

## **ABOUT ME**



Dr. T.Srinivas, Professor of Civil Engineering and Dean PG Studies in Gokaraju Rangaraju Institute of Engineering & Technology, completed his Ph.D (Civil Engineering) from JNTUH, Hyderabad in 2018. He has twenty seven years of experience, out of which fourteen years in academics, research and consultancy and also thirteen years of rich Industrial experience in Civil Engineering Constructions; especially in Buildings like Planning, Analysis, Designing, Estimation and Execution of works. Prior to Ph.D, he had completed M.Tech (Structural Engineering) from JNTUH, Hyderabad in 2006 and B.E (Civil Engineering) from CBIT, affiliated to OU, Hyderabad in 1997.

His research area of interests is on Geopolymer Concrete, Special Concrete, Structural Analysis and Design of different structures. His Ph D work was studies on the properties of Low Calcium Fly Ash and Slag Based Geopolymer Concrete.

He has published sixty four papers in various journals and conferences, out of which forty two papers are published in SCOPUS Indexed journals and conferences. He has two patents to his credit on a System for Manufacturing Eco-Friendly Paper Plastic Paving Blocks Using Wastepaper and Plastic and Earthquake-Resistant Building Technologies. He has conducted 2 workshops and 2 FDPs and also participated in many Faculty Development Programs and Workshops/Seminars for continuously updating his knowledge.

His versatile experience in the construction Industry made him easy to understand the basic concepts and depth of the subjects. His practical experience and innovative teaching practices helping the students in understanding the subjects, doing the projects and designing the models.

He has guided 37 M.Tech students, 11 B.Tech major projects and presently he is guiding 10 M.Tech students. The majority of these projects are on Geopolymer concrete and Structural Analysis of Buildings by using softwares like Staad Pro and E-Tabs etc.

### **Contact:**

Dr. T.Srinivas

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## CURRICULUM VITAE

### Career Objective:

To work as a professional Civil Engineering faculty where I can utilize and improve my practical experience, skills to successfully meet the current demand of Civil Engineering technology and impart the knowledge in all aspects in the field to the student community, thereby making them more of Practical oriented Civil Engineers, with rich knowledge of Civil Engineering subjects.

### Experience Summary (27 Years):

- Presently working as a Professor in the Department of Civil Engineering and Dean PG Studies, Gokaraju Rangaraju Institute of Engineering and Technology since 18<sup>th</sup> August, 2023 to till date.
- Worked as a Professor in the Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology since 22<sup>nd</sup> February, 2019 to 18<sup>th</sup> August, 2023.
- Worked as an Associate Professor in the Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology since 20<sup>th</sup> June, 2013 to 21<sup>st</sup> February, 2019.
- Worked as an Associate Professor & HOD of Civil Engineering for Two years in KG Reddy College of Engineering and Technology, Moinabad, Hyderabad.
- Around 13 years of rich, professional experience in the construction field. Developed Expertise in Planning, Structural Designs, Architectural and Structural drawings, Estimations, Building Management, Surveying, Quality assurance and control.
- Developed Expertise in the usage of STAADPRO for analysis and designing of structures.
- Developed Expertise in AUTOCAD.

### Academic Background:

- Ph.D (Civil Engineering), topic is “Studies on the Properties of Low Calcium Fly Ash and Slag Based Geopolymer Concrete” from JNTUH, Hyderabad in 2018.
- M.Tech (Structural Engineering) from JNTU, Masab Tank, Hyderabad, India. (2003-2006).
- B.E. (Civil Engineering) from CBIT (Chaitanya Bharathi Institute of Technology) affiliated to Osmania University, Hyderabad and India.1997.
- Diploma in Civil Engineering from SRRS Govt. Polytechnic, Sircilla, affiliated to SBTET, AP, 1994.

### Professional Background:

- Presently working as a Professor in the Department of Civil Engineering and Dean PG Studies, Gokaraju Rangaraju Institute of Engineering and Technology since 18<sup>th</sup> August, 2023 to till date.
- Worked as a Professor in the Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology since 22<sup>nd</sup> February, 2019 to 18<sup>th</sup> August, 2023.

- Associate Professor in the Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Bachupally, Hyderabad since 20<sup>th</sup> June, 2013 to 21<sup>st</sup> February, 2019.
- Associate Professor & HOD, Department of Civil Engineering in KG Reddy College of Engineering & Technology, Chilkur village, Moinabad mandal, RR District from June 2011 to June 2013.
- Consulting Structural Engineer (GHMC Licence No. 49/Structural Engineer), S.V. Consultants, Hyderabad, A.P., India from February 2009 to June 2011.
- Structural Engineer, Cemas Engineering Consultants, Vishakapatnam, A.P., India, from April 2007 to February 2009.
- Structural Engineer, DDA Consultants, Hyderabad, A.P., India, from January 2003 to March 2007.
- Site Engineer, Loha Constructions, Hyderabad, A.P., India, from March 1998 to December 2002.

