### **Profile Page**



Name : Dr Senthil Kasilingam

Designation : Assistant Professor Grade-i

Department : Civil Engineering

Qualification : Ph. D Structural Engineering (IIT Roorkee)

Master of Technology(Gold Medalist) Structural Engineering

(SRM University)

Bachelor of Engineering (Honours) Civil Engineering (Anna

University)

Diploma in Civil Engineering Civil Engineering (Directorate

of Technical Education)

Address : Room No. CE-309, Department of Civil Engineering

NIT Jalandhar, Jalandhar

Jalandhar, Punjab - 144011

Email : kasilingams@nitj.ac.in

Phone : 8267927382

#### **Research Interests:**

Impact and Computational Mechanics;

Materials;

Characterization;

Extreme Loading;

#### **Other Profile Links:**

#### Google Scholar Link:

Google Scholar Click Here

#### Personal Web Link:

Web of Science Researcher ID Click Here

SCOPUS Click Here

ORCiD Click Here

Vidwan Click Here

Researchgate Click Here

#### **Journal Publications:**

Year	Journal	Publication

2023	Journal of Building Engineering,	Rachit Sharma, K Senthil, An Investigation on Mechanical and
	Vol. 69, March 2023. (SCI	Microstructural Properties of Hybrid Fiber Reinforced Concrete with
	Indexed - Elsevier – IF – 7.14, Q1	Manufactured Sand and Recycled Coarse Aggregate
	Journal)	
2023	Asian Journal of Civil	Divyansh Tiwari, K. Senthil, Ankush Sharma, Evaluation of Force and
	Engineering, Vol. 24, Springer	Dynamic Factor on Reinforced Concrete Deck Slab through the Static
	Publisher (SCOPUS Indexed, Q2	and Transient Dynamic Tests
2022	Journal)	
2023	International Journal of Impact	K. Senthil, Ankush Thakur, A. P. Singh, M. A. Iqbal, N. K. Gupta,
	Engineering, Elsevier Publisher	Transient Dynamic Response of Brick Masonry Walls under Low
	(SCI Indexed, Elsevier – IF –	Velocity Repeated Impact Load
2022	4.6,Q1 Journal)	V. Canthil Dochit Champa Fredriction of Community and Tancile
2023	Journal of Vibration Engineering & Technologies, Vol. 11. April	K. Senthil, Rachit Sharma, Evaluation of Compressive and Tensile
	2023. (SCI Indexed – Springer	Stress-Strain Parameters of Concrete Damage Plasticity Model for
	Publisher – IF – 2.3, Q2 Journal)	concrete slabs under Impact load
2023	Journal of Vibration Engineering	K. Senthil, L. Pelecanos, S. Rupali, R. Sharma, Manish Kumar,
2023	& Technologies, Vol. 11. April	Experimental and numerical investigation on soft soil tunnels under
	2023. (SCI Indexed – Springer	impact loading condition
	Publisher – IF – 2.3, Q2 Journal)	
2023	International Journal of Impact	K. Senthil, L. Pelecanos, S. Rupali, R. Sharma, K. Saini, M. A. Iqbal, N.
2028	Engineering, Elsevier Publisher	K. Gupta, Experimental and Numerical Investigation of Transient
	(SCI Indexed, Elsevier – IF –	Dynamic Response on Reinforced Concrete Tunnels against Repeated
	4.6,Q1 Journal)	Impact Loads
2023	International Journal of	K. Senthil, Ankur Tyagi. A Review: Efficient Protective Materials of
	Transportation Engineering and	Columns under Vehicle Collision Loading
	Traffic System. 2022; 8(2): 9–21,	
	JournalsPub Publisher (ESCI)	
2022	An International Journal, Asian	Ankush Thakur, K. Senthil, A.P Singh, Experimental Investigation on
	Journal of Civil Engineering, Vol.	Crumb Rubber based Concrete Bricks along with Polypropylene and
	23, Springer Publisher (SCOPUS	Steel Fibers
	Indexed, Q2 Journal)	
2022	An International Journal,	A. Thakur, K. Senthil, A.P. Singh, Evaluation of Concrete Bricks with
	Construction and Building	Crumb Rubber and Polypropylene Fibers under Impact Loading
	Materials, November 2021. (SCI	
	Indexed - Elsevier – IF – 6.14, Q1	
2022	Journal)	W. Cardell M. Cade I. D. I
2022	International Journal of Protective	K. Senthil, M. Sethi, L. Pelecanos, N.K Gupta, Mitigation Strategies of
	Structures, Vol. 13. No. 1, January	Underground Tunnels against Blast Loading
	2022. (SCCOPUS Indexed –	
	SAGE Publisher – IF – 0.60, Q2	
2022	Journal) International Journal of Critical	K. Senthil, M. Sethi, L. Pelecanos, Techniques to safeguard the
2022	Infrastructures, Vol. 12, No. 3,	Underground Tunnels against Surface Blast load
