Profile Page



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:	Civil Engineering			
:	PhD (IIT Roorkee)			
	M.Tech (S V National Institute of Technology Surat)			
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Research Interests :

Geotechnical Engineering and Geoenvironmental Engineering; Soil Stabilization; Numerical Modelling; Contaminant Transport

Other Profile Links :

Google Scholar Link :

Rupali Satavalekar Click Here

Personal Web Link :

Rupali Satavalekar Click Here

Journal Publications :

Year	Journal	Publication		
2022	Disaster Advances	Bhat, I., Rupali, S. and Kumar, A. (2022). "Evaluation of shear strength		
		parameters in unreinforced and shotcrete reinforced coal through		
		experimental and numerical methods		
2022	Sadhana Journal	Bhat, I., Rupali, S. and Kumar, A. (2022). "Experimental and Numerica		
		Analysis of Constitutive Characteristics In Bituminous Coal.",		
2022	Soft Computing in Civil	Jangir, H and Rupali, S. (2022). "Evaluating Adaptive Neuro-Fuzzy		
	Engineering	Inference System (ANFIS) to Assess liquefaction potential		
		and settlements using CPT Test Data		

2021	Innovative Infrastructure Solutions	Mahajan, T., Rupali, S. and Mohanty, A., "Environmental concern,
		Leachability and Leaching Modelling of Fly ash and Microbes: State of
		the Art Review."
2021	International Journal of Protective	K. Senthil, R. Sharma, S. Rupali, A. Thakur, M. A. Iqbal, N. K. Gupta,
	Structures	Prediction of Superior Layer Configuration of Titanium Ti-6Al-4V and Aluminium 2024-T3 against Soft Projectiles
2021	International Journal of Fuzzy Logic and Intelligent Systems	Sinha, D.K., Rupali, S. and Senthil, K. (2021). "Application of Adaptive Neuro-Fuzzy Inference System for Evaluating Compressive Strength of Concrete."
2021	International Journal of Structural	K. Senthil, Iwansh Gupta, S. Rupali, L. Pelecanos, Reviewing on the
	Engineering and Analysis	Performance of Masonry, Reinforced Concrete and Underground tunnels against Blast Loading,
2020	ISH Journal of Hydraulic	Rupali, S. and Sawant, V. A. (2020). "Study on transport of contaminant
	Engineering	through single and parallel fractures using element-free Galerkin method
2020	Advances in Computational	Kumar, A. and Rupali, S. (2020). "Prediction of UCS and STS of Kaolin
	Design Techno Press	Clay stabilized with Supplementary Cementitious Material using ANN and MLR
2020	Journal of Structural Engineering	K. Senthil, Iwansh Gupta, Rupali, S. and Loizos Pelecanos. (2020). "A
	and Applied Mechanics	Review on the performance of reinforced concrete structures under blast loading
2020	Journal of Structural Engineering	K. Senthil, Iwansh Gupta, S. Rupali, L. Pelecanos, A review on the
	and Applied Mechanics	performance of reinforced concrete structures under blast loading,
2019	Advances in Environmental	S. Rupali and V. A. Sawant, 1 D contaminant transport through
	Research, 7(3), 1-21	unsaturated stratified media using EFGM,
2018	Material Science and Engineering,	K. Senthil, S. Muthukumar, S. Rupali, K.S. Satyanarayanan, Effect of
	Vol. 330, pp. 1-9	various interface thicknesses on the behavior of infilled frame subjected to lateral load
2018	Journal of Materials and	K. Senthil, S. Rupali, Navjit Kaur, "The performance of monolithic
	Engineering Structures, Vol. 5, No. 2, 137-151	reinforced concrete structure includes slab, beam and column against blast load"
2018	Journal of Materials and	K. Senthil, S. Rupali, "Crashworthiness of highway lamp post against
	Engineering Structures, Vol. 5, No.	
	3, 46-60, (Mouloud Mammeri	r
	University of Tizi-Ouzou	
2018		K. Senthil, M.A. Iqbal, S. Rupali, Influence of impactor nature, mass,
2018	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4,	K. Senthil, M.A. Iqbal, S. Rupali, Influence of impactor nature, mass, size and shape on impact strength of mild steel and Armox 500T steel
2018	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI	
	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60)	size and shape on impact strength of mild steel and Armox 500T steel
2018	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and	size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and
	University of Tizi-OuzouPublisher – ESCI, IF - 00)International Journal of ProtectiveStructures, Vol. 9, No. 4,1-18,(SAGE Publisher – SCIJournal, IF – 0.60)Journal of Coupled Systems andMultiscale Dynamics, Vol. 5, No.	size and shape on impact strength of mild steel and Armox 500T steel
