

SAURABH RAWAT

Male, 32 years

Ph.D.

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EDUCATION

Degree/ Exam	Year of Passing	Name of the College/University	Specialization	CGPA/%	Rank/ Achievement
Ph.D.	2017	Jaypee University of Information Technology, Waknaghat, Solan	Geotechnical Engineering (Slope Stability)	NA	NA
M. Tech.	2012	Indian Institute of Technology, Delhi (IIT Delhi)	Geotechnical and Geoenvironmental Engineering	7.6	1st
B. Tech.	2010	G. B. Pant University of Agriculture & Technology, Pantnagar, Udham Singh Nagar	Civil Engineering	7.441	1st
H.S.C (C.B.S.E)	2006	Amtul's Public School, Tallital, Nainital	Science stream	76.2%	1st
S.S.C (I.C.S.E)	2004	St. Joseph's College, Tallital, Nainital	All subjects	85%	1st

ACADEMIC ACHIEVEMENTS

- Qualified *GATE*. 2010
- Full - time *Post graduate scholarship* by *MHRD*. 2010 – 2012
- Secured A – grade in all courses during Ph.D course work. 2013 – 2014
- Consistently secured *first class grades* in B. Tech. and M. Tech. curriculum during under – graduation and post – graduation.

TRAINING, DISSERTATION AND THESIS

• INDUSTRIAL TRAINING

Completed internship at *Shrinagar Hydroelectric Power Project- Uttarakhand, Larsen & Toubro Ltd.* (4 weeks) as Graduate Engineer Trainee (part fulfilment of B.Tech curriculum).

It was a runoff scheme (330 MW) to be constructed on the river Alaknanda. I was posted at the desilting basin. My work mainly included the management and checking of the material input, bending, cutting of the reinforcement and its proper placing abiding to the design provided.

June, 2009 -
July, 2009

- **M. TECH. DISSERTATION**

Successfully complete M. Tech. dissertation entitled “EFFECT OF SOIL NAILING ON STABILITY OF SLOPES: 3D FINITE ELEMENT ANALYSIS” with B+ grade. Published *two papers in SCOPUS indexed journal* and *one paper in international conference* from M. Tech. research work.

May, 2012

- **DOCTORAL THESIS**

Successfully completed Doctoral thesis entitled “TESTING AND MODELING OF SOIL – NAILED SLOPES”. Published *two papers in SCI indexed (IF in 2020 = 4.338)* and *three papers in SCOPUS indexed journals*.

Dec, 2017

PROFESSIONAL EXPERIENCE

Designation	Name and Address of the Employer	Period of Employment		Nature of Work
		From	To	
Assistant Professor [Senior Grade]	Jaypee University of Information Technology, Waknaghat, Solan, H. P.	10 th . July. 2010	Till date	Academics, Research and Administrative
• SPECIALIZATION	Reinforced slopes, Geotechnical and Geo-environmental Engineering.			
• TEACHING & RESEARCH EXPERIENCE	9 years and 7 months of teaching experience of various UG, PG and Ph.D (Civil Engineering) theory and laboratory courses. Project guidance to UG, PG and PhD candidates along with setting up and upgradation of laboratories and softwares			July, 2010
• POST Ph.D. EXPERIENCE	4 years of post Ph.D. experience in teaching and research			Jan., 2018
• RESEARCH AREAS OF INTEREST	<p>Geotechnical Engineering - Physical modelling in Geotechnics, Numerical modelling using limit equilibrium and finite element codes (GEOSLOPE, PLAXIS 2D and 3D, ABAQUS, GEO5, Deep foundation, MODFLOW), Geosynthetics, soil stabilization, ground improvement, slope stability, soil nailing and reinforced earth, deep foundations, soil – structure interactions.</p> <p>Highway Engineering – sustainable highway construction materials, environmental impact of construction waste materials</p> <p>Geoenvironmental Engineering - Utilization of Bioreactors with leachate recirculation, Use of biosolids, Greywater degradation, and Municipal solid waste management, landfill design</p> <p>Construction Management - Identification of accidents, delay analysis, use of Public private partnership (PPP) model, lean construction and labour productivity analysis.</p>			