	June 2022. (SCOPUS Indexed -	Chargeound Tunnels against bufface Diast foad
	Inderscience Publisher – Q2	
	Journal)	
2021	An International Journal, Vol. 29,	K. Senthil, M.A. Iqbal, Prediction of superior target layer configuration
	2106-2119, An International	of Armox 500T steel, mild steel and aluminium 7075-T651 alloy against
	Journal, Structures, Elsevier	7.62 AP projectile
	Publisher (SCI Indexed, Q1	
	Journal)	
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2021	Journal of Structural Engineering	K Senthil, Muskaan Sethi, L Pelecanos, A Review on the performance of
2021	and Applied Mechanics, Vol. 4,	the underground tunnels against blast loading
	Golden Light Publisher (ESCI)	the underground tunners against blast loading
2021	International Journal of Structural	R. Sharma, K. Senthil, Reviewing on Influence of Waste Materials on
2021	Engineering, March 2021.	Structural Concrete under Impact Loading
	(SCOPUS Indexed - Inderscience	Structural Concrete under Impact Loading
	Publisher – IF – 2.01, Q2 Journal)	
2021	International Journal of Structural	K Senthil, I Gupta, S Rupali, L Pelecanos, Reviewing on the Performance
2021	Engineering and Analysis, Vol. 7,	of Masonry, Reinforced Concrete and Underground tunnels against Blast
	No. 2, pp. 1-14, JournalsPub	Loading
	Publisher (ESCI	Loading
2021	International Journal of Fuzzy	D. Sinha, S. Rupali, K. Senthil, Application of adaptive neuro fuzzy
2021	Logic and Intelligent Systems,	inference system for evaluating compressive strength of concrete
	Vol. 21, No. 2, 177-188, 2021.	inference system for evaluating compressive strength of concrete
	(SCOPUS Indexed - Korean	
	Institute of Intelligent Systems	
2021	Publisher, Q2 Journal) International Journal of Protective	K. Senthil, R. Sharma, S. Rupali, A. Thakur, M. A. Iqbal, N. K. Gupta,
2021	Structures, Vol. 12. No. 3, June	Evaluation of Superior Layer Configuration of Titanium Ti-6Al-4V and
	2021. (SCCOPUS Indexed –	Aluminium 2024-T3 against Soft Projectiles
	SAGE Publisher – IF – 0.60, Q2	Additional 2024-13 against Soft Flojecties
	Journal)	
2020	Journal of Structural Engineering	K Senthil, Iwansh Gupta, S Rupali, L Pelecanos, A review on the
2020	and Applied Mechanics, Vol. 3,	performance of reinforced concrete structures under blast loading
	No. 4, 216-228. Golden Light	performance of reinforced concrete structures under blast foading
	Publisher (ESCI)	
2020	Ecology, Environment and	K. Senthil, S. Rupali, Ajay Pratap, A. Thakur, A. P. Singh, Behaviour of
	Conservation, Vol. 26, 300-304.	concrete brick and flyash brick on infilled frame under cyclic loading
	(SCOPUS Indexed, Q4 Journal)	
2020	An International Journal,	A. Thakur, K. Senthil, A.P. Singh, M.A. Iqbal, Prediction of Dynamic
	Structures, Vol. 27, 673-686,	Amplification Factor on Clay Brick Masonry Assemblage
	Elsevier Publisher (SCI Indexed,	
	Q1 Journal)	
2019	An International Journal, Coupled	K Senthil, Akhil Singhal, Shailja Bawa, Damage mechanism and stress
	Systems Mechanics, Vol 8. No, 4,	response of reinforced concrete slab under blast loading
	315-338. Techno Press Publisher	
	(SCOPUS Indexed, Q3 Journal)	
2019	International Journal of Protective	K. Senthil, M.A. Iqbal, S. Rupali, Influence of Impactor Nature, Mass,
	Structures, Vol. 10, No. 2,	Size and Shape on Ballistic Resistance of Mild Steel and Armox 500T
	174-197, SAGE Publisher	Steel
	(SCOPUS Indexed, Q2 Journal)	
2018	Journal of Materials and	K. Senthil, S. Rupali, Navjit Kaur, The performance of monolithic
	Engineering Structures, Vol. 5, No.	reinforced concrete structure includes slab, beam and column against
	3, 137-151, Mouloud Mammeri	blast load
	University Publisher (ESCI)	
2018	Journal of Materials and	K. Senthil, S. Rupali, Crashworthiness of highway lamp post against
	Engineering Structures, Vol. 5, No.	vehicle impact
	4, Mouloud Mammeri University	
	Publisher (ESCI)	
2018	Advances in Concrete	K. Senthil, A. Gupta, S.P. Singh, Computation of stress-deformation of
	Construction, Vol. 6, no 3, pp	deep beam with openings using finite element method
	245-268, Techno Press Publisher	
	(SCI Indexed, Q2 Journal)	