2017	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50	size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading
	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50 International Journal of Structural	size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of
2017	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50 International Journal of Structural Engineering and Analysis, Vol. 3,	size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of RC frames in shifting on seismic zone 3 to 5 and retrofitting techniques
2017 2017	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50 International Journal of Structural Engineering and Analysis, Vol. 3, No. 2, pp. 1-16	size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of RC frames in shifting on seismic zone 3 to 5 and retrofitting techniques using ETABS
2017	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50 International Journal of Structural Engineering and Analysis, Vol. 3, No. 2, pp. 1-16 Coupled System Mechanics,	 size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of RC frames in shifting on seismic zone 3 to 5 and retrofitting techniques using ETABS Rupali, S. and Sawant, V. A., 1 D contaminant transport using element
2017 2017 2016	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50 International Journal of Structural Engineering and Analysis, Vol. 3, No. 2, pp. 1-16 Coupled System Mechanics, Techno Press, 5(3), 203-221.	 size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of RC frames in shifting on seismic zone 3 to 5 and retrofitting techniques using ETABS Rupali, S. and Sawant, V. A., 1 D contaminant transport using element free galerkin method with irregular nodes.
2017 2017	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50 International Journal of Structural Engineering and Analysis, Vol. 3, No. 2, pp. 1-16 Coupled System Mechanics, Techno Press, 5(3), 203-221. International Journal of	 size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of RC frames in shifting on seismic zone 3 to 5 and retrofitting techniques using ETABS Rupali, S. and Sawant, V. A., 1 D contaminant transport using element free galerkin method with irregular nodes. Rupali, S and Sawant, V. A., Contaminant transport using geomembranes
2017 2017 2016	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50 International Journal of Structural Engineering and Analysis, Vol. 3, No. 2, pp. 1-16 Coupled System Mechanics, Techno Press, 5(3), 203-221. International Journal of Geosynthetics and Ground	 size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of RC frames in shifting on seismic zone 3 to 5 and retrofitting techniques using ETABS Rupali, S. and Sawant, V. A., 1 D contaminant transport using element free galerkin method with irregular nodes.
2017 2017 2016	University of Tizi-Ouzou Publisher – ESCI, IF - 00) International Journal of Protective Structures, Vol. 9, No. 4, 1-18,(SAGE Publisher – SCI Journal, IF – 0.60) Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50 International Journal of Structural Engineering and Analysis, Vol. 3, No. 2, pp. 1-16 Coupled System Mechanics, Techno Press, 5(3), 203-221. International Journal of	 size and shape on impact strength of mild steel and Armox 500T steel K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of RC frames in shifting on seismic zone 3 to 5 and retrofitting techniques using ETABS Rupali, S. and Sawant, V. A., 1 D contaminant transport using element free galerkin method with irregular nodes. Rupali, S and Sawant, V. A., Contaminant transport using geomembranes

2016	Advances in Concrete	K. Senthil, K.S. Satyanarayanan, S. Rupali, Energy absorption of fibrous
	Construction, Vol. 4, No. 1, pp.	self-compacting reinforced concrete system
	37-47	
2014	Advances in Environmental	Satavalekar, R. and Sawant, V.A., Numerical Modelling of Contaminant
	Research, 3(2), 117-129.	transport using FEM and Meshfree Method
2011	International Journal of Earth	Satavalekar, R. and Shah, A.J., Comparison of different stabilisation
	Sciences and Engineering, ISSN	methods for rock slopes at Saptshrungi Ghat roads in Nasik
	0974-5904, 4(6), 55-58.	
	International Journal of Fuzzy	Sinha, D.K., Rupali, S. and Senthil, K. (2021). "Application of Adaptive
	Logic and Intelligent Systems	Neuro-Fuzzy Inference System for Evaluating Compressive Strength of
		Concrete.",