SUMMARY OF RESEARCH & DEVELOPMENT

No. of Ph.D. thesis guided	On – going: 2	Completed – 2
No. of PG projects guided	On – going: 1	Completed – 11
No. of UG projects guided	On – going: 1	Completed – 33

No. of Funded Research Projects	On – going: 1	-
No. of Patents	—	Submitted – 1

NUMBER OF PUBLICATIONS

• International Journals (SCOPUS/SCI)	Under Review - 1	Published - 18
• National Journals (peer reviewed with ISSN)	—	Published - 2
• Book Chapters	—	Published – 8
• International/National Conferences	—	Published – 4
• <i>Google Scholar Profile at</i> https://scholar.google.com/citations?authuser=1&user=6DkZkrwAAAAJ	h – index of 8 i10 – index of 7	Nov., 2021
• <i>SCOPUS profile at</i> https://www.scopus.com/authid/detail.uri?authorId=57190278838	h – index of 7	Nov., 2021

DETAILS OF Ph.D. / M. Tech. THESIS GUIDANCE

- **Ph.D.**

Candidate 1	Mr. Ankit Thakur (Part – Time) completed his thesis entitled “Ground Improvement Using Encased Stone columns”	Awarded June, 2021
Candidate 2	Mr. Pankaj Sharma (Regular candidate) completed his thesis entitled “Experimental and Theoretical Study on Pullout of Helical Soil Nail”	Awarded September, 2021
Candidate 3	Mr. Amanpreet Tangri (Part – time) working on thesis entitled “Use of flexible facing for soil nail walls” has completed 3 years	Ongoing July, 2017
Candidate 4	Mr. Sudheer Jala (Part – time) working on thesis entitled “Performance of high confined stone columns in loose Ash fills: Experimental and numerical investigation” has completed 2 years	Ongoing July, 2018
- **M. TECH**
Guided 11 M. Tech. dissertations in field of Environmental and Geo - environmental engineering and Construction Management.
Currently guiding one M. Tech. dissertation [Construction Management]

<i>Name</i>	<i>Title of Dissertation</i>	<i>Awarded</i>
Varun Gupta (142601)	Construction Capstone project on Confined Brick Masonary	July, 2014
Ina Thakur (142754)	Aerobic Landfill Bioreactor: Modelling and Analysis	July, 2016
Neeraj Kumar (142756)	Municipal Solid waste management of solan city using engineered landfill	July, 2016
Bhawna Thakur (152757)	Biosolids as fill Material in Road Embankment	July, 2017
Rhishabh Thakur (162610)	Applicability of Public Partnership Model on Larji Dam Construction	July, 2018
Akansha Thakur (162605)	Identification and Comparison of Accidents on dams and Highway Construction Sites	July, 2018
Shubham Abrol (162754)	Waste Settlement Analysis in an Aerobic Bioreactor	July, 2018
Arun Kumar [172604]	Improvement in Highway project performance using lean	July, 2019

Khusbhu Raitka [172755]	construction Greywater degradation using coupled photocatalysis and photofenton processes using fixed bed reactor	July, 2019
Hardik Chauhan [182602]	Classification of Factors Affecting Labour Productivity in Hilly Areas	July, 2020
Rahul Garg [192602]	Prediction of Safe Work Environment in Construction Projects Using Neural Network Model	July, 2021

