

Faculty Name: Dr. Prashant Sunagar

Designation : Associate Professor

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BIO

Currently working as an Associate Professor in Civil Engineering Dept, Sandip Institute of Technology and Research Centre, Nashik, hold a Ph.D. from Visvesvaraya Technological University (VTU). My academic trajectory spans over a decade, including a significant tenure as Assistant Professor and Training and Placement officer at Sanjeevani College of Engineering, Koppargoan, and 11 years of teaching experience at Ramaiah Institute of Technology, Bengaluru. My achievements include securing 20 lakh in research funding, publishing 51 high-impact papers, and presenting at 33 international conferences. With 85 granted and 30 applied Indian Design Patents, I've contributed to innovation in civil engineering. My involvement with the NBA, NIRF, and IQAC Head has been instrumental in elevating educational standards, and I received the Innovation Global Scientific Research Educationalist Award (2022).

Qualification:

- B. E. (Civil Engineering)
- M. Tech. (Structural Engineering)
- PhD (Civil Engineering Sciences)

Experience:

- Teaching experience: 13 Years
- Research experience: 08 Years
- Industry experience: 01 Years

Subjects:

- Earthquake Engineering
- Concrete Technology
- Rehabilitation of Structures
- Elements of Civil Engineering



DEPARTMENT/INSTITUTION: CIVIL ENGINEERING Area of Specialization STRUCTURAL ENGINEERING

PERSONAL DETAILS	NAME IN FULL		PRASHANT		SUNAGAR	
		 FIRST	 SURNAME	
	Permanent Address			Address For Communication		
	# 220/3, Pratiksha Building, Rani Chennamma Nagar, Dharwad PIN: 580 001			House No. 13/1, 15 th Cross, Bandappa Garden Muthyalanagar Landmark - JP Park Back gate Bangalore - 560 054		
	Date Of Birth:	Nationality:		Sex	Marital Status:	
27/ 01/ 1986	Indian		Male	Married		
Name Of Parent:	Mother Tongue:		Contact Details			
Chandrashekhar S	Kannada		Mobile No: +91 9900048290			
Languages Known			E-Mail : prashant.sjce@gmail.com			
To Speak : English, Kannada, Hindi,			Tel No. (Res): 9448371055			
To Read : English, Kannada, Hindi, Marathi			Alternative contact details: 7349693551			
To Write : English, Kannada, Hindi						
ACADEMIC QUALIFICATIONS	#	Details of Qualifications with specialization, if any (X Std. onwards)	Institution/University were studied	Month and Year of acquiring. Qualification	Class / Grade	Attempt of Passing
	1	SSLC	Karnataka Secondary Education Examination Board	March 2001	First Class	1
	2	BE (Civil Engineering)	Sri Jayachamarajendra College of Engineering (SJCE) Visvesvaraya Technological University (VTU)	2008	Second Class	1
	3	M Tech (Structural Engineering)	M.S. Ramaiah Institute of Technology (MSRIT) Visvesvaraya Technological University (VTU)	2011	Distinction	1
	4	Ph.D. (Civil Engineering Sciences)	Visvesvaraya Technological University (VTU)	2022	---	1

CURRICULAR ACHIEVEMENTS:

- ❖ NBA Evaluator
- ❖ NBA Coordinator for PG Structural Engineering
- ❖ Nodal Center Head for IIRS-ISRO Outreach Programme
- ❖ Got Research funding amounts to 20 Lakh from State level and Central DST
- ❖ Worked as NIRF and IQAC Coordinator for Civil dep from past 4 years helping college to secure 75th Rank in All India NIRF ranking in Engineering.
- ❖ Presently Working as Dean of Training and Placement
- ❖ Department coordinator for college website
- ❖ Upgradation of Concrete and Structural Engineering Laboratory- MSRIT
- ❖ New Laboratory set-up of Remedial Engineering and Earthquake Engineering Laboratory for M. Tech Structures at MSRIT
- ❖ Department coordinator for NPTEL
- ❖ Joint Secretary for the International Conference-ICRAES RIT 2020
- ❖ Board of Examiner for both UG and PG in Ramaiah Institute of Technology
- ❖ Worked for National Board of Accreditation (NBA) in both UG and PG Structural Engineering
- ❖ Worked in Committee constituted to assist NBA team visit.
- ❖ ISTE Student Chapter College level Coordinator
- ❖ As a Recipient of the Innovation Global Scientific Research educationalist award by Innovative Scientific Research Professional. Malaysia
- ❖ Board of studies Member for MTech CAD structures in PES college of Engineering Mandya
- ❖ Main Coordinator for Faculty Development Programme on “Sustainability Concepts in Civil Engineering & Architecture” 20th - 25th July 2020 Organized by Civil Engineering Department and School of Architecture MSRIT

PROJECT GUIDED

UG (Civil)	22 Projects
PG MTech (Structures)	28 Projects

COMPUTER KNOWLEDGE & SOFTWARES

- Comfortable with Microsoft Windows and Microsoft office, Mac OS X
- ANSYS
- STRAAD-Pro V8i
- Fundamentals of AutoCAD, STRAP,
- Primavera,
- CSI ETABS
- CSI SAP2000
- CSI SAFE