Conference Publications :

Year	Conference	Publication
2022	International Conference on on Recent advances in	Gulzar, S. and Rupali, S. (2022). "Reliable
	sustainable construction technologies and	Geotechnical Design of strip foundation considering
	environment (ICRASE 2022), 15-16 June 2022,	Monte Carlo simulations.",
	Crescent Institute of Science and Technology,	
	Chennai	
2022	International Conference on on Recent advances in	Syed A. and Rupali, S. (2022). "Sustainable
	sustainable construction technologies and	utilization of dredged material from Wular lake using
	environment (ICRASE 2022), 15-16 June 2022,	cement kiln dust as stabilizer"
	Crescent Institute of Science and Technology,	
	Chennai	
2022	International Conference on on Recent advances in	Jangir, H. and Rupali, S. (2022). "Prediction of
	sustainable construction technologies and	liquefaction potential by adaptive neuro fuzzy
	environment (ICRASE 2022), 15-16 June 2022,	interference system (ANFIS)."
	Crescent Institute of Science and Technology,	
	Chennai	
2022	International Conference on Advanced Engineering	Jangir, H. and Rupali, S. (2022). "Evaluation of
	Optimization through intelligent techniques, SVNIT	Adaptive Neuro Fuzzy interface system for
	Surat, January 28-30.	forecasting soil's unconfined compressive strength."
2021	Proceedings of ICRACE, NIT Silchar, September	Burhan, M., Rupali, S. and Bhat, I. "Response of
		Crumb Rubber Additives on Shear Strength
		Characteristics of Poorly Graded Soils."
2021	Proceedings of ICRACE, NIT Silchar, September	Mahajan, A., Rupali, S. and Dogra, A. K. "Numerical
		Analysis of Stability in Gabion walls under the effect
		of surcharge load."
2021	Proceedings of Advances in Construction Technology	Mahajan, T., Rupali, S. and Mohanty, A. "Numerical
	and Management ACTM, Pune, 11-12th March	Analysis of transport and behaviour of Microbes in
		the soil: A review to bioaugmentation process"
2021	Proceedings of Advances in Construction Technology	Kumar, S., Rupali, S., Senthil, K and Gupta, I.
	and Management ACTM, Pune, 11-12th March	"Investigation of Vibration generated due to
		movement of underground metro train: A Review."
2020	Proceedings of Indian Geotechnical Conference,	Bhat, I., S, Rupali, and Kumar, A. "Hazard
	December 17-19 (IGS Vishakhapatnam)	Assessment of Coal Mines Under Impact Loads Using
		Holmquist Johnson - Cook Constitutive Model."
2020	10th International Symposium on Geotechnical	K. Senthil, L. Pelecanos S. Rupali, Prediction of
	Aspects of Underground Construction in Soft Ground,	damage intensity of reinforced concrete tunnels and
	University of Cambridge	soil against blast loading,

