

## **Profile Page**



Name : Dr Kanish Kapoor

Designation : Assistant Professor Grade-i

Department : Civil Engineering

Qualification : PhD Civil Engineering (Dr BR Ambedkar National Institute of Technology, Jalandhar)  
MTech Structural and Construction Engineering (Dr BR Ambedkar National Institute of Technology, Jalandhar)  
BTech Civil Engineering (DAV Institute of Engineering and Technology, Jalandhar)

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### **Research Interests :**

Concrete Composites, High-Performance Concrete, Self Compacting Concrete, Pervious Concrete, Geopolymer Concrete, Use of Recycled Materials in Concrete, Carbonation Mechanism, Beneficiation of waste materials, Light Weight Concrete, Strength, Durability, Non-Destructive and Microstructural Analysis of Concrete. Structural Designing and Vetting of RCC (Reinforced Cement Concrete) and steel structures like buildings, bridges etc.

### **Other Profile Links :**

#### **Google Scholar Link :**

Dr Kanish Kapoor [Click Here](#)

#### **Personal Web Link :**

Researchgate [Click Here](#)

ORCID [Click Here](#)

VIDWAN [Click Here](#)

SCOPUS [Click Here](#)

### **Journal Publications :**

Year	Journal	Publication
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2023	Journal of Building Engineering	M Nazeer, K Kapoor, SP Singh Strength, durability and microstructural investigations on pervious concrete made with fly ash and silica fume as supplementary cementitious materials
2023	European Journal of Environmental and Civil Engineering	M Nazeer, K Kapoor, SP Singh Strength and microstructural properties of pervious concrete made with different powder to aggregate ratios
2022	Frontiers of Structural and Civil Engineering	Development of mix design method based on statistical analysis of different factors for geopolymer concrete
2022	International Journal of Pavement Research and Technology	Evaluating the effect of different mix compositions and site curing methods on the drying shrinkage and early strength of pavement quality self-compacting concrete
2022	Construction and Building Materials Volume 323	Utilization of recycled fine powder as an activator in fly ash based geopolymer mortar
2021	Materials Today: Elsevier	Potential of geopolymer concrete as substitution for conventional concrete: A review
2021	Journal of Sustainable Cement-Based Materials	Hardened state behavior of beneficiated recycled aggregate concrete
2021	International Journal of Civil Engineering	Improving the durability properties of self-consolidating concrete made with recycled concrete aggregates using blended cements
2021	Advances in Sustainable Construction Materials	Experimental Study of Mechanical Properties for Concrete Incorporating Fine Plastic Aggregates
2021	Sustainable Environment and Infrastructure	Enhancing the Properties of Recycled Aggregate Concrete Using Beneficiation Technique
2020	European Journal of Environmental and Civil Engineering	Kanish Kapoor, S P Singh, Bhupinder Singh, Evaluating the durability properties of self compacting concrete made with coarse and fine recycled concrete aggregates
2020	Journal of Sustainable Cement-Based Materials	Kanish Kapoor, S P Singh, Bhupinder Singh, Permeability of self-compacting concrete made with recycled concrete aggregates and Portland cement-fly ash-silica fume binder
2020	Journal of Sustainable Cement-Based Materials	Kanish Kapoor, Ram Lal Riyar, Mudasir Nazer, Ran Bir Singh, Paramveer Singh Hardened state behavior of beneficiated recycled aggregate concrete
2020	International Journal of Civil Engineering	Kanish Kapoor, S P Singh, Bhupinder Singh, Improving the Durability Properties of Self-Consolidating Concrete made with Recycled Concrete Aggregates using Blended Cements
2020	Materials Today	Kanish Kapoor, SP Singh, Bhupinder Singh, Paramveer Singh, Effect of recycled aggregates on fresh and hardened properties of self compacting concrete
2020	Journal of Materials and Engineering Structures	Mudasir Nazer, Kanish Kapoor, S P Singh, Pervious concrete: a state-of-the-art review
2019	Journal of Cleaner Production, Elsevier	Vaibhav Sharma, Arvind Kumar, Kanish Kapoor, "Sustainable deployment of crushed concrete debris and geotextile to improve the load carrying capacity of granular soil"
2018	European Journal of Environmental and Civil Engineering. Taylor and Francis	Kanish Kapoor, S P Singh, Bhupinder Singh, "Evaluating the Durability Properties of Self Compacting Concrete made with Coarse and Fine Recycled Concrete Aggregates
2017	Journal of Construction Engineering, Technology and Management 2017; 7(2): 50–62p	Kanish Kapoor, Irmandeep Singh. Reviewing Some Properties of Concrete Containing Recycled Concrete Aggregates
2016	Construction and Building Materials, Elsevier Science, Vol. 128 pp. 67-76	K Kapoor, S P Singh and B Singh, "Durability of Self-Compacting Concrete Made with Recycled Concrete Aggregates and Mineral Admixtures

