

Dr Senthilkumar R

Assistant Professor & Associate Dean (P & D – Civil)

**Fields of Specialization**

Earthquake Resistant Design of Structures, Steel – Concrete Composite Structures and Development of new alternative materials

Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology Trichy	March 2018	Present
Assistant Professor (Sr.)	Vellore Institute of Technology (VIT), Vellore	May 2017	March 2018
Assistant Engineer	Rural Development and Panchayat Raj Department, Govt. of Tamil Nadu	November 2011	June 2012
Management Trainee Engineer	Afcons Infrastructure Ltd	July 2011	November 2011

Academic Qualifications

Examination	Board / University	Year	Subjects
Ph.D.	Indian Institute of Technology Madras, Chennai	2017	Structural Engineering
M.E.	College of Engineering, Guindy	2011	Structural Engineering
B.E.	Alagappa Chettiar College of Engineering & Technology, Karaikudi	2009	Civil Engineering

Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/ Institution	From	To
Associate Dean (Planning and Development)	NIT Trichy	January 2020	Present
M.Tech. (Structural Engg) Coordinator	NIT Trichy	February 2019	Present
SoM Lab In Charge	NIT Trichy	November 2019	Present
Time Table and MIS Coordinator	NIT Trichy	May 2018	November 2019
Time Table Coordinator	Civil / VIT Vellore	October 2017	March 2018
Anti-Ragging Committee Member	VIT Vellore	June 2018	March 2018

UGC Committee Member	VIT Vellore	September 2017	January 2018
Master's Thesis Review Panel Member	Structural Engineering / VIT Vellore	August 2018	March 2018

Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2011	Best Placement Ambassador	College of Engineering, Guindy

Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2017	Institute Post-Doctoral Fellowship	IIT Madras	January 2017	May 2017
2012	HTRA Fellowship	MHRD	July 2012	January 2017
2009	HTTA Fellowship	MHRD	August 2009	May 2011

Details of Academic Work

(i) Curriculum Development

- a. Advanced Design of Metal Structures (M. Tech)

(ii) Courses taught at Postgraduate and Undergraduate levels

- a. Engineering Mechanics, Construction Materials, Engineering Drawing, Natural Disaster Mitigation and Management, Basic Steel Structural Elements and Advanced Steel Structural Elements (UG)
- b. Structural Dynamics and Earthquake Resistant Design of Structures (PG)

(iii) Number of Projects guided at Postgraduate level

- a. **PG: 9** (Completed), **5** (Ongoing)
- b. **PhD: 3** (Ongoing)

Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc.

Date (s)	Title of Activity	Level of Event (International/ National)	Event	Venue
2020	A Study on Structural Behaviour of Hot-Rolled Steel Compression Members Under Thermal Loading	International	ISSC 2020	IIT Hyderabad
2020	Behaviour of Self Tapping Screws Under Shear	International	ISSC 2020	IIT Hyderabad

2020	Finite Element Modeling of Double Plate Flat Composite Shear Wall Under Lateral Load	International	<i>ISSC 2020</i>	IIT Hyderabad
2019	Retrofitting Methods For Shear Strengthening of RC Beams Using CFRP	International	<i>Structural Engineering and Construction Management 2019 (ICSECM 2019)</i>	Kandy, Srilanka
2018	Impact of Masonry Infill Walls on the Seismic Response of the RCC Buildings	International	<i>Structural Engineering Convention 2018</i>	Jadavpur University
2018	Studies on Buckling of Cold-Formed Steel Compression Members under Fire	International	<i>Structural Engineering Convention 2018</i>	Jadavpur University
2018	Prediction of flexural capacity of cold formed steel-concrete composite beam	International	<i>Structural Engineering Convention 2018</i>	Jadavpur University
2018	Influence of Nano-Silica on characteristics of cement mortar and concrete	International	<i>Sustainable Construction and Materials</i>	NIT Karnataka, Surathkal
2015	Design Guidelines of Semi-Rigid Steel - Concrete Composite Frames	International	<i>The 2015 World Congress on Advances in Structural Engineering and Mechanics</i>	Incheon, Korea
2014	Performance Based Seismic Design of Semi-rigid Steel Concrete Composite Multi-storey Frames	International	<i>Structural Engineering Convention 2014</i>	IIT Delhi
2014	Seismic Performance of Semi-Rigid Steel - Concrete Composite Multi-Storey Frames	National	<i>FACEE 2014</i>	CIT Coimbatore

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
Self-Compacting Concrete	National	17-01-2018	Coordinator	VIT Vellore
Earthquake Resistant Design of Structures	National	24-03-2018	Coordinator	VIT Vellore

Publications

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year
Senthilkumar R, Satish Kumar S R	Design of Semi-Rigid Steel - Concrete Composite Frames for Seismic Performance	<i>Journal of Structural Engineering (SERC)</i>	44 (2)	136-147	2017
Senthilkumar R, Sunil T S, P Jayabalan	Buckling Behaviour of Hollow Flange Channel Beam Sections in Bending	<i>International Journal of Steel Structures</i>	19	1454- 1464	2019
M Suneel kumar R.Senthilkumar, L Sourabha	Seismic Performance of Special Concentric Steel Braced Frames	<i>Structures</i>	20	166-175	2019
Prafulla P. S., Jittin V., Bahurudeen A., Athira G., Senthilkumar R.	International Perspectives on Industrial Concrete Flooring and the Way Forward in India	<i>Indian Concrete Journal</i>		59-75	2019
Senthilkumar R, Satish Kumar S R	Seismic Performance of Semi- Rigid Steel Concrete Composite Frames	<i>Structures</i>	24	526-541	2020

Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
Senthilkumar R, Satish Kumar S R	<i>Advances in Structural Engineering: Dynamics, Volume Two</i>	Springer India	2015	978-81- 322-2192-0
Jittin Varghese, Athira Gopinath, A. Bahurudeen, R. Senthilkumar	<i>Sustainable Construction and Building Materials</i>	Springer India	2018	978-981- 13-3316-3

Patent

Bahurudeen A, Jittin V, Anand and **Senthilkumar R** “An apparatus for determining gas permeability of concrete and method thereof”, Indian Patent, No. 201911008791, filed on 06/03/2019

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