2020	10th International Symposium on Geotechnical	L. Pelecanos, K. Senthil, S. Rupali, Simplified
	Aspects of Underground Construction in Soft Ground,	modelling of the transient response of foundation piles
	University of Cambridge, UK	due to dynamic loads generated from underground
		tunnels,
2019	UKIERI Concrete Congress, March 5-8, Jalandhar,	S. Rupali and R. R. Arun, Capillary Suction,
	India	Ultrasonic Pulse Velocity And Chloride Penetration
		Studies On Basalt Reinforced Self-Compacting
		Recycled Aggregate Concrete
2019	Environmental Geotechnology, Recycled Waste	Bhat, I.A., Rupali, S. and Kumar, A., Environmental
	Materials and Sustainable Engineering, June 16-20,	Impact assessment of soil stabilization materials
	Illinois, Chicago.	
2019	5th International Conference on Data Science and	Sinha, D.K., Rupali, S. and Bawa, S., Application of
	Engineering (ICDSE), September 26-28, Patna, India.	Adaptive Neuro-Fuzzy Inference System for the
		prediction of Early Age Strength of High Performance
		Concrete
2019	Indian Geotechnical Conference, 19-21, December	Bhat, I.A., S. Rupali and Kumar, A., Seismic Stability
	2019, SV NIT Surat, India	of Nailed Slopes for Un-drained and Drained
		Conditions
2019	International Conference on Experimentation and	K. Senthil, Iwansh Gupta, S. Rupali, L. Pelecanos, A
	Progression in Engineering, Research and	Review on influence of blast loading on structural
	Technology, 15-16, November 2019, Lovely	elements and systems
	Professional University, Jalandhar, Punjab	
2019	7th International Congress on Computational	K. Senthil S. Rupali, Cryogenic Conditions on
	Mechanics and Simulation, 11-13th December 2019,	Ti-6Al-4V Plate under sharp nose hard steel
	IIT Mandi, India	projectiles,
2019	7th International Congress on Computational	Ajay Pratap, A. Thakur, S. Rupali, K. Senthil, Failure
	Mechanics and Simulation, 11-13th December 2019,	mechanisms along with constitutive behaviour and
	IIT Mandi, India	damage in concrete bricks and infilled frames
2019	International Conference on Experimentation and	K. Senthil, S. Rupali, Ajay Pratap, A. Thakur, A. P.
	Progression in Engineering, Research and	Singh, Behaviour of concrete brick and flyash brick
	Technology, 15-16, November 2019, Lovely	on infilled frame under cyclic loading
	Professional University, Jalandhar, Punjab	
2019	5th International Conference on Data Science and	Sinha, D.K., Rupali, S. and Bawa, S. "Application of
	Engineering (ICDSE), September 26-28, Patna, India	Adaptive Neuro-Fuzzy Inference System for the
	(IEEE Conference)	prediction of Early Age Strength of High Performance
2010		Concrete
2019	2nd International Conference on Environmental	Bhat, I.A., Rupali, S. and Kumar, A. "Environmental
	Geotechnology, Recycled Waste Materials and	Impact assessment of soil stabilization materials
	Sustainable Engineering, June 16-20, Illinois,	
2010	Chicago.	
2018	2nd International Conference on Advances in	K. Senthil, S. Rupali, M.A. Iqbal, Impact strength of
	Mechanical Engineering, SRM University, Chennai,	mild steel plates against flat nose impactor of large
2018	Tamil Nadu, India.International Conference on Theoretical and	masses K Sonthil S Pupeli H S Photti A P Singh
2018		K. Senthil, S. Rupali, H.S. Bhatti, A.P. Singh, Numerical studies on the behaviour of highway
	Experimental Advances in Civil Engineering, SRM University, Chennai, Tamil Nadu, India.	metallic lamp post under light vehicles impact
2018	International Conference on Theoretical and	K. Senthil, S. Rupali, A.P. Singh, Numerical
2018	Experimental Advances in Civil Engineering, SRM	investigations on the behaviour of reinforced concrete
	University, Chennai, Tamil Nadu, India.	building against blast loading
2018	Proceedings on the National Conference of Advanced	S. Rupali, R. Arvind, I. Bhat, K. Senthil, A.K.
2010	Structures, Materials and Methodology in Civil	Agnihotri, "Influence of vibrations by rolling stock
	Engineering, NIT Jalandhar, India	metro rail on pile-soil interaction"
	Engineering, witt jalanunal, muta	

