

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Dr. Sachin M. Pore

Professor and Head, Department of Civil Engineering
B. E. (Civil Engineering) Shivaji University, Kolhapur
M. E. (Structures) Shivaji University, Kolhapur
Ph. D. (Earthquake Engineering – Strut. Dynamics) I. I. T. Roorkee
Phone No: 9423936380
Email:smpore@dbatu.ac.in



Research Interests:

- Earthquake Resistant Design of Structures
- Structural Analysis
- Environmental Impact Assessment
- Disaster Mitigation

Selected Recent Publications:

1. Pore S. M., Sinvhal A. and Pandey A.D., "Preliminary Report on Kashmir Earthquake of 8th Oct. 2005", A damage survey report submitted to Department of Earthquake Engineering, Indian Institute of Technology, ROORKEE 247 667
2. Pore S. M., Pandey A.D. and Sinvhal A, "Kashmir (Muzaraffabad) Earthquake of October 8, 2005: Damages to Non-Engineered Constructions", 100th Anniversary Earthquake Conference, April 18-22, 2006, San Francisco, California.
3. Pandey A.D., Pore S. M. and Sinvhal A, "Damage to the Engineered Constructions Due to Kashmir Earthquake of October 8, 2005", 100th Anniversary Earthquake Conference, April 18-22, 2006, San Francisco, California.
4. Sinvhal A., Pandey A.D. and Pore S. M., "The Kashmir Earthquake of 8th October 2005, and Landslides", 100th Anniversary Earthquake Conference, April 18-22, 2006, San Francisco, California.
5. Amita Sinvhal, Ashok D Pandey and S. M. Pore, "Landslides in the Kashmir Earthquake of 8th October 2005", Himalayan Journal of Sciences, Vol. 5, Issue 7, 2008 (special issue), pp.152-53



Professor (Dr.) S. R. Bhagat

Professor, Department of Civil Engineering

Dr. Babasaheb Ambedkar Technological University, Lonere

Experience: 28 years

Mobile No.: +91 9422353352

Email: srbhagat@dbatu.ac.in

Academic Qualifications

B.E. (Civil Engineering) Amravati University

M. Tech. (Building Science and Construction Management) IIT Delhi

Ph.D. (Structural Engineering) IIT Roorkee

Life Member - ISTE (LM- 27805), Fellow - IEI (F-1284195), Life Member - Indian Chapter of American Concrete Institute (LM -1648)

Ph.D. - 02 (completed); 04 (ongoing)

Patent - 01

Funds received - 1.75 Cr (under RUSA for equipment)

Research Interests

- Cementitious materials, high strength and high-performance concrete
- Advanced composite materials, repair, rehabilitation, and strengthening of structures
- Analysis and design of concrete structures, finite element analysis
- Artificial intelligence and machine learning applications

Recent Publications

- **Bhagat S. R.**, Mahajan, L.S., (2019). "Sustainability of using bottom ash to save natural river bed sand". International UKIERI Concrete Congress, Associate with RILEM. Organised by Dr. B.R. Ambedkar NIT, Jalandhar (Punjab) India.
- Mahadik, S. N., Mahajan, L. and **Bhagat, S. R.** (2020). "Advances in seismic strengthening materials and techniques." SMPID 2020, IOP Conf. Series: Materials Science and Engineering, 970, 012006, IOP Publishing.
- Mahadik, S. N. and **Bhagat, S. R.** (2020). "Earthquake resisting elements and techniques in high rise buildings." International Journal of Innovative Technology and Exploring Engineering, Blue Eye Intelligence Engineering & Science Publication Pvt. Ltd., ISSN: 2278-3075, Volume-9 No. 3, pp. 2928-2932.
- Mahadik, S. N. and **Bhagat, S. R.** (2020). "Study of failure and deformation characteristics of solid shear wall with diagonal stiffeners." International Journal of Advanced Research in Engineering and Technology, IAEME Publication, ISSN Print: 0976-6480 and ISSN Online: 0976-6499, Volume 11, No. 11, pp. 564-572.
- Sanjivan Mahadik, and **S. R. Bhagat** (2022) "Experimental and Numerical Study of Behaviour of RC Shear Wall Using Concealed Stiffeners". Jordan Journal of Civil Engineering, Volume 16, No. 1, 2022, pp 193-210
- Mahajan L, and **Bhagat S.** (2022), "An artificial neural network for the prediction of the strength of supplementary cementitious concrete. Research on Engineering Structures & Materials, 2022; 8(2), pp 421-430.
- Mahajan L, and **Bhagat S.** (2023), "Machine learning approaches for predicting compressive strength of concrete with fly ash admixture". Research on Engineering Structures & Materials, 2023; 9(2), pp 431- 456.
- Sanjivan Mahadik, **S.R. Bhagat**, Pravin D. Gunaware, and Vijay N. Patil, (2023), "Experimental and Numerical Study of the Behavior of RC Shear Wall with Opening Using Concealed Stiffeners". Jordan Journal of Civil Engineering, Volume 17, No. 2, 2023, pp 203 – 218.