2016	International Journal of Civil Engineering, Vol.1 pp.1-10.	. K Kapoor, S P Singh and B Singh, "Water Permeation Properties of Self Compacting Concrete Made with Coarse and Fine Recycled Concrete Aggregates
2016	Journal of Sustainable Cement Based Materials, Taylor and Francis.	K Kapoor, S P Singh and B Singh , “Permeability of Self-Compacting Concrete made with Recycled Concrete Aggregates and Metakaolin
2016	Journal of Materials and Engineering Structures, Vol. 3 pp. 107-116.	K Kapoor, S P Singh and B Singh, "Evaluating the Durability Properties of Self Compacting Concrete Made with Recycled Concrete Aggregates

## Conference Publications :

Year	Conference	Publication
2020	National Conference on Structural Engineering and Construction Management, Federal Institute of Science And Technology, India/ Proceeding by Springer	Shashi Kant Sharma, Kanish Kapoor, Dadi Rambabu, Mohit Kumar, Development of Pavement Quality SCC Having High Early Strength Under Site Conditions
2020	National Conference on Structural Engineering and Construction Management, Federal Institute of Science And Technology, India/ Proceeding by Springer	Kanish Kapoor, Shashi Kant Sharma, Dadi Rambabu, Mohit Kumar, Study of the Behavior of Air Entrained Concrete Containing Mineral Admixtures with the Addition of Coal Bottom Ash
2020	Advances in Sustainable Construction Materials	Satwinder Singh, Paramveer Singh, Kanish Kapoor, Experimental Study of Mechanical Properties for Concrete incorporating Fine Plastic Aggregates
2019	Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering 2019, University of Illinois at Chicago, USA	Kanish Kapoor, Mudasir Nazeer, Gowhar Afzal, S P Singh Experimental Study of Pervious Concrete and Artificial Clogging
2019	Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering 2019, University of Illinois at Chicago, USA	Bhupesh Kumar Gupta, Kanish Kapoor, Mudasir Nazeer, Mandeep Kaur, Waste Plastic Aggregates as a Replacement of Natural Aggregates
2019	UKIERI India	Bhupesh Kumar, Mandeep Kaur, Mudasir Nazeer and Kanish Kapoor (2019), “Influence of Plastic Aggregate on Behavior of Concrete
2019	UKIERI India	Amad, Ram Lal, Kanish Kapoor and Mandeep Kaur (2019)
2018	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Kanish Kapoor, Arvind Kumar and Vaibhav Sharma (2018), “Model tests of Circular footing resting on crushed concrete debris
2018	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Vaibhav Sharma, Arvind Kumar and Kanish Kapoor (2018), “Model tests of Square footing resting on crushed concrete debris
2018	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Kanish Kapoor and SP Singh (2018), “Non-destructive analysis of self-compacting concrete made with recycled concrete aggregates
2018	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Harsimranjit Singh, Jagbir Singh and Kanish Kapoor (2018), “ To Study the Strength Characteristics of Bricks Made with Fly Ash
2018	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Madan Lal and Kanish Kapoor (2018), “ Use of marble powder in concrete: A review

2018	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Kanish Kapoor, Tanveer Ahmad and Gowhar Afzal (2018), “ Experimental study on infiltration properties of pervious concrete
2018	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Kanish Kapoor, Firdous Ahmad and Danish Ahmad (2018), “ Properties of permeable concrete made by recycled aggregates
2018	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Kanish Kapoor, Bhupesh Kumar Gupta and Satwinder Singh (2018), “Properties of Concrete made with plastic aggregates
2018	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Kanish Kapoor and Amad Ur Rehman Bohroo (2018), “Study on the Influence of Attached Mortar Content on the Properties of Recycled Concrete Aggregate
2018	International conference on Advance in Construction Materials and Structures	Tanveer Ahmad ,Gowhar Afzal and Kanish Kapoor (2018), “Study the Properties of Porous Concrete by Addition of Waste Plastic as Coarse Aggrtgates
2018	Human Induced Vibrations and its Effect on Structure” at National conference on Advance Structures, Materials And Methodology	Mudasir Nazeer, HS Rai, Jagbir Singh, and Kanish Kapoor (2018
2017	International interdisciplinary conference science, technology, engineering, management, pharmacy and humanities held at Singapore	1. Kanish kapoor, Parbhakar, Dhawan, Imad and Amad (2017), “Properties of Recycled Aggregate Concrete Made with Beneficiated Recycled Coarse Aggregates
2017	5th World Conference on Applied Science, Engineering and Technology, Bangkok, Thailand.	3. Kanish Kapoor, Bhupesh Kumar Gupta and Puneet Dhawan (2017),” Feasibility Study of Plastic in Concrete
2015	UKIERI India	Kanish Kapoor and Irmandeep Singh (2015), “Reviewing Properties of Concrete Containing Recycled Concrete Aggregates
	International conference on Advance in Construction Materials and Structures	Gowhar Afzal, Tanveer Ahmad and Kanish Kapoor (2018), “ Study the Permeability of Pervious Concrete with Different Mix Promotion Made with Coarse Aggregate

### Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
	Sustainable Environment and Infrastructure/ Waste Plastic Aggregates as a Replacement of Natural Aggregates	Springer, Cham Switzerland	Kanish Kapoor, Bhupesh Kumar Gupta, Mudasir and Mandeep Kaur		2020
	Sustainable Environment and Infrastructure/ Waste Plastic Aggregates as a Replacement of Natural Aggregates	Springer, Cham Switzerland	Kanish Kapoor, Mudasir Nazeer, Gowhar Afzal, S P Singh		2020
	Sustainable Environment and Infrastructure/ Enhancing the Properties of Recycled Aggregate Concrete Using Beneficiation	Springer, Cham Switzerland	Ram Lal Riyar, Kanish Kapoor, Mahesh Patel , S P Singh		2020

	Sustainable Engineering/ Study on the Influence of Attached Mortar Content on the Properties of Recycled Concrete Aggregate	Springer, Singapore	Kanish Kapoor and Amad Ur Rehman Bohroo		2019
	Experimental study on infiltration properties of pervious concrete	Springer, Singapore	Kanish Kapoor, Tanveer Ahmad, Gowhar Afzal		2019
	Properties of Permeable Concrete Made by Recycled Aggregates	Springer, Singapore	Kanish Kapoor, Firdous Ahmad Dar, Danish Ahmad Rather		2019
	Nondestructive Analysis of Self-compacting Concrete Made with Recycled Concrete Aggregates	Springer, Singapore	Kanish Kapoor and S P Singh		2019
	To Study the Strength Characteristics of Bricks Made with Fly Ash	Springer, Singapore	Kanish Kapoor, HSingh and Jagbir Singh		2019
	Design of Concrete Structures	MBD Group	Kanish Kapoor and Manish Bhutani		2019
	Sustainable Engineering/ Properties of concrete made with plastic aggregates	Springer, Singapore	Kanish Kapoor, Bhupesh Kumar Gupta, Satwinder Singh		

### Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Co Investigator	Research	Rapid Curing Self Compacting Concrete for Rigid Pavements	TEQIP III			197000	Completed	
CO Project Investigator	Research Project	Investigations of Flow and Bed Morphology in Steep Mountain Streams	Core Research Grant, SERB Govt of India	31-05-2022	30-05-2025	65.75 Lacs	On Going	Dr Mahesh Patel

### Events Organized :

Category	Type	Title	Venue	From	To	Designation
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Expert Lecture	National	Durability of Concrete	Dr BR Ambedkar National Institute of Technology Jalandhar	20-04-2018	20-04-2018	Coordinator
Expert Lecture	National	Smart Cities: Environmental Engineering Perspectives by Dr. Patric Gurian, Associate Professor, Drexel University, USA	Dr BR Ambedkar National Institute of Technology Jalandhar	05-09-2018	05-09-2018	Coordinator
Expert Lecture	National	Earthquake risk aspects of industrial facilities and projects with large damage potential by Professor Dr Martin Weiland	Dr BR Ambedkar National Institute of Technology Jalandhar	23-11-2018	23-11-2018	Coordinator
Conference	International	International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering	Dr BR Ambedkar National Institute of Technology Jalandhar	29-03-2018	31-03-2018	Coordinator
Conference	International	UKIERI- INDIA	Dr BR Ambedkar National Institute of Technology Jalandhar	5-3-2019	8-3-2019	Coordinator
STC	International	Sustainable, Resilient and Smart Built Infrastructure in Developing Countries	Dr B R Ambedkar National Institute of Technology Jalandhar	20-Oct-2020	24-Oct-2020	Convener
STC	International	Recent Advancements in Concrete Technology	Dr B R Ambedkar National Institute of Technology Jalandhar	15-Sep-2020	19-Sep-2020	Coordinator
STC	National	Industry-Institute-Interaction and Training	Dr BR Ambedkar National Institute of Technology Jalandhar	05-Sep-2020	05-Dec-2020	Coordinator
	National	Shramdaan	Dr B R Ambedkar National Institute of Technology Jalandhar	09-Oct-2020	09-Oct-2020	Co-coordinator
Swachhta Pakhwada 2019	National	Swachhta Pakhwada 2019	Dr BR Ambedkar National Institute of Technology Jalandhar	1-Sep-2020	15-Sep-2020	Co-coordinator
Swachhta Pakhwada 2020	National	Swachhta Pakhwada 2020	Dr BR Ambedkar National Institute of Technology Jalandha	16-Jan-2020	31-Jan-2020	Co-coordinator

