



# AISSMS

## COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi and affiliated to Savitribai Phule Pune University  
College ID No. PU/PN/Engg/093(1992)

Accredited by NAAC with Grade 'A+'



The newsletter of Department of Civil Engineering

# Concrete People

2021-2022 (Term II)

Principal: Dr.D.S.Bormane

Head of Dept.: Dr. U.R.Awari

## Editorial Board

Editors:

**Prof C S Misal**

**Tanpure Ritesh**

**Vardam Rohit**

## Our Inspiration

**Shri Shahu  
Chhatrapati Maharaj**

*President, AISSMS*



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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:



I'm glad to signify that with commencement of this year 2021 AISSMS College of Engineering has completed 29 grand years of its establishment. AISSMS COE has an outcome of academic excellence achieved, is consistently producing University gold medalists and top rankers in different 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.

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

### *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 of Civil Engineering has a strong team of highly qualified and experienced faculty members with few of them registered for Ph. D. The department has well equipped laboratories with computing facility and Interdisciplinary research centers, where research activities are executed.

#### **The following forefront areas have been identified to carry out research studies.**

- Construction Management
- Structural Engineering
- Concrete Technology
- Geotechnical Engineering
- Water Resources Engineering
- Environmental Engineering
- Transportation Engineering

The students and the faculty are actively involved in carrying out in-house research projects. Department organizes Study Circle Activity for curriculum development of students. In addition, department also organizes various events for developing extracurricular activities of students under IEI Chapter.

***Education is not preparation for life; education is life itself."***



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*The newsletter of Department of Civil Engineering*

# Concrete People

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8

## **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 for becoming successful entrepreneurs

## **Program Educational Objectives (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 to professional development through lifelong learning.

## **Program Specific 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 to address Civil Engineering problems of the society.
- PSO3: Enhance professional abilities to meet industrial need.

## **Short Term Goals**

- To augment infrastructure 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 cent percent Doctorate faculties.
- To strengthen collaboration with the reputed institutes and industries.

## *Staff Achievements*

- ❖ Mr. G C Chikute Awarded Ph.D in Civil Engineering on 11.03.2022 titled 'The stability analysis of modified gabion retaining wall with cantilever action using recycled concrete blocks', by Savatribai Phule Pune University.
- ❖ Dr D V Wadkar recognized as a Ph D Guide by SPPU
- ❖ Dr V N Patil recognized as a Ph D Guide by SPPU
- ❖ Dr V N Patil, Samkit Chhajed, Kalyani Chavne Pradnya Khapte filed and published Product Patent - REGULAR EQUAL WATER DISTRIBUTION SYSTEM on 21/01/2022
- ❖ Dr. V N Patil served as Resource person for the program of Workshop on "Intellectual Property Rights and IP management" at Pratibha Institute of Business management, Chinchwad Pune on 24.06.22
- ❖ Dr. V N Patil served as Resource person for the ATAL FDP on Design Thinking to nurture creativity and innovation leading to entrepreneurship in advanced level on 4<sup>th</sup> to 8<sup>th</sup> January 2022 conducted by Dr D Y Patil Institute of Management and Research
- ❖ Dr U R Awari served as resource person for Online Workshop on Implementation and Execution of Third Year Civil Engineering 2019 Pattern Syllabus for Seminar subject at Board of Studies Civil Engineering, BOS Civil Engg, SPPU, and APCOER, Parvati, Pune on 15.01.2022
- ❖ S P Khedekar served as resource person for Online Workshop on Implementation and Execution of Third Year Civil Engineering 2019 Pattern Syllabus for Architecture and Town Planning subject at BOS Civil Engg, SPPU, and APCOER, Parvati, Pune on 15.01.2022
- ❖ P R Modak served as resource person for Online Workshop on Implementation and Execution of Third Year Civil Engineering 2019 Pattern Syllabus for Advanced Survey subject at BOS Civil Engg, SPPU, and APCOER, Parvati, Pune on 14.01.2022
- ❖ Dr. R D Nalawade received Indo Asian Best researcher Award 2021 in recognition of the consistent superior performance in Geotechnical Engineering
- ❖ Mrs S A Chavan completed Research and publication ethics credit course organized by SPPU