2018	Proceedings on the National Conference of Advanced	Vipasha Rishi, K Senthil, S. Rupali, Jatin Anand, B.
	Structures, Materials and Methodology in Civil	Shailja, Influence of lime and chicken mesh on
	Engineering, NIT Jalandhar	compaction properties of soil
2018	Proceedings of the 11th Structural Engineering	K. Senthil, K.B. Gurneet, S. Rupali, L. Pelecanos,
	Convention, Jadavpur University, India.	"Computation of impact resistance of 5083-H116
		aluminum structures by conical impactor"
2017	International Conference on Sustainable Civil	K. Senthil, S. Rupali, M.A. Iqbal, Performance of
	Engineering Practices, NITTTR Chandigarh, India.	retaining walls with various configurations against
		lateral earth pressure
2017	3rd International Conference on Advances In Steel,	K. Senthil, S. Rupali, S. Pradhan, Modelling and
	Power And Construction Technology, Organized by	simulations on steel bridges against wheel loading
	OP Jindal University, Raigarh, Chhattisgarh, India	
2017	8th International Conference on Structural	K. Senthil, S. Rupali, M.A. Iqbal, Finite element
	Engineering and Construction Management,	studies on metal plates against oblique impact of
	University of Peradeniya, Peradeniya, Kandy, Sri	cylindro-conical projectiles
	Lanka, pp. 54-60	
2017	32nd Indian Engineering Congress, The Institutions of	K. Senthil, S. Rupali, M.A. Iqbal, K.S.
	Engineers, Chennai, Tamil Nadu, India	Satyanarayanan, Non-linear behavior of short and
		long reinforced concrete column: Finite element
		studies
2016	6th International Conference on Recent Advances in	K. Senthil, K.S. Satyanarayanan, S. Rupali, Behavior
	Geotechnical Earthquake Engineering and Soil	of RC frames under monotonic and cyclic loading
	Dynamics, IIT Roorkee, Uttarkhand, India.	
2016	10th Structural Engineering Convention, pp.	K. Senthil, K.S. Satyanarayanan, S. Rupali, Behavior
	1566-1571, CSIR-SERC, Chennai, Tamil Nadu, India	of fibrous reinforced concrete systems subjected to
		monotonic and cyclic loading
2014	Indian Geotechnical Conference Kakinada, India,	Satavalekar, R., Sawant, V. and Pradeep Kumar, P., 2
	December 18-20, 1265-1268.	D FEM Analysis Of Contaminant Transport In
		Saturated Heterogeneous Media,
2014	Int Conf on Sustainable Civil Infrastructure, India	Satavalekar, R. and Sawant, V. A., 1 D Contaminant
	ASCE Section, Hyderabad, India, October 17-18,	Migration in Heterogeneous Media Using Element
	453-461.	Free Galerkin Method
2014	Proc. of National Conference Geotechnical Engg	Satavalekar, R. and Sawant, V.A., 2-d Finite Element
	Practice and Sustainable Infrastructure Development,	Modelling Of Contaminant Transport In Saturated
	IGS Ludhiana Chapter, Ludhiana, India, October	Media
	11-12,432-438.	
2014	5th National Conference on emerging vistas of	Satavalekar, R. and Sawant, V.A., Contaminant
	technology in 21st Century, Vadodara, India, April	transport in landfill liner using finite element method
	4-5,31-35.	
2013	Proc. Of National conference Recent Trends and	Satavalekar, R. and Sawant, V.A., Finite element
	Innovation in civil engineering, BRCM College of	analysis of contaminant transport in saturated media
	engineering & Technology, Haryana, India	
2011	Indian Geotechnical Conference Kochi, India,	Satavalekar, R. and Shah, A.J., Rockfall Analysis and
	December 15-17, 977-980.	Application of Available Methods of Mitigation to
		Saptshrungi Ghat roads

Book/Chapter Publications :

Туре	Title	Publisher	Authors	ISBN/ISS	Year
				N No.	