2018	Journal of Structural Engineering	K. Senthil, B. Shailja, C.P. Aswin, Influence of concrete strength and
2016	and Applied Mechanics, Vol. 1,	diameter of reinforcing bar on pullout tests using finite element analysis
	No. 3, 105-116, Golden Light	diameter of remioreing bar on puriout tests using time element analysis
	Publisher (ESCI)	
2017	Thin-Walled Structures, Vol 126,	K. Senthil, M.A. Iqbal, B. Arindam, R. Mittal, N.K. Gupta, Ballistic
	May 2018, Pages 94-105, Elsevier	resistance of 2024 aluminium plates against hemispherical, sphere and
	Publisher (SCI Indexed, Q1	blunt nose projectiles
	Journal)	
2017	International Journal of Protective	K. Senthil, M.A. Iqbal, N.K. Gupta, Ballistic resistance of mild steel
	Structures, Vol. 8, No. 2, pp.	plates of various thicknesses against 7.62 AP projectiles
	177-198, SAGE Publisher	
	(SCOPUS Indexed, Q2 Journal)	
2017	International Journal of Structural	K. Senthil, R.A. Khan, S. Arvin, A. Singh, Structural behaviour of
	Engineering and Analysis, Vol. 3,	railway bridges against wheel loading by finite element analysis
	No. 1, pp. 1-14, JournalsPub	
	Publisher (ESCI	
2017	Journal of Coupled Systems and	K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and
	Multiscale Dynamics, Vol. 5, No.	non-ductile reinforced concrete frames under static and cyclic loading
	1, pp. 38-50, American Scientific	
	Publisher (ESCI)	
2017	International Journal of Impact	K. Senthil, M.A. Iqbal, P.S. Chandel, N.K. Gupta, Study of the
	Engineering, Vol. 108, pp.	constitutive behavior of 7075-T651 aluminum alloy
	171-190, Elsevier Publisher (SCI	
2015	Indexed, Q1 Journal)	W.G. dilaw.G. and D. H.M.G. and D. G. d. F. d. d.
2017	International Journal of Structural	K. Senthil, S.K. Gupta, S. Rupali, M. Gupta, A.P. Singh, Evaluation of
	Engineering and Analysis, Vol. 3,	RC frames in shifting on seismic zone 3 to 5 and retrofitting techniques
	No. 2, pp. 1-16, JournalsPub	using ETABS
2017	Publisher (ESCI) International Journal of Impact	M.A. Iqbal, K. Senthil, V. Madhu, N.K. Gupta, Oblique impact on single,
2017	Engineering, Vol. 110, pp. 26-38,	layered and spaced mild steel targets by 7.62 AP projectiles
	Elsevier Publisher (SCI Indexed,	layered and spaced finid seer targets by 7.02 Ar projectives
	Q1 Journal)	
2017	Structural Engineering and	S. Muthukumar, K.S. Satyanarayanan, K. Senthil, Studies on two-bay and
	Mechanics, Vol. 64, No. 5,	three storey infilled frame with different interface materials:
	543-555, Techno Press Publisher	Experimental and Finite element studies
	(SCI Indexed, Q1 Journal)	
2016	Journal, Indian Journal of Science	K. Senthil, B. Arindam, R. Mittal, M.A. Iqbal, Numerical investigations
	and Technology, Vol. 9, No. S1,	on impact of ogive nosed projectiles on thin plates
	1-6, December, 2016 (SCOPUS	
	Indexed, Q4 Journal)	
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, Techno Press Publisher	
	(SCI Indexed, Q2 Journal)	
2016	Coupled Systems Mechanics, Vol.	K. Senthil, K.S. Satyanarayanan, Influence of interface on the behavior of
	5, No. 2, pp. 127-144, Techno	infilled frame subjected to lateral load using linear analysis
	Press Publisher (SCOPUS	
	Indexed, Q3 Journal)	
2016	International Journal of Impact	M.A. Iqbal, K. Senthil, P. Sharma, N.K. Gupta, An investigation of
	Engineering, Vol. 96, pp. 146-164,	constitutive behavior of Armox 500T steel and armour piercing
	Elsevier Publisher (SCI Indexed,	incendiary projectile material
	Q1 Journal)	