## *Papers Published /Presented in Journal /conferences by Faculty*

- ❖ Dr V N Patil, Haiom Birjdar, Tejas Rokade and Sneha Bhalshankar presented a research paper on RIVER BASIN CROSSING ROAD PROFILE WITH RSGIS in the 2<sup>nd</sup> international conference on River corridor research and management on 30.05.22 to 01.06.22 organized by IIT Guwahati
- ❖ Dr V N Patil, Nipul Girase, Brahmiraaj Desai presented a Poster on Rural Sustainable Development with Solar energy options in the 2<sup>nd</sup> international conference on River corridor research and management on 30.05.22 to 01.06.22 organized by IIT Guwahati
- ❖ Dr V N Patil and Nandini Jagtap presented a research paper on “Landslide Remote sensing Data with QGIS in North-East Research conclave organized by IIT Guwahati on 20 to 22<sup>nd</sup> May 2022
- ❖ Dr U R Awari published a research paper on Stability analysis of gravity dam with I S Code method and Ansys in Innovation in Engineering and Technology (NCIET 2022) on 20th May 2022.
- ❖ Dr U R Awari published a research paper on Analysis and design of foot over bridge using steel section in Innovation in Engineering and Technology (NCIET 2022) on 20th May 2022.
- ❖ Dr U R Awari published a research paper on Experimental Investigation of concrete pavement using polypropylene fibre reinforced concrete in Innovation in Engineering and Technology (NCIET 2022) on 20th May 2022.
- ❖ Dr D V Wadkar published a research paper on Effect of hydrogen peroxide and ferrous ion on the degradation of 2-Aminopyridine, Journal of Applied Water Engineering and Research, 2022, ISSN: 23249676, Taylor & Francis, Web of Science, ESCI, Scopus, UGC
- ❖ S A Chavan published a paper on A Design of Eco-Friendly Bitumen by adding Plastic Waste in NCIET 20th May 2022
- ❖ S A Chavan published a paper on Planning and Designing of High Rise Sustainable Building in NCIET 20th May 2022
- ❖ Dr S R Parekar and Mr. C S Misal published a paper on Energy Dissipation In Buildings Using Light Weight Buckling Restrained Bracings, DICKENSIAN JOURNAL, ISSN NO : 0012-2440

## *Papers Published /Presented in Journal /conferences by Faculty*

- ❖ S. P. Khedekar published a paper on Use of Recycled Concrete Aggregate in Construction in International Journal of Engineering Inventions, ISSN: 2319-6491
- ❖ S. P. Khedekar published a paper on Partial Replacement of Cement by Ground Granulated Blast Slag (GGBS) and Addition of Activated Charcoal Powder, in Gradiva Review Journal, ISSN NO : 0363-805
- ❖ S. P. Khedekar published a paper on Deep Learning Methodologies and Applications in Artificial Intelligence: A Review in International Conference on Emerging Trends in Engineering, Science and Management (ICETESM-2021), 18th February, 2022

## *Workshops / FDPs organized by Faculty*

- ❖ Dr S R Parekar, Dr. M V Waghmare and C S Misal successfully organized Online Workshop on "Artificial Neural Networks and Its Applications in Civil Engineering" on 25.03.22
- ❖ Dr U R Awari and Prof P R Modak successfully organized Two Days Online Workshop for Syllabus Drafting of BE CIVIL 2019 Pattern in association with BOS, Civil Engg. SPPU during 30.06.22 to 01.07.22
- ❖ Dr. M V Waghmare National conference on Innovation in Engineering and Technology (NCIET) 2022 Conference on 20.05.22
- ❖ Dr S D Nagrale and S S Bhuinyan organized online workshop on "Concrete mix proportion and value added concrete" on 29.03.22 to 30.03.22
- ❖ Dr V N Patil organized Expert Talk on IPR awareness by Dr. Latika Dawara Assistant Controller, Patent Office, Mumbai on 09.03.2022