COURSES TAUGHT: UG & PG

WORK EXPERIENCE									
		Organization with full address	Period (MM/YYYY)			Designation & nature of work (temporary/part-time/full time/contract)	Reason for leaving the post		
			From	To	Duration				
		1	Sandip Institute of Technology and Research Centre Nashik	17/05/2024	Present	----	Associate Professor IQAC Head NBA Coordinator		
		2	Sanjivani College of Engineering	03/01/2023	16/05/2024	1 Year 5 Months	Assistant Professor Dean of Training & Placement	Higher Position	
		3	M.S.Ramaiah Institute of Technology Bengaluru-560054 Karnataka (NIRF Rank – 78) 1st Rank Private Engineering college in Karnataka	21/01/2012	25/12/2022	10 Years	Assistant Professor Full time	To pursue Masters. MTech in Structural Engineering	
	4	SDM College of Engineering and Technology	15/01/2011	20/01/2012	1 Year	Assistant Professor Full time	Better college		
	5	SOBHA Developers Ltd. Mysuru, Karnataka 570016	14/07/2008	07/08/2009	1 Year	Technical Assistant Full time	First Job		
RESEARCH									
		#	Number of Research Publications				Indexed	Non Indexed	
		Journals:							
		1	H.N. Harsha, “Experimental Investigation Into The Mechanical & Durability Characteristics Of Alkali Activated Slag Concrete With Partial Replacement Of Waste Marble Powder And Bagasse Ash Powder Under Ambient Temperature Curing”, kuey, vol. 30, no. 5, pp. 4035–4043, May 2024.				Q4		
	2	Basavaraja Simpi, “Developing a Model for the Identification of Onset of Failure of Slopes in Surface Mines”, kuey, vol. 30, no. 4, pp. 9767–9772, Apr. 202				Q4			

	3	“Effect Of Oil Contamination On Bearing Capacity And Slope Stability Of Cohesive And Cohesionless Soils“ Sumalatha J, Jyothi M. R , Suchita Wali , Mahesh Kumar C L, Raghu.K And Prashant Sunagar*,DOI: 10.17648/acta.scientiae.6385, Acta Scientiae, 07(1), 496-507, June. 2024	Q3	
	4	“ Effect Of Terrain Profile On The Lateral Earth Pressure Of Different Soils“Sumalatha J , Jyothi M. R 2, Basavanagowda G.M3, Mahesh Kumar C L4, Basavaraja Simpi,Prashant Sunaga* DOI: 10.17648/acta.scientiae.6387, Acta Scientiae, 07(1), 496-507, June. 2024	Q3	
	5	Bhargavi C.; Sreekeshava K. S.; Sunagar, Prashant, “Mechanical Properties of Steel and Polypropylene Fiber Reinforced Geopolymer Concrete”, Journal of Mines, Metals & Fuels. Jul2023, Vol. 71 Issue 7, P984-989. 6p.	Q4 Scopus	
	6	T. Sathish, Prashant Sunagar, Vikash Singh, “Characteristics Estimation of Natural Fibre Reinforced Plastic Composites Using Deep Multi-Layer Perceptron (Mlp) Technique”, Chemosphere, Volume 337,2023, 139346, Issn 0045-6535, https://doi.org/10.1016/J.Chemosphere.2023.139346 .	Q1 SCI	
	7	N. Suganya1. Priya Rachel, P. Sunagar”, “Exploring the Performance of Voided Concrete Slabs Utilizing Geopolymer Technology”, Journal of The Balkan Tribological Association Vol. 29, No 3, 119–128 (2023)	Q3 Scopus	
	8	R. Shivashankar, K. Vetri Velmurugan, Prashant Sunagar, “Exploring the Performance of Voided Concrete Slabs Utilizing Geopolymer Technology”, Journal of The Balkan Tribological Association Vol. 29, No 3, 119–128 (2023)	Q3 Scopus	
	9	Vishal Swami, Prashant Sunagar, “Design and Development of 3 Axis 3D Printing of Sustainable Concrete Structures and Characterization of Affordable Housing Solutions”, Tuijin Jishu/Journal of Propulsion Technology ISSN: 1001-4055 Vol. 44 No. 3 (2023)	Q3 Scopus	
	10	Modeling and Optimization of MRR in Wire Electrical Discharge Machining of Silicon Particle-Reinforced AA6063 Composite” by CR Mahesha, R .Suprabha, NPG Bhavani, Prashant Sunagar,Advances in Materials Science and Engineering Volume 2022, Article ID 2594974. https://doi.org/10.1155/2022/2594974	Q2 SCI	
	11	Alrebd, T. A., Gopinathan, R., Sunagar, P., Prabu, R. T., Kivade, R., Gous, M. Z., ... & Tesemma, B. G. (2022). Optimization on Powder Metallurgy Process Parameters on Nano Boron Carbide and Micron Titanium Carbide Particles Reinforced AA 4015 Composites by Taguchi Technique. <i>Journal of Nanomaterials</i> , 2022.	Q2 SCI	
	12	Kumar, R., Gous, M. Z., Surakasi, R., Raghuram, K. S., Sunagar, P., Kumar, N. S. (2022). Investigation of Curing Mechanism and Mechanical Properties of Polypropylene/Aliphatic Epoxy Composites. <i>Advances in</i>	Q2 SCI	