Book	Lect.Notes Mechanical Engineering,	Springer Nature	Jangir, H and	978-981-1	2023
Chapter	Advanced Engineering Optimization	Springer Future	Rupali, S.	9-9284-1,	2023
empter	Through Intelligent Techniques		(2023)"Evaluatio	526604_1	
	1 mough mongon roomingoos		n of Adaptive		
			Neuro-Fuzzy		
			Inference System		
			for Forecasting		
			Soil's		
			Unconfined		
			Compressive		
			Strength",		
Book	Maharashtra" in Geotechnical	CRC Press	Chore, H.S.,	978100317	2021
	Characteristics of Soils and Rocks of		Rupali, S. and	7159	
	India		Kumar G.		
Book	Proceedings of the Indian Geotechnical	Springer	Bhat, I. A.,		2021
Chapter	Conference 2019, IGC-2019 Volume IV		Rupali, S. and		
-	(pp.197-209), Lecture Notes in Civil		Kumar, A.		
	Engineering, vol 138		(2021). "Seismic		
			Stability of		
			Nailed Slopes for		
			Undrained and		
			Drained		
			Conditions		
Book	Lecture Notes in Civil Engineering	Springer	Bhat, I. A.,		2021
Chapter			Rupali, S. and		
			Kumar, A.		
			(2021).		
			"Environmental		
			Impact		
			Assessment of		
			Soil Stabilization		
			Materials. In:		
			Reddy K.R.,		
			Agnihotri A. K.,		
			Yukselen-Aksoy		
			Y., Dubey B.K.,		
			Bansal A. (eds)		
			Sustainable		
			Environment and		
			Infrastructure.		
Book	Advances in Structural Integrity, Lecture	Springer	K. Senthil, S.	978-981-1	2020
Chapter	Notes in Mechanical Engineering		Rupali, M.A.	3-8767-8	
			Iqbal, A Thakur,		
			A.P. Singh,		
			Influence of		
			curvature ratio on		
			perforation of		
			2024 aluminium		
			by conical		
			impactor		

	Sustainable Engineering	Springer	Rupali, S. and		2019
			Sawant, V. A.,		
			Studies on		
			Transport of		
			Reactive and		
			Non-reactive		
			Elements in		
			Fractured Media		
Conference	Advanced Structures, Materials and	ASMMCE 2018,	Editors: K.	978-93-53	2018
Proceedings	Methodology in Civil Engineering	Department of	Senthil, Rajiv	21-892-8	
		Civil Engineering	Kumar, S.		
			Rupali, Amit		
			Kumar		

Events Organized :

Category	Туре	Title	Venue	From	То	Designation
Conference	National	Advanced Structures,	Dr. B R Ambedkar	03-11-2018	04-11-2018	Organising
		Materials And	National Institute of			Secretary
		Methodology in Civil	Technology			
		Engineering	Jalandhar			
		(ASMMCE 2018)				
STC	National	DST Sponsored One	NIT Jalandhar	09-07-2019	13-07-2019	Coordinator
		week Short Term				
		course on				
		"Computational				
		Modelling:				
		Applications in				
		Structural and				
		Geomechanics				
		Problems"				
Workshop	National	TEQIP III Sponosred	NIT Jalandhar	05-05-2018	05-05-2018	Coordinator
		One day workshop on				
		"Current Trends and				
		Innovations in the				
		Industry – Metro				
		Construction and				
		Underground Tunnels"				
Workshop	National	TEQIP III Sponsored	NIT Jalandhar	25-08-2018	25-08-2019	Coordinator
		One-day workshop				
		entitled on "Project				
		Management and				
		Methodology -				
		Maintenance and				
		Vigilance Awareness"				
Workshop	National	TEQIP III Sponsored	NIT Jalandhar	13-04-2019	13-04-2019	Coordinator
		One Day workshop on				
		"Advances in				
		Construction Industry -				
		Metro Rails, Power				
		Plants and Stadiums"				

Conference	National	First Indian	Department of Civil	19-11-2021	20-11-2021	Organising
		Geotechnical and	Engineering			Secretary
		Geoenvironmental				
		Engineering Conference				

Professional Affiliations :

Designation	Organization
Life Member	Indian Society for construction materials and structures
Life Member	Indian Geotechnical Society
Life Member	Indian Association for structural engineering
Life Member	Member of Institution of Engineers India
Life Member	Indian Society of Hydraulics (ISH)
Life Member	International Association of Engineers
Life Member	Indian Concrete Institute