DETAILS OF PUBLICATIONS

INTERNATIONAL JOURNALS

1. Jala, S. K., **S. Rawat**, and A. K. Gupta. 2022. "Consolidation and bearing capacity studies on solid waste ash fill by using hybrid granular piles." *Innovative Infrastructure Solutions*, 7(1), 1-19. SCOPUS
2. Sharma, P., **S. Rawat**, and A. K. Gupta. 2021. "Experimental investigation of helical soil nail group behavior under torque installation and monotonic pullout loading." *Arabian Journal of Geosciences*, Volume 14, Article number: 1376. SCI [IF (2020)=1.827]
<https://doi.org/10.1007/s12517-021-07840-7>
3. Sharma, P., **S. Rawat**, and A. K. Gupta. 2021. "Force–Displacement Characteristics of Helical Soil Nail under Monotonic Pullout Loading: Experimental and Theoretical Study." *Indian Geotechnical Journal*, 51(4), 757-772. [10.1007/s40098-021-00515-w](https://doi.org/10.1007/s40098-021-00515-w) SCOPUS
4. Sharma, P., **S. Rawat**, and A. K. Gupta. 2021. "Laboratory Investigation of Pullout Behavior of Open-Ended Pipe Helical Soil Nail in Frictional Soil." *Geotechnical and Geological Engineering*, pp.1-12. <https://doi.org/10.1007/s10706-020-01666-y> SCOPUS
5. Thakur, A., **S. Rawat**, and A. K. Gupta, 2021. "Experimental and Numerical Investigation of Load Carrying Capacity of Vertically and Horizontally Reinforced Floating Stone Column Group." *Geotechnical and Geological Engineering*, pp.1-16. <https://doi.org/10.1007/s10706-020-01674-y> SCOPUS
5. Thakur, A., **S. Rawat**, and A. K. Gupta. 2021. "Experimental and numerical modeling of group of geosynthetic - encased stone columns." *Innovative Infrastructure Solutions*, 6(1), pp. 12. <https://doi.org/10.1007/s41062-020-00379-8> SCOPUS
6. Thakur, A., **S. Rawat**, and A. K. Gupta. 2020. "Experimental study of ground improvement by using encased stone columns." *Innovative Infrastructure Solutions*, 6(1), pp. 1-13. <https://doi.org/10.1007/s41062-020-00383-y> SCOPUS
7. Jala, S.K., **S. Rawat**, A. K. Gupta. 2020. "Loose Ash Fills Reinforced With the High Confined Encased Stone Columns: Experimental and Numerical Investigation." *Geotechnical and Geological Engineering*, pp. 1-18. <https://doi.org/10.1007/s10706-020-01641-7> SCOPUS
8. Sharma, P., **S. Rawat**, and A. K. Gupta. 2020. "Laboratory investigation of pullout behavior of hollow and solid shaft helical nail in frictional soil." *Acta Geotechnica*. <https://doi.org/10.1007/s11440-020-01069-6> SCI [IF (2021) = 5.856]

9. Sharma, P., **S. Rawat**, and A. K. Gupta. 2020. "Horizontal pullout behavior of novel open-ended pipe helical soil nail in frictional soil." *International Journal of Civil Engineering*, 18 (10), 1179-1194. SCI [IF (2021) = 2.081]
10. Thakur, A., **S. Rawat**, and A. K. Gupta. 2020. "Performance evaluation of geosynthetic encased stone columns." *TEST Engineering and Management*, 83, 5986 – 5998. SCOPUS
11. Sharma, P., **S. Rawat**, A. K. Gupta. 2019. "Study and remedy of Kotropi landslide in Himachal Pradesh." *Indian Geotechnical Journal*, 49(6), 603-619. SCOPUS
12. **Rawat, S.**, A. K. Gupta. 2018. "Testing and modelling of screw nailed soil slopes." *Indian Geotechnical Journal*, 48(1), 52-71. [10.1007/s40098-017-0229-7](https://doi.org/10.1007/s40098-017-0229-7) SCOPUS
13. **Rawat, S.**, A. K. Gupta, and A. Dhiman. 2017. "Pullout of soil nail with circular discs: A three-dimensional finite element analysis." *Journal of Rock Mechanics and Geotechnical Engineering*, 9 (5), 967-980. SCI [IF (2020) = 4.338]
14. **Rawat, S.**, A. K. Gupta. 2017. "Numerical modelling of pullout of helical soil – nail." *Journal of Rock Mechanics and Geotechnical Engineering*, 9(4), 648-658. SCI [IF (2020) = 4.338]
15. **Rawat, S.**, A. K. Gupta. 2016. "Analysis of nailed soil slope using limit equilibrium and finite element methods." *International Journal of Geosynthetics and Ground Engineering*, 2 (4), 34. SCOPUS
16. **Rawat, S.**, A. K. Gupta. 2016. "An experimental and analytical study of slope stability by soil nailing." *Electronic Journal of Geotechnical Engineering*, 21(17), 5577-5597. SCOPUS
17. **Rawat, S.**, R. Zodinpuui, B. Manna, and K. G. Sharma. 2014. "Investigation on failure mechanism of nailed soil slopes under surcharge loading: testing and analysis." *Geomechanics and Geoengineering*, 9 (1), 18-35. SCOPUS
18. Manna, B., **S. Rawat**, R. Zodinpuui, K. G. Sharma. 2014. "Effect of surcharge load on stability of slopes - Testing and Analysis." *Electronic Journal of Geotechnical Engineering*, 19, 3397-3410. SCOPUS

