


**KSSEM**
K. S. SCHOOL OF ENGINEERING & MANAGEMENT

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15, Mallasandra, Off.Kanakapura Road,Bengaluru-560109, Karnataka, INDIA.

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| Faculty Name | Sushma.M |  |
| Designation | Assistant Professor | |
| Educational Qualification | M.Tech in Structural Engineering, (Ph.D) | |
| Experience in Years | Teaching: 7.3 years Industry : 0.6 months | |
| Areas of Interest | Heritage Architecture, Earthquake Engineering, Vernacular Architecture. Energy Efficient Buildings | |
| Aadhar Number | | |
| E-mail | sushma.m@kssem.edu.in | |

Educational Details

| Examination/ Degree | College / University | Year of Passing |
|------------------------|---|--------------------|
| UG | S J B Institute of Technology, Bengaluru | 2013 |
| PG | K S School of Engineering & Management, Bengaluru | 2015 |
| PhD | Pursuing | |

Publications

Journal Publications:

1. Published Paper in Springer on “Evaluation on Seismic Performance of Dhajji- Dewari Timber Wall Panel” in National Conference “Civil Engineering for a Disaster Resilient Society” held by NITK, Surathkal
2. Published International Journal on “Effect on Soil- Structure Interaction on Seismic Analysis of RCC Structure”, The International Reviewer, Vol.4, Issue 2, pp 23-26, ISSN 2395-1575, July-December 2017
3. Published International Journal on “Experimental Study on Early- Aged Thermal Cracks and Crack Assessment due to Internal Restraint”, The International Reviewer, Vol.2, Issue 1, pp 5-8, ISSN 2395-1575, January- June 2015
4. Published International Journal on “Effect on Soil- Structure Interaction on Seismic Analysis of RCC Structure”, The International Reviewer, Vol- 4, Issue 2, pp 23-26, ISSN 2395-1575, July-December 2017

Conference Papers :

1. Certified as best paper in National Conference on Futuristic Technology in Civil Engineering for Sustainable Development, NCFTCES- 2016, for presenting journal paper on “A Study on Performance of High- Rise Buildings for different Structural Systems and Lateral Loads”, held at S J B Institute of Technology
2. Certified as best paper in National Conference on Advances in Structures and Materials, NCASM- 2015, for presenting journal paper on “Experimental Study on Early- Aged Thermal Cracks and Crack Assessment due to Internal Restraint”, held at K S School of Engineering and Management

Other Accomplishment

1. Co-Convenor for the National Seminar on “Performance of Climatic Responsive Buildings- A Qualitative and Quantitative Approach”, held on 10- 06-2022 and 11-06-2022 (Sponsored amount of Rs. 1,50,000/- by “Science and Engineering Research Board- DST”)
2. Co-Convenor for the National Seminar on “Probabilistic Prediction of Earthquakes and Sustainability of Heritage Structures under High Seismic Activity”, held on 24-02-2020 and 25-02-2020 (Sponsored amount of Rs. 50,000/- by “Science and Engineering Research Board- DST”)
3. Awarded Rs. 5000/- by KSCST for the project “Sustainability of Traditional Vernacular Mud Houses using Autodesk Ecotect” during 2021-22
4. Awarded Rs. 25,000/- by Visveswaraya Technological University for Poster Project Presentation on the topic, “Reduction in Embodied Energy and Estimation of Carbon Footprint of Building by using Alternate Building Materials”, in the year 2017
5. Guided students project on the topic “Documentation of Sustainable Vernacular Heritage Architectures of North India”, which was financially assisted-VTU by Rs.5000/- in the year 2019-20.
6. Guiding students project on the topic “Experimental Study on Development of Geopolymer Paver Blocks for Sustainable Pedestrian Facility” which is shortlisted for VTU Financial Assistance, 2021.
7. Co-Investigator for Shortlisted Projects of DST- 2021 with Project Title: “Capacity Building of

Skilled Women in Core Areas for Construction Industry”

Research Guidance

1. Guiding M.Tech Thesis on “ Dynamic Analysis of Timber Frame Structures”, 2021-22
2. Guiding M.Tech Thesis on “Experimental investigation on Acacia timber to find Elastic Constants”, 2021-22
3. Guided project on “Sustainability of Traditional Vernacular Mud Houses using Autodesk Ecotect”, 2021-22
4. Guided M.Tech Thesis on “Dynamic Analysis of Beam-Column Joints in Hybrid Structure”, 2020-21
5. Guided UG project on “Experimental Study on Development of Geopolymer Paver Blocks for Sustainable Pedestrian Facility”, 2020-21
6. Guided M.Tech Thesis on “Evaluation of Seismic Performance of Dhajji- Dewari Timber Wall Panel” in the year 2019-20
7. Guided M.Tech Thesis on “Evaluation of Seismic Performance of Dhajji- Dewari Timber Building” in the year 2019-20
8. Guided project on “Documentation of Sustainable Vernacular Heritage Architectures of North India” in the year 2019-20
9. Guided project on “Study on Seismic Behavior of Heritage Monument Gol-Gumbaz using E-Tabs” in the year 2018-19
10. Guided project on “Reduction in Embodied Energy and Estimation of Carbon Footprint of Building by using Alternate Building Materials” during 2017-2018
11. Guided M. Tech thesis on “Effect on Soil-Structure Interaction on Seismic Analysis of RCC Structure” during 2016-2017
12. Guided project on “Health Monitoring of Richmond Circle Flyover Using Non Destructive Testing” during 2016-2017
13. Guided M. Tech thesis on “A Study on Performance of High-Rise Buildings For different Structural Systems and Lateral Loads” during 2015-2016
14. Guided project on “Experimental Study of Coir Fiber Reinforced Concrete” during 2015-2016

Contact Details

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