		<i>Polymer Technology, 2022.</i>		
	13	Mahesha, C. R., Deshmukh, R. G., Sunagar, P., Chandrasekaran, M., Kumar, B. S., Pratyush, K. (2022). Experimental Analysis on Tribological Characteristics of AZ60A/Gr/BN Magnesium Composites. <i>Journal of Nanomaterials, 2022.</i>	Q2 SCI	
	14	Raman, V. V., Kumar, P. S., Sunagar, P., Bommanna, K., Vezhavendhan, R., Bhattacharya, S. (2022). Investigation on Mechanical Properties of Bamboo and Coconut Fiber with Epoxy Hybrid Polymer Composite. <i>Advances in Polymer Technology, 2022.</i>	Q2 SCI	
	15	Sunagar, P., Hemavathy, S., Nagashree, B., Jayakumar, M., & Sumalatha, J. (2021). Experimental Investigation On Properties Of Concrete Using Lime Sludge As Partial Replacement. <i>NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal/ NVEO, 14949-14962.</i>	Q3	
	16	Santosh, D., & Sunagar, P. (2021). Utilization Of Paper Industry Residue For Producing Supplementary Cementation Material In Concrete-Based On Experimental Investigation. <i>NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal/ NVEO, 14963-14973.</i>	Q3	
	17	Vinod, B. R., Kumari, T. G., Santhosh, D., & Nayak, P. S. S. G. (2021). Improvement of Loose Red soft soils using Aluminium foil encased stone columns. <i>NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal/ NVEO, 5134-5145.</i>	Q3	
	18	Sunagar, P., Vinod, B. R., Nayak, S. G., Mahesh Kumar, C. L., Shwetha, K. G., Sumalatha, J., & Shreedhar, K. R. (2021). Investigation of Wastepaper Cellulosic Fibers Utilization into Cement Based Building Materials. <i>NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal/ NVEO, 3076-3087.</i>	Q3	
	19	Vinod, B. R., Sumalatha, J., Jyothilakshmi, R. Sunagar, P. CL, M. K., & Shwetha, K. G. (2021). Enhancing the Index and Engineering Properties of Urban Fills by Stabilizing with Cement, Lime and Bagasse Ash. <i>NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal/ NVEO, 3101-3113.</i>	Q3	
	20	Sunagar, P., Sumalatha, J., Mahesh Kumar, C. L., Shwetha, K. G., Sanjith, J., & Kiran, B. M. (2021). Strength and Durability Behaviour of Fly Ash Based Geopolymer Concrete in Structural Applications. <i>NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal/ NVEO, 3088-3100.</i>	Q3	
	21	Sunagar, P., Kumari, T. G., Jyothilakshmi, R., Mahesh Kumar, C. L., Shwetha, K. G., Sumalatha, J., & Naveen, G. M. (2021). Sustainable Medium Strength Geopolymer with Fly Ash and GGBS as Source Materials. <i>NVEO-NATURAL</i>	Q3	

		<i>VOLATILES & ESSENTIAL OILS Journal/ NVEO</i> , 3114-3124.		
	22	Nayak, S. G., Mahesh Kumar, C. L., Sunagar, P., Shwetha, K. G., Sanjith, J., Sumalatha, J., & Kiran, B. M. (2021). Use of Fly Ash and GGBS with Alkaline Solution based Geopolymer. <i>NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal/ NVEO</i> , 3125-3134.	Q3	
	23	Sunagar, P., Nayak, S. G., & Vikas, K. C. (2021). Analysis and Design of Water Storage Tank. <i>Design Engineering</i> , 13576-13602.	Q4	✓
	24	Sunagar, P., Nayak, S. G., & Jyothi, M. R. (2021). Analysis and Design of Water Treatment Plant Elements. <i>Design Engineering</i> , 13544-13575.	Q4	✓
	25	Sunagar, P. (2021). Seismic vulnerability and Resilience of Steel-Reinforced Concrete (SRC) and Composite Structures. <i>Design Engineering</i> , 11455-11469.	Q4	✓
	26	Sunagar, P., Kumari, T. G., Rajegowda, A. H. B., & Dharek, M. S. (2021). Innovative Design Approaches for the Seismic Response Control of Tall Buildings by Various Interior and Exterior Structural Forms. <i>NEW ARCH-INTERNATIONAL JOURNAL OF CONTEMPORARY ARCHITECTURE</i> , 8(2), 468-478.	Web of Science	
	27	Sunagar, P., Rao, K. R., Sreekeshava, K. S., Bhashyam, A., Dharek, M. S., & Nagashree, B. Analytical and Finite Element Post Buckling Analysis of Isotropic Steel Plate Subjected to the in-Plane Loading.		✓
	28	Sunagar, P., Gowda, R. S., Dharek, M. S., & Sreekeshava, K. S. Sustainable Structural Retrofitting of RC Building By Non-Linear Static Analysis.	✓	
	29	Rana, A. B., Mr Shubhesh Bista, and Mr Prashant Sunagar. "Analysis of Tuned Liquid Damper (TLD) in controlling earthquake response of a building using SAP2000." <i>Int Res J Eng Technol</i> 5, no. 10 (2018): 79-96.	✓	
	30	Sumalatha J , Mahesh Kumar CL , Prashant Sunagar , Studies on Contaminated Mine Soil and Its Remediation Using Soil Washing Technique - A Case Study on Soil at Kolar Gold Fields, <i>IJE TRANSACTIONS A: Basics</i> Vol. 35, No. 01, (January 2022), 201-212	Q2 Scopus	
	31	Sumalatha J, Mahesh Kumar C L, Prashant Sunagar and Shwetha K G, Design of Soil Remediation Techniques from Column Leaching Test Results, <i>IJE TRANSACTIONS B: Applications</i> Vol. 35, No. 02, (February 2022) 344-350	Q2 Scopus	
	32	Numerical Investigations on Steel Plate Shear Walls – Stiffened and Un-stiffened by Prashant Sunagar and Priya, Publication date 2015/8, <i>International Journal of Innovative Research in Science, Engineering and Technology</i> , Volume 4, Issue 8 Pages 7156-7165		✓