NATIONAL JOURNALS

1. Sharma, P., **S. Rawat**, and A. K. Gupta. 2018. "Remedy measure for the Kotropi landslide (Mandi, H.P.) India: A case Study." *Journal of Civil Engineering and Environmental Technology (JCEET)*, 5 (3), 125 – 128. p-ISSN:2349-8404;e-ISSN: 2349-879X
2. Thakur, I., and **S. Rawat**. 2016. "Aerobic landfill bioreactor: Modeling and Analysis." *Journal of Civil Engineering and Environmental Technology*, 3(2), 175-179. p-ISSN:2349-8404;e-ISSN: 2349-879X

BOOK CHAPTERS

1. Amanpreet Tangri, **Saurabh Rawat**. (2022) Study of Slope Stability Using Flexible Facing. In: Gupta A.K., Shukla S.K., Azamathulla H. (eds) *Advances in Construction Materials and Sustainable Environment. Lecture Notes in Civil Engineering*, vol 196. Springer, Singapore. https://doi.org/10.1007/978-981-16-6557-8_6 SCOPUS
2. Rahul Garg, **Saurabh Rawat**. (2022) Minimization of Risks in Highway Projects Using Buffer. In: Gupta A.K., Shukla S.K., Azamathulla H. (eds) *Advances in Construction Materials and Sustainable Environment. Lecture Notes in Civil Engineering*, vol 196. Springer, Singapore. https://doi.org/10.1007/978-981-16-6557-8_37 SCOPUS

3. Amanpreet Tangri, **Saurabh Rawat**. (2022) Strength Comparison of Flexible Materials for Stability of Slope. In: Sitharam T.G., Kolathayar S., Jakka R. (eds) Earthquake Geotechnics. Lecture Notes in Civil Engineering, vol 187. Springer, Singapore. https://doi.org/10.1007/978-981-16-5669-9_3 **SCOPUS**
4. Pankaj Sharma, **Saurabh Rawat**, Ashok Kumar Gupta (2022). Evaluating Factors Affecting Red Mud Interfacial Strength Using Binder Cement Kiln Dust and Polypropylene Fiber. In Ashok Kumar Gupta Sanjay Kumar Shukla Hazi Azamathulla, Advances in Construction Materials and Sustainable Environment (pp. 295-304). Singapore: Springer. [ISBN : 978-981-16-6556-1] . Google Search **SCOPUS**
5. Amanpreet Tangri, **Saurabh Rawat**. 2021. “Study of Stress-Strain Behaviour in Soil Nail Wall Using Flexible Facing” In IOP Conference Series: Earth and Environmental Science, Volume 795, International Conference on Sustainable Energy, Environment and Green Technologies, 05-06 March 2021, Jaipur, Rajasthan, India **SCOPUS**
6. Tangri, A., **S. Rawat**. 2021. “Soil Nails for Slope Reinforcement: A Lab-based Model Study” In Proceedings: Material’s Today (Elsevier) of International Conference on Research in Science, Engineering, Technology and Management (ICRSETM-2020) by Vaagdevi College of Engineering, Warangal, Telagana, India, December 28th, 2020 **SCOPUS**
7. Garg, R., **S. Rawat**. 2020. “Analysis of Risk Assessment in Highway Projects Using Importance Index” In proceedings of International Conference on Futuristic and Sustainable Aspects in Engineering and Technology FSAET-2020 organized by Department of Mechanical and Civil Engineering, GLA University, Mathura, 18-19 Dec 2020 in IOP Conference Series Material Science and Engineering. **SCOPUS**
8. Chauhan. H., **S. Rawat**, and A. K. Gupta. 2020. “Performance evaluation of black cotton soil mixed with bagasse ash and onion skin.” In proceedings of international conference on Recent Development in sustainable infrastructures (Research Practices) organized by School of Civil Engineering, KIIT, Bhubaneswar, India, 19-21st December 2020 published by Springer Nature, Singapore **SCOPUS**