### **Administrative Experience:**

- Presently working as Dean PG Studies, Gokaraju Rangaraju Institute of Engineering and Technology since 18<sup>th</sup> August, 2023 to till date.
- HOD of Civil Engineering, in addition to the regular class room teaching, performed administrative activities like academic calendars, time table's preparation, helping the principal / management in recruitments, subject allocations, class work monitoring, conducting internal and external lab exams, establishing / renovation of the labs, conducting guest lectures, planning & execution of B.Tech projects.
- Core Member of Disciplinary committee team @ KGR CET (Responsible for taking matured/ well thought out decisions taken in all disciplinary related issues. Involving Students & Faculty and help maintaining the required disciplined environment).
- Core Member of 'Suggestions & Improvements Committee' in KGR CET.  
(As part of the committee, involved in improving the infrastructural facilities, Labs etc. to improve the Quality of an education in the Institute).
- Core Panel Member of 'Faculty recruitments Committee' at KGR CET.  
(As a senior member of the 'Faculty recruitment committee', interviewed and recommended for appointment in to civil engineering department).
- Worked as Coordinator for Nodal Centre of Institution of Engineers (India) in association with ESCI (Engineering Staff College of India) for GRIET, Hyderabad.
- Worked as an Advisor for Civil Engineering Student Chapter IE (India) in GRIET, Hyderabad.
- Worked as a Coordinator for Student Chapter IE (India) in GRIET, Hyderabad.
- Working as an Exam In charge for Civil Engineering department, GRIET, Hyderabad.

### **Course Taught at UG Level:**

- Concrete Technology
- Strength of Materials –I
- Strength of Materials -II
- Structural Analysis-I
- Building Materials Construction & Planning
- Design of Reinforced Concrete Structures
- Design of Steel Structures
- Surveying
- Surveying Lab-I & II
- AutoCAD Lab
- Concrete Technology Lab
- STAAD Pro Lab
- Strength of Materials Lab

### **Course Taught at PG Level:**

- Advanced Concrete Technology
- Earthquake Resistant Design of Buildings
- Design of Prestressed Concrete Structures

### **Achievements and Awards:**

- Best Student in Diploma (Civil Engineering), SRRS Govt. Polytechnic, Sircilla, Karimnagar District, AP.1994.
- Topper in NPTEL online Certification Course with 98% on Design of Reinforced Concrete Structures during July-October 2019 conducted by IIT Kharagpur.

### **PUBLICATIONS**

#### **Journal Publications:**

#### **International:**

- T.srinivas and G.Sukesh Reddy (2019), “Mechanical Properties of Geopolymer Concrete Made With Partial Replacement of Coarse Aggregate by Recycled Aggregate” International Journal of Engineering and Advanced Technology (**IJEAT- Scopus Indexed**), ISSN: 2249 – 8958, Volume-9 Issue-1, October 2019, DOI: 10.35940/ijeat.F9124.109119. pp. 2301-2304.
- T.srinivas and P. Manoj Anand (2019), “Permeation Properties of Geopolymer Concrete Made with Partial Replacement of Recycled Coarse Aggregates” International Journal of Innovative Technology and Exploring Engineering (**IJITEE- Scopus Indexed**), ISSN: 2278-

3075, Volume-8 Issue-12, October 2019, DOI: 10.35940/ijitee.K2317.1081219. pp. 2987-2990.

- T.srinivas and R. N. Koushik (2019), “Sulphate attack Resistance of Geo-polymer Concrete made with Partial Replacement of Coarse Aggregate by Recycled Coarse Aggregate” International Journal of Innovative Technology and Exploring Engineering (**IJITEE- Scopus Indexed**), ISSN: 2278-3075, Volume-8 Issue-12, October 2019, DOI:10.35940/ijitee.L2509.1081219. pp. 112-117.
- T.srinivas and M.Abinay Raj (2019), “Seismic Effect on Design of Residential Multi-Storey Building (Stilt+17 Floors) in Zone-III and Zone-IV using ETABS” International Journal of Engineering and Advanced Technology (**IJEAT- Scopus Indexed**), ISSN: 2249 – 8958, Volume-8 Issue-6, August 2019, DOI: 10.35940/ijeat.F9145.088619. pp. 4662-4666.
- Dr. T. Srinivas and Dr. N.V.Ramana Rao (2019), “Studies on the Behaviour of Sulphate Attack Resistance of Low Calcium Fly Ash and Slag Based Geopolymer Concrete” International Journal of Civil Engineering and Technology (**IJCIET- Scopus Indexed**), ISSN Print: 0976-6308 and ISSN Online: 0976-6316, Volume 10, Issue 02, February 2019, pp. 510-518. Article ID: IJCIET\_10\_02\_051 <http://www.iaeme.com/ijciyet/issues.asp?JType=IJCIET&VType=10&IType=02>.
- K.Hemalatha, T.srinivas, G.Swetha and V.Haripan (2019), “Effect of Air Quality Parameters in Hyderabad and Mapping Using QGIS and Detection Management Software” International Journal of Innovative Technology and Exploring Engineering (**IJITEE- Scopus Indexed**), ISSN: 2278-3075, Volume-9 Issue-1, November 2019, DOI: 10.35940/ijitee.K2317.1081219. pp. 73-80.
- T.srinivas, S.P.Raju Vundi, N.V.Ramana Rao and Deepak Kumar Shinde (2019), “Resistance of Acid Attack on Geopolymer Concrete Developed With Partial Replacement of Coarse Aggregate by Recycled Aggregate” International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-4, November 2019, DOI:10.35940/ijrte.D8120.118419. pp. 12142-12146.
- T. Srinivas and Dr. N.V.Ramana Rao (2017), “Water Absorption Capacity of Low Calcium Fly Ash and Slag based Geopolymer Concrete” International Journal of Research in Chemical, Metallurgical and Civil Engineering. (IJRCMCE) Vol. 4, Issue 1 (2017) ISSN 2349-1442, eISSN 2349-1450, <https://doi.org/10.15242/IJRCMCE.U1216306>, PP 52-55.
- T. Srinivas and Dr. N.V.Ramana Rao (2016), “Studies on Acid Attack Resistance of Low Calcium Fly Ash and Slag Based Geopolymer Concrete” International Journal of Research in