	33	Blast Analysis Of A 3d Steel Frame Structure Jyothi M R, Dr. H U Raghavendra, Prashant C Sunagar, International Journal Advanced Research Engineering a Technology (IJARET) of in nd Volume 11, Issue 12, December 2020, pp.2518-2539, Article ID: IJARET_11_12_238. ISSN Print: 0976-6480 and ISSN Online: 0976-6499 DOI: 10.34218/IJARET.11.12.2020.238		✓
	34	Effect Of Axial Shortening and Flexural Rigidity In RC Buildings Using Non Linear Finite Element Method Jagadish Vengala, Prashant Sunagar, International Journal of Advanced Research in Engineering and Technology (IJARET) Volume 11, Issue 12, December 2020, pp. 2506-2517, Article ID: IJARET_11_12_237 ISSN Online: 0976-6499 DOI: 10.34218/IJARET. 11.12.2020.237		✓
	35	Analytical and Finite Element Post Buckling Analysis of Isotropic Steel Plate Subjected to the in-Plane Loading, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-5, January 2020		✓
	36	Instability Analysis of Plates Using Abaqus, Aravind Bhashyam and Prashant Sunagar, Publication date 2017 Conference Advances & Trends in Civil Engineering” ATCE, Pages 223-228, Publisher ISBN: 978-93-87769-06-9	✓	
	37	Sumalatha J, Niranjan G.H. Prashant, Development of Sustainable Building Blocks with Tyre Waste, Flyash And Lime, International Journal of Civil Engineering and Technology (IJCIET)Volume 11, Issue 5, May 2020, pp. 93-104, Article ID: IJCIET_11_05_009. ISSN Print: 0976-6308 and ISSN Online: 0976-6316		✓
	38	Numerical Investigation on Concrete Shear Wall with Different Percentages of Openings, Prashant Sunagar 2015/7, International Research Journal of Engineering and Technology (IRJET), Volume 2, Issue 4, Pages 1407-1414		✓
	39	Dynamic Response Of 3D Steel Frame, prashant Sunagar, Publication date 2014/. International Journal of Scientific & Engineering Research, Volume 5, Issue 6, ISSN 2229-5518	✓	
	40	Studies on Influence of Feldspar Activator on Slag Based Geo Polymer Concrete, Nagashree B, Prashant Sunagar, Raje Gowda, International Journal of Civil Engineering and Technology (IJCIET), Volume 11, Issue 6, June 2020, pp. 53-61, Article ID: IJCIET_11_06_007 ISSN Print: 0976-6308 and ISSN Online: 0976-6316		✓
	41	Basavanagowda G M, Raje Gowda, Prashanth Sunagar, Manish S D “Seismic Response of Steel Braced Vertically Irregular RC Frame Considering Soil Structure Interaction”. International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-5, January 2020		✓

Conferences :

1	V Sai Neeraja, Vinayak Mishra, C. Pramukh Ganapathy, Prashant Sunagar, D. Pavan Kumar, Lukesh Parida, Investigating the reliability of nano-concrete at different content of a nano-filler, <i>Materials Today: Proceedings</i> , 2022, ISSN2214-7853, https://doi.org/10.1016/j.matpr.2022.08.18	✓	
2	V Sai Neeraja, Vinayak Mishra, C. Pramukh Ganapathy, Prashant Sunagar, D. Pavan Kumar, Lukesh Parida, Investigating the reliability of nano-concrete at different content of a nano-filler, <i>Materials Today: Proceedings</i> , 2022, ISSN2214-7853 https://doi.org/10.1016/j.matpr.2022.08.184 .	✓	
3	Investigating Conventional Concrete using Rice Husk Ash (RHA) as a Substitute for Finer Aggregate Suganya Natarajan ¹ , Syed Hamim Jeelani ² , Prashant Sunagar ³ , Sushilkumar Magade ⁴ , Sahil Sanjeev Salvi ⁵ and Sumanta Bhattacharya Published by IOP Publishing Ltd. <i>Journal of Physics: Conference Series</i> , Volume 2272, International Conference on Design, Manufacturing and Materials Engineering - ICDMME 2021 10/03/2022 - 11/03/2022 Coimbatore, India	✓	
4	Enhancing the Mechanical Characteristics of the Traditional Concrete with the Steel Scrap by N Venugopal ¹ , L Emmanuel ² , Prashant Sunagar ³ . Published under license by IOP Publishing Ltd, <i>Journal of Physics: Conference Series</i> , Volume 2272, International Conference on Design, Manufacturing and Materials Engineering - ICDMME 2021 10/03/2022 - 11/03/2022 Coimbatore, India	✓	
5	Kannan, G. R., Vijayakumar, B., Senthil, T. S., Sunagar, P., Kumar, R. R., Parida, L., & Subbiah, R. (2022). Optimization and electro chemical grinding surface investigation on eglin steel. <i>Materials Today: Proceedings</i> .	✓	
6	Dharek, M. S., Vengala, J., Sunagar, P., Sreekeshava, K. S., Kilabanur, P., & Thejaswi, P. (2022). Biocomposites and Their Applications in Civil Engineering—An Overview. <i>Smart Technologies for Energy, Environment and Sustainable Development, Vol 1</i> , 151-165.	✓	
7	Vengala, J., Dharek, M. S., Sunagar, P., Sreekeshava, K. S., Pramod, K., Baliga, D. (2022). Flood Damages Assessment Using Remote Sensing and GIS: A Case Study of 2018 Kodagu Floods. In <i>Advanced Modelling and Innovations in Water Resources Engineering</i> (pp. 463-475). Springer, Singapore.	✓	
8	Dharek, M. S., Sreekeshava, K. S., Vengala, J., Pramod, K., Sunagar, P., & Shivaprakash, M. V. (2022). Experimental investigations on utilization of bagasse ash in adobe bricks. In <i>Sustainability Trends and Challenges in Civil Engineering</i> (pp. 487-496). Springer, Singapore.	✓	