Expert Lecture	National	Revision Control System for Construction Documents	UltraTech Cement Ltd. and ICI Chandigarh Centre (Online)	22-Jan-2021	22-Jan-2021	Coordinator
Expert Lecture	National	Trends in Concrete Pavement	UltraTech Cement Ltd. and ICI Chandigarh Centre (Online)	10-Dec-2020	10-Dec-2020	Coordinator
Expert Lecture	National	Construction challenges in setting up of India's largest earthquake Impact testing lab	UltraTech Cement Ltd. and ICI Chandigarh Centre (Online)	20-Nov-2020	20-Nov-2020	Co-coordinator
Expert Lecture	National	Importance of Cover Zone Concrete & its Assessment	UltraTech Cement Ltd. and ICI Chandigarh Centre (Online)	05-Nov-2020	05-Nov-2020	Co-coordinator

### Professional Affiliations :

Designation	Organization
Aff Member	American Society of Civil Engineers
Life Member	Indian Concrete Institute
Life Member	Indian Geotechnical Society
Treasurer	Indian Geotechnical Society, Jalandhar Chapter
Honorary Secretary	Indian Concrete Institute, Chandigarh Chapter

### PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Mandeep Kaur	Durability properties SCC made with beneficiated RCA	Ongoing	2020	-
Paramveer Singh	Durability properties of geopolymers concrete made with RCA	Ongoing	2019	-
Mudasir Nazer	Strength and Durability Properties of Pervious concrete made with RCA	Ongoing	2018	Prof S P Singh

### PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Abhishek Sharma	Strength Evaluation of Geopolymer mortar in ambient and heat curing using waste materials	Completed	2021	-
Aashish Chowdary	Effect of GGBS on fresh, mechanical and non destructive performance of SCC made with RCA	Completed	2021	-
Gurbej Singh	Effect of Mineral admixture on SCC made with RCA	Completed	2021	-
Nerswan	Parametric study of fresh and hardened properties of geopolymer concrete at ambient and heat curing	Completed	2021	-
Nirvesh	Properties of SCC containing RCA with MK and FA	Completed	2021	-
Sudheer Kumar	High Volume Fly Ash Self Compacting Concrete Incorporating Silica Fume and Recycled Concrete Aggregates	Completed	2020	-

Krishan Kumar	Durability properties of Self Compacting Concrete Made with RCA and HVFA	Completed \	2020	-
Ram Lal	Strength and durability properties of beneficiated recycled aggregate concrete	Completed	2019	Dr Mahesh Patel
Marisarla Chaitanya	Strength and durability of air entrained concrete containing mineral admixtures	Completed	2019	Dr Shashi Kant
Mohit Kumar	Rapid Curing low cost self compacting concrete	Completed	2019	Dr Shashi Kant Sharma
Paresh Goyal	Effect of high volume fly ash and coal bottom Ash on properties of self compacting concrete	Completed	2019	Dr Navdeep Singh
Madan Lal	TO STUDY THE PROPERTIES OF CONCRETE USING MARBLE DUST AS A PARTIAL REPLACEMENT OF FINE AGGREGATE	Completed	2018	Dr Shailja Bawa

## Patents :

Name	Reg./Ref. No.	Date of Award/Filing	Organization	Status
A device for measuring the infiltration rate of water through pervious concrete	201811008145 A	16/03/2018		Granted
Laboratory test apparatus to measure heat transfer through hardened concrete	201911015457	17-04-2019	Dr BR Ambedkar National Institute of Technology	Published
Pervious concrete pavement sanitizing system	202011037800	02/09/2020	Dr BR Ambedkar National Institute of Technology	Granted
A mix of geopolymers concrete and method for appropriate mix proportion of constituent and desired compressive strength	202111013559	26/03/2021	Dr BR Ambedkar National Institute of Technology	Filed
Temperature controlled casting system and method	202111013558	26/03/2021	Dr BR Ambedkar National Institute of Technology	Filed
A system and method of four-point sealing for permeability setup of pervious concrete	202111013557	26/03/2021	Dr BR Ambedkar National Institute of Technology	Filed
Single machine for complete manufacturing of pressed pervious concrete tiles and mechanism of working thereof	202111004445	02/02/2021	Dr BR Ambedkar National Institute of Technology	Published

## Award and Honours :

Title	Activity	Given by	Year
Best MTech Thesis 2021 in Cement and Concrete	(as a capacity of supervisor)	Indian Concrete Institute Chandigarh Centre	2021
Best MTech Thesis 2020 in Cement and Concrete	(as a capacity of supervisor)	Indian Concrete Institute Chandigarh Centre	2020
Outstanding Young Concrete Technologist	for research in concrete composites	Indian Concrete Institute	2019