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Ashish Kumar	Geotechnical Engineering (TBD)	Ongoing	2022	
Kushwaha				
Ankita Sawai	Modelling of COntaminant Transport (Tentative)	Ongoing	2020	
Malla Karthik	Geotechnical Earthquake Engineering (Tentative)	Ongoing	2020	Dr. K Senthil
Kumar				
Dhanashri Devi	Structural Engineering (TBD)	Ongoing	2020	Dr. H S Chore
Ankush Dogra	Numerical and Experimental Analysis of	Ongoing	2019	
	Damping Characteristics in Bituminous Coal			
	Under Impact Loads			
Ilyas Ahmad	Constitutive Modeling of Underground Mines for	Submitted	2018	Prof A K Agnihotri
Bhat	Dynamic Loads Using Disturbed state concept			

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Asif Syed		Awarded	2022	
Himanshu Jangir		Awarded	2022	
Saaqib Gulzar		Awarded	2022	
Aniket Mahajan	Numerical Analysis of Stability in Gabion Walls	Awarded	2021	
Burhan Muzaffar	Behavior of Poorly Graded Soils to Crumb	Awarded	2021	
Baba	Rubber Additives and 3-D Geogrid			
	Reinforcement Using Large- Scale Direct Shear			
	Tests			
Tmana Mahajan	Characterization and Leachability of Soil and Fly	Awarded	2021	Dr. Anee Mohanty
	Ash			
Shubham Kumar	Numerical study of the pile subjected to dynamic	Awarded	2021	Dr. K Senthil
	loading			
Bhanwar Chand		Awarded	2020	Dr. K Senthil
Meena				
Iwansh Gupta		Awarded	2020	Dr. K Senthil
Pravesh		Awarded	2020	Dr. K Senthil
Karwarsara				
Gaurav Chauhan		Awarded	2020	Dr. K Senthil

Deepak Kumar	Application of Adaptive Neuro Fuzzy Inference	Awarded	2019	Dr. Shailja Bawa
Sinha	system for forecasting the compressive strength			
	of high performance concrete			
Ajay Pratap	Studies on Fly ash and Concrete brick masonry	Awarded	2019	Dr. K Senthil
	infilled reinforced concrete frame against static			
	cyclic loading			
Arun Raj	Mechanical and Durability study of basalt fibre	Awarded	2018	
	reinforced self compacting recycled aggregate			
	concrete			
Aravind T R	Study on the influence of vibration by rolling	Awarded	2018	Dr. K Senthil
	stock on pile soil interaction			
Rajkumar Meena	Stabilization of black cotton soil using lime and	Awarded	2018	Dr. Vaibhav Sharma
	grass ash			
Anant Kapil	Stabilization of high plastic clay using grass ash,	Awarded	2017	Prof A K Agnihotri
	fly ash, lime and polypropylene fiber			
Yogesh Sanjay	Modelling of CBR, Liquid Limit, Plastic Limit,	Awarded	2017	Prof A K Agnihotri
Patil	OMC and MDD by ANN			

Patents :

Name	Reg./Ref. No.	Date of	Organization	Status
		Award/Filling		
Estimation of Contaminant	SW-14252/2021	03 March 2021	Copyright Office,	Awarded
Transport through Fractured Porous			Government of	
Media using Element Free Garlekin			India	
Method				
Variable Head Free Falling Impact	337579-001	06-07-2021	Patent Office,	Awarded
Testing Machine			Government of	
			India	
Large scale soil sample extractor	345760-001	19/08/2021	Patent Office,	Awarded
			Government of	
			India	
Device to simulate and measure the	345811-001	30-08-2021	Patent Office,	Awarded
earthquake response of small scale			Government of	
buildings			India	

Admin. Responsiblities :

Position Held	Organization	From	То
GH-1 Warden	Dr. B R Ambedkar NIT Jalandhar	08-03-2021	till Present

Award and Honours :

Title	Activity	Given by	Year
'Young Woman in Engineering' Award	5th Annual Women's meet	Venus International	2020
		Foundation	
Best Paper Award in National Conference	National Conference	Parul Institute of Technology,	2014
on Emerging VISTAS of Technology in		Vadodara	
21st Century (NCEVT),			