2016	I 1 - f C 1 - 1 C 1 - 1 C	W. Caratti D. A. Whan, C. I. Charles, D.W. Marra, D. Charles and
2016	Journal of Coupled Systems and	K. Senthil, R.A. Khan, G.J. Chauhan, D.K. Meena, D. Singal, Analysis of
	Multiscale Dynamics, Vol. 4, No.	responses of highway bridges to impact loading and drop impacts: Finite
	4, pp. 292-307, American	element studies
	Scientific Publisher (ESCI)	
2015	International Journal of Impact	M.A. Iqbal, K. Senthil, P. Bhargava, N.K. Gupta, The characterization
	Engineering, Vol. 78, pp. 98–113,	and ballistic evaluation of mild steel
	Elsevier Publisher (SCI Indexed,	
	Q1 Journal)	
2014	International Journal of	K. Senthil, M.A. Iqbal, A. Kumar, Behavior of cantilever and counterfort
	Geotechnical Engineering, Vol. 8,	retaining walls subjected to lateral earth pressure
	No. 2, pp. 167-181, Taylor and	
	Francis Publisher (SCOPUS	
	Indexed, Q2 Journal)	
2013	Theoretical and Applied Fracture	K. Senthil, M.A. Iqbal, Effect of projectile diameter on ballistic resistance
	Mechanics, Vol. 67-68, pp. 53-64,	and failure mechanism of single and layered aluminum plates
	Elsevier Publisher (SCI Indexed,	
	Q1 Journal)	
2013	Proceedings of the Indian National	K. Senthil, G. Tiwari, M.A. Iqbal, N.K. Gupta, Impact response of single
	Science Academy, Vol. 79, No.	and layered thin plates
	4A, pp. 705-716, Springer	
	Publisher (SCOPUS Indexed, Q4	
	Journal)	

