

# CURRICULUM VITAE

**P. C. ASHWIN KUMAR**

Assistant Professor

## Research Interests

- Seismic response and design of steel and reinforced concrete structures.
- Supplemental damping and energy dissipating devices.
- Seismic rehabilitation and retrofitting of steel and concrete structures.
- Large scale testing and simulation study of structural systems.
- Non-destructive assessment of structures.

## Professional Background

From	To	Designation	Organization
2018	Ongoing	Assistant Professor	IIT Roorkee
2012	2013	Senior Design Engineer	EDR Pvt. Ltd.
2010	2012	Design Engineer	WSP Global Inc.
2007	2007	Guest Lecturer	GEC Thrissur, Kerala

## Honors and Awards

- Star performer award for the year 2012 at WSP, India.

## Education Details

Degree	Subject	University	Year
Ph.D.	Structural Engg.	IIT Delhi	2017
M. Tech.	Structural Engg.	IIT Madras	2010
B. Tech.	Civil Engg.	G. E. C. Thrissur, Kerala	2006

## **Teaching Engagements**

<b>Title</b>	<b>Course Code</b>	<b>Class Name</b>	<b>Semester</b>
Earthquake Resistant Design of Structures	EQ-563	P.G./ Pre Ph.D.	Autumn
Introduction to Earthquake Engineering	IEQ-01	U.G.	Autumn
Earthquake Resistant Design of Bridges and Concrete Dams	EQ-560	P.G./Pre Ph.D.	Spring

## **Ongoing Project Supervision**

<b>Title of Project</b>	<b>Name of Student</b>
Investigations to Improve the Seismic Performance of Steel Eccentrically Braced Frames	Zeeshan M.
Development of Ductile Pre-qualified Connections for Steel Structures	Banita P.
Seismic Performance Assessment and Improvement of Special Concentrically Braced Frames	Pavan P. S. R. S.
Application of Non-destructive Testing Techniques for Structural Condition Assessment	Zeeshan A.

## **Refereed Journal Papers**

[1] Kumar, P. C. A., Sahoo, D. R., and Kumar, N. (2015). "Limiting values of slenderness ratio for hollow circular steel braces of concentrically braced frames", *Journal of Constructional Steel Research*, 115, 223-235.

[2] Kumar, P. C. A., and Sahoo, D. R. (2016). "Optimum range of slenderness ratio of HSS braces for special concentric braced frames", *Advances in Structural Engineering*, 19(6), 928-944.

[3] Kumar, P. C. A., Anand, S., and Sahoo, D. R. (2017). "Modified seismic design of concentrically braced frames considering column demands", *Earthquake Engineering & Structural Dynamics*, 46(10), 1559-1580.

[4] Kumar, P. C. A., Sahoo, D. R., and Kumar, A. (2018). "Seismic response of concentrically braced frames with staggered braces in split X configuration", *Journal of Constructional Steel Research*, 142(3), 5-11.

[5] Patra, P., Kumar, P. C. A., and Sahoo, D. R. (2018). "Cyclic performance of braces with different support connections in special concentrically braced frames", *Key Engineering Materials*, 763, 694-701.

[6] Kumar, P. C. A., and Sahoo, D. R., (2018), “Numerical and experimental investigations on inelastic cyclic performance of mid-span gusset plate connections”, *Earthquake Engineering and Structural Dynamics*, DOI:10.1002/eqe.3049.

### **Book Chapter**

[1] Kumar, P. C. A., and Sahoo, D. R. (2015). “Effect of brace configurations on seismic behaviour of SCBFs”, *Advances in Structural Engineering Dynamics*, Springer, India, Volume 2, 855-868.

### **Conference Papers: 11**