

# CURRICULUM VITA



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**Research Gate ID:**

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## PROFILE

- Diploma (Civil) from Jawaharlal Nehru Govt. Polytechnique, Hyderabad, in 2006.
- Graduated (B. Tech, CE) from Bapatla Engineering College, Guntur, in 2010.
- Master of Technology (Structural Engineering) JNTU, Kakinada, in 2012.
- Ph.D from National Institute of Technology Karnataka, Surathkal in July 2019
- Worked as Assistant Professor in Gayatri Vidya Parishad College of Engineering, Visakhapatnam (2013- 2015).

- Working as Assistant Professor, RVR & JC College of Engineering, Guntur, 2019-till date

### **AWARDS/APPRECIATION**

- Elected as Secretary for Indian Society for Earthquake Technology (ISET), Guntur Chapter Committee elections, for the term 2021–23, held on Feb. 21, 2021.
- Chaired a Session in the First National Virtual Conference on Sustainable Innovative Trends in Civil Engineering (SITCE-2021) organized by Vignan Bharathi Institute of Technology during Feb. 5–6, 2021.

### **GUEST LECTURES DELIVERED**

- Delivered a lecture on “Computational Mechanics”, organized by Department of Civil Engineering, Malla Reddy Engineering College, Maissammaguda, Hyderabad, on March 13, 2021.

### **PROFESSIONAL SOCIETIES**

- Life Member of ISET
- Member of AMIE

### **CONSULTANCY PROJECTS**

- Proof Check for G+11 storey building Comprising of 120 building units given by ACS consultancy, Bangalore. Sep. 2017 – Nov. 2017
- Proof Check for G+9 type-II residential buildings for CISF of 240 building units given by Hombale constructions and estates private limited, Bangalore. March 2018 – May 2018

### **RESEARCH & SPONSORED GRANTS**

- Received Industrial Research Project grant of Rs 5,00,000/- from Vriddhi infra tech, Hyderabad for “Experimental Analysis of Sub and Super Structure Embedded in Cohesive and Cohesionless Soils”.

### **PROFESSIONAL TRAINING ATTENDED**

- Participated in workshop on “Finite Element Method with Emphasis on Composite Structures” on 13<sup>th</sup> – 18<sup>th</sup>, March. 2017 in IIT Hyderabad.
- Participated in workshop on “Mechanics of Fracture” on 19<sup>th</sup> – 23<sup>th</sup>, Dec. 2016 in IIT Madras.
- Participated in workshop on “Finite Element Method Theory and Programming” on 14<sup>th</sup> – 24<sup>th</sup>, July 2016 in IIT Hyderabad.
- Participated in Faculty Development Programme on “Finite Element Analysis Using MATLAB & Abaqus” on 27–29, Dec. 2020 in IIT Jammu.

- Participated in five-day online FDP on “Recent Research Trends in Civil Engineering” on 24–28, May 2021 in National Institute of Technology, Puducherry.
- Participated in 7<sup>th</sup> International Conference on “Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics” organized by Indian Society of Earthquake Technology, Department of Civil Engineering, IISc Bengaluru in association with Department of Earthquake Engineering, IIT Roorkee on 12–15, July, 2021.
- Participated in 7<sup>th</sup> International Conference, ‘Recent advances in geotechnical earthquake engineering and soil dynamics, Indian Society of Earthquake Technology, Department of Civil Engineering, IISc Bengaluru, Department of Earthquake Engineering, IIT Roorkee, July 12–15, 2021.
- Participated in five-day online FDP, ‘Recent research trends in civil engineering’, National Institute of Technology, Puducherry, May 24–28, 2021.
- Participated in one-week online STTP “Effective engineering teaching practices - Phase-IV” National Institute of Technical Teachers Training and Research (NITTTR), Kolkata, Oct. 25–30, 2021.
- Participated in one-week online FDP ‘Finite element analysis using MATLAB & Abaqus’ Departments of Mechanical and Civil Engineering, IIT Jammu, Dec. 27–29, 2020.