## **Conference Publications:**

Year	Conference	Publication
2023	International Conference on Climate Resilient	Saurabh Prajapati, K. Senthil, Influence of steel slag
	Construction and Building Materials, March 3rd - 5th,	aggregate as a substitute for coarse aggregate in the
	2023, NIT Surathkal, India	concrete industry - A critical review
2023	UKIERI 2023, 14-17 March 2023, NIT Jalandhar,	Mandeepak Singh, K Senthil, H.S Chore, Influence of
	Jalandhar, India	steel slag and steel fibers on mechanical properties of
		normal concrete
2023	UKIERI 2023, 14-17 March 2023, NIT Jalandhar,	Mohd Zulqar Nain, K. Senthil, Influence of rice husk
	Jalandhar, India	ash and bagasse ash on durability of concrete
2023	UKIERI 2023, 14-17 March 2023, NIT Jalandhar,	Pranshul Bijalwan, K. Senthil, Mechanical
	Jalandhar, India	characterization of the concrete mixture, including
		steel slag aggregate and steel fibres
2022	IMPLAST 2022, 21-26 August 2022, IIT Madras,	K. Senthil, Rachit Sharma, S. Rupali, M.A. Iqbal and
	India	N.K. Gupta, Influence Of Reinforcement Bar On The
		Performance Of Reinforced Concrete Slab Under
		Impact Loading
2022	Structural Engineering Convention 2022, MNIT	I Bhat, S Rupali, A Kumar, K Senthil, Numerical
	Jaipur, India (ASPS Conference Proceedings 1 (5),	Analysis of Behavior of Geo-Synthetically Reinforced
	1563-1568)	Slopes Under Seismically Active Conditions
2022	Materials Today: Proceedings, (SCOPUS Indexed)	Gagan DeepSingh, Vinod KumarSharma, Bijit
	3rd International Conference on Smart and	Sangma, RajivKumar, K. Senthil, Amrit Pal Singh,
	Sustainable Developments in Materials,	Experimental study on bituminous concrete pavement
	Manufacturing and Energy Engineering, November	using low density polyethylene and sasobit
	19-20, 2021 - NMAM Institute of Technology,	
	Karnataka, India.	

