



Name:	Dr. Rakesh Kumar
Designation	Associate Professor
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Subjects Taught	
U.G	Geotechnical Engineering-I
	Geotechnical Engineering-II
	Applied Soil Mechanics (Elective)
P. G	Foundation Engineering-I
	Advanced Foundation Engineering
	Geotechnical Investigation and Field Testing of Soils
	Software Application in Geotechnical Engineering
	Ground Improvement

Teaching Experience:

Organization	Start Date	End Date	Designation	Nature of Work
MANIT Bhopal	14-02-2003	31-12-2005	Lecturer	Teaching, Research and Consultancy
MANIT Bhopal	1-01-2006	13-02-2008	Assistant Professor (AGP- Rs 6000)	Teaching, Research and Consultancy
MANIT Bhopal	14-02-2008	14-01-2009	Assistant Professor (AGP= Rs 7000)	Teaching, Research and Consultancy

MANIT Bhopal	8-08-2011	27-12-2018	Assistant Professor (AGP- Rs 7000)	Teaching, Research and Consultancy
MANIT Bhopal	28-12-2018	Till date	Associate Professor (AGP- Rs9500)	Teaching, Research and Consultancy

Ph.D. Supervised/Ongoing

Name of the Student	Topic	Year of Award	Co-Supervisor (if any)
Sareesh Chandrawanshi	Settlement Behaviour of Very Soft Soil Reinforced with Stone Columns: An Experimental Study	2017	Dr. P.K Jain
Sharad Kumar Soni	Study on Settlement Behavior of Soft Soils Reinforced with Encased Stone Column	2020	Dr. P.K Jain
Ravi Gupta	Load Settlement Behaviour of Black Cotton Soil Reinforced with Polymer Mixed Soil-Cement Column	2021	Dr. P.K Jain
Akash Jaiswal	Behaviour of Dual Layered Encased Stone Columns in Loose Sand under Shear Load	2023	-
Neeraj Kumar	Behaviour of Dual Layered Geosynthetic Encased Stone Column in Soft Soil.	Pursing	-
Vaishali Yede	Numerical Analysis of Soft Clay Reinforced with Stone Column under Sustained Load.	Pursing	Dr. Nitin Dindorkar
Abhijeet Shukla	Comparative Analysis of Static and Dynamic Loading on Confined Footings.	Pursing	-
Sherya Rathore	Geotechnical Engineering	Pursing	Dr. Siddartha Rokade
Pranshu Vardhan	Geotechnical Engineering	Pursing	Dr. Suneet Kaur
Vedant Shukla	Geotechnical Engineering	Pursing	Dr. Nitin Dindorkar

Sponsored Research Projects (Completed/Ongoing):

Title	Sponsoring Agency	Duration	Amount	Co-PI (if any)
Suitability of Geosynthetic Clay Liner's based on Hydraulic Conductivity for various types of Leachate	NPIU-MHRD	21 months	12.11 Lakhs	04

Expansive Soil Improved by Zycobond and Terrasil Additives	Zydex Industries Vadodara-391101, India	14 months	2 Lakhs	01
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Major Consultancy Projects:

Title	Sponsoring Agency	Duration	Amount (Lakhs)	Co-Investigator (if any)
Soil Investigation Work at Jabalpur Airport	AAI Jabalpur, M.P	2016-17	9.24	01
Development of 15 Nos. Parking Bays Taxi Track and other associate Airport	Indore AAI Indore, M.P.	2018-19	10.13	01
Third Party Quality Assurance Inspection of the Work of Construction of Lecture Hall Complex under IIT Indore	Project Division-II, CPWD, Indore CPWD Indore	2018-19	57.79	02
Design of Cross Drainage Structures and Drainage System by Carrying out Hydrological Study of Jabalpur Airport	Vishal Infrastructures, Mumbai	2018-19	20.65	04
Evaluation of Structural Stability and Quantity Survey of the Buildings at NITTTR Bhopal Campus	NITTTR Bhopal	2018-19	21.24	02
Third Party Quality Assurance inspection of the work of Lecture Hall Complex under IIT Indore	Project Division-II, CPWD, Indore CPWD Indore	2018-19	22.59	02
Soil investigation and Foundation Design for New Trank Truck Loading Facility at Manglya Receipt Terminal, at BPCL Indore	Project Leader, BPCL, Indore Madhya Pradesh & Chattisgarh	2022-23	9.45	01