Engineering and Technology (IJRET), eISSN: 2319-1163, pISSN: 2321-7308, Volume: 05  
Special Issue: 20/Nov-2016, PP 216-227, Available @ <https://www.esatjournals.org>.

- T. Srinivas and Dr. N.V.Ramana Rao (2016), “Development and Optimization of Mix Design Of Low Calcium Fly Ash and Slag Based Geopolymer Concrete for Standard Grade” IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 13, Issue 4 Ver. III (Jul. – Aug. 2016), DOI: 10.9790/1684-1304033947, PP 39-47.
- T. Srinivas, Dr. N.V.Ramana Rao and G.Shiva Pavani (2016), “Investigation on Mechanical Properties of Low Calcium Fly Ash and Slag based Geopolymer Concrete” International Journal of Latest Trends in Engineering and Technology (IJLTET) e-ISSN: 2278-621X, p-ISSN: 2319-3778, Volume 7, Issue 3 (June 2016) Summer Special Issue, DOI: 10.21172/1.73.031, PP 223-234.
- T. Srinivas and Dr. N.V.Ramana Rao (2015), “a Study on Flexural Behaviour of RCC Beams Containing High Volume Fly Ash” IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 12, Issue 4 Ver. V (Jul. – Aug. 2015), DOI: 10.9790/1684-12453540, PP 35-40.

### **Conference Proceedings:**

#### **International:**

- V.S Anusuya Devi, N. Sreevan,; Amandeep Nagpal, Nandini Shirish Boob, Tummala Srinivas, Ahmed sabah Abed AL-Zahra Jabbar " Refining Computational Models with the Development of Efficient Big Data Models, Algorithms, and Architectures", 1st International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI), IEEE- 2024, **(Scopus Indexed)**, DOI: 10.1109/ICSCAI61790.2024.10867184.
- Santosh Kumar B, Yagateela Pandu Rangaiah, Navdeep Singh, Nandini Shirish Boob, Tummala Srinivas, Ahmed sabah Abed AL-Zahra Jabbar " Real-Time Revelations through Complex Machine Learning Techniques for Environmental Monitoring", 1st International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI), IEEE- 2024, **(Scopus Indexed)**, DOI: 10.1109/ICSCAI61790.2024.10866638
- Yogesh Vishwakarm, Nibras Hayder, Tummala Srinivas, Anandhi R J, Alok Jain, Shashi Prakash Dwivedi, Ch Ravi Kiran" CFD Analysis of using Deionized Water in Radiator to Enhance the Efficiency for Sustainable Growth", E3S Web of Conferences 552, 01107 (2024), ICMPC 2024, **(Scopus Indexed)**, <https://doi.org/10.1051/e3sconf/202455201107>.