## *Webinars/Expert Talks organized by Faculty*

- ❖ M S Chiwande organized webinar on "Break the Bias" on the occasion of International Women's Day Program under IEI Pune Local Center in association with D Y Patil COE Pimpri on 08.03.22
- ❖ Dr V N Patil organized Webinar on Identifying Intellectual Property Right component at the early stage of Innovation, by Latika Dawara Assistant Controller of Patents & Design on 10.03.22
- ❖ Dr R D Nalawade organized and coordinated a program of "Inauguration of IGS Students Chapter" in which invited Guest Speaker, Mrs. Annapoorni Iyer, delivered Expert Lecture on topic IGS on 03.02.2022.
- ❖ Dr P B Nangare organized an Expert lecture of Er. Omkar Shendure Superintending Engineer, Water Resources Department, Govt. of Maharashtra on "Golden Opportunities' for Civil Engineer in Govt. Sector" on 28.03.2022
- ❖ Dr. V N Patil and P R Modak organized an Expert Session on Identifying Intellectual Property Rights component at early stage of innovation on 09.03.22

## *STTPs/Workshops/FDPs attended by Faculty*

- ❖ Dr. R D Nalawade attended One week STTP on Project based learning organized by AISSMS COE during 21.02. 2022 to 26.02.2022
- ❖ Dr. R D Nalawade attended One week Workshop on Machine learning with python organized by JJMCOE during 08.02.2022 to 12.02.2022
- ❖ Dr P B Nangare attended one week workshop on Remote Sensing and GIS organized by DYPCOE during 21.02.2022 to 25.02.2022
- ❖ Dr. D V Wadkar attended workshop on Recent trends of research in Civil Engineering organized by DYPIT during 09.03.2022 to 14.03.2022
- ❖ Mrs. K N Kulkarni attended One week STTP on Project based learning organized by AISSMS COE during 21.02. 2022 to 26.02.2022

## *STTPs/Workshops/FDPs attended by Faculty*

- ❖ Dr U R Awari attended workshop on Implementation and execution of Third Year Civil Engineering 2019 Pattern Syllabus during 13.01.22 to 15.01.22
- ❖ Dr U R Awari attended one week online STTP/Refresher Program on Project Based Learning (PBL) during 21.02.22 to 26.02.22
- ❖ S P Khedekar attended workshop on Implementation and execution of Third Year Civil Engineering 2019 Pattern Syllabus during 13.01.22 to 15.01.22
- ❖ S P Khedekar attended FDP on Latest Trend of Research in Civil Engineering during 09.01.22 to 21.01.22
- ❖ S P Khedekar attended FDP on Project Based Learning (PBL) organized by AISSMS COE during 21.02. 2022 to 26.02.2022
- ❖ C S Misal attended the conference on “3D Concrete Printer” by PCERF and L&T on 25/02/2022
- ❖ C S Misal participated in Two Weeks Training Program (STTP) for Faculty Members on AICTE Student Learning Assessment – organized by AICTE PARAKH in collaboration with Construction Industry Development Council during 07/03/2022 to 22/03/2022
- ❖ S A Chavan participated in Two Weeks Training Program (STTP) for Faculty Members on AICTE Student Learning Assessment – organized by AICTE PARAKH in collaboration with Construction Industry Development Council during 07/03/2022 to 22/03/2022
- ❖ S P Khedekar attended FDP on Recent trends of research in Civil Engineering by DYPIT during 09.03.2022 to 14.03.2022
- ❖ Dr D V Wadkar attended FDP on Energy Engineering organized by DIAT Pune during 21.02.2022 to 25.02.2022