One Page Summary of Research Area



Name: Dr. Ravindra Bhimrao Shendge
Date of Birth: 05/04/1969
Qualifications: B.E.(Civil Engg), M.E., Ph.D.
Domain and Department: Water resources and Civil Engineering
Research Area: Water Resources and Environment Engg., Structural
Organization/Institute: Fabtech Technical Campus College of Engg. & Research, Sangola.
Address: Sangola -Pandharpur Rd, A/p-Sangola, Dist-Solapur, Pin-413307
Cell Phone No&Email ID: 9325866656, rbshendge@gmail.com
No of M. Tech students completed : 08
No.of Ph.D. students ongoing : 02

Publications in Scopus/SCI Journalsonly(Attach as hyperlink):

<https://www.scopus.com/authid/detail.uri?authorId=57200436172>

<https://journal.esrgroups.org/jes/article/view/647/669>

Summary of Research Domain

Water Resources and Environment Engg., Structural, Construction Management, Smart Infrastructure.

Name & Sign

(Dr.RavindraB.Shendge)

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Full Name **Dr. Manish Sudhakar Rao Dixit**
Designation Associate Professor, MIT, Chh. Sambhajinagar
Date of Joining 14/07/1999



Educational Details

- Ph.D. Civil Engineering 31st Oct. 2013
- M.E. (Civil-Soil) First Division with Distinction (72%) Nov.-Dec. 1998
- B.E. (Civil) First Division June 1995
- Experience: 26 years
- Department: Department of Civil Engineering
- Research Area: Geotechnical and Foundation Engineering.
- Email ID: manish.dixit@mit.asia , manishsdixit@gmail.com
- Mobile Number: 9226155784 , 7276040644

Publications:

<https://vidwan.inflibnet.ac.in/profile/184442>

https://scholar.google.com/citations?user=wqU_xkkAAAAJ&hl=en

Biodata : [Full Biodata](#)

1. **Published 42 research papers** in reputed peer-reviewed journals and conferences (national and international), **Editor for** Lecture notes in Civil Engineering, Proceedings of 9IYGEC 2023 (Volume I and II) Published. (**Springer Publication**). **11 volumes of IGC 2024 are in process and will be published by Sept. 2025 in hard copy. (Springer Publication)**
2. **Actively guided Ph.D. scholars**, with 01 research scholars currently under my supervision and **02 awarded in 2023**.
3. **Lead Guest Editor**, Chair of IGC-2024 and 9IYGEC-2023 for the **special issue of Indian Geotechnical Journal** to be published in **August 2025**

One Page Summary of Research Area



Name: Dr. Sanju Ramesh Phulpagar

Qualifications: Ph.D. from Sardar Vallabhbhai National Institute of Technology, (SV NIT), Surat, Gujarat, India

Department: Civil Engineering (Water Resource Engineering)

Research Area: Civil Engineering; Water Resource Engineering; Climate Change; Trend Analyses; Statistical Analyses; Urban Flood Analyses; Flood Forecasting; Drought Analyses; Storm Water Management; Various applications in Remote Sensing and Geographic Information System; Downscaling; Groundwater Resources Management; Hydroinformatics and Decision Support Tools; Sustainable Concrete and Environmental Engineering; Urban Water Distribution & Infrastructure Planning; Interdisciplinary Strengths; etc.

Organization: People's Education Society's College of Engineering, Nagsenvana, Near Panchkki, Chhatrapati Sambhajinagar (Aurangabad), M.S. 431 002

Address: Panchakki Road, Nagsenvana, Chhatrapati Sambhajinagar (M.S.) - 431002

Cell Phone No & Email ID: +91 9767769492 | sanjup1213@gmail.com

Experience: 19 years

Publications: International Journals: 04 (SCI INDEXED); International Journals: 14 (SCOPUS INDEXED); International Book Chapters: 08 (SCOPUS INDEXED); 06 (Peer reviewed Journals); International Conferences: 15; National Conference: 01.

