementation of BE (Civil Engineering) 2019 Pattern subjects - Data Analytics, Coastal Engineering and Application of python in Civil Engineering" organized during 19.08.2022 to 20.08.22 by Anantrao Pawar College of Engineering, Pune
- Dr. P B Nangare completed one week program on 'Advanced Pedagogy, organized by NITTR Chennai.
- ✤ Dr. R D Nalawade attended STTP on Self- Sustainable Buildings.
- Dr. M V Waghmare attended IUCEE Student Summit 2022 during 17.09.22 to 18.09.22
- S P Khedekar and K N Kulkarni attended Online Training on "Physical & Mathematical Modeling of Reservoir & Appurtenant Structure organized by CWPRS on 2nd and 3rd August 2022
- Dr R D Nalawade attended Three day online Training Programme on "Review of Structural Safety and Rehabilitation of Distressed Hydraulic Structures including Seismic Aspects" during 13th -15th December 2022
- Dr. U R Awari attended webinar on, 'The critical foundation of signature bridge, Delhi' organized by UltraTech Cement & ICI Ghaziabad Center on 20.08.2022.
- Dr. U R Awari Attended webinar on Applications of fibers in concrete organized by QCRETE on 02.09.2022.
- Dr. R D Nalawade Attended FDP on Transforming teaching learning process.
- Prof. M S Chiwande and Prof. S A Chavan attended one day workshop on Mechanics of Structures lab organized by Sinhagad College of Engineering Vadgaon Pune on 11.08.2022
- Dr. U R Awari attended Webinar on "Need for comprehensive repair and rehab code in India" organized by Ultratech Cement on 30.07.2022
- Dr. U R Awari attended online training on "Physical and mathematical modeling of reservoir from 2.08.2022 to 3.08.2022.

Seminars/Webinars attended by Faculty

- Dr. U R Awari attended Webinar on 'Net Zero Building' organized by UltraTech Cement & ICI Ghaziabad Center on 06.08.2022 and International Webinar Series on the topic 'The Engineer of the Future - Civil Vision 2030 by Dr. Ing. Michael Bühler, HTWG Konstanz - University of Applied Science, Konstanz, Germany organized by FORCE- Forum of Civil Engineering and Department of Civil Engineering in association with office of International Affairs, Presidency University, Bangalore.
- Dr. V S Chavhan attended webinar on "The Engineer of the Future Civil Vision 2030".
- ✤ Dr. G C Chikute attended webinar on NITTTK Mix Design
- Dr. U R Awari attended webinar on, 'The lifecycle of concrete structures using piezo sensors' organized by UltraTech Cement & ICI Ghaziabad Center on 27.08.2022.
- Dr. U R Awari attended webinar on Relevance & Importance of ESG (Environment, Social Responsibility & Governance) for Sustainable Development Goals of Organization organized by UltraTech cement and ICI Ghaziabad center on 03.09.2022.
- Dr. U R Awari attended webinar on, 'Material Characteristics & Structural Applications of Engineered Cementitious Materials' organized by UltraTech Cement Ltd. & Indian Concrete Institute-Ghaziabad Centre on 10.09.2022.
- Dr. U R Awari attended inaugural session of World Green Building Week 2022 organized by Indian Green Building Council on 12 September 2022.
- Mr. P R Modak attended event organized by E-cell IIT Bombay in association with E&SD cell of AISSMS COE.
- Dr. U R Awari attended webinar on Precast Technology in Construction: Benefits, Challenges & Potential Solutions organized by UltraTech Cement Ltd.
 & Indian Concrete Institute- Ghaziabad Centre on 01.10.2022
- Dr. U R Awari webinar on 'Effect of magnetic water in concrete, organized by UltraTech Cement Ltd. & Indian Concrete Institute- Ghaziabad Centre on 08.10.2022.

Seminars/Webinars attended by Faculty

- Dr. R D Nalawade attended FDP on Geotechnical Engineering Practices from 10-14 Oct 2022.
- Dr. U R Awari attended webinar on, 'Self-Curing (Internally Cured) Concrete: A Better Solution for the Sustainable Development' organized by UltraTech Cement & ICI Ghaziabad Center on 13.08.2022.
- Dr. U R Awari attended webinar on Inside Story of Concrete Qcrete Ready mix (India) Pvt Ltd on 24.09.2022 Block Industry.
- Dr. U R Awari attended on National Building Code of India 2016 organized by National Skill Development Forum in association with The Institute of Engineers India, Pune Local Center on 14.10.2022.
- Dr. U R Awari attended webinar on 'Newly Abandoned Railway Station from Substructure to Superstructure organized by Ultra tech Cement Ltd. & Indian Concrete Institute- Ghaziabad Centre on 29.10.2022.
- Dr. U R Awari attended webinar on 'Newly Abandoned Railway Station from Substructure to Superstructure organized by Ultra tech Cement Ltd. & Indian Concrete Institute- Ghaziabad Centre on 29.10.2022.
- Dr. U R Awari attended online BOS meeting for Tulsiram Gaikwad Patil College of Engineering and Technology, Nagpur as member on 19.11.2022.
- Dr. U R Awari attended webinar on "Performance based concrete floor" organized by Ultratech Cement Ltd. on 26.11.2022.
- Ms. S P Khedekar attended ASCE Training on 30.11.22 organized by D Y Patil Institute of Technology, Pimpri.
- Dr. R D Nalawade attended IGS Pune Chapter 75th year celebrations as Executive Committee Member on 08.12.2022 at COEP technological university.
- Dr. P B Nangare attended a Builder's Day Celebration program with Expert Lecture on, " Construction Industry - Turning Waste to Wealth ", organized by BAI Pune Centre.
- Dr. D V Wadkar attended "PBL Based Learning Project Exhibition Program", organized by First Year Engineering Department on 20.07.2022.
- Dr. U R Awari attended Webinar on "Need for comprehensive repair and rehab code in India" organized by Ultratech Cement on 30/07/2022

