

# Shiva Reddy

## Curriculum Vitae

Research Scholar, Dept. of Civil Engineering  
IIT Hyderabad, Kandi(V), Sangareddy(M)  
☎ +91 8801241977  
✉ shivareddyk95@gmail.com  
📄 Google Scholar  
in LinkedIn



*I am currently a Ph.D. student in the Department of Civil Engineering, Indian Institute of Technology Hyderabad. My research interests are Phase-field modeling for microstructure evolution and fracture, Mechanics of Laminated Composites. I am currently working on phase-field modeling of hydrogen assisted fracture and hydride microstructure evolution in zirconium*

### Career Objective

- To obtain a long time career with an organization which has a strong background that provides a good opportunity for enhancement of professional and personal status. To contribute for the development of organization which hired me.

### Education

- 2019– **Indian Institute of Technology Hyderabad**, *Ph.D.*, Civil Engineering, *GPA:9.54/10*.
- 2013–2018 **Jawaharlal Nehru Technological University, Hyderabad**, *M.Tech*, Civil Engineering, Structures, *Marks secured: 85.56 %*.
- 2013–2018 **Jawaharlal Nehru Technological University, College of Engineering Hyderabad**, *B.Tech*, Civil Engineering, *Marks secured: 85.94 %*.
- 2011–2013 **Narayana Junior College, Hyderabad**, *Inter*, MPC, *Marks secured: 96.66 %*.

### Internship and Participations

- **Conference**, MAMM, *Oral presentation: Nonlocal buckling analysis of Nanoplates considering surface stress effects*, IIT Hyderabad, 03 -05 December, 2022.
- **Symposium**, NMAMLD, *Nonlocal Mechanics Approaches for Modeling Localized Deformations*, IIT Hyderabad, 7-8 June, 2022.
- **Workshop**, SEISMIC, *Computational Modeling of Damage and Seismic Vulnerability Assessment during Earthquakes in Building Systems*, IIT Hyderabad, 12-13 May, 2022.
- **Symposium**, NMAMLD, *Nonlocal Mechanics Approaches for Modeling Localized Deformations*, IIT Hyderabad, 19-21 February, 2020.
- **Conference**, ICCMS, *Oral presentation: Buckling Analysis of Laminated Composite Plates considering Nonlocal and Surface Stress effects*, IIT Mandi, 11-13 December, 2019.
- **Workshop**, NCAMM, *Poster presentation: Buckling Analysis of Laminated Composite Plates considering Nonlocal and Surface Stress effects*, IISC Bangalore, 9-11 July, 2019.
- **Conference**, ARMS, *Aerospace and Related Mechanism*, JNTU Hyderabad, 16-17 November, 2018.
- **Workshop**, SDDRBCB, *Seismic Design and Detailing of Reinforced Concrete Buildings*, JNTU Hyderabad, December, 2017.
- **Intern**, IVRCL Limited, *Chitrapuri Project, Hyderabad, Building Execution and Quality Control of High Raised Building*, May - June, 2016.
- **Workshop**, *Ground Improvement and Geosynthetics*, JNTU Hyderabad, 29 August, 2015.

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## Projects and Publications

- **M.Tech Project**, *Analytical Solutions for Buckling Analysis of Laminated Composite Plates considering non-Local and Surface stress effects*, under the guidance of Dr. Amirtham Rajagopal, Professor, IIT Hyderabad.
- **B.Tech Project**, *Analysis and Design of steel truss bridge for single track Railway bridge*, under the guidance of Dr. P. Srinivasa Rao, Professor, JNTUHCEH.
- **Publication**, *K Shiva, P. Raghu,A. Rajagopal, J.N. Reddy, Nonlocal buckling analysis of laminated composite plates considering surface stress effects*, Composite Structures, Volume 226, 2019.

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## Courses

### PhD.

Finite Element Analysis, Analysis and Design of Composite structures, Introduction to Computational Methods in Materials Science, Applied Elasticity and Plasticity, Linear Theory of Plates

### M.Tech.

Theory of Elasticity and Plasticity, Advanced RCC Design, Advanced Structural Analysis, Computer Oriented Numerical Methods, CAD - Lab, Structural Dynamics, Advanced Concrete Technology, Advance Concrete - Lab, Analysis of Plates and Shells, Earthquake Resistant Design of Buildings, Design of Prestressed Concrete, Principles of Bridge Engineering

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## Software Skills and Programming Language

- Matlab, Abaqus, Autocad, Staad, Etabs, C and Fortran Language

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## Personal Information

- Date of Birth: 24-01-1995
- Address: Plot No. 49, Priyadarshini Colony, Kuntloor road, Hayathnagar, Rangareddy, Hyderabad 501505

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## References

### Dr. Amirtham Rajagopal

*Professor*

*Department of Civil Engineering*

IIT Hyderabad

☎ +(040) 2301 6303

✉ rajagopal@ce.iith.ac.in

Institute Webpage

### Dr. Raghu Piska

*Assiatant Professor,*

*Department of Civil Engineering*

BITS Pilani Hyderabad

☎ +(040) 6630 3773

✉ raghupiska@hyderabad.bits-pilani.ac.in

Institute Webpage