## *Department Activities*

- ❖ Dr S D Nagrale and S Sbhuiyan organized Online workshop on “Concrete mix proportion and value added concrete” during 29.03.22 to 30.03.22
- ❖ Civil Department started value added course of 32 hours on Up-skilling of Engineers for a batch of 50 students in association with Kushal Credai from 01.02.2022.
- ❖ Site visit of BE students organized at Gunjawani Dam and Nira Deoghar Dam to study Power canal, Canal Structure and CD work Spillway and Energy dissipater on 08.04.22
- ❖ IGS Student Chapter AISSMS and IGS Pune Chapter organized Quiz Competition on 30.04.22
- ❖ C S Misal and P R Modak organized a Study tour to “Survey of India Department” for SE Civil students on 28/02/22
- ❖ Road survey project and Contour project organized for SE students at ABMSP’s Anantrao Pawar College of engineering Pune on 25.03.2022
- ❖ Site visit of TE students organized at Suncity, Sinhagad road, Pune to study rock anchoring of foundation on 17.05.2022
- ❖ Department has started IWWA students chapter and IGS students chapter from academic year 2021-22.
- ❖ Institutional membership for IGBC has been taken by the Department from academic year 2021-22.
- ❖ M S Chiwande organized lecture on "Break the Bias on 08.03.2022
- ❖ Dr R D Nalawade organized lecture on “Inauguration of IGS Students Chapter” 03.02.2022
- ❖ Dr P B Nangare organized Expert lecture of Er. Omkar Shendure Superintending Engineer, Water Resources Department, Govt. of Maharashtra on “Golden Opportunities’ for Civil Engineer in Govt. Sector” 28.03.2022
- ❖ Dr M V Waghmare organized National conference on Innovation in Engineering and Technology (NCIET) 2022 on 20.05.22

## *Students Special Achievements*

- ❖ Dr. V N Patil, Samkit Chhajed, Kalyani Chavne Pradnya Khapte filed and published Product Patent - REGULAR EQUAL WATER DISTRIBUTION SYSTEM on 21/01/2022
- ❖ Samkit Chhajed, Kalyani Chavne and Pradnya Khapte won cluster level in SPPU I-2-e (Innovation to Enterprize) competition 2021-22. Topic for startup is REGULAR EQUAL WATER DISTRIBUTION SYSTEM under the mentoring of Dr. V N Patil.
- ❖ Haiom Birjdar, Tejas Rokade and Sneha Bhalshankar presented a research paper on RIVER BASIN CROSSING ROAD PROFILE WITH RSGIS in the 2<sup>nd</sup> international conference on River corridor research and management on 30.05.22 to 01.06.22 organized by IIT Guwahati
- ❖ Nipul Girase, Brahmiraaj Desai presented a Poster on Rural Sustainable Development with Solar energy options in the 2<sup>nd</sup> international conference on River corridor research and management on 30.05.22 to 01.06.22 organized by IIT Guwahati
- ❖ Ajit Mathane, Rushikesh Lawand, Sourabh Patil, Shivraj Mulik published a paper on Use of Recycled Concrete Aggregate in Construction in International Journal of Engineering Inventions ISSN: 2319-6491
- ❖ Khushali Ekbote was awarded scholarship of Rs. 63994 by Opash Socio Commercial Pvt Ltd. Pune
- ❖ Nandini Jagtap presented a research paper on “Landslide Remote sensing Data with QGIS in North-East Research conclave organized by IIT Guwahati on 20 to 22<sup>nd</sup> May 2022
- ❖ More than 30 students of the Department were placed in various MNCs
- ❖ Samir Shanware completed Coursera Certificate on “Foundations of Project management” in Feb 2022
- ❖ Vinay Gupta completed Udemy course on Construction methodology basics in Jan 2022
- ❖ Shubham Dhanawade was Winner in group performance in Firodia Karandak 2022
- ❖ Pranav Gurav represented Khelo India University games 2022 in Athletics