2022 2. 2021 International Conference on Materials, Mechanics and Structures (CMMS 2022) National Institute of Technology Calicut, Kerala, India, 10th – 12th March, 2022 2. 2021 Indian Integrity Conference and Exhibition, IT Hyderabad, India 2. 2022 4th ?Structural Integrity Conference and Exhibition, IT Hyderabad, India 2. 2022 4th ?Structural Integrity Conference and Exhibition, IT Hyderabad, India 2. 2022 2th The Integrity Conference and Exhibition, IT Hyderabad, India 3. 2022 2th Indian Integrity Conference and Exhibition, IT Hyderabad, India 3. 2022 2th Indian Integrity Conference and Exhibition, IT Hyderabad, India 3. 2022 2th Indian Integrity Conference and Exhibition, IT Hyderabad, India 4. 2022 2th Indian Integrity Conference and Exhibition, Portugal 3. 2022 2th Indian Integrity Conference on Wave Mechanics and Vibrations (WMVC 2022), 4-6 July 2022, Lisbon, Portugal 3. 2022 2th Indian Integrity Conference on Wave Mechanics and Vibrations (WMVC 2022) - 4-6 July 2022, Lisbon, Portugal 3. 2022 3. 2021 2th Indian Georetence on Structural Engineering and Construction Management "SECON '22, 01-03, June 2022, Federal Institute of Science and Technology, Kerala, India 4. 2022 3. 2021 2th Indian Geotechnical and Geoenvironmental Engineering Conference, NIT Jalandhar, November 19-20, 2021 3rd International Conference on Structural Engineering Conference, NIT Jalandhar, November 19-20, 2021 3rd International Conference on Structural Engineering Conference, NIT Jalandhar, November 19-20, 2021 3rd International Conference on Structural Engineering Conference, NIT Jalandhar, November 19-20, 2021 3rd International Conference on Structural Engineering Conference, NIT Jalandhar, November 19-20, 2021 3rd International Conference on Structural Engineering Conference					
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IIT Hyderabad, India			Impact factor for Railway Bridges: A Review		
Steel Beams under Two-Point Static Load   K Senthil, Mandeepak Singh, H S Chore, Evaluation of Load Carrying Capacity of Curved Concrete Beams under Two-Point Static Load,   K Senthil, Mandeepak Singh, H S Chore, Evaluation of Load Carrying Capacity of Curved Concrete Beams under Two-Point Static Load,   Ankush Thakur, K Senthil and A. P. Singh, Response of Clay Brick Masonry Walls Against Multi Hit Impact Loading   K Senthil, Rachit Sharma, Evaluation of Accuracy of Capacity of Capacity of Clay Brick Masonry Walls Against Multi Hit Impact Loading   K Senthil, Rachit Sharma, Evaluation of Accuracy of Concrete Damage Plasticity model   Mulayam Singh, K. Senthil, Shailja Bawa, Response of underground tunnel against seismic loading   Mulayam Singh, K. Senthil, Shailja Bawa, Response of underground tunnel against seismic loading   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole   Mulayam Singh, K. Senthil, Shailja Bawa, Ankush Thakur, Evaluation of Sensitive	2022	4th ?Structural Integrity Conference and Exhibition,	Mandeepak Singh, K Senthil, H S Chore, Comparison		
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	(SCOPUS Indexed)	
2021	International (online) Conference on Recent	K. Senthil, Neetu Singh, Response of Monolithic and
	Development on Materials, Reliability, Safety and	Laminated Toughened Glass against Spherical
	Environmental Issues, NIT Jalandhar, June 25-27	Impactor
	(SCOPUS Indexed)	
2021	International (online) Conference on Recent	K. Senthil, M. Sethi, Keshav Saini, L. Pelecanos,
	Development on Materials, Reliability, Safety and	Influence of Burial Depth on Underground Tunnels
	Environmental Issues, NIT Jalandhar, June 25-27	against Internal Blast Loading
	(SCOPUS Indexed)	
2021	International Conference on Advances in Construction	Shubham Kumar, S. Rupali, K. Senthil, Iwansh
	Technology and Management, 11th – 12th March	Gupta, Investigation of Vibration Generated Due to
	2021 (SCOPUS Indexed)	Movement of Underground Metro Train: A Review
2021	International Conference on Recent Advances in Civil	Neetu Singh, K. Senthil, Review on the influence of
	Engineering 17-19 September 2021, NIT Silchar	thickness and layer on the monolithic and laminated
	(SCOPUS Indexed)	toughened glass
2021	International Conference on Recent Advances in Civil	K. Senthil, S. Rupali, R. Sharma, A. Sharma, Natraj
	Engineering 17-19 September 2021, NIT Silchar,	Singh, Evaluation of Deformation in Ti-6Al-4V and
	(SCOPUS Indexed)	Al2024-T3 Plate against Lead Projectiles
2021	The International Conference on Futuristic	Divyansh Tiwari, K. Senthil, Stability of elevated
_0_1	Technologies, IIT Delhi, 22-24, January 2021	retaining structures under seismic loading
2020	Conference Proceedings, Materials Today	A. Thakur, K. Senthil, Rachit Sharma, A. P. Singh,
2020	Proceedings (SCOPUS Indexed), NITTTR	Employment of Crumb Rubber Tyre in Lightweight
	Chandigarh	Masonry Bricks
2020	International Conference on Recent advances in	K. Senthil, G.S. Chauhan, S. Rupali, K. Pravesh,
2020	computational and experimental mechanics, Sep 4-6,	Prediction of Resistance of Layered Toughened Glass
	2020, IIT Kharagpur, India (SCOPUS Indexed)	under Low Velocity Impact
2020	International Conference on Recent advances in	K. Senthil, A Thakur, AP Singh, Multihit impact
2020	computational and experimental mechanics, Sep 4-6,	resistance of masonry walls under large mass
	2020,IIT Kharagpur, India (SCOPUS Indexed)	resistance of masoning wans under large mass
2020	Conference Proceedings, Material Science and	K. Senthil, Ziyad Kubba, R. Sharma, A. Thakur,
2020	Engineering, (IOP Publishers – SCOPUS, Q4	Experimental and Numerical Investigation on
	Journal), Al-Muthanna University, Samawa, Iraq	Reinforced Concrete Slab under Low Velocity Impact
	Journar), Ar-Muthainia Oniversity, Saniawa, Iraq	ļ
2019	International Conference on Evnewimentation and	Loading  K Santhil Iwansh Gunta S Bunali I Palacanas A
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, 15-16th November 2019, LPU	elements and systems
2010	Phagwara, India	W.O. ATIMA III INW.O C.
2019	IMPLAST 2019, 29 September – 03 October 2019,	K. Senthil, M.A. Iqbal, N.K. Gupta, Comparison of
	Busan, South Korea	Ballistic Resistance of Armox 500T Steel and
		7075-T651 Aluminium Plate against 12.7 API
2010	TANAL CONTROL OF THE PROPERTY	Projectiles
2019	UKIERI Concrete Congress, 5-8, March 2019, NIT	K. Senthil, Harsh Kumar, Shailja Bawa, Studies on
	Jalandhar, India	mechanical properties of geopolymer concrete using
		recycled concrete aggregate
2019	UKIERI Concrete Congress, 5-8, March 2019, NIT	K. Senthil, D. Singh, P.C. Emmanuel, Influence of
	Jalandhar, India	basalt fiber and recycled concrete aggregate on
		self-compacting concrete against mechanical and
		durability tests