Design Analysis of Slope Stability in Connection with construction of Mathura Jhansi 3rd line project (Package-1&	M/s. Hicon Testing Lab Consultancy and Research Centre, Bhopal, Madhya Pradesh	2022-23	2.06	-
Soil Investigation and Design of Civil Tank at Manglia Receipt Terminal	Project Leader, BPCL, Indore Madhya Pradesh & Chattisgarh	2022-23	5.60	01
Soil Investigation for The Parking Facility Basement Plus Ground Plus Roof Top, AIIMS Campus Bhopal	CPWD Bhopal	2022-23	5.66	01
Soil Investigation for Phase-II Residential Complex in AIIMS Bhopal	CPWD Bhopal	2022-23	5.19	01

Publication:

Authors	Title	Journal	Vol. No. Page No.	Year	SCI/Scopus	Impact Factor
Neeraj kumar, Rakesh Kumar, Akash Jaiswal	Numerical Analysis of Geosynthetic Encased stone column installed soil	Advances in Civil Engineering	Volume 2023	2023	SCI	1.8
Akash Jaiswal, Rakesh Kumar	Finite element analysis of granular column for various encasement conditions subjected to shear load	Geomechanics and Engineering	Volume 29 Page: 645-655	2022	SCI	3.2
Akash Jaiswal, Rakesh Kumar	Study on Response of Dual Layered Reinforced Stone Column Under Shear Loading	Sustainable Civil Infrastructures	Volume: Page: 107-117	2021	SCI	0.28

Gupta, R., Jain, P.K., Kumar, R.	Effect of polypropylene fibre and curing period on unconfined compressive strength of cemented-black cotton soil	International Journal of Engineering and Advanced Technology	Volume 9, Pages: 7244-7250	2019	Scopus	1
Gupta, R., Jain, P.K., Kumar, R.	Load carrying capacity of circular footing on black cotton soil reinforced with fibre mixed soil-cement column	International Journal of Innovative Technology and Exploring Engineering	Volume 8, Pages: 2334-2337	2019	Scopus	1.6
Rokade, S., Kumar, R.	Road crash prediction model for medium size Indian cities	Advances in Intelligent Systems and Computing	Volume 742, Pages: 655-669	2019	Scopus	0.63
Chandrawanshi, S., Kumar, R., Jain, P.K.	Effect on settlement reduction due to method of construction of stone column: An experimental small-scale study	International Journal of Civil Engineering and Technology	Volume 8, Pages: 99-108	2017	Scopus	2.28
Rokade, S., Kumar, R.	Utilization of HDPE and PET wastes in bituminous concrete wearing surface of flexible pavements	International Journal of Civil Engineering and Technology	Volume 8, Pages: 1147-1158	2017	Scopus	2.28
Rokade, S., Kumar, R., Rokade, V., Dubey, S., Vijayawargiya, V.	Assessment of effectiveness of vertical deflection type traffic calming measures and development of	International Journal of Civil Engineering and Technology	Volume 8, Pages: 1135-1146	2017	Scopus	2.28

	speed prediction models in urban perspective					
Chandrawanshi, S., Kumar, R., Jain, P.K.	Settlement characteristics of soft clay reinforced with stone column: An experimental small-scale study	International Journal of Civil Engineering and Technology	Volume 8, Pages: 937-948	2017	Scopus	2.28
Dwivedi, P., Kumar, R., Jain, P.K.	Prediction of compression index (Cc) of fine-grained remolded soils from basic soil properties	International Journal of Applied Engineering Research	Volume 11, Pages: 592-598	2016	Scopus	1.3
Chandrawanshi, S., Kumar, R., Rokade, S., Jain, P.K.	Bearing pressure and settlement analysis of soft ground reinforced with stone columns	Electronic Journal of Geotechnical Engineering	Volume 21, Pages: 10081-10094	2016	Scopus	0.2
Kumar, R., Jain, P.K., Parmar, P.	Design of high-level railway embankment under constrain site conditions	International Journal of Applied Engineering Research	Volume 10, Pages: 39408-39412	2015	Scopus	1.4

Patents

Title	Year	Agency	Co-Investigator (if any)	Published/Granted
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Citations

	h-index	i-10 index	Total Citations
Google Scholar	8	7	169
Vidwan Profile	3	1	38

Detailed Biodata (any format) for attachment