FACULTY WEBSITE PROFILE

Name of The Faculty	Dr. Mukesh M S
Designation	Assistant Professor
Qualification	PhD
E Mail ID	mukeshms@jssstuniv.in
LinkedIn ID	mukesh-m-s-aa8946166
ORC ID	0000-0003-0902-4407
Contact Number	9964723257
Work Experience	
1. Teaching	4+
2. Industry	0
3. Research	4
4. Other	0
Area of Specialization	Transportation Engineering, RS and GIS
Subject Taught	
1. Under Graduate Level	Concrete technology, Geomatics, Remote sensing and GIS, Design of highway infrastructure, Traffic Engineering, Traffic engineering and highway design, Railway and Airport Engineering
2. Post Graduate Level	-
Research Guidance	
1. Under Graduate Level	6
2. Post Graduate Level	2
3. PhD	4 (Ongoing)
Publication Details	
1. International Journal	1. Siddesh, J.S., Mukesh, M.S., Kendagannaswamy, M.S. and Shivaprasad, K.N., 2026. Explainable machine learning for predicting compressive strength of alkali activated material: a comparative modelling and interpretability study. *Discover Sustainability*. 2. Siddesh, J.S., Mukesh, M.S., Shivaprasad, K.N. and Yang, H.M., 2026. Slag Content Governs Compressive Strength of Ambient-Cured Alkali-Activated Mortars: An Experimental and Ensemble Machine Learning Study. *Buildings*, *16*(18), p.3637. 3. Kendagannaswamy, M.S., Roopa, C.K., Harish, B.S. and Mukesh, M.S., 2025. Multi-criteria decision analysis for regional-scale flood susceptibility mapping in Kerala state, India. *Discover Applied Sciences*, *7*(6), p.598. 4. Mukesh, M.S. and Katpatal, Y.B., 2021. Impact of the Change in Topography Caused by Road Construction on the Flood Vulnerability of Mobility on Road Networks in Urban Areas. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 7(3), p.05021001. DOI: https://doi.org/10.1061/AJRUA6.0001137. SCI. 5. Mukesh, M.S. and Katpatal, Y.B., 2022. Analysing the impact of floods on vehicular mobility along urban road

	networks using the multiple centrality assessment approach. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 7(3), p.05021001. DOI: https://doi.org/10.1061/AJRUA6.0001256. SCI. 6. MS, Mukesh, Katpatal, Y.B. and Londhe, D.S., 2022. Measurement of city road network resilience in hazardous flood events. International Journal of Disaster Resilience in the Built Environment. 7. Londhe, D.S., Katpatal, Y.B., Mukesh, M.S. and Bokde, N.D., 2023. Vegetation dynamics and its driving factors in agro-climatic zones of Upper Bhima Sub-basin, Western India. International Journal of Environmental Science and Technology, pp.1-16. 8. Mukesh M S, Y B Katpatal; "Evaluation of Pedestrian Safety in fast developing Nagpur City". Journal of Urban and Environmental Engineering (JUEE). DOIhttps://doi.org/10.4090/juee.2020.v14n1.052060.
2. National Journal	0
3. Conferences	1. Mukesh M S, Y B Katpatal. "Study of pedestrian movement in correlation to the transportation infrastructure and Land Use / Land Cover in a fast developing Indian City" Application of Geomatics in Civil Engineering. (2020) Vol. 33. https://doi.org/10.1007/978-981-13-7067-0_30. 2. Y B Katpatal, KaddakHarshal, Mukesh M S. "Spatial Pavement Information System for Transportation Network based on distress in Nagpur city using RS and GIS" Recent trends and Innovations in civil Engineering. https://doi.org/10.1007/978-981-15-5195-6_26. 3. Katpatal, Y.B., Londhe, D.S., Mukesh, M.S. and Biroju, P., 2022. Performance Evaluation of Groundwater Recharge Infrastructure in Junewani Watershed, Nagpur, Maharashtra Using Spatial Approach. In Recent Advancements in Civil Engineering (pp. 951-962). Springer, Singapore.https://doi.org/10.1007/978-981-16-4396-5_80 4. Londhe, D., Katpatal, Y. and MS, M., 2022,

June. Lithological Control on Vegetation Dynamics Over Western Ghat Zone in Upper Bhima Sub-Basin. In 83rd EAGE Annual Conference & Exhibition (Vol. 2022, No. 1, pp. 1-5). European Association of Geoscientists & Engineers.

5. Londhe, D.S., Kapgate, M.D., Katpatal, Y.B. and Mukesh, M.S., 2022, June. Estimation of crop water requirements within Wainganga sub-basin for Kharif and Rabi season using spatial analysis. In IOP Conference Series: Earth and Environmental Science (Vol. 1032, No. 1, p. 012031). IOP Publishing.
6. Katpatal, Y.B., Londhe, D.S., Mukesh, M.S. and Biroju, P., 2022. Performance Evaluation of Groundwater Recharge Infrastructure in Junewani Watershed, Nagpur, Maharashtra Using Spatial Approach. In Recent Advancements in Civil Engineering: Select Proceedings of ACE 2020 (pp. 951-962). Springer Singapore.
7. Londhe, D.S., Katpatal, Y.B. and Mukesh, M.S., 2021, December. Spatio-Temporal Variability and Trend Analysis of Changing Rainfall Patterns Over Upper Bhima Sub-Basin, Maharashtra, India. In International Conference on Hydraulics, Water Resources and Coastal Engineering (pp. 299-309). Singapore: Springer Nature Singapore.
8. Mukesh, M.S. and Katpatal, Y.B., 2020. Study of Pedestrian Movement in Correlation to the Transportation Infrastructure and Land Use/Land Cover in a Fast Developing Indian City. In Applications of Geomatics in Civil Engineering: Select Proceedings of ICGCE 2018 (pp. 395-

	403). Springer Singapore.
Patents	
Research Projects / Consultancy Undertaken	
1. Funding Agency	Nil
2. Fund Received (In Rs)	Nil
Book Published	-
FDP /STTP/Technical Seminar Organised and Participated as a Resource Person	2
Achievements	-
Professional Membership	1. Life Member of "Indian Society of Remote Sensing". Membership No. **L-5291** 2. Life Member of "International association of Engineers". Membership No. **310114** 3. Annual Member of "Association of Agrometeorologists". Membership No. **AM-2021-12** 4. Student Member of "American Society of Civil Engineers". Membership No. **11898956**



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Signature