- Tummala Srinivas, Soumya Sucharita Singha, Abhishek Joshi, Saket Mishra, Archana Sehgal, Abhiraj Malhotra, Gazal Sharma" Investigation of Cu Doping Concentration on the Structural and Antimicrobial Properties of TiO<sub>2</sub> Thin Films", E3S Web of Conferences 588, 02001 (2024), SNE2 2024, **(Scopus Indexed)**, <https://doi.org/10.1051/e3sconf/202458802001>.
- Cheruku Sandya, C Vivek Kumar and T Srinivas" Analysis of tuned mass damper effect on vibration control over tall building in seismic prone areas – A state-of-art review", E3S Web of Conferences 391, 01191 (2023), ICMED-ICMPC 2023, **(Scopus Indexed)**, <https://doi.org/10.1051/e3sconf/202339101191>.
- Latha Sree Kashapaga, Tummala Srinivas and T. Hyndhavi Reddy, "Studies of polypropylene fibres' effect on strength and workability of slag based geopolymer concrete", E3S Web Conf. Volume 391, 2023, **(Scopus Indexed)**, <https://doi.org/10.1051/e3sconf/202339101198>.
- Md. Zia ul Haq, Hemant Sood, Rajesh Kumar, Vishal Sharma, Anuj Kumar, T. Srinivas, Monica Gulati, K. Hima Bindu and Kaushal Kumar, "Eco-Friendly Building Material Innovation: Geopolymer Bricks from Repurposed Plastic Waste", **(Scopus Indexed)**, <https://doi.org/10.1051/e3sconf/202343001201>.
- Pammi Divya , T.Srinivas, and Tummala Mahathi, ,"Studies on workability and compressive strength of ternary blended concrete", E3S Web of Conferences 391, 01196 (2023), ICMED-ICMPC 2023, **(Scopus Indexed)**, <https://doi.org/10.1051/e3sconf/202339101196>.
- Md. Zia ul Haq , Hemant Sood , Rajesh kumar , Saurav Dixit , T. Srinivas , Suniana Ahuja ,B lingam ,Kaushal Kumar,"Circular Economy Enabler: Enhancing High?Performance Bricks through Geopolymerization of Plastic Waste", E3S Web of Conferences , 01 (2023) ICMPC 2023, **(Scopus Indexed)**, <https://doi.org/10.1051/e3sconf/202343001202>.
- Kotla Sai Prakash, T. Srinivas, Mahathi Tummala, “Studies on strength and workability of geopolymer concrete made with zeolite”, AIP Conf. Proc. 2754, 150020 (2023), **(Scopus Indexed)**, <https://doi.org/10.1063/5.0161166>.
- Polu Sireesh Kumar Reddy, T. Srinivas, Raju Agurla, “Comparative study of concrete mix proportions by adding various percentages of super plasticizers: A review”, AIP Conf. Proc. 2754, 150018 (2023), **(Scopus Indexed)**, <https://doi.org/10.1063/5.0161168>.
- H. Karan Kumar, T. Srinivas, Mahathi Tummala, “Micro carbon effect on strength and workability of geopolymer concrete made with manufactured sand”, AIP Conf. Proc. 2754, 150017 (2023), **(Scopus Indexed)**, <https://doi.org/10.1063/5.0161164>.

- N. Siva Bhaskar Reddy, S. P. Raju V., T. Srinivas, Srinivas Vasam, “Effect of expanded polystyrene on strength and workability of concrete reinforced with steel fibre”, AIP Conf. Proc. 2754, 150022 (2023), (**Scopus Indexed**), <https://doi.org/10.1063/5.0161089>
- Malyala Priyanka, T. Srinivas, Mahathi Tummala, “Effect of micro carbon fiber on geopolymer concrete made with manufactured sand: A review”, AIP Conf. Proc. 2754, 150019 (2023), (**Scopus Indexed**), <https://doi.org/10.1063/5.0161165>.
- K. Prashanthi, V. Naresh Kumar Varma, T. Srinivas, S Shrihari, “Impact of waste tire rubber on the strength and workability of concrete”, AIP Conf. Proc. 2754, 150021 (2023), (**Scopus Indexed**), <https://doi.org/10.1063/5.0161147>
- P. Bhavana and T. Srinivas " Manufactured Sand Effect on Flexural Behaviour of Geopolymer RCC Structural Elements", ICMMSE-2020-AIP Proceedings(**Scopus Indexed**), 2358, 020007 (2021), Jul-21, <https://doi.org/10.1063/5.0058556>.
- Vanadeep Cotipalli, T. Srinivas and Vegiraju Naresh Kumar Varma" Study on Storey Shear and Base Shear for Irregular G+3, G+6 Structures in Seismic Zones II & III, Erected on all Three Soils", ICMMSE-2020-AIP Proceedings(**Scopus Indexed**), 2358, 090008 (2021), Jul-21, <https://doi.org/10.1063/5.0058494>.
- T. Srinivas, Thandra Arun, N.V.Ramana Rao, " Effect of Sugarcane Bagasse Fibre on the Behavior of Geopolymer Concrete under Sulphate Attack", E3S Web of Conferences **309**, 01106 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901106>.
- T. Srinivas, Srimanthula Chandana, N.V.Ramana Rao, " Studies on effect of sugarcane bagasse fibre on mechanical properties and workability of low calcium fly ash and slag based geopolymer concrete", E3S Web of Conferences **309**, 01112 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901112>.
- T. Srinivas, Pogula Anudeep, N.V.Ramana Rao, " Effect of sugarcane bagasse fibre on geopolymer concrete when it is subjected to alternative drying and wetting", E3S Web of Conferences **309**, 01105 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901105>.
- Thandra Arun, T. Srinivas, N.V.Ramana Rao, "Studies on the acid attack resistance of sugarcane bagasse fibre geopolymer concrete", E3S Web of Conferences **309**, 01133 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901133>.