Dr. Sanju Ramesh Phulpagar

Assistant Professor,
Department of Civil Engineering,
P.E.S. College of Engineering, Chh.
Sambhajinagar

One Page Summary of Research Area

Name: Dr Jahagirdar Shrikant

Date of Birth: 26/09/1977

Qualifications: PhD (Civil-Environmental), M.E. (Environmental),
BE (Civil)



Domain and Department: Civil Engineering

Research Area: Civil-Environmental, Waster and wastewater treatment technologies, Solid waste management, Air pollution

Organization/Institute: Nagesh Karajagi Orchid College of Engineering and Technology, Solpaur

Address: Gut no. 16, Tuljapur road, Tale Hipparaga, Solapur- 413002

Cell Phone No & Email ID: 9423920067, 9552529267
shrikantjahagirdar@orchidengg.ac.in

No of M. Tech & PhD Students Completed & Ongoing: 02 (1)

Publications in Scopus/SCI Journals only (Attach as hyperlink):

<https://orcid.org/0000-0001-6430-6947>

<http://www.scopus.com/inward/authorDetails.url?authorID=56507085500&partnerID=MN8TOARS>

<https://scholar.google.com/citations?user=xM-SwgAAAAJ&hl=en&authuser=1>

Summary of Research Domain

- Specializes in **solid and liquid waste management**, focusing on reuse of **industrial by-products** (e.g., textile sludge, marble dust, foundry waste) in eco-friendly civil construction materials.
- Works on **sustainable wastewater treatment** solutions such as **vermifilter-based greywater treatment** and **low-cost rural sanitation models**.
- Leads multiple **MPCB- and DBATU-funded projects** on **ambient air quality monitoring, pollution control, and EIA studies**.
- Integrates **AI-based predictive modeling** in **urban water infrastructure analysis** and failure prediction systems.
- Authored 15+ **Scopus/SCI indexed publications**; received **research grants exceeding ₹2.4 Cr** as Principal Investigator or Coordinator.



(Dr Shrikant Jahagirdar)
Name & Sign

Name: Dr. Vinayak K. Patki

Date of Birth: 20/06/1976

Qualifications: B.E. Civil, ME. (Civil-Env- WCE Sangali). Ph.D-NIT Surathakal

Domain and Department: Environmental Engg- Civil Engg.



- **Research Area:**
- **Water & Wastewater Treatment:**
 - Developed innovative greywater treatment systems using vegetated vermifilters suitable for rural/onsite sanitation
 - Modeled water quality (e.g., Godavari River, municipal systems) using fuzzy logic, ANFIS, and neural networks
- **AI/ML Applications:**
 - Applied cascade feed-forward neural networks to predict water quality and compressive strength of RMC
- **Sustainable Construction Materials:**
 - Evaluated use of solid industrial wastes (textile sludge, temple waste, brick & marble residues) in burnt clay bricks

Organization/Institute : Nagesh Karajagi Orchid College of Engg & Technology, Solapur

Address: Vice-Principal & Professor in Civil Engg, Nagesh Karajagi Orchid College of Engg & Technology, Solapur, 413002

Cell Phone No & Email ID: 9552529325, vinayakpatki@orchidengg.ac.in

No of M. Tech & PhD Students Completed & Ongoing: M.Tech- 15 Completed, 05-Ongoing,
Ph.D-02 -Ongoing

Publications in Scopus/SCI Journals [Google scholar ID-](#)

<https://scholar.google.com/citations?hl=en&user=BBXCxMOAAAAJ>

[ORCID-https://orcid.org/0000-0003-4065-0676](https://orcid.org/0000-0003-4065-0676)

Web of Science ResearcherIDLDG-6172-2024

Summary of Research Domain

Dr. Patki has made significant contributions at the intersection of environmental engineering and artificial intelligence. His work emphasizes real-world implementation—rural sanitation systems, sustainable building materials, and data-driven water management. With substantial funding secured from top institutions, his research has both theoretical depth and practical utility, aligning with regional needs in Maharashtra.