INTERNATIONAL/NATIONAL CONFERENCES

1. Jala, S. K., and **S. Rawat**. 2019. “Study the effect of geosynthetic encased stone columns on soft and loose soils.” Proceedings of UKIERI Concrete Congress, Concrete: A global Builder, NIT Jalandhar, Punjab. March 5 – 8. 2019
2. Thakur, A., **S. Rawat**, A. K. Gupta. 2019. “Improved geometric design of existing hill road.” Proceedings of 21st International Conference on Contemporary issues in Science, Engineering & Management (ICCI-SEM 2019), Kathmandu, Nepal, April 20 – 21. **(2019) ISBN-978-93-5281-535-7**
3. Sharma, P., **S. Rawat**, A. K. Gupta. 2018. “Comparative study between factor of Safety of a slope using conventional soil nail and helical soil nail.” Proceedings of the 3rd Himachal Pradesh Science Congress (HPSC 2018), IIT Mandi, Himachal Pradesh, India, Oct. 22-23. 2018
4. **Rawat S.**, R. Zodinpuui, B. Manna, K. G. Sharma. 2012. “Effect of soil nailing on stability of slopes – Testing and 3D finite element analysis.” Proceeding of Fourth International congress on computational mechanics and simulation (ICCMS), IIT Hyderabad, pp. 78, Dec. 9-12. 2012

ORAL/POSTER PRESENTATION

1. Chauhan. H., **S. Rawat**, and A. K. Gupta. 2019. "Performance evaluation of black cotton soil mixed with bagasse ash and onion skin." Symposium on Recent Advances in Sustainable Geotechnics, IGS Kanpur Chapter, IIT Kanpur, India, Oct. 17-20. 2019
2. Sharma, P., **S. Rawat**, and A. K. Gupta. 2018. "Comparative study between factor of safety of a slope using conventional soil nail and helical" 3rd HPSC 2018 at IIT, Mandi campus by HIMCOSTE, Shimla 2018

AWARDS, PROJECT and PATENT FILED DETAILS

• AWARDS

- ✓ **IGS-Shri R.N. Prasad Biennial Award** to Pankaj Sharma, **Saurabh Rawat** and Ashok Kumar Gupta for paper entitled "Study and remedy of Kotropi landslide in Himachal Pradesh." published in Indian Geotechnical Journal as *best paper on "Slope Stability and Land Slides"* for years 2019 – 2020 published through **Indian Geotechnical Society**. 18th December, 2021
- ✓ **IGS-Shri R.N. Prasad Biennial Award** to **Saurabh Rawat** and Ashok Kumar Gupta for paper entitled "Testing and modelling of screw nailed soil slopes." published in Indian Geotechnical Journal as *best paper on "Slope Stability and Land Slides"* for years 2017 – 2018 published through **Indian Geotechnical Society**, at SVNIT, Surat. 19th December, 2019
- ✓ **Best Reviewer Award** for the section Civil Engineering, Slope Stability by **Engineering Reports by John Wiley & Sons Ltd** 10th November, 2020

• FUNDED PROJECT

Investigators: Tanmay Gupta, **Saurabh Rawat**, Ashok Kumar Gupta

Project title: Geological Hazards mitigation using stone concrete block retaining walls and helical soil nailing

Funding Agency: *STATE DISASTER MANAGEMENT AUTHORITY (SDMA)*, Govt. of Himachal Pradesh, HP 26th. March 2021

Cost: 25 lakhs; **Duration:** 36 months

• PATENT

Investigators: **Saurabh Rawat**, Ashok Kumar Gupta and Pankaj Sharma

Notice No.: [STC/F (8) – 5/2019]

Patent Title: Pullout and installation device for helical soil nails and anchors November, 2019

Patenting Agency: HP patent information centre (HPIC)

Current Status: Under review in TIFAC (DST), New - Delhi.

SHORT TERM COURSES (CONFERENCES/FDPs, SYMPOSIUMS, WORKSHOPS, WEBINARS) ORGANIZED/ ATTENDED

• ORGANIZED

- ✓ International Conference on Structures, Material and Construction 2021 (Virtual mode) as National advisory 12th - 13th November, 2021 Civil Engineering Department, JUIT in collaboration with AIT Bengaluru, IEI Shimla Chapter, IGS Shimla chapter, ICE India and IGBC Chandigarh 2021

member.