#### **RESEARCH PAPERS PUBLISHED (JOURNALS/CONFERENCES)**

- Kesava Rao, B. and Balu, A.S. (2018). “Assessment of cohesive parameters using high dimensional model representation for mixed mode cohesive zone model.” Structures, 19, 156–160. Elsevier. (SCIE & Scopus). <https://doi.org/10.1016/j.istruc.2019.01.004>
- Kesava Rao, B. and Balu, A.S. (2018). “Modeling of delamination in fiber reinforced composite using high dimensional model representation based cohesive zone model.” Journal of the Brazilian Society of Mechanical Sciences and Engineering, 41(6), 1–14. Springer. (SCIE & Scopus). <https://doi.org/10.1007/s40430-019-1761-4>
- Kesava Rao, B. and Balu, A.S. (2016). “Fracture characterization of bone using crack equivalent concept.” Structural Engineering Convention (SEC–2016), December 21–23, SERC–CSIR, Chennai, India.
- Kesava Rao, B. and Balu, A.S. (2017). “Modelling of delamination growth in composite using high dimensional model representation based cohesive zone model.” International Conference on Composite Materials and Structures (ICCMS 2017), December 27–29, IIT Hyderabad, India.
- Kesava Rao, B. and Balu, A.S. (2017). “Stochastic fracture characterization of composite using high dimensional model representation based cohesive zone model.” 7th International Conference on Theoretical Applied Computational and Experimental Mechanics (ICTACEM 2017), December 28–30, IIT Kharagpur, India.
- Kesava Rao, B. and Balu, A.S. (2018). “Simulation of an experimentally investigated single leg bending joint for mixed mode fracture.” 11th Structural Engineering Convention - 2018 (SEC–2018), December 19–21, Jadavpur University, Kolkata, India.
- Kesava Rao, B., Maruthi, V., Vineeth, V., and Madhusudhan Reddy. (2020). “Effect of shear walls on high rise buildings.” 4th International Conference on Advances in Civil

& Structural Engineering (ICACSE–2020), May 28–29, Government College of Engineering, Karad, Maharashtra, India.

- Kesava Rao, B., Sai babu, RS., Manoj kumar, P., Raju, R., Basha, SK., and Manideep, P. (2020). “Consequences of bracings on high rise buildings.” 4th International Conference on Advances in Civil & Structural Engineering (ICACSE–2020), May 28–29, Government College of Engineering, Karad, Maharashtra, India.
- R. Chandramohan, B. Kesava Rao and G. Sanijya, (2020) ‘Spatial - Temporal analysis on land use and land cover changes in Amaravathi, Andhra Pradesh using GIS’ International Journal of Advanced Research in Engineering and Technology, Vol. 11(7), 150–156.
- Kesava Rao, B., and Yasasswi, I. (2021) “Response spectrum-based pushover analysis for predicting earthquake induced forces in buildings.” National Conference on Sustainable Innovative Trends in Civil Engineering, Feb. 05–06, Vignana Bharathi Institute of Technology (A), Ghatkesar, Hyderabad, India.
- B. Kesava Rao, R. Chandramohan, G. Sanijya, Y. Naga Mahesh, (2021) “Shear walls induced reinforced concrete structures.” Turkish Journal of Computer and mathematics Education, Vol.12 (2), 1827–1834. (Scopus Indexed)
- B. Yellamanda Rao, Y. Naga Mahesh, A. Naga Sai, B. Kesava Rao, G. Naga Venkat, (2021) ‘Study on mechanical properties of concrete by fractional replacement of cement with metakaolin and sand with m-sand by using M30 grade’, Turkish Journal of Computer and Mathematics Education, Vol.12 (2), 1835–1840. (Scopus Indexed)
- R. Chandramohan, B. Kesava Rao, (2021) ‘Mapping groundwater potential zone of fractured layers using electric resistivity method and GIS techniques’, International Conference on Advances in Construction Technology and Management, College of Engineering, Pune, Mar. 11–12.