


SRES', Sanjivani College of Engineering, Kopargaon
(An Autonomous Institute affiliated to SPPU, Pune)

Staff Profile

Personal Information			
Name of Teaching Staff: SUDHIR BHASKARRAO GAYAKE			
Designation: Assistant Professor			
Department : Civil Engineering			
Date of joining : 01/06/2015			
E Mail ID :		gayakesudhircivil@sanjivani.org.in, sudhirgayake@gmail.com	
Contact No:		+919421838130	
Education Details			
Qualification	Specialization with Class or Grade	University	Year
UG	Civil-1st Class	SPPU PUNE	2009
PG	Structures-1st Class	SPPU PUNE	2013
Ph.D	Pursuing	SVNIT SURAT	2020 Registered
Total experience in years:			
Teaching:		09 Years	
Industry:		01 Year	
Research and Publications: 07			
<div>1. Anuja S. Jape, Sudhir B. Gayake, Dr. Pravinchandra Dhake, “Structural behavior of beam column joint retrofitted using carbon fiber reinforced polymer” Journal of Materials and Engineering Structures, Vol 8, No 1 (2021) http://revue.ummto.dz/index.php/JMES/article/view/2471/pdf</div> <div>2. Sudhir B. Gayake, Dr. Atul K. Desai, “A Literature Review Identifying the Scope for the Utilization of Waste PET bottle fibers in Concrete for Enhancing Structural Properties” Book Chapter 45- Lecture Notes in Civil Engineering, Vol.222,B. Springer Nature-978-981-16-8495-1, Feb2022. https://link.springer.com/book/9789811684968</div> <div>3. Gayake, S.B., Desai, A.K. Multi-criteria decision making tool for sustainable concrete production using waste polyethylene terephthalate bottle cap aggregates. Smart Constr. Sustain. Cities 2, 7 (2024). https://doi.org/10.1007/s44268-024-00031-9</div> <div>4. Gayake, S., Desai, A., & Kute, S. (2024). Optimizing Concrete Mixtures through Multi-Criteria Decision Making: A Focus on Splitting Tensile Strength in Partially Set Concrete. Journal of Materials and Engineering Structures « JMES », 11(2), 143-154. Retrieved from https://revue.ummto.dz/index.php/JMES/article/view/3504</div> <div>5. Gayake, S.B., Desai, A.K. Innovative solutions for potential use of waste polyethylene terephthalate bottle cap as aggregates in concrete. Innov. Infrastruct. Solut. 9, 314 (2024). https://doi.org/10.1007/s41062-024-01623-1</div> <div>6. Gunjal, S. M., Sayyad, A. S., Kolapkar, S. S., & Gayake, S. B. (2024). A four unknown non-polynomial theory for the free vibration of angle-ply plates. Progress in Engineering Science, 1(2–3),</div>			

100012. <https://doi.org/10.1016/j.pes.2024.100012>

7. Turkane, S. D., Chouksey, S. K., Nawale, A. V., Sahu, R. T., **Gayake, S. B.**, & Gunjal, S. M. (2024). Utilization of copper slag as fine sand replacement in concrete: A response surface methodology approach. Discover Civil Engineering, 1(129). <https://doi.org/10.1007/s44290-024-00135-2>

Papers presented in conferences: 03

1. **Sudhir B. Gayake**, Dr. Sunil Y. Kute, “Variation of Strength in Stained Concrete” International Conference on Advances in Concrete Technology, Materials and Construction Practices(CTMC 2016), Goa College of Engineering, Goa, 22-24 June 2016.
2. **Sudhir B. Gayake**, Dr. Sunil Y. Kute, “Experimental validation and correlation of compressive strength of stained concrete subjected to delays in casting” 2nd International Conference on Advances in Concrete, Structural and Geo-technical Engineering(ACSGE2018), BITS Pilani, RJ, 26-28 Feb-2018.
3. Shubham Jadhav, **Sudhir Gayake**, Saiprasad Gaikwad, Rushikesh Kasar, Pravin Parhe & Atul Desai, “A multi-criteria decision-making study on impact strength properties of concrete with waste polyethylene terephthalate bottle addition” Recent Advances In Infrastructure Development (RAID-2024), NIT Calicut, February 12-13, 2024.