	9	Dharek, M. S., Sunagar, P., Sreekeshava, K. S., Nagashree, B., Thejaswi, P., Kilabanur, P., ... & Satish Chandra, C. (2021). Experimental investigations on strength performance of the brick produced by blending demolished waste with pozzolanic materials. In <i>Advances in Sustainable Construction Materials</i> (pp. 573-583). Springer, Singapore.	✓	
	10	Kilabanur, P., Dharek, M. S., Sunagar, P., Sreekeshava, K. S., & Thejaswi, P. (2020, November). Enhancing Index and Strength Properties of Black Cotton Soil using Combination of Geopolymer and Flyash. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 955, No. 1, p. 012061). IOP Publishing.	✓	
	11	Sunagar, P., Dharek, M. S., Nruthya, K., Sreekeshava, K. S., Nagashree, B., & Ramegowda, R. S. (2020, November). Non-Linear Seismic Analysis of Steel Plate Shear Wall Subjected to Blast Loading. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 955, No. 1, p. 012025). IOP Publishing.	✓	
	12	Sunagar, P., Bhashyam, A., Dharek, M. S., Sreekeshava, K. S., & Rakshith, K. (2020). Instability Analysis of Fiberglass Reinforced Plastic (FRP) Subjected to the In-Plane Loading. In <i>Emerging Technologies for Sustainability</i> (pp. 473-476). CRC Press.		✓
	13	Nair, Avinash, S. D. Aditya, R. N. Adarsh, M. Nandan, Manish S. Dharek, B. M. Sreedhara, Sunagar C. Prashant, and K. S. Sreekeshava. "Additive Manufacturing of Concrete: Challenges and opportunities." In <i>IOP Conference Series: Materials Science and Engineering</i> , vol. 814, no. 1, p. 012022. IOP Publishing, 2020.	✓	
	14	Rao, K. R., Sreekeshava, K. S., Dharek, M. S., Sunagar, P. C., & Ganesh, C. R. (2020, March). Spatial variation of climate change issues using remote sensing technique. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 814, No. 1, p. 012042). IOP Publishing.	✓	
	15	Sunagar, P., Bhashyam, A., Dharek, M. S., Sreekeshava, K. S., Ramegowda, R. S., & Lakshmi, H. S. (2020, March). Blast resistance of steel plate shear walls designed for seismic loading. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 814, No. 1, p. 012041). IOP Publishing.	✓	
	16	Dharek, M. S. (2020). Development of sustainable building blocks with tyre waste, flyash and lime. <i>Technology</i> , 11(5), 93-104.	✓	
	17	Dharek, M. S., Sunagar, P. C., Kadalli, M. V., Sreekeshava, K. S., & Pujar, A. G. (2021). Assessment of solar power potential mapping in Telangana state using GIS. <i>Trends in Civil Engineering and Challenges for Sustainability</i> , 865-880.	✓	

	18	Sunagar, P., Bhashyam, A., Shashikant, M., Sreekeshava, K. S., & Chaurasiya, A. K. (2021). Effect of Different Base Isolation Techniques in Multistoried RC Regular and Irregular Building. <i>Trends in Civil Engineering and Challenges for Sustainability</i> , 391-403.	✓	
	19	Dharek, M. S., Sunagar, P., Harish, K., Sreekeshava, K. S., & Naveen, S. U. (2020). Performance of Self-flowing Concrete Incorporated with Alumina Silicates Subjected to Elevated Temperature. In <i>Advances in Structural Engineering</i> (pp. 111-120). Springer, Singapore.	✓	
	20	Rao, K. R., KS, S., Dharek, M. S., & Sunagar, P. (2019, May). Raster Least Cost Approach for Automated Corridor Alignment in Undulated Terrain. In <i>Proceedings of the Second International Conference on Emerging Trends in Science & Technologies for Engineering Systems (ICETSE-2019)</i> .	✓	
	21	Sunagar, Prashant, Aravind Bhashyam, B. R. Neel, and Abhishek Kumar Chaurasiya. "Sustainability concepts in the design of tall structures." In <i>International Conference on Emerging Trends in Engineering (ICETE)</i> , pp. 270-277. Springer, Cham, 2020.	✓	
	22	Dharek, Manish S., Prashant Sunagar, K. V. Bhanu Tej, and S. U. Naveen. "Fresh and hardened properties of self-consolidating concrete incorporating alumina silicates." In <i>Sustainable Construction and Building Materials</i> , pp. 697-706. Springer, Singapore, 2019.	✓	
	23	Sunagar, P., & Shivananda, M. S. (2012, June). Evaluation of Seismic Response Modification Factors for RCC Frames by Non-Linear Analysis. In <i>International Conference on Advances in Architecture and Civil Engineering</i> (pp. 322-327).	✓	
	24	Instability Analysis of Fiberglass Reinforced Plastic (FRP) Subjected to the In-Plane Loading Authors Prashant Sunagar, Aravind Bhashyam, Book on Emerging Technologies for Sustainability Pages 473-476 Publisher Taylor and Francis CRC Press		✓
	25	Progressive Collapse Analysis of T shape RCC Building, Prashant Sunagar ¹ , Shivaraj G Nayak ² , T G Geethakumari ¹ , by IOP Conference Series: Earth and Environmental Science, Volume 1125, 2nd International Conference on Sustainable Infrastructure with Smart Technology for Energy and Environmental Management (SIC-SISTEEM 2022) 24/03/2022 - 26/03/2022	✓	
	26	IOT-based Solar Panel Tracking System to Enhance the Output Power, Mani P.K ¹ , Prashant Sunagar ² , Madhuri N S, Proceedings of the Third International Conference on Smart Electronics and Communication (ICOSEC2022) DVD Part Number: CFP22V90-DVD; ISBN: 978-1-6654-9763-3, 978-1-6654-9764-0/22/\$31.00 ©2022 IEEE Explore	✓	

	27	Machine Learning based Mobile Applications for Autonomous Fertilizer Suggestion S. Raviraja1, Raghavender K V2, Prashant Sunagar3, R.K. Ragavapriya4, 4th International Conference on. Inventive Research in Computing Applications ICIRCA 2022. 21-23, September 2022. Proceedings of the International Conference on Inventive Research in Computing Applications (ICIRCA2022) DVD Part Number: CFP22N67-DVD; ISBN: 978-1-6654-9706-0	✓	
	28	Prashant Sunagar1, Shivaraj G Nayak2, Progressive Collapse Analysis of T shape RCC Building IOP Conference Series: Earth and Environmental Science, Volume 1125, 2nd International Conference on Sustainable Infrastructure with Smart Technology for Energy and Environmental Management (SIC-SISTEEM 2022) 24/03/2022 - 26/03/2022 Online, Prashant Sunagar et al 2022 IOP Conf. Ser.: Earth Environ. Sci. 1125 012017, DOI 10.1088/1755-1315/1125/1/01201	✓	
	29	B.P.R.V.S. Priyatham, S.Sivakumar, Prashant Sunagar, J. Prakash Arul Jose, “ Seismic analysis and design of steel beam-column connections in Indian standard code framework”, Materials Today: Proceedings,2023, ISSN 2214-7853, https://doi.org/10.1016/j.matpr.2023.03.365 .	✓	
	30	Ragi Krishnan, Vivek Kumar Mishra, Prashant Sunagar “Finite Element Analysis of steel frames subjected to post-earthquake fire”, Materials Today: Proceedings, 2023, ISSN = 2214-7853, https://doi.org/10.1016/j.matpr.2023.03.671	✓	
	31	Sujay Mugaloremutt Jayadeva, A. K. Gnanasekar, Prashant Sunagar; Analysis of smart city environment by artificial intelligent techniques. AIP Conf. Proc. 20 September 2023; 2831 (1): 020010. https://doi.org/10.1063/5.0164209	✓	
	32	Priyambada Purohit, T. S. Shanthi, Prashant Sunagar; Implementation of industrial security systems through the internet of things. AIP Conf. Proc. 20 September 2023; 2831 (1): 020011. https://doi.org/10.1063/5.0164392	✓	
	33	C. Dinesh, M. Deivakani, Prashant Sunagar; Biped robot-based walking on uneven terrain: Stability and zero moment point (ZMP) analysis. AIP Conf. Proc. 20 September 2023; 2831 (1): 020013. https://doi.org/10.1063/5.0162762	✓	
PATENTS	DESIGN PATENTS GRANTED			
	1	Design patent: Solar security camera system		
	2	Design patent: "An Architectural engineering construction device based on 3D printing technology for designing concrete structure"		
	3	Design patent: “Automatic fire sensing and extinguishing robot”		

4	Design patent: An AI detection face recognition access control system”
5	An Ai Detection Face Recognition Access Control System
6	Solar Powered Seawater Desalination Apparatus
7	Ai Based Wall Climbing Industrial Robot
8	Motion Detection Device For Inspection Robot Vehicle
9	Device For Electricity Generation From Waste Water Treatment
10	Drone For Fire Extinguisher
11	Digital Battery Charger
12	Realtime Tax Management Tablet
13	Artificial Intelligent Based Pest Capturing Agriculture Machine
14	Rooftop Wind Turbine With Conical Tunnel
15	Iot Based Portable Hygienic Health Monitoring System
16	Iot Based Automatic Cooling Tower
17	Servo Amplifier Control Device
18	Device For Electricity Generation From Waste Water Treatment
19	Solar Powered Cold Room
20	Machine Learning Based Chip Control Oxygen Concentrator With Filter
21	Solar Powered Floor Cleaning Robot
22	Artificial Intelligence Based Humanoid Robot For Surveillance And Security
23	Moving Car Pollution Detection Device
25	Design patent: “A Frontline robotic vehicle for COVID patient”

PATENTS APPLIED

1	“Artificial Intelligence Based Humanoid Robot for Surveillance and Security”
2	“System For Recycling Plastic”
3	“Rooftop Wind Turbine with Conical Tunnel”
4	“Artificial Intelligent Based Pest Capturing Agriculture Machine”
5	“Electronic Glove for Women Safety”
6	“Solar Powered Cold Room”
7	“Realtime Tax Management Tablet”
8	“IOT Based Automatic Cooling Tower”
9	“Servo Amplifier Control Device”
10	“Solar Powered Floor Cleaning Robot”
11	“IOT Based Portable Hygienic Health Monitoring System”
12	Artificial Intelligent Based Pest Capturing Agriculture Machine
13	Smart Subsonic Open Circuit Wind Tunnel
14	“IOT Based Automatic Cooling Tower”
15	“Machine Learning Based Chip Control Oxygen Concentrator with Filter”
16	“Device For Electricity Generation from Wastewater Treatment”
17	“Drone For Fire Extinguisher”
18	“Solar Powered Seawater Desalination Apparatus”
19	“Automatic Pesticide Spraying Robot”
20	“Moving Car Pollution Detection Device”
21	“Wearable Device to Analyse the Customer Emotion”
22	“IOT Enabled Hemoglobin Analyzer”
23	“Solar Powered Cold Room”
24	“Device For Electricity Generation from Wastewater Treatment”

FUNDED PROJECT SANCTIONED

Funding Agency	Project Title	Year	Sanctioned Amount
VTU Grants for Research	"Sustainable Utilization of iron ore tailings in smart dynamic concrete for affordable Mass housing systems"	February 2022	8.52 Lakhs
Karnataka State Pollution Control Board	“Recycling and Utilization of mine tailings for Sustainable development of alkali-activated bricks”	May 2022	7.89 Lakhs
KSTA	Microbial Remediation of Defects in Building Materials And Structures	April 2022	50, 000 Rs

	SURGE in collaboration with HMT and IISc	Low- Cost Carbon dioxide Sequestration to mitigate Climate Change from Industrial Flue Gas by Microalgae	May 2022	1,35000 Rs
	KSCST	Enhancement of flexural and shear Capacity of RC beam using glass fibre reinforced polymer sheet and carbon fibre reinforced polymer sheet	March 2022	7000 Rs
	VTU	Experimental Evaluation of Strength Properties of Concrete with Iron Ore Tailings as Fine Aggregate	Feb 2022	6000 Rs
	KSCST	Design And Development Of 3-Axis 3d Printing of Sustainable Concrete Structures and Characterization For Affordable Housing	March 2021	8000 Rs
FUNDED PROJECT APPLIED				
	VGST	Utilization of Sustainable mine tailings in self-consolidating concrete for Affordable housing systems	April 2022	15 Lakhs
	KSCST	Effective utilization of lake sludge for decontamination of lakes-Technological and sustainable approach for construction blocks manufacturing	September 2022	5 Lakhs
	KSCST	From wastewater to value-added chemicals: A microalgal approach to remediate domestic and industrial effluents of Yeswanthpur area, Bengaluru	September 2022	5 Lakhs
	EMPRI	Treatment and Utilization of Sludge Wastes for Fertilizers and Building Materials	August 2022	19 Lakhs
	Karnataka State Pollution Control Board	Recycling and Utilization of Red Mud (Bauxite Residue) And Slag for The Production of Sustainable Geopolymer Composites	August 2022	19.5 Lakhs
FACULTY RESEARCH DETAILS				
	ORCID_ID	https://orcid.org/0000-0002-5574-4328		
	SCOPUS_ID	57205496175		
	GOOGLE_SCHOLAR_ID	https://scholar.google.com/citations?hl=en&user=BZNo5MMAAAAJ&view_op=list_works		
	WEB OF SCIENCE	https://publons.com/researcher/4219799/prash/		
NUMBER OF PROGRAMS ATTENDED (FDP)				
	1	Sustainability aspects and recent trends in civil engineering – The future scenario	14th – 18th	BMSIT

			July 2020	
	2	Infrastructure development possibilities and challenges ahead	25th to 29th May 2020	New Horizon Institute of Technology, Thane
	3	Technologies for infrastructure planning, design monitoring and management	16th to 20th June 2020	Nalla Malla Reddy Engineering College
	4	Sustainable concepts in Civil Engineering and Architecture	21st to 25th July 2020	MSRIT
	5	Rediscovering Urban Landscapes	27th to 31st July 2020	MSRIT
	6	Advanced trends in civil engineering	19th to 23rd May 2020	Nagpur Institute of Technology
	7	QCAD	9th May to 13th May	Singhad Institute of Technology, Pune
	8	Emerging trends in Infrastructure and Structural Engineering	2nd to 6th June 2020	Marri Laxman Reddy Institute of Technology & Management
	9	Climate Change & Carbon Issues	6th July to 10th July	BMSCE
	10	Amplifying proficiency in advanced civil engineering	27th to 31st July	AISSMS College of engineering
	11	Advances in modelling of hydrological extreme events	22nd to 26th June 2020	BMSCE
	12	QCAD & QGIS	22nd to 26th June 2020	SKN Singhad College of Engineering
	13	Advanced Technology in Civil Engineering	15th to 19th June 2020	Ghousia College of Engineering