- ✓ 1st International Conference on Construction material and Environment, ICCME2021(Virtual mode) as Conference General Chair. 3rd – 4th June, 2021 Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan and Indian Geotechnical Society, Shimla Chapter 2021
- ✓ Phase – IV of workshops for Himachal Pradesh Public Works Department (HPPWD) on 'Mix Design methodology for Concrete and Bitumen' as member of Technical committee 23rd - 28th September, 2019 Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan 2019
- ✓ Phase – III of workshops for Himachal Pradesh Public Works Department (HPPWD) on 'Mix Design methodology for Concrete and Bitumen' member of Technical committee 2nd - 7th September, 2019 Department of Civil Engineering, Jaypee University of Information technology, Wagnaghat, Solan 2019
- ✓ Two – day Symposium on “Recent Trends in Civil Engineering towards Sustainable Environment.” member of Technical committee 16th – 17th October, 2018 Department of Civil Engineering, Jaypee University of Information technology, Wagnaghat, Solan 2018
- ✓ Two-day Workshop on “Rock Mechanics and Dam Foundations.” as a member of Stage committee 29th – 30th March, 2014 Central Soil and Materials Research Station (CSMRS) and Department of Civil Engineering, Jaypee University of Information technology, Wagnaghat, Solan 2014

• **ATTENDED**

- ✓ One week online workshop on "Innovative Solutions for Sustainable Constructions in Civil Engineering" 4th - 9th, October 2021. Department of Civil Engineering, Jaypee University of Information Technology Wagnaghat, Solan 2021
- ✓ One week Faculty Development Program on “Waste Management for Sustainable Development 4-8th, January Department of Civil Engineering, Jaypee University of Information technology, Wagnaghat, Solan 2021
- ✓ International Webinar on 10-13th, December International Society for Soil Mechanics 2020

Forensic Geotechnical Engineering		and Geotechnical Engineering, IGS, IITB, IITD and IISc, Bangalore	
✓ ATAL FDP on "Sustainability Engineering"	25-29 th , November	Department of Civil and Environmental Engineering Kolhapur Institute of Technology's College of Engineering (Autonomous), Gokul Shirgaon, Kolhapur - 416234, Maharashtra, INDIA	2020
✓ One week Workshop on "Sustainable Highway Infrastructure" at CED, JUIT	17-23 rd , November	Department of Civil Engineering, Jaypee University of Information technology, Wagnaghat, Solan	2020
✓ Online STC on "Sustainable, Resilient and Smart Built Infrastructure in Developing Countries"	20-24 th , October	Department of Civil Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar	2020
✓ DFI India 2020 Annual Pre-Conference Webinar 3 on "Deep Mixing Equipment and Field of Applications of the Deep Mixing Method"	22 nd , October	Deep Foundation India	2020
✓ Online Faculty Development Program (FDP) on "Advances in Environmental Geotechnics"	12 – 16th, October	DEPARTMENT OF CIVIL ENGINEERING, National Institute of Technology (NIT) Andhra Pradesh.	2020
✓ Five-Day (Virtual) Faculty Development Programme on "Sustainable Environmental Geotechnics",	5 – 9 th , October	Department of Civil Engineering Sagi Rama Krishna Raju Engineering College	2020
✓ STC on Advances in Geotechnical Engineering for Sustainable Development	26th - 30th September	IGS Srinagar chapter in association with Department of Civil Engineering, NIT Srinagar	2020
✓ Indo-Canadian Workshop on Interactive Design in Geotechnical Engineering: Theory to Practice (Online)	24 th September to 1 st October,	NITK, Surathkal, IGS Surathkal Chapter, IIT Kanpur, TC 206 of ISSMGE (Interactive Geotechnical Design) and University of Ottawa, ON K1N 6N5, Canada	2020
✓ One day international Webinar on "career opportunities in transportation engineering."	19 th September	Jaypee University of Engineering and Technology, Guna	2020