- Suram Raju, T. Srinivas and Vegiraju Naresh Kumar Varma, "Plastic as substituent material for fine aggregate in concrete", E3S Web of Conferences **309**, 01132 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901132>.
- Srimanthula Chandana, T. Srinivas, N.V.Ramana Rao, "Effect of sugarcane bagasse fibre on the flexural behavior of geopolymer concrete RCC beams", E3S Web of Conferences **309**, 01113 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901113>.
- Pogula Anudeep, T. Srinivas, N.V.Ramana Rao, "Studies on the permeation properties of geopolymer concrete made with sugarcane bagasse fibre", E3S Web of Conferences **309**, 01130 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901130>.
- Meera Arun, T. Srinivas, PVVSSR Krishna, "Role of expansion joint in the study of seismic analysis of a multi-storied building", E3S Web of Conferences **309**, 01115 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901115>.
- K.Veerababu, T. Srinivas and Mahathi Tummala, "Studies on manufactured sand effect on mechanical properties of geopolymer concrete as replacement of river sand in fine aggregate", E3S Web of Conferences **309**, 01114 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901114>.
- Suram Raju, Vegiraju Naresh Kumar Varma and T. Srinivas, "Durability properties of concrete made with polyethylene terephthalate and polypropylene as replacement of fine aggregate", E3S Web of Conferences **309**, 01131 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901131>.
- Meera Arun, , PVVSSR Krishna, T. Srinivas "Seismic analysis of a multi-storied building for different plan configurations using E-Tabs", E3S Web of Conferences **309**, 01129 (2021), ICMED 2021 (**Scopus Indexed**), <https://doi.org/10.1051/e3sconf/202130901129>.
- S. V. Srinidhi and T. Srinivas " Flexural Behavior of RC Structural Elements Made by Geopolymer Concrete", ICMMSSE-2020-AIP Proceedings(**Scopus Indexed**), 2358, 020011 (2021), Jul-21, <https://doi.org/10.1063/5.0058496>.
- K. Sai Gopi, T. Srinivas and S. P. Raju V "Comparative Study of Recycled Plastic Waste as Fine Aggregate in Conventional Concrete and Geopolymer Concrete ", ICMMSSE-2020-AIP Proceedings(**Scopus Indexed**), 2358, 090011 (2021), Jul-21, <https://doi.org/10.1063/5.0058473>.

- Srinivas. T and Abhignya. G “Behavior of Structural Elements made of Geopolymer Concrete with Recycled Aggregates”, IOP Conference Series: Materials Science and Engineering (**WOS**), ICIRMCT 2021, 12th-13th March 2021, Coimbatore, India, <https://iopscience.iop.org/article/10.1088/1757-899X/1091/1/012030>.
- Vivek Kumar C, Mohammed Aiman Parvez and Dr.T.Srinivas “Evaluation of optimum dosage in blended self curing concrete on the impact of supplementary cementitious materials (SCMS) and durability studies on different proportions ", IOP Conference Series: Materials Science and Engineering (**WOS**), ICIRMCT 2021, 12th-13th March 2021, Coimbatore, India, <https://iopscience.iop.org/article/10.1088/1757-899X/1091/1/012037>.
- T. Srinivas, S. V. Srinidhi and N.V. Ramana Rao, "A Review on Flexural Behavior of RCC Beams Made with Geopolymer Concrete", E3S Web of Conferences (**Scopus Indexed**), ICMED 2020, 184, 01096 (2020), Jul-20, <https://doi.org/10.1051/e3sconf/202018401096>.
- Srinivas. T, Abhignya. G and Ramana Rao. N.V. "A Review on Geopolymer RCC Beams made with Recycled Coarse Aggregate", E3S Web of Conferences (**Scopus Indexed**), ICMED 2020, 184, 01095 (2020), Jul-20, <https://doi.org/10.1051/e3sconf/202018401095>.
- T. Srinivas , P. Bhavana, and N. V. Ramana Rao, " Effect of Manufactured Sand on Flexural Behavior of Geopolymer RCC Beams: A review", E3S Web of Conferences (**Scopus Indexed**), ICMED 2020, 184, 01101 (2020), Jul-20, <https://doi.org/10.1051/e3sconf/202018401101>.
- S.P.Raju.V, Martha Saikumar, T.Srinivas, G.V.D.N. SaiVamsi and A. Vijaya Srinivas Srikar, " Experimental Study on Compressive Strength, Water Retention And Water Absorption of self-curing Concrete With Different Curing Conditions", E3S Web of Conferences (**Scopus Indexed**), ICMED 2020, 184, 01118 (2020), Jul-20, <https://doi.org/10.1051/e3sconf/202018401118>.
- K. Sai Gopi, T. Srinivas and S. P. Raju V, "Feasibility Study of Recycled Plastic Waste as Fine Aggregate in Concrete", E3S Web of Conferences (**Scopus Indexed**), ICMED 2020, 184, 01084 (2020), Jul-20, <https://doi.org/10.1051/e3sconf/202018401084>.
- C Vivek Kumar, MD Aiman Parvez and T Srinivas, " Strength Behaviour of Blended Self Cured Concrete made with Cement by partial replacement of Supplementary Cementitious Materials (SCM’s)", E3S Web of Conferences (**Scopus Indexed**), ICMED 2020, 184, 01100 (2020), Jul-20, <https://doi.org/10.1051/e3sconf/202018401100>.
- T. Srinivas, K. Veera Babu and Dr. N.V. Ramana Rao (2018), "Experimental Investigation on Mechanical Properties of Geopolymer Concrete when River Sand Replaced with

Manufactured Sand as Fine Aggregate", International Conference on Civil Engineering Emerging Economies (ICCEEE - 2k18), *Malla Reddy Engineering College (Autonomous)*, 15<sup>th</sup> September, 2018. Proceeding pp 165-170.

