

## **Profile Page**

### **Research Interests :**

Transportation Engineering: Flexible Pavement design and maintenance of Hot mix asphalt, Warm mix asphalt, and Cold mix asphalt.

-Pavement Material Characterization

-Characterization of Reclaimed Asphalt Pavement

-Superpave Mix Design

### **Other Profile Links :**

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

Rajiv kumar [Click Here](#)RAJIV KUMAR [Click Here](#)

### **Journal Publications :**

<b>Year</b>	<b>Journal</b>	<b>Publication</b>
2020	International Journal of Transportation Engineering, Volume 8, Issue 2 - Serial Number 30	Mohammad Mehdi Khabiri, Rajiv Kumar and Mohammad Mehdi Majidi Shad "Effect of Fine Recycled Asphalt Aggregates and Cement Additives on the Sandy Subgrade Performance"
2019	International Journal of Recent Technology and Engineering, ISSN: 2277-3878, Volume-8, Issue-1, May 2019	Gandu Srikanth, Arpita Saha, Rajiv Kumar
2018	Civil Engineering and Construction Review, Vol 31, No. 4, April 2018, pp66-68	Kumar Praveen and Kumar Rajiv, Warm Mix Additives in Bituminous Layers of Pavements
2018	American Society of Civil Engineers. DOI: 10.1061/(ASCE)MT.1943-5533.0002367. © 2018	Nikhil Saboo; Rajiv Kumar; Praveen Kumar; and Ankit Gupta, Ranking the Rheological Response of SBS- and EVA-Modified Bitumen Using MSCR and LAS Tests.
2017	Construction and Building Materials, Elsevier Ltd, 138, 352–362.	Kumar, R., Saboo, N., Kumar, P., and Chandra, S. (2017). "Effect of warm mix additives on creep and recovery response of conventional and polymer modified asphalt binders."
2016	Civil Engineering and Urban Planning: An International Journal (CiVEJ), 3(2), 75–86.	Kumar, R., and Chandra, S. (2016). "Warm Mix Asphalt Investigation on Public Roads - A Review."
2013	European Journal of Sustainable Development (2013), 2, 4, 165-176.	T.Lyngdoh.R, Rajiv Kumar, "Green Road Approach In Indian Road Construction For The Sustainable Development".
2012	International Journal of Computer Applications, No-4, foundation of computer science, New York, USA, 2012,PP.4-8	Rajiv Kumar, T.Lyngdoh.R, 2012. "Rural Road Preventive Maintenance with Micro-surfacing"

## Conference Publications :

Year	Conference	Publication
2020	IMMM 2020	Manoj Olla, Dr. Rajiv Kumar, Akshay Choudhary & Anusha Raj K "Effect of Fly Ash Replacement on Strength and Durability Properties of Slag Based Geopolymer Concrete"
2020	NATIONAL CONFERENCE ON ADVANCES IN SUSTAINABLE CONSTRUCTION MATERIALS (ASCM 2020)	Jugmohan Singh, Rajiv Kumar and Akshay Choudhary"CHARACTERISATION OF CEMENT GROUTED SEMI-FLEXIBLE PAVEMENT"
2020	NATIONAL CONFERENCE ON ADVANCES IN SUSTAINABLE CONSTRUCTION MATERIALS (ASCM 2020)	Nagendra Patel, Rajiv Kumar and Akshay Choudhary, "UTILIZATION OF RECLAIMED ASPHALT PAVEMENT MATERIALS IN RIGID PAVEMENT"
2018	ASMMCE – 2018, 03 - 04th November, 2018	Gandu Srikanth, Dr Rajiv Kumar & Rohit Vasudeva, "A Review on Warm Mix Asphalt"
2018	ASMMCE – 2018, 03 - 04th November, 2018	Vinod Kumar Sharma, Rajiv Kumar , "Laboratory Investigations on Stone Matrix Asphalt Containing PET Bottles"
2018	"NCITCE-2018" at Poornima University, Jaipur during April 13-14, 2018	Rajiv Kumar, Monaal Kaushal, Vishav Thind & Smriti Saini "PERFORMANCE GRADING SYSTEMS FOR HOT MIX ASPHALT PAVEMENTS IN INDIA"
2018	"NCITCE-2018" at Poornima University, Jaipur during April 13-14, 2018	Rajiv Kumar, Ankesh Jaiman, Ganpat Kumar & Devinder pal Garg "LABORATORY EVALUATION OF WARM MIX ASPHALT IN INDIA"
2016	Conference on Sustainable Asphalt Pavements for Developing Countries, CRRI, New Delhi, March 11-12, 2016.	Kumar, R., Chandra, S., and Kumar, P., Effect of Warm Mix Additive on the Creep and Recovery Behaviour of Different Binders,
2016	International Conference on Recent Advances in Civil Engineering, Kochi, Kerala Jan. 14-16, 2016	Kumar, R., and Chandra, S., History and Development of Warm Mix Asphalt
2016	Transportation Planning and Implementation Methodologies for Developing Countries 19-21 December 2016.	Kumar, R., and Chandra, S., A Comparative Study on PFC Mixes
2016	Civil Engineering Conference – Innovation for Sustainability (CEC – 2016)	Kumar, R., Chandra, S., and Kumar, P. “Bituminous Binder Grading Systems for Hot Mix Asphalt Pavements in India”,
2016	National Conference, FYPMGSY 2016	Kumar, R., Kumar, P., and Chandra, S. “Laboratory Evaluation of Warm Mix Asphalt In India”
2014	Transportation Planning and Implementation Methodologies for Developing Countries.IIT-B.December 2014	Rajiv Kumar, T.Lyngdoh.R,“New laboratory modified method mixing of microsurfacing’
2013	Annual International Conference on Architecture and Civil Engineering (ACE2013) March 2013 Singapore	Rajiv Kumar, T.Lyngdoh.R, “IIT-Guwahati: Department of Transportation Experience with Microsurfacing”
2012	International Conference on Environmentally Sustainable Urban Ecosystems (ENSURE-2012) February 2012. Indian Institute of Technology Guwahati.	T.Lyngdoh.R,Rajiv Kumar, “Green Road Approach In Indian Road Construction For The Sustainable Development”.

## Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
Book Chapter	Green Road Approach in Indian Road Construction for the Sustainable Development	Springer	Rajiv Kumar, G. Appa Roa and Teiborlang Lyngdoh Ryntathiang	Urban Ecology, Water Quality and Climate Change pp 107-119	2018

### Events Organized :

Category	Type	Title	Venue	From	To	Designation
Conference	National	ASMMCE-2018	Civil Engineering Department, Dr B R Ambedkar National Institute of Technology Jalandhar (NIT Jalandhar)	03-11-2018	04-11-2018	Organizing Secretary
STC	National	"Emerging Trends in Highway Engineering and Infrastructure Development" 23 - 27 June 2020	Dr B R Ambedkar National Institute of Technology Jalandhar Department of Civil Engineering	23-06-2020	27-06-2020	Coordinator
Workshop	National	Application of Remote Sensing and GIS in Civil Engineering	Dr B R Ambedkar National Institute of Technology Jalandhar Department of Civil Engineering	04-07-2020	04-07-2020	Coordinator

### PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
GURPREET KAUR	Assessment of pedestrian sidewalk and safety on signalized intersections for major cities of Punjab	ON GOING	2020	
ROHIN KAUSHIK	Flexible pavement design based on resilient modulus	ON GOING	2020	
Akshay Choudhary	Characterization of semi flexible Pavement	ON GOING	2019	
Najim Ali	Design and maintenance of hill roads	ON GOING	2019	Dr Shashi Kant Sharma
Vinod Kumar Sharma	Laboratory Investigation of Reclaimed Asphalt Pavement in Warm Mix Asphalt	ON GOING	2018	Prof. A.P. Singh

### PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
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Anmol Tyagi	Development of Flexible Pavement Distress Model and Maintenance Priority Index for Jalandhar City Roads	Ongoing	2021	
Ashish Pratap Singh	Design of Flexible Pavement Using Resilient Modulus	Ongoing	2021	
Bijit M Sangma	Characterization of Reclaimed Asphalt Pavement (RAP) for use in Bituminous Concrete	Ongoing	2021	
Jagmohan Singh	Aggregate gradation influence on air voids and mix design of bituminous mixture for semi-flexible pavement	Completed	2020	
Udham Singh	Comparison of Porous (Open Graded) Asphalt Concrete And Pervious Cement Concrete Pavement By Using Marshal Mix Design	Completed	2020	
Manoj Olla	Effect of Fly Ash Replacement on Strength and Durability Properties of Slag Based Geopolymer Concrete	Completed	2019	
Nagendra Patel	UTILIZATION OF RECLAIMED ASPHALT PAVEMENT MATERIALS IN RIGID PAVEMENT	Completed	2019	