✓ One day webinar on “Recent Trends in Contemporary India”	19 th September	Department of Electronics and Communication Engineering, Jaypee University of Information technology (JUIT)	2020
✓ One week (Online) Faculty Development Programme on "INDUSTRY 4.0"	14 – 18 th , September	(RTU (ATU) TEQIP-III: Rajasthan Technical University, Kota	2020
✓ Webinar on 'Ground Improvement Technique for Slope Stabilization'	11 th , September	TEQIP-III sponsored Department of Civil Engineering of Dr. B.R. Ambedkar National Institute of Technology Jalandhar in association with the Indian Geotechnical Society Jalandhar Chapter.	2020
✓ National webinar on 'Remote Sensing and GIS'	9 th , September.	Hindustan College of Engineering and Technology, Coimbatore	2020
✓ One day online workshop on “Recent Advancement in Science and Technology in India”	9th September	Vikrant Institute of Technology & Management, Gwalior in association with Vigyan Prasar	2020
✓ One week (Online) Faculty Development Programme on “Green Energy: The Energy of Future (GEEF-2020)”	07 – 11 th , September	TEQIP-III RTU (ATU) sponsored Organized by: Rajasthan Technical University, Kota and Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	2020
✓ Two-day workshop on 'Waste Management - Issues and Concerns'	20 th – 21 st August,	Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan	2020
✓ One-week National Faculty Development Program on “Disaster Management Mitigation and Response (DMMR-2020)”	10-14 th , August	Sponsored by TEQIP phase III by Department of Civil Engineering, Assam Engineering College, Guwahati.	2020
✓ One Week Workshop on “Sustainable Construction Practice for Civil Engineers”	03 rd -08 th , August,	Department of Civil Engineering, Jaypee University of Information technology, Wagnaghat, Solan	2020
✓ Continuing Education Program (CEP) on 'Current Aspects and Research Opportunities in Civil Engineering.'	20 – 24 th , July	Department of Civil Engineering, Jaypee University of Information technology, Wagnaghat, Solan	2020
✓ National Webinar on “Highway Infrastructure:	19 th , July	Jaypee University of Engineering and Technology, Guna in association with	2020

Planning and Construction”		Indian Institute of Technology, Jammu	
✓ One week Faculty Development Program on “Advances in Civil Engineering”	14 th – 19 th , January	Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan.	2019
✓ One week workshop on “RIVET Training”	16 th – 22 nd , April	Civil Engineering Consortium, student body, Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan	2018
✓ Symposium on High performance and "High Strength Concrete - Principles, Development and Applications”	16 th – 17 th , March	Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan.	2016
✓ One week Faculty Development Program	18 th – 23 rd , January	Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan.	2016
✓ One week Faculty development Program	14 th – 19 th , July	Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan.	2014
✓ One day Workshop on “Rock Engineering ” by Dr. Nick R. Bartan	29 th , May	Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan.	2013
✓ One week Indo Universal Collaboration for Engineering Education (IUCEE) - workshop on “Introduction to Finite Element Analysis for Civil Engineers”	30th July – 3rd August	Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan.	2012

INVITED LECTURES /RESOURCE PERSON

- Delivered lecture as Technical Expert on “Helical soil nails: A step forward in soil nailing technique’ during one - day webinar organized by Department of Civil Engineering, Rajalakshmi Engineering College, Chennai. **2021**
- Delivered lecture as Resource person on “Pullout Testing for Reinforced earth” during one week e – workshop (Online mode) entitled 'Sustainable Construction Practices for Civil Engineers’ from 3rd - 8th August, 2020 organized by Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan **2020**
- Delivered lecture as Resource person on “Proctor Test/Compaction Testing” during Phase – III of workshops for Himachal Pradesh Public Works Department (HPPWD) on 'Mix Design methodology for Concrete and Bitumen' from 23th – 28th September, 2019 organized by Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan **2019**
- Delivered lecture as Resource person on “Proctor Test/Compaction Testing” during Phase – II of workshops for Himachal Pradesh Public Works Department (HPPWD) on 'Mix Design methodology for Concrete and Bitumen' from 2nd – 7th September, 2019 **2019**

organized by Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan

- Expert Lecture on 'Helical Soil nailing' during One week FDP program on '*Advances in Civil Engineering*' from 14th – 19th January, 2019 organized by Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan **2019**
- Keynote speaker during two-day symposium on "Recent Trends in Civil Engineering towards Sustainable Environment" from 16-17th October 2018 organized by Department of Civil Engineering, Jaypee University of Information Technology, Wagnaghat, Solan **2018**