	14	Advanced Surveying and Geo-informatics	24th to 29th august 2020	MSRIT
	15	Advances in Water Resource Management & Sustainable Environment	17th to 21st August 2020	MSRIT
Conference / Seminars:				
	1	Investigating Conventional Concrete using Rice Husk Ash (RHA) as a Substitute for Finer Aggregate Published under licence by IOP Publishing Ltd Journal of Physics: Conference Series, Volume 2272, International Conference on Design, Manufacturing and Materials Engineering - ICDMME 2021 10/03/2022 - 11/03/2022 Coimbatore, India. DOI 10.1088/1742-6596/2272/1/012030		
	2	Enhancing the Mechanical Characteristics of the Traditional Concrete with the Steel Scrap by IOP Publishing Ltd Journal of Physics: Conference Series, Volume 2272, International Conference on Design, Manufacturing and Materials Engineering - ICDMME 2021 10/03/2022 - 11/03/2022 Coimbatore, India		
	3	Spatial variation of climate change issues using remote sensing technique by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 814, International Conference on Sustainable Innovations in Civil & Mechanical Engineering, 02-04 January 2020, Pandharpur, Maharashtra, India		
	4	Stress strain characteristics of reinforced hollow concrete block masonry melded with mesh reinforcement by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 814, International Conference on Sustainable Innovations in Civil & Mechanical Engineering, 02-04 January 2020, Pandharpur, Maharashtra, India		
	5	Blast resistance of steel plate shear walls designed for seismic loading by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 814, International Conference on Sustainable Innovations in Civil & Mechanical Engineering, 02-04 January 2020, Pandharpur, Maharashtra, India		

	6	Assessment of Solar Power Potential Mapping In Telangana State using GIS International conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2019) May 23-24, 2019 N.M.A.M.I.T., Nitte publication in "Lecture Notes in Civil Engineering (Springer)"		
	7	Effect of different Base Isolation Techniques in Multistoried RC Regular and Irregular Building by Prashant Sunagar. International conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2019) May 23-24, 2019 N.M.A.M.I.T.		
	8	1st international Conference On Accelerating Innovations In Material Science Aims 2020, August 4-7-2020 Organized by Department of Chemistry, BMS Institute of Technology & Management Bengaluru, INDIA		

Short-Term / Continuing Education / Specialized Trainings :

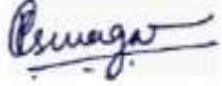
	1	ETABS – Learn Building Analysis Design & AutoCAD
	2	Ultrasonic testing training
	3	Ansys Training
	4	Python for Beginners
	5	Construction Methodology Basics in Civil Engineering
	6	Construction Project Planning for Civil Engineers
	7	Quantity Surveying Building Estimation BBS with Excel and CAD
	8	Essential Non-Technical skills of Effective Data Scientists
	9	Diploma in concrete technology
	10	Project management: Cost and Schedule Monitoring using EVM
	11	Managerial Accounting
	12	TESOL and TPRS

- Earthquake Resistant Design of Structures
- Reinforced Concrete Technology
- Computational Structural Mechanics
- Engineering Mechanics (Applied Mechanics)
- Advances in Concrete Technology; Special Concrete
- Building Construction and Materials
- Alternative Buildings Materials and Technologies,
- Construction Materials and Management
- Advanced Foundation Engineering / Foundation Technology

MEMBERSHIP / FELLOWSHIP OF PROFESSIONAL SOCIETIES, WITH REGISTRATION NUMBER		<ul style="list-style-type: none"> ❖ Affiliated Member: ASCE (American Society of Civil Engineers) ❖ Ex-Student Member: ASCE (American Society of Civil Engineers) ❖ Student Member: ASTM (American Society for Testing and Materials) ❖ Member: SEFI, NICEE (National Information Centre for EQ Engineering, IIT-Kanpur, INDIA) ❖ Life Member - Institute of Mathematical Statistics (IMS) 36785 ❖ Life Member – The Indian Society for Technical Education (ISTE): LM 123453 ❖ Associate Member of “Karnataka Science and Technology Academy (KSTA)” Department of Science and Technology, Government of Karnataka. ❖ Member of “National Institute for Technical Training and Skill Development” (ID: NITTSD/PROFESSOR/12013) ❖ Student Member - American Planning Association (APA ID: 388348) ❖ Members - Society for Industrial and Applied Mathematics (020918317). ❖ Life Member -International Academy for Science & Technology Education and Research (LM-1607006582)

➤ International Design Standards

R	LIST ANY THREE PROFESSIONAL REFERENCES (Other than relatives)				
	#	Name & Address	Occupation	Email	Telephone no
	01.	Dr Aravind H Bhashyam M.Sc. Indian Institute of Science (IISc), Ph.D. IIT Madras	Emeritus Professor School of Civil Engineering REVA University Rukmini Knowledge Park, Kattigenahalli, Srinivasa Nagar, Bengaluru, Karnataka 560064	puppyarav@gmail.com	9880270586

02.	Dr. M C Nataraja MTEch NIT Suratkal. Ph.D. Indian Institute of Technology Kharagpur	Professor Department of Civil Engineering Ramaiah Institute of Technology, Bengaluru- 560054	natarajamc20@msrit.edu	988044742
03.	Dr. B V V Subramanya M.Sc. Indian Institute of Science (IISc) Ph.D. Indian Institute of Science (IISc)	Professor Department of Civil Engineering Jyothy Institute Of Technology, near Ravi Shankar Guruji Ashram, Thathaguni, Karnataka 560082	bvv.subramanya@jyothyit.ac.in	9448353603
Place: Bangalore Date: 20 / 06 / 2024				
<div style="text-align: right;">  Signature of the Applicant </div>				