- T. Srinivas and G. Vinesh (2018), " Studies on acid attack Resistance of Geopolymer Concrete with manufactured Sand as Fine Aggregate", International Conference on Civil Engineering Emerging Economies (ICCEEE - 2k18), *Malla Reddy Engineering College (Autonomous)*, 15<sup>th</sup> September, 2018. Proceeding pp 171-175.
- T. Srinivas and P. Geethanjali Rathod (2018), " Studies on the Behaviour of Geopolymer Concrete with Manufactured Sand as Fine Aggregate when Exposed To Elevated Temperatures", International Conference on Civil Engineering Emerging Economies (ICCEEE - 2k18), *Malla Reddy Engineering College (Autonomous)*, 15<sup>th</sup> September, 2018. Proceeding pp 211-215.
- T. Srinivas and Dr. N.V.Ramana Rao (2017), "Accelerated Corrosion Induced Cracking Test on Reinforced Geopolymer Concrete", International Conference on Composite Materials and Structures (ICCMS-2017), IIT Hyderabad, 27<sup>th</sup> -29<sup>th</sup> December, 2017. Proceeding pp 245-254.
- T. Srinivas and Dr. N.V.Ramana Rao (2016), "Studies on the Behaviour of Low Calcium Flyash and Slag Based Geopolymer Concrete under Sea Water" 7th International Conference on Recent Innovations in Science, Engineering and Management (ICRISEM-16) , The Institution of Engineers, New Delhi (India) on 16 September 2016, ISBN: 978-93-86171-07-8, Proceeding pp 177-199.
- T. Srinivas, Dr. N.V.Ramana Rao and V.Venkat Ramana Reddy (2016), "Experimental Investigation on Strength Property of Low Calcium Fly Ash Based Geopolymer Concrete" International Conference on Smart Sustainable Cities, ICSSC-2016, V.R. Siddhartha Engineering College from 26<sup>th</sup> to 27<sup>th</sup> February, 2016, ISBN: 978-81-930411-7-8, Proceeding pp 19-28.

### **National:**

- T. Srinivas and G. Sukesh Reddy (2019), "Impact Resistance of Geopolymer Concrete made with Replacement of Coarse Aggregate by Recycled Aggregate", National Conference on Recent Innovations in Civil Engineering Materials (RICEM 2019), Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, on 17<sup>th</sup> August 2019, ISBN: 978-93-5361-946-6, Proceeding pp 38-47.

- T. Srinivas, G.Sravani, D. Divya and A.Mounika (2019), “Experimental Investigation on Mechanical Properties of Geopolymer Concrete made with Partial Replacement of Coarse Aggregate by Recycled Aggregate”, National Conference on Recent Advances in Civil Engineering (NCRACE 2019), JNTUH, Hyderabad, on 5<sup>th</sup> July 2019, ISBN: 978-93-8830-599-0, Proceeding pp 43-46.
- T.Srinivas, V.Rahul and Dr. N. V. Ramana Rao (2017), “Studies on Permeability and Sorptivity of Low Calcium Fly Ash and Slag Based Geopolymer Concrete”, National Conference on Recent Innovations in Civil Engineering (RICE 2017), Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, During 15<sup>th</sup> – 16<sup>th</sup> December 2017, ISBN: 978-93-5279-269-6, Proceeding pp 387-394.
- T.Srinivas, O.Srinath and G.Bharath (2017), “ A Brief Review on Strength and Durability Properties of Fly Ash and Slag Based Geopolymer Concrete ”, National Conference on Recent Innovations in Civil Engineering (RICE 2017), Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, During 15<sup>th</sup> – 16<sup>th</sup> December 2017, ISBN: 978-93-5279-269-6, Proceeding pp 370-376.
- T. Srinivas and Dr. N.V.Ramana Rao (2016), “Behaviour of Low Calcium Fly Ash and Slag Based Geopolymer Concrete in Sulphate Environment”, National Conference on Sustainable Materials and Management systems in Civil Engineering (NCS2MCE’16), Chaitanya Bharathi Institute of Technology, Hyderabad, During 15<sup>th</sup> – 16<sup>th</sup> December 2016, ISBN: 978-81-932824-8-9, Proceeding pp 315-325.
- T. Srinivas and Dr. N.V.Ramana Rao (2014), “Mechanical Properties and Cost Evaluation of Concrete with High Volume Fly Ash”, National Conference On Recent Research Advances in Civil Engineering ,RRACE-2014, Osmania University Hyderabad, from 7<sup>th</sup> to 8<sup>th</sup> November, 2014, Proceeding pp: 366-370.