Students Special Achievements

- ✤Mr. Tejas Bhate and Team has won 1st prize in Smart India Hackathon 2022 (Quantum GIS) at National level
- Mr. Kalpesh Patil has won 1st prize in 55th IWWA Annual Convention for Poster Competition
- Mr. Nitin Chakor has won 1st prize in 16th AISSMS Engineering Today (Intercollege Level Competition) for Civispark (Float the boat)
- Mr. Hariom and Team won 1st prize in 16th AISSMS Engineering Today (Intercollege Level Competition) for CIVISPARK (Build it Overnight)
- Mr. Aditya mor won 2nd prize in 16th AISSMS Engineering Today (Intercollege Level Competition) for Make that Pitch
- Mr. Sameep Kumbalkar won 2nd prize in 16th AISSMS Engineering Today (Intercollege Level Competition) for Civispark (Quizophile)
- ✤ Ms. Chavan Gauri won 3rd prize in Geotechnical Quiz Competition
- Ms. Ashwarya Tanpure has successfully completed the course in Design of steel & Structural Analysis from NPTEL Swayam Course
- Mr. Atharv Patil has successfully completed the course in Design of steel & Soil Mechanics and Geotechnical Engineering from NPTEL Swayam Course
- Ms. Shreya Sanjeev Yadav has successfully completed the course in Design of steel from NPTEL Swayam Course
- Mr Panpatkar Vaibhav has successfully completed the course in Design of steel from NPTEL Swayam Course
- Mr Shubham Sagar Shirgave has successfully completed the course in Design of steel from NPTEL Swayam Course
- Mr. Chinmay Rajesh Chite, has completed the training program of Staad Pro Training of 4 weeks.
- Ms. Sakshi Kulkarni has successfully completed the course in Fluid Mechanics
 & Soil Mechanics and Geotechnical Engineering from NPTEL Swayam Course
- Ms. Komal Gadekar, Pranav Jadhav and Snehal Kautkar (BE) has won 1st prize in Avishkar 22 for Project on "Eco-friendly vegetable storing structure by using optimum use of Bamboo cross sections" at College level and selected for the next round at University level under guidance of Dr. G.C. Chikute
- Mr.Pranav Gurav won Gold Medal at Mini Olympics 2023, a Maharashtra State Olympic Games in 100 mtr Athletics

Department Activities

- ✤Department of Civil Engineering submitted NBA e-SAR on 29.09.2022
- Dr. G C Chikute and Dr R D Nalawade organized site visit for BE Civil Students at PMC Hot mix Plant Yerwada for the Transportation Engineering course on 08.11.22
- Mr C R Yeole, S S Mulay and P R Modak organized a site visit at Rishabh Green Building Systems, Talegaon Dabhade for TE Civil students on 10.11. 2022
- An expert lecture of Dr. Dinkar More, Director General, WRD, Govt. of Maharashtra was organized under IWWA titled "Water and Urbanization" on 12.12.2022.
- ✤Department of Civil Engineering organized interactive session on "Entrepreneurship and Innovation as career opportunity" in association with E&SD Cell on 04.11.2022.
- M S Chiwande, S S Mulay organized Site Visit at CWPRS for SE Civil students on 24.11.2022
- ♦ Dr V N Patil organized Industry Visit for TE Civil on 3rd Nov,2022 at IITM
- Dr. S. R. Parekar published 78 vedios on YouTube channel that were useful as learning resources for various SPPU courses and competitive exams.
- Department of Civil Engineering organized seminar on IPR on occasion of Innovation week celebrations on 17.10.2022.
- Department of Civil Engineering organized programme on occasion of Teacher's day on 05.09.22 coordinated through IE(I) Students' Chapter
- Department of Civil Engineering organized a programme on occasion of Engineers day and an Expert talk on Structural Geology for Civil Engineers in association with IWWA on 15.09.2022.
- Department of Civil Engineering organized various competitions for students in association with Computer engineering Department on the occasion of Azadi ka Amrit Mahotsava as a part of IIC activity
- Mr C S Misal and M S Chiwande organized a site Visit at Garware Metro Station for SE Civil student on 07.11.22

Department Activities



Department of Civil Engineering and IWWA, Pune Centre Organized an Expert Talk on "Water and Urbanisation" by Dr. Dinkar More

Expert talk was delivered by Dr Mahesh Kakade at Department of Civil Engineering on the occasion of Engineer's Day



Department of Civil Engineering organized a an Expert talk on Structural Geology for Civil Engineers by Dr Durga Mohanty



The UNESCO INDIA – AFRICA Hackathon was organized by Ministry of Education, GOI, with 22 other countries. Our student, Mr. Tejas Bang, BE Civil (Leader TEAMSKY) got selected for this competition.