



## Dr. Gurpreet Singh

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<b>Designation</b>	Assistant Professor
<b>Department</b>	Civil Engineering
<b>Date of Birth</b>	18-May-1980
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<b>Research Interests</b>	Structural Concrete, Waste and By-product Utilization in Concrete.

## Academic Qualifications

<b>Ph.D</b> Structural Material	Under the supervision of Dr. Rafat Siddique, Civil Engineering Department, Thapar University, Patiala with title, " <b>Strength and Durability Studies of Concrete Containing Waste Foundry Sand (2012)</b>
<b>M.Tech</b> Structures Engineering	Punjab Engineering Collage (PEC), Chandigarh. <b>(2006)</b>
<b>B. Tech.</b> Civil Engineering	Punjab Technical University, Jalandhar <b>(2004)</b> (Guru Nanak Dec Engineering Collage)
<b>Diploma</b> Civil Engineering	The Punjab State Board of Technical Education & Industrial Training <b>(1998)</b> (Chandigarh Polytechnic Collage)

## Field Experience

Company	Position Held	Duration	Responsibilities
The Akashdeep co-op. L/C society Ltd	Site Engineer	August 1998-july 2001 <b>3 Year</b>	Supervision of small scale building construction
Janta land Pvt.Ltd (Real Estate Construction Company)	Project Engineer	June 2006-january 2007 <b>7 Month</b>	Building construction. Layout and execution of storm water and sewage water pipe line

## Teaching Experience

Institute	Position Held	Duration	Responsibilities
RIMT. Institution of Engineering and Technology	Assistant Professor	January 2007 – Sep 2012 <b>5.8 Year</b>	Teaching and Research
Punjabi University Patiala	Assistant Professor	Sep. 2012 on ward	Teaching and Research

## Administrative/Academic Experience

- In- charge, Department of Civil Engineering, Punjabi University Patiala (From sept 2013 to sept 2015)

## Publications

- “Wear resistance of high volume fly ash (HYFA) concrete”. Concrete technology. *CPI Concrete Plant International (Germany) Vol.3, pp. 53-62, 2010.*
- “Utilization of waste foundry sand (WFS) in concrete manufacturing”. *Resources, Conservation and Recycling, Volume 55, Issue 11, September 2011, Pages 885-892.*
- “Effect of waste foundry sand (WFS) as partial replacement of sand on strength, ultrasonic pulse velocity and permeability of concrete”. *Construction and Building Materials, Volume 26, Issue 1, January 2012, Pages 416-422.*

- “Abrasion Resistance and Strength Properties of Concrete Containing Waste Foundry Sand (WFS). *Construction and Building Material*, Vol. 28, Issue 1, March 2012, Pages 421-426.
- Comparative investigation on the influence of spent foundry sand as Partial replacement of fine aggregates on the properties of two grades of concrete. *Construction and building materials*. Volume83, March 2015, Pages 216–222
- Use of air cooled blast furnace slag (acbf) as coarse aggregates- a case study. International journal of innovations in engineering research and technology [ijert] issn: 2394-3696 volume 2, issue 4 apr.-2015
- Effect of air cooled blast furnace slag and polypropylene fibre on mechanical properties of concrete. International journal of civil, structural, environmental and infrastructure engineering research and development (ijcseierd) issn(p): 2249-6866; issn(e): 2249-7978 vol. 5, issue 3, jun 2015, p-45-56
- Compressive Strength and Abrasion Resistance of Concrete Containing Used-Foundry Sand. **Source:** Journal of Solid Waste Technology & Management ., Vol. 42 Issue 1, Feb2016, p27-33.
- Retrofitting of reinforced concrete beam by Ferro-cement technique. *Indian journal of science and technology*, Vol 9(15), April 2016
- [Recycle option for metallurgical by-product \(Spent Foundry Sand\) in green concrete for sustainable construction](#) **Journal of Cleaner Production**, Volume 172, 20 January 2018, Pages 1111-1120

### **Conferences. International/National**

- “Utilization of By-Product in concrete manufacturing”. 26<sup>th</sup> international conference on solid waste technology and management. **Philadelphia, USA**, March 27-30, 2011.
- “Utilization of spent foundry sand in making durable concrete”. Poster Paper. International Conference on Cement and Concrete Science. **Imperial College London**. September 12-13, 2011.
- “Design & development of concrete using waste foundry Sand as partial replacement of fine aggregate”. The thirteenth east Asia-pacific conference on structural engineering and construction. **Sapporo, Japan**. September 11- 13, 2013.

### **Workshop/Seminar/Courses**

- **One week** short term training programme on STRUCTURAL STEEL DESIGN organized by NIT Kurukshetra and institute for steel development growth, Kolkata. (2009)
- **Three day** National workshop on “Hydropower Development: issues and Challenges” “Organized by Jay Pee University of Information and technology, Solan, (H.P.) (2009)
- **One week** “Faculty Development Programme” conducted at Mandigobindgarh, sponsored by Department of Science & Technology, Govt. Of India, New Delhi conducted by NITCON, Chandigarh. (2008-09).
- **One day** faculty development program on “Contribution of Research in Indian Economy” organized by Department of Business administration RIMT-IET, Mandigobindgarh. (2007)

## **Reviewer of Journals**

Construction and Building Material (Elsevier)  
Conservation of Resource and Recycling (Elsevier)  
Journal of materials in civil engineering (ASCE)  
ACI Materials Journal

## **Citations of Research publications (as per Google Scholar)**

	All	Since 2014
Citations	292	254
h-index	4	4
i10-index	4	4

<https://scholar.google.com/citations?authuser=1&user=8ScLZkAAAAJ>

## **Citations of Research publications (as per Research Gate)**

Citations	204	(RG Score – 12.66)
h-index	5	
i10-index	5	

[https://www.researchgate.net/profile/Gurpreet\\_Singh36](https://www.researchgate.net/profile/Gurpreet_Singh36)

## **Membership of Professional Bodies/Organizations**

- American society of Civil Engineer A.M.ASCE – 9746507
- Structural Engineering Institute (ASCE)
- Institute of Engineers, India (MIE) and Chartered Engineer (CE)