### **Patents:**

- Title of Investigation: “A System for Manufacturing Eco-Friendly Paper Plastic Paving Blocks Using Wastepaper and Plastic” Patent application no: 202341038268 A, Publication Date: 01/09/2023, Applicant: Dr. T. Srinivas.
- Title of Investigation: “Earthquake-Resistant Building Technologies” Patent application no: 202441056409, , Publication Date: 02/08/2024, Applicant: Dr. T. Srinivas

## **PROFESSIONAL WORK**

### **Talks/Paper Presentations:**

- Delivered lecture as resource person on “Geopolymer Concrete (Concrete without Cement)” in Three Day Online Faculty Development Program on “Recent Advances in Concrete Technology & Sustainable Infrastructure” During 21 – 23 May, 2020 organized by Department of Civil Engineering, GRIET, Hyderabad.
- Research paper presented on Experimental Investigation on Mechanical Properties of Geopolymer Concrete when River Sand Replaced with Manufactured Sand as Fine Aggregate at International Conference on Civil Engineering Emerging Economies (ICCEEE - 2k18), *Malla Reddy Engineering College (Autonomous)*, 15<sup>th</sup> September, 2018.
- Research paper presented on Studies on acid attack Resistance of Geopolymer Concrete with manufactured Sand as Fine Aggregate at International Conference on Civil Engineering Emerging Economies (ICCEEE - 2k18), *Malla Reddy Engineering College (Autonomous)*, 15<sup>th</sup> September, 2018.
- Research paper presented on Studies on the Behaviour of Geopolymer Concrete with Manufactured Sand as Fine Aggregate when Exposed To Elevated Temperatures at International Conference on Civil Engineering Emerging Economies (ICCEEE - 2k18), *Malla Reddy Engineering College (Autonomous)*, 15<sup>th</sup> September, 2018.
- Research paper presented on Accelerated Corrosion Induced Cracking Test on Reinforced Geopolymer Concrete at International Conference on Composite Materials and Structures (ICCMS-2017), IIT Hyderabad, 27<sup>th</sup> -29<sup>th</sup> December, 2017.
- Research paper presented on Water Absorption Capacity of Low Calcium Fly Ash and Slag based Geopolymer Concrete at International Conference on Innovations in Civil and Structural Engineering (ICICSE'16), Phuket (Thailand) during December 12-13, 2016.
- Research paper presented on Studies on Acid Attack Resistance of Low Calcium Fly Ash and Slag Based Geopolymer Concrete at International Conference and Exhibition on Recent Developments in Design and Construction Technologies of Tall Structures (REDECON-2016), organised by Association of Consulting Civil Engineers (India) at NIMHANS Convention Centre, Bengalure from 9<sup>th</sup> to 12<sup>th</sup> November 2016.
- Research paper presented on Studies on the Behaviour of Low Calcium Flyash and Slag Based Geopolymer Concrete under Sea Water at 7th International Conference on Recent Innovations in Science, Engineering and Management (ICRISEM-16) , The Institution of Engineers, New Delhi (India) on 16 September 2016.
- Research paper presented on Experimental Investigation on Strength Property of Low Calcium Fly Ash Based Geopolymer Concrete at International Conference on Smart Sustainable Cities, ICSSC-2016, V.R. Siddhartha Engineering College from 26<sup>th</sup> to 27<sup>th</sup> February.
- Research paper presented on Behaviour of Low Calcium Fly Ash and Slag Based Geopolymer Concrete in Sulphate Environment at National Conference on Sustainable

Materials and Management systems in Civil Engineering (NCS2MCE'16), Chaitanya Bharathi Institute of Technology, Hyderabad, During 15<sup>th</sup> – 16<sup>th</sup> December 2016.

- Research paper presented on Studies on Permeability and Sorptivity of Low Calcium Fly Ash and Slag Based Geopolymer Concrete at National Conference on Recent Innovations in Civil Engineering (RICE 2017), Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, During 15<sup>th</sup> – 16<sup>th</sup> December 2017.
- Research paper presented on Mechanical Properties and Cost Evaluation of Concrete with High Volume Fly Ash”, National Conference On Recent Research Advances in Civil Engineering ,RRACE-2014, Osmania University Hyderabad, from 7<sup>th</sup> to 8<sup>th</sup> November, 2014.

