

Curriculum Vitae  
**Dr. Raghavan Ramalingam**  
National Institute of Technology, Tiruchirappalli

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1. **Name:** Raghavan Ramalingam
2. **Designation:** Assistant Professor
3. **Office Address:** C17, Department of Civil Engineering
4. **Mobile:**+91-99404 49658
5. **Email:** raghavanr@nitt.edu
6. **Field(s) of Specialization:** Steel structures, structural mechanics, stability of structures

### 7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	SASTRA University	December 2016	April 2018
	National Institute of Technology	May 2018	Present

### 8. Academic Qualifications

Degree	Board / University	Year	Subjects
M.S. + Ph.D. (dual degree)	Indian Institute of Technology Madras	2016	Structural Engineering
B.Tech	National Institute of Technology Tiruchirappalli	2010	Civil Engineering

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
In-charge, structural engineering laboratory	Civil Engineering Department, National Institute of Technology Tiruchirappalli	Feb 2019	Till Date
MIS, Time Table coordinator	Civil Engineering Department, National Institute of Technology Tiruchirappalli	July 2019	May 2021
Board of Studies	Civil Engineering Department, National	March	July 2020

**Curriculum Vitae**  
**Dr. Raghavan Ramalingam**  
National Institute of Technology, Tiruchirappalli

coordinator (B.Tech)	Institute of Technology Tiruchirappalli	2020	
Programme coordinator, M.Tech Structural Engineering	Civil Engineering Department, National Institute of Technology Tiruchirappalli	June 2022	Till Date
Associate Dean Academic (UG- II)	National Institute of Technology Tiruchirappalli	March 2021	Till Date

**10. Academic/Administrative Responsibilities outside the University**

Position	Institution	From	To
NIL	NIL	NIL	NIL

**11. Awards, Associateships etc.**

Year of Award	Name of the Award	Awarding Organization
NIL	NIL	NIL

**12. Fellowships**

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
NIL	NIL	NIL	NIL	NIL

**13. Details of Academic Work**

(i) **Curriculum Development:** NIL

(ii) **Courses taught**

Advanced Mechanics of Solids, Theory of Plates and Shells, Steel Structures-II, Mechanics of Solids-II, Engineering Mechanics, Strength of Materials, Basic Reinforced Concrete Design, CAD Lab (UG & PG), Metro Systems and Engineering, Advanced Structural Analysis, Advanced Reinforced Concrete Design, Hydraulics and Fluid Machinery, Theory of Elasticity and Plasticity.

(iii) **Projects guided at Postgraduate level (Past 3 years)**

- i. Deflection of transmission line tower based on joint deformation - 2017
- ii. In-plane compression behavior of steel profile sheets - 2017
- iii. Numerical analysis of thin gusset plates in compression - 2019
- iv. Buckling Analysis Of Cold Formed Steel Channel Section Columns With Longitudinal Stiffeners - 2019
- v. Post Buckling Strength Of Single Layer Domes Under Distributed Loading –2019
- vi. Behaviour of Gusset Plates Connecting Angle Sections in Compression – 2020
- vii. Effect of Partial Closing of the Open Face of Cold-formed Steel Channel Sections– 2020
- viii. Application of Generalized Beam Theory to Trapezoidal Profile Sheets – 2020

**Curriculum Vitae**  
**Dr. Raghavan Ramalingam**

National Institute of Technology, Tiruchirappalli

- ix. Experimental and Numerical Study of Bolt Slip in Transmission Towers – 2020
- x. Sensitivity of reticulated systems to topological and material property deviations – 2021
- xi. Failure of gusset plates connecting angle sections – 2021
- xii. Generalised beam theory (GBT) for thin-walled sections – 2021
- xiii. Retrofitting of transmission line tower leg – 2022
- xiv. Failure analysis of gusset plate connections – 2022

**14. Details of Major R&D Projects**

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Application of Natural Fiber Reinforced Polymers as Alternative to Synthetic Fiber Reinforced Polymers	TATA Steel Advanced Materials Research Center	June 2021	June 2022	Ongoing (Phase 2 subject to outcomes of Phase 1)

