

Name of Faculty Dr. Preethi Kasirajan  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 02-03-2022  
 E-mail kpreethi\_civil@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Civil Engineering)	Awarded
PG	M. Tech. (Structural Engineering)	First
UG	B. E. (Civil Engineering)	First

Work Experience

Teaching	0
Research	7 years
Industry	--
Others	--

Area of Specialization Structural Engineering, Computational Mechanics

Professional Memberships --

Responsibilities held at Institution Level --

Responsibilities held at Department Level --

Research Guidance

- Guiding one M.E. student at present.
- Recipient of Deutscher Akademischer Austauschdienst (DAAD) scholarship to carry out research at University of Stuttgart, Germany for a period of one year (October 2016 to September 2017).

Awards Received

- Graduated Bachelor's degree as University rank holder (24<sup>th</sup> rank) from Government Engineering College affiliated to Anna University.

Courses Handled at Under Graduate / Post Graduate Level. --

No. of Papers Published

National Journals – 0	International Journals – 4
National Conference – 0	International Conference – 4

Projects Carried out --

Patents --

Technology Transfer --

Invited Speaker

- Speaker in Indo-German workshop on Solid Mechanics organized by University Grants Commission (UGC) and Deutscher Akademischer Austauschdienst (DAAD) held at Indian Institute of Technology Delhi in March 2018.

No. of Books/Chapter Published with details --

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (**Attended and/or Organized**). --

Details of Journal Publications/Conferences (**National and International**)  
**International Journals**

- P. Kasirajan, S. Bhattacharya, A. Rajagopal, J. N. Reddy. Phase Field Modeling of Fracture in Quasi Brittle Materials using Natural Neighbor Galerkin Method. *Computer Methods in Applied Mechanics and Engineering*, 366:113019, 2020.
- P. Kasirajan, P. Raghu, A. Rajagopal, J. N. Reddy. Nonlocal Nonlinear Bending and Free Vibration Analysis of a Rotating Laminated Nano Cantilever Beam. *Mechanics of Advanced Materials and Structures*, 25:439-450, 2018.

3. P. Raghu, P. Kasirajan, A. Rajagopal, J. N. Reddy. Nonlocal Third-order Shear Deformation Theory for Analysis of Laminated Plates Considering Surface Stress Effects. *Composite Structures*, 139:13-29, 2016.
4. P. Kasirajan, A. Rajagopal, J. N. Reddy. Surface and Nonlocal Effects for Nonlinear Analysis of Timoshenko Beams. *International Journal of Non-Linear Mechanics*, 76:100-111, 2015.

#### **International conferences**

1. P. Kasirajan, S. Bhattacharya, and A. Rajagopal. A Phase Field Approach to Damage Modeling in Composites using Natural Neighbor Galerkin Method. 4<sup>th</sup> International Conference on Mechanics of Composites, Madrid, Spain (July 2018).
2. P. Kasirajan, F. Aldakheel, M. A. Keip, and A. Rajagopal. A phase Field Approach for Modeling Damage using Natural Neighbor Galerkin Method. 5<sup>th</sup> International Conference on Computational Modeling of Fracture and Failure in Materials and Structures, Nantes, France (June 2017).
3. P. Kasirajan and A. Rajagopal. Meshless Natural Neighbor Galerkin Method for Nonlinear Analysis of Composite Laminates. 18<sup>th</sup> International Conference on Composite Structures, Lisbon, Portugal (Jun 2015).
4. P. Kasirajan and A. Rajagopal. Nonlocal Nonlinear Finite Element Formulation for the Analysis of Beams considering Surface Stress Effects. 5<sup>th</sup> International Congress on Computational Mechanics and Simulation, Chennai (December 2014).