#### **FDP/Workshops Attended and Conducted:**

- Conducted One Week online FDP on “Advancements in Construction Materials and Practices” at Department of Civil Engineering, GRIET, Hyderabad during 30-07-2024 to 03-08-2024.
- Conducted One Week online FDP on “Advancements in Construction Materials and Practices” at Department of Civil Engineering, GRIET, Hyderabad during 13-02-2023 to 17-02-2023.
- Attended FDP on “NEP-2020 Perspective Management Capacity Enhancement Program-2024 (NEPMCEP-2024) in Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad during 4 - 7 March, 2024.
- Attended One-Week AICTE Online Orientation Training Programme for Mentors under National Initiative for Technical Teachers Training organized by NITTTR Chennai from 26<sup>th</sup> to 30<sup>th</sup> July, 2021.
- Attended NPTEL online Certification Course on Project Planning and Control during 14<sup>th</sup> September - 6<sup>th</sup> November 2020.
- Attended a Three Day Online Faculty Development Program on “Recent Advances in Concrete Technology & Sustainable Infrastructure” During 21 – 23 May, 2020 organized by Department of Civil Engineering, GRIET, and Hyderabad.
- Attended One Week Online AICTE MARGDARSHAN Faculty Development Program on “Art of Writing Papers and Research Methodologies during 07 - 13 May 2020 organized by GRIET, Hyderabad.
- Attended NPTEL online Certification Course on Earthquake Geology-A Tool for Seismic Hazard Assessment during January-April 2020.
- Attended Two week SWAYAM TEQIP Online Certification Course on Digital Transformation in Teaching Learning Process during 17<sup>th</sup> January- 7<sup>th</sup> February 2020.
- Attended NPTEL online Certification Course on Design of Reinforced Concrete Structures during July-October 2019

- Conducted Two- Week Workshop on the “Practical Exposure on Building Construction (Building Drawing and Setting out)” at Department of Civil Engineering, GRIET, Hyderabad during 09-09-2019 to 21-09-2019.
- Attended NPTEL online Certification Course on Infrastructure Planning and Management during January-April 2019.
- Attended NPTEL online Certification Course on Advanced Concrete Technology during August-October 2018.
- Attended Two-Week AICTE approved FDP Pedagogy for Online and Blended Teaching-Learning Process (FDP201x) under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNTT) conducted by IITB from 03 May to 30 May 2018.
- Attended Two-Week AICTE approved FDP on Foundation Program in ICT for Education (FDP101x) under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNTT) from 08 March to 12 April 2018.
- Attended NPTEL online Certification Course on Hydration, Porosity and Strength of Cementitious Materials during February-March 2018.
- Conducted Two- Week Workshop on the “Practical Exposure on Building Construction (Building Drawing and Setting out)” at Department of Civil Engineering, GRIET, Hyderabad during 9-10-2017 to 21-10-2017.
- Attended Three Day Comprehensive Training Course on “MIDAS CIVIL” at Department of Civil Engineering, GRIET, Hyderabad from 20<sup>th</sup> to 22<sup>nd</sup> July, 2017.
- Attended Five Day Faculty Development Programme on “MATLAB Applications in Civil Engineering” at Department of Civil Engineering, GRIET, Hyderabad from 27<sup>th</sup> February, 2017 to 3<sup>rd</sup> March, 2017.
- Attended one day workshop on “Advances in Concrete Technology and Good Construction Practices (ACTGCP-2016)” 26<sup>th</sup> May, 2016 organized by Department of Civil Engineering, JNTUH College of Engineering, Hyderabad.
- Attended Two Week ISTE Short term Training Programme (STTP) on “Introduction to Structural Engineering” from 30<sup>th</sup> November, 2015 to 9<sup>th</sup> January, 2016 at GRIET, Hyderabad associated with IIT Kharagpur.
- Attended Concrete Construction Technology Summit for Three day at HITEK Exhibition Centre, Hyderabad organized by Indian Concrete Institute, Hyderabad.
- Attended JNTUH-CPWD workshop for one day on “Construction & Demolition Waste Recycling (CDWR)” on 28-02-2015 at JNTUH, Hyderabad.
- Attended Two Week ISTE Short term Training Programme (STTP) on “Pedagogy for Effective use of ICT in Engineering Education” from 05<sup>th</sup> to 25<sup>th</sup> January, 2015 at GRIET, Hyderabad associated with IIT Mumbai.
- Co convener for STEPS-2014, a Two Day national workshop on “Sustainable Technologies in Civil Engineering: Perspective and Strategies” on 16-17 December, 2014, GRIET, Hyderabad.

- Attended STEPS-2013, a Two Day national workshop on “Sustainable Technologies in Civil Engineering: Perspective and Strategies” on 27-28 December, 2013, GRIET, Hyderabad.
- Attended Two Day national workshop on “Intelligent Surveying using Total Station” on 25-26 March, 2013, GRIET, Hyderabad.
- Attended Six Day Training Programme sponsored by APSICHE in association with JNTUH for the Faculty Members of Engineering Colleges from 13<sup>th</sup> to 18<sup>th</sup> February, 2012 in the subject of Engineering Drawing at KGR CET, Chilkur, Moinabad, Hyderabad.

**Association with Professional Bodies:**

- Life Member of Institute of Engineers (India) (MIE), M -142802-5.
- Chartered Engineer, The Institution of Engineers (IE), India, M -142802-5.
- Life Member of ACCE (India), Membership No. 8061 L.

**Other Honors:**

- Question paper setter for JNTUH Hyderabad, CBIT, MGIT, CVR, Malla Reddy Engg. College and VJIET, Hyderabad for B.Tech and M.Tech.
- External Examiner for CVR, Kg Reddy Engineering College, VJIET for B.Tech and M.Tech projects.
- Staff Selection Commission Member for Kg Reddy Engineering College, Hyderabad.