2010		A D . A THE L G D . 11 TO G . 12 TO G
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	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	International Conference on Materials Science and	A. Tanzeem, K. Senthil, Shailja Bawa, Response of
	Engineering, 11-12 June 2019, NIT Jalandhar, India	reinforced concrete column with steel and FRP jackets
		under uniaxial loading
2018	Material Science and Engineering, Vol. 330	K. Senthil, S. Muthukumar, S. Rupali, K.S.
	(SCOPUS Indexed)	Satyanarayanan, Effect of various interface
		thicknesses on the behavior of infilled frame subjected
		to lateral load
2018	International Conference on Advances in Construction	K. Senthil, M.A. Iqbal, V. Bhardwaj, N.K. Gupta,
2010	Materials and Structures, March 7-8, 2018, IIT	Estimation of impact strength of 7075-T651
	Roorkee, India	aluminium plate against steel penetrator
2018	2nd International Conference on Advances in	K. Senthil, S. Rupali, M.A. Iqbal, Impact strength of
2016		
	Mechanical Engineering, March 22-24, 2018, SRM	mild steel plates against flat nose impactor of large
2010	University, india	masses
2018	International Conference on Theoretical and	K. Senthil, S. Rupali, H.S. Bhatti, A.P. Singh,
	Experimental Advances in Civil Engineering, May	Numerical studies on the behaviour of highway
	10-12, 2018, SRM University, India	metallic lamp post under light vehicles impact
2018	International Conference on Theoretical and	K. Senthil, S. Rupali, A.P. Singh, Numerical
	Experimental Advances in Civil Engineering, May	investigations on the behaviour of reinforced concrete
	10-12, 2018, SRM University, India	building against blast loading
2018	46th International Summer School-Conference	K. Senthil, M.A. Iqbal, N.K. Gupta, Impact strength
	"Advanced Problems in Mechanics, 25-30 June 2018,	of mild steel and Armox 500T steel
	Saint Petersburg Polytechnic University, Saint	
	Petersburg, Russia	
2018	Proceedings on the 11th Structural Engineering	K Senthil, KB Gurneet, S Rupali, L Pelecanos,
	Convention, 19-21 December 2018, Jadavpur	Computation of impact resistance of 5083-H116
	University, India	aluminum structures by conical impactor
2018	Proceedings on the International Conference On	K Senthil, S Rupali, M A Iqbal, A Thakur, A P Singh,
	Structural Integrity, 14-17 December 2018, IIT	Influence of Curvature Ratio on Perforation of 2024
	Madras, India (SCOPUS Indexed)	Aluminium by Conical Impactor
2018	Proceedings on the National Conference of Advanced	K. Senthil, A. Thakur, A.P Singh, Response of Mild
2010	Structures, Materials and Methodology in Civil	Steel and Reinforced Concrete Plate against Falling
	Engineering, 3-4 November 2018, NIT Jalandhar,	Impact of Large Masses
	India	impact of Large Wasses
2018	Proceedings on the National Conference of Advanced	A. Singhal, K. Senthil, B. Shailja, Influence of
2010		
	Structures, Materials and Methodology in Civil	boundary condition and mass of TNT on the
	Engineering, 3-4 November 2018, NIT Jalandhar,	behaviour of concrete slab under blast loading
2010	India	W. 1 D.1. K.0 43 L.4 4 4.0 D. 3.5
2018	Proceedings on the National Conference of Advanced	Vipasha Rishi, K Senthil, Jatin Anand, S. Rupali, B.
	Structures, Materials and Methodology in Civil	Shailja, Influence of lime and chicken mesh on
	Engineering, 3-4 November 2018, NIT Jalandhar	compaction properties of soil
2018	Proceedings on the National Conference of Advanced	S Rupali, R Arvind, I Bhat, K Senthil, AK Agnihotri,
	Structures, Materials and Methodology in Civil	Influence of vibrations by rolling stock metro rail on
	Engineering, 3-4 November 2018, NIT Jalandhar	pile-soil interaction
2018	Proceedings on the National Conference of Advanced	K Senthil, B Shailja, A Rana, JK Saurabh, A
	Structures, Materials and Methodology in Civil	Tanzeem, Study on influence of thickness and span
	7	