Research Profile URL

Google Scholar

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

Scopus

Orcid

<https://orcid.org/0000-0003-2792-4038>

Other Research Details

Ph D Guide ?Give field & University:

NA

Ph Ds/ Projects Guided:

NA

Books Published

NA

IPRs/Patents

Process patent= 01 Applied
Design patent= 04 Applied (2024) & 15 Obtained (Jan' 2025)

Professional Memberships:

- Life Member of Association of Structural Rehabilitation (Membership No.A300307 w.e.f. 23/04/2019)
- Student member of American Society of Civil Engineers from June 2020
- Life member of The Institute of Engineers (India) Ahmednagar Local Chapter (Membership No.M-1787521 w.e.f. 14/09/2023)

Interaction with professional institutions	Research Scholar at Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology , Surat, Gujrat.
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Consultancy Activities:

Duration	Title of Activity	Issued Organization	
April-July 2024	Material Testing and A	TOM	

	u d i t i n g		
Grants fetched: Nil			
Duration	T i t l e	Issued Organization	
Awards : Nil			
<p>Promising Engineer Award by The Institutes of Engineers (India) Ahmednagar Local Chapter on the occasion of 26th Engineers Day in recognition of remarkable performance and achievement in the engineering field dated 18/09/2024.</p> <p>NPTEL Discipline Star award by NPTEL(IIT Madras) in July-Dec 2024 term on completing 50+ weeks courses having scores >=55.</p>			
FACULTY DEVELOPMENT PROGRAMMES ATTENDED			
Name of the FDP / Workshop	Organization	Duration	Month-Year
Recent Advances in Durability of Concrete(RADC2015)	TEQIP-II, SVNIT Surat	One Week	9-11 Oct 2015
Life Long Researcher (LLR-II 2016)	TEQIP-II, SVNIT Surat	One Week	19-23 Dec 2016
Present Scenario of treatment of waste in India: Challenges, Issues and New techniques of Treatment	SCOE, Kopargaon	Two Week	13-25 Nov 2017
Water conservation through ferrocemet technique	Ferrocement Society of India, SCOE Kopargaon	One Day	28 Aug 2019
Construction Technology-White Topping Roads	AICTE- ATAL (RGUKT)	One week	7-9 Sep 2020
Advanced Design of Steel Structures	AICTE-TEQIP-III	One Week	21-25 Dec 2020
Novel Advances in Ingredients of Sustainable Construction Materials	IEI, Gujrat & GUJCOST, LDE COE,Ahmedabad	One Week	1-5 June 2021
Research Development and Innovation Ethics	NDMVP's KBTCOE Nashik	3 Days	17-19 May 2021
Recent Advances in Structural Engineering	Hindustan ITS, Chennai	One Week	20-24 June 2022

“Advanced Excel for Data Analytics- Hands on”	PCCOE, Ravet Pune	One Week	7-12 Aug 2023
“Publication, Projects and Patents”	Aditya Engineering College (A)	One Week	7-12 July 2023
Design of Steel Structures using IS 800:2007	DY Patil COE, Pune	One Week	26-30 Aug 2024

FACULTY DEVELOPMENT PROGRAMMES ORGANIZED: Nil

Name of the FDP / Workshop	C r g a n i z a t i o n	Duration	Month- Year	

INVITED LECTURES IN CONFERENCE/SEMINAR:Nil

Title of Lecture/ Academic Session	T i t l e o f C o n f e r e n c e / S	Organized By

	e n i n a r e t c .	

OTHER Professional URLs	
Personal Website	---
Linked In Profile	https://www.linkedin.com/in/sudhir-gayake-1a034565/
GitHub URL	---
YouTube Channel	https://www.youtube.com/channel/UCFckiqr-WqOsd9rdCv6zWcg
Other	---

Any Other: