Shiva Reddy

Curriculum Vitae

Research Scholar, Dept. of Civil Engineering
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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 microstructre 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 Assement 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**, *SDDRCB*, *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.

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 Hyderabd.
- **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.
- **Publication**, *P. Aurojyoti, K. Shiva, P. Raghu, A. Rajagopal*, *A nonlocal strain gradient model for buckling analysis of laminated composite nanoplates using CLPT and TSDT*, Meccanica, 2023 (Accepted for publication).

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, Eqrthquake Resistant Design of Buildings, Design of Prestressed Concrete, Principles of Bridge Engineering

Software Skills and Programming Language

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

Personal Information

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

References

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