2017	Conference Proceedings, Procedia Engineering, Vol.	K. Senthil, B. Arindam, M.A. Iqbal, N.K. Gupta,
	173, pp. 363-368 (SCOPUS Indexed)	Ballistic response of 2024 aluminium plates against
		blunt nose projectiles
2017	Conference Proceedings, Procedia Engineering, Vol.	K. Senthil, M.A. Iqbal, P. Bhargava, N.K. Gupta,
	173, pp. 369 – 374 (SCOPUS Indexed)	Experimental and numerical studies on mild steel
	(4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	plates against 7.62 API projectiles
2017	Conference Proceedings, Procedia Engineering, Vol.	K. Senthil, B. Arindam, R. Mittal, M.A. Iqbal, N.K.
	173, pp. 1926-1931 (SCOPUS Indexed)	Gupta, Numerical investigations on the impact of
	173, pp. 1720 1731 (Beel of Macked)	hemi spherically tipped projectiles on thin plates
2017	8th International Conference on Structural	K. Senthil, S. Rupali, M.A. Iqbal, Finite element
2017	Engineering and Construction Management,	studies on metal plates against oblique impact of
	University of Peradeniya, Peradeniya, Kandy, Sri	cylindro-conical projectiles
	Lanka, December 7-9, 2017, pp. 54-60	cymidio-comeai projectnes
2017	International Conference on Sustainable Civil	K. Senthil, S. Rupali, M.A. Iqbal, Performance of
2017	Engineering Practices, March 2-3, 2017, Organized by	
		retaining walls with various configurations against
2017	NITTTR, PEC and Chitkara University, Chandigarh	lateral earth pressure
2017	3rd International Conference on Advances In Steel,	K. Senthil, S. Rupali, S. Pradhan, Modelling and
	Power And Construction Technology, March 17-19,	simulations on steel bridges against wheel loading
	2017, Organized by OP Jindal University, Raigarh,	
	Chhattisgarh	
2017	3rd Indian Conference on Applied Mechanics, July	K. Senthil, M.A. Iqbal, N.K. Gupta, Flow and fracture
	5-7, 2017, MNNIT, Allahabad, pp. 111-112	behavior of mild steel and armox 500T steel
2017	32nd Indian Engineering Congress, December 21-23,	K. Senthil, S. Rupali, M.A. Iqbal, K.S.
	2017, The Institutions of Engineers, Chennai	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, August 3-6, 2016, IIT Roorkee, Roorkee	
2016	10th Structural Engineering Convention, December	K. Senthil, K.S. Satyanarayanan, S. Rupali, Behavior
	21-23, 2016, IIT Madras and CSIR-SERC, Chennai,	of fibrous reinforced concrete systems subjected to
	pp. 1566-1571	monotonic and cyclic loading
2015	3rd International Conference on Protective Structures,	K. Senthil, M.A. Iqbal, D. Bhattacharjee, P. Bhargava,
	University of Newcastle, Australia, pp 501-505	N.K. Gupta, Ballistic resistance of Armox 500T steel
	, , , , , , , , , , , , , , , , , , , ,	plates against 7.62 API projectiles
2014	4th International Conference on Impact Loading of	K. Senthil, M.A. Iqbal, N.K. Gupta, Thin metallic
	light Weight Structures, The Victoria and Alfred	plates subjected to projectile impact
	Waterfront, Cape Town, South Africa	Projection in pact
2014	4th International Conference on Impact Loading of	S.H. Khan, M.A Iqbal, K. Senthil, R. Ansari, N.K.
2011	light Weight Structures, The Victoria and Alfred	Gupta, Ballistic response of 1100-H14 thin aluminum
	Waterfront, Cape Town, South Africa	plates against blunt and conical nose projectiles
2013	4th Indo-Russian Workshop on "Topical problems in	M.A. Iqbal, K. Senthil, V. Madhu, N.K. Gupta,
2013		Material characterization and ballistic evaluation of
	Theoretical and Applied Mechanics", November	
1	11-15, 2013