
Dr. SSHA RATNAM PASALAPUDI

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ADDRESS:

Department of Civil Engineering
Gayatri Vidya Parishad College for Degree
and PG Courses (A), Rushikonda, Visakhapatnam-530045

QUALIFICATIONS:

Ph.D (2022) (Structures) from Andhra University, Visakhapatnam.

Research Guide: Prof. K.Srinivasa Rao

Area of Research: Performance of heat affected reinforced concrete beams subjected to high temperatures after repair.

(Awarded –24th June, 2022)

M.E (STRUCTURAL ENGINEERING) - First Class from Andhra University.

B.E (CIVIL) (2013) – First Class from Andhra University

Intermediate (2008) – First class from Sri Chaitanya Junior College

10th class (2006) – First class from Bhashyam Public School

EXPERIENCE:

June 2013 – December 2013 (Assistant Professor, Dept. of Civil Engineering, Gayatri Vidya Parishad, Technical Campus. (Subjects: Strucutal Analysis, Environmental engineering)

March 2014 – December 2020 (Full-Time Ph.D in Andhra University College of Engineering, taught Surveying, Structural Analysis and handled Strength of Materials Laboratory)

April 7, 2021 – Till date (Assistant Professor, Dept. of Civil Engineering, Gayatri Vidya Parishad, Technical Campus. (Subjects: Civil Engineering Materials, Geotechnical Engineering, Foundation Engineering, Steel Structures, Structural Dynamics, Concrete Technology and handle Building Materials Lab and Strength of Materials Laboratory)

PROJECTS GUIDED: Guided 4 B.Tech Project and 2 M.Tech Projects.

RESEARCH PUBLICATIONS: 8 Research papers published in Reputed National Journals/ Conferences, 4 Patents Published

LIST OF PUBLICATIONS:

1. Sesha Ratnam, P., and Srinivasa Rao, K., Effect of High temperatures on RCC beams, Indian Concrete Institute Journal, Vol. 19, March 2019, pp. 7-12.
2. Sesha Ratnam, P., and Srinivasa Rao, K., Performance of Heat Affected RC Beams after Repair, International Journal of Applied Engineering Research, Vol. 14 (4), February 2019, pp. 917-924.
3. Sesha Ratnam, P., and Srinivasa Rao, K., Non Destructive Evaluation of Heat Affected Reinforced Concrete Beams after Repair, CBIT National Conference on sustainability of structures. ISBN: 978-81-932824-8-9, December 2016, pp. 331-338.
4. Sesha Ratnam P., Sudhir, V., Santosh, K.G., Kranthi K.G., Areeda Batu (2021), Structural Classification of Basalat FRP at High Temperatures, Advances in Material Science Engineering (SCI)
5. Sesha Ratnam, .P and Divya, M.N.R. , Stimulation of Blast Effect on Multi-Story Building Using Ansys – A Review, International Research Journal of Engineering and Technology (IRJET), Vol. 09 (05), May 2022, pp. 50-55.
6. Sesha Ratnam, .P and Jyothi Mrudula, .S, Review paper on self curing concrete using spinach as bio admixture, International Research Journal of Engineering and Technology (IRJET), Vol. 10 (06), May 2023, pp. 878-884

7. Sesha Ratnam, P., Pallavi, P., Navyasri, P., Kishore Reddy, K., and Sharmila, K., Performance of Concrete with Different Types of Cactus as Admixtures- A Comprehensive Review, Journal of Engineering Technology Management, Vol. 76, April 2025, pp. 142-155.
8. Pallavi, P., Sesha Ratnam, P., Vinay Kumar, R., Neeraj Sai, B., and Yashoda, B., A Review on Evaluating SMA for Durable Pavements by Using Different Stabilizing Additives, Journal of Engineering Technology Management, Vol. 76, April 2025, pp. 113-133.
9. Sesha Ratnam, P., Srinivasa Rao, K., and Vidya, B., A Method for Evaluating and Analysing the Performance of Heat-Affected Reinforced Concrete Beams – Patent Application No. 202541031561 A, published on April 25, 2025.
10. Vidya, B., A Srinivasa Rao, K., and Sesha Ratnam, P., A Method for Evaluating Thermal Stability of Concrete Using Thermogravimetric Analysis – Patent Application No. 202541031560 A, published on April, 2025.
11. Sesha Ratnam, P., K. Sai Krithika, V. Haveela Karuna Priya, K. Venkata Raju, J. Chinna Study on Luminous Concrete using Glow Aggregates – Patent Application No. 202641053716 A, published on May, 2026.
12. Sesha Ratnam, P., and Savalapuram Giri, Cementless paver blocks using plastic waste and sea sand – Patent Application No. 202641070847 A, published on June, 2026.

PROFESSIONAL ACTIVITIES: Qualified in GATE 2012 Exam.

Awarded RGNF Fellowship for the year 2015-2016, under University Grants Commission (UGC), Government of India to support Ph.D based on academic merit and eligibility criteria.

Participated in paper presentations.

Actively organized conferences and workshops conducted in our college.

Attended a 2- day National Conference on Sustainable Materials and Management Systems in Civil Engineering (NCS2MCE-2016) at *CBIT, Hyderabad*.

Attended a 5- day course on Analysis and Design of Structures in Fire (ADSF-2017) at *NIT, Jamshedpur*.

Attended a 5 day FDP on BIM (Building Information Module) at *GVPCDPGC, Visakhapatnam, 2022*

Submitted A Project Proposal in *MSME Women Hackathon 3.0 in 2023* and was proceeded to the second stage of Evaluation

Worked as an Active Member of the Criteria work in NAAC.

Received Mentor Certificate for NPTEL

Selected for YUKTI Innovation Scheme and proceeded for second stage.

DECLARATION

I here by declare that the information furnished above is true to the best of my knowledge.

Station: Visakhapatnam,



P. SESHU RATNAM