**15. Number of PhDs guided**

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
NIL	NIL	NIL	NIL

**16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)**

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
Nov 2019	AICTE Sponsored Faculty Development Programme on “Analysis and limit state design of structural steelwork as per IS 1893:2016 and IS:800-2007	National	Speaker	AICTE	GCE Salem
May 2020	Recent Advancements in Civil Engineering Challenges and Future Perspectives	National	Speaker	ICI	Shri Vishnu Engineering College for Women

Curriculum Vitae  
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**17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)**

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Open Steel Design and Graphics	National	Feb 2018	Coordinator	SASTRA deemed University, Thanjavur

**18. Invited Talks delivered**

Topic	Date	Inviting Organization
Research Trends in Transmission Line Tower Testing and Strengthening	26 May 2020	Shri Vishnu Engineering College for Women

**19. Membership of Learned Societies**

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Ordinary Member	Structural Stability Research Council	-

**20. Academic Foreign Visits**

Country	Duration of Visit	Programme
Singapore	October 2013 – 1 week	Pacific Structural Steel Conference
Czech Republic	March 2016 – 1 week	International Conference on Structural Engineering, New Technologies & Methods
United States of America	March 2022 – 1 week	Annual Stability Conference

## 21. Publications

### (A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year
Raghavan Ramalingam & S. Arul Jayachandran	Postbuckling behavior of flexibly connected single layer steel domes	Journal of constructional steel research	114	136-145	2015
Raghavan Ramalingam & S. Arul Jayachandran	Computational framework for mimicking prototype failure testing of transmission line towers	Engineering Structures	123	181-191	2016
Raghavan Ramalingam & S. Arul Jayachandran	A computational method for the inelastic postbuckling of steel space structures with bolt slip	International journal of structural stability and dynamics	17(4)	1750044 1-21	2017
B. Gayathri & Raghavan Ramalingam	Joint stress based deflection limits for	Steel and composite structures	26(1)	45-53	2018
R.S. Priyanga & Raghavan Ramalingam	In-Plane Compression Behaviour of Steel Profile Sheets	International Journal of Steel Structures	19(1)	293-300	2019
Manoj Kumar, D. Alexpandiyar & Raghavan Ramalingam	Effect of Partial Closing of the Open Face of Cold-Formed Steel Channel Sections	Journal of The Institution of Engineers (India): Series A volume	102	153-162	2021

**Curriculum Vitae**  
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(B) Conferences/Workshops/Symposia Proceedings

<b>Date (s)</b>	<b>Title of Activity</b>	<b>Level of Event</b>	<b>Role</b>	<b>Event Organized by</b>	<b>Venue</b>
Oct 2013	Pacific Structural Steel Conference	International	Paper presenter	National University of Singapore	Singapore
Dec 2014	9 <sup>th</sup> Structural Engineering Convention	International	Paper presenter	IIT Delhi & CSIR-SERC	Delhi
March 2016	International Conference on Structural Engineering, New Technologies & Methods	International	Paper presenter		Prague
March 2017	International conference on infrastructural issues in emerging economies	National	Paper presenter	SASTRA University	Thanjavur
December 2018	11 <sup>th</sup> Structural Engineering Convention	International	Paper Presenter	Jadavpur University	Kolkata
November 2019	AICTE Sponsored Faculty Development Programme on “Analysis and limit state design of structural steel work as per IS 1893:2016 and IS:800-2007	National	Speaker	Government College of Engineering	Salem

Curriculum Vitae  
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April 2020	Annual Stability Conference	International	Speaker	Structural Stability Research Council	Atlanta, USA (via Online due to COVID pandemic)
March 2022	Annual Stability Conference	International	Speaker	Structural Stability Research Council	Denver, USA

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
NIL	NIL	NIL	NIL	NIL

**22. Project Details List:**

Ongoing Projects & Past Projects

i. Ongoing Projects:

Sl. No	Project Title	Project Invigilator & Co PI	Project Area	Funding Agency
1	Application of Natural Fiber Reinforced Polymers as Alternative to Synthetic Fiber Reinforced Polymers	PI: Dr. R. Manjula Co-PIs: Raghavan R and Dr. G. Swaminathan	Sustainable Materials	TATA Steel Advanced Materials Research Center

ii. Past / Completed Projects:

Sl. No	Project Title	Project Invigilator & Co PI	Project Area	Funding Agency	Completed Year
	NIL	NIL	NIL	NIL	NIL

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