UG PG COURSES AND LABS

➤ UNDER – GRADUATE COURSES

Have taught batches with strength of 30 – 120 students

➤ Core courses:

- ✓ Geotechnical Engineering (Soil Mechanics)
- ✓ Foundation Engineering
- ✓ Highway Engineering
- ✓ Construction Technology and Management

➤ Elective Courses:

- ✓ Underground Technology
- ✓ Advance Foundation Engineering
- ✓ Geosynthetics

➤ Laboratory Courses:

- ✓ Geotechnical Engineering
- ✓ Geology and Material Testing Laboratory
- ✓ Fluid Mechanics
- ✓ Foundation Engineering
- ✓ Workshop Practices
- ✓ Estimation and Costing Laboratory

➤ POST – GRADUATE/ Ph.D. COURSES

Have taught batches with strength of 3 – 10 students

- ✓ Environmental Geotechnics
- ✓ Mechanical and Electrical Systems in a Building

ADMINISTRATIVE RESPONSIBILITIES

• UNIVERSITY LEVEL

- ✓ Member of Centre of Excellence on Industry 4.0., JUIT 2020 – till date
- ✓ Faculty Coordinator for Annual Inter - University sports meet (PARAKRAM) at JUIT for session 2019 – 2020 2019- 2020
- ✓ Interviewing officer in Placement Mock Interview for all third year under T & P cell during April – May 2019, August – September 2020. 2019 – 2020
- ✓ Member of the “Mess supervising committee” 2020
- ✓ Coordinating member of preparation and analysis of Built- up area of JUIT for AICTE 2019
- ✓ Mentoring of B. Tech. II year (21 students), IV year (5 students) and academically weak students for academic growth and counselling for future ventures. 2017 – 2020

• DEPARTMENTAL

- ✓ NAAC/NBA coordinator 2021 – till date

✓ Member Secretary (Board of studies (BOS) & Departmental Affairs)	2019 – 2020
✓ Ph.D. Coordinator	2018 – 2020
✓ PhD Stipend Coordinator	2018 – 2020
✓ Coordinator Ph. D. Examiner Database and Doctoral Programme Member Committee	2018 – 2020
✓ Research Lab Coordinator	2018 – 2020
✓ Coordinator for M. Tech. [Construction Management]	2016 – 2020
✓ B. Tech. Coordinator	2016 – 2020
✓ Coordinator Project Monitoring Committee	2016 – 2020
✓ Expert lecture/ Workshop organised/ Seminar data collection Coordinator	2017 – 2020
✓ Member of Departmental Quality Assurance Committee	2017 – 2020
✓ Course Coordinator for B. Tech. courses (Geotechnical Engineering, Underground Technology), M. Tech. Courses (Environmental Geotechnics, Electrical and Mechanical Systems in a Building) and Geology and Material Testing Lab	2016 – 2020
✓ Consulting member faculty in departmental student body Civil Engineering Consortium (CEC) at JUIT	2014 – 2020

MEMBERSHIP OF PROFESSIONAL BODIES

- **INDIAN GEOTECHNICAL SOCIETY (NATIONAL)** – IGS life member [membership number - LM3805] 2013
- **INTERNATIONAL ASSOCIATION OF ENGINEERS (NATIONAL)** – IAENG life member [Membership number: 211340] 2017

ADDITIONAL INFORMATION

Serving as reviewer for peer – reviewed (SCI/SCOPUS) indexed journals such as

Journal

Korean Society of Civil Engineering (KSCE)
 International Journal of Civil Engineering
 Geomechanics and Geoengineering, An International Journal
 Marine Georesources and Geotechnology
 Innovative Infrastructure solutions
 Geomechanics and Engineering, An International Journal
 International Journal of Geo-Engineering
 Environment, Development and Sustainability
 Arabian Journal of Geosciences

Publisher

Springer Nature
 Springer Nature
 Taylor and Francis Ltd.
 Taylor and Francis Ltd.
 Springer Nature
 Taylor and Francis Ltd
 Springer Nature
 Springer Nature
 Springer Nature

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