Dr. Vinayak Patki

N.K. Orchid College of Engg. & Technology, Solapur

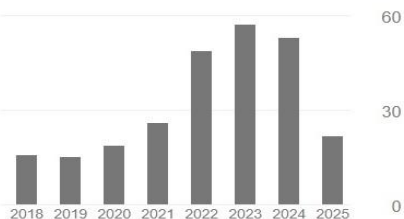
Verified email at orchidengg.ac.in

Environmental Engineering Water Quality Modelling AI&ML

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Dr. V.K. Patki
Name & Sign

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr.Abdulrashid Chand Attar

Date of Birth: 26/03/1969

Qualifications: Ph.D.(Civil Engineering)

Domain and Department: Civil Engineering

Research Area: Constructions Management, Concrete technology

Organization/Institute: Karmaveer Bhaurao Patil College of Engineering, Satara

Address: Sadar Bazar, Near RTO Office, Satara-415001

Cell Phone No & Email ID: 9970700901, principal@kbpcoes.edu.in

No of M. Tech & PhD Students Completed & Ongoing:30(M.Tech),Ph.D.(02)

Publications in Scopus/SCI Journals **only (Attach as hyperlink):**

<https://scholar.google.com/citations?user=zlyueGgAAAAJ&hl=en>



Summary of Research Domain

Construction management and concrete technology research areas often intersect, focusing on optimizing concrete's use in construction projects. This includes examining concrete's properties, exploring new materials and techniques, and improving construction processes.

Key areas of research in this intersection include:

- **Concrete Material Science:**
Studying the composition, properties, and behavior of concrete under various conditions, including environmental factors and loading conditions.
- **Concrete Durability:**
Investigating methods to improve concrete's resistance to degradation from exposure, chemicals, and other stressors.
- **Sustainable Concrete:**
Developing and implementing environmentally friendly concrete mixes and construction practices to reduce the carbon footprint of the construction industry.
- **Advanced Concrete Technologies:**
Exploring new concrete technologies like 3D printing, self-healing concrete, and smart concrete, which can improve efficiency and durability.
- **Construction Process Optimization:**
Analyzing and improving construction workflows and processes, including concrete placement, curing, and finishing, to enhance project efficiency and quality.
- **Automation and Robotics in Concrete Construction:**
Investigating the use of automation and robotics for tasks like concrete mixing, placement, and finishing, leading to increased productivity and safety.



Dr.Abdulrashid Chand Attar
Name & Sign

Dr. Babasaheb Ambedkar Technological University Lonere Raigad

One Page Summary of Research Area

Name: Dr. Hemraj Ramdas Kumavat

Date of Birth: 13/12/1981

Qualifications: PhD

Domain and Department: Civil Engineering Department

Research Area: Non-destructive testing, Concrete Technology, Carbonation of concrete, FEM, ANN Analysis for concrete, Sustainability and utilization of waste/alternative/pozzolanic material

Organization/Institute: R C Patel Institute of Technology, Shirpur

Address: R C Patel Institute of Technology, Shirpur

Cell Phone No & Email ID: 9689521450, kumavathr1981@gmail.com

No of M. Tech & PhD Students Completed & Ongoing: Nil

Publications in Scopus/SCI Journals only: 23

(<https://www.scopus.com/authid/detail.uri?authorId=57191961888>)



Summary of Research Domain

The research focuses on following both experimental and analytical methods. It includes:

1. **Concrete Testing Techniques:** Investigation of concrete properties using **Non-destructive methods** such as Rebound index (RH), Ultrasonic Pulse Velocity (UPV), and Half-cell potential, as well as **Destructive testing** like core extraction, to assess strength, durability, and corrosion potential.
2. **Carbonation of Concrete:** Study of the carbonation process in concrete, its impact on durability, and strategies for mitigation, with emphasis on service life prediction and structural integrity.
3. **Computational Modelling:** Application of **Finite Element Modelling (FEM)** and intelligent systems such as **Artificial Neural Networks (ANN)** and **Adaptive Neuro-Fuzzy Inference Systems (ANFIS)** for predicting and analysing concrete strength data and behaviour under various conditions.
4. **Sustainable Concrete Materials:** Exploration of **sustainable practices** in concrete production by incorporating **waste materials, alternative binders, and pozzolanic additives**, aiming to reduce environmental impact while maintaining or enhancing performance.
5. **Water Resources Engineering and GIS Applications:** Use of **Geographic Information Systems (GIS)** for **terrain modelling, contouring, and hydrological analysis**, aiding in watershed management, flood risk assessment, and sustainable planning of water resources.
6. **Flood Mapping and River Monitoring:** Integration of **total station and aerial drone surveying** for accurate **flood mapping and analysis**, coupled with **satellite image study** to extract **river features** and analyse **periodical changes** in river courses, water levels, and flood-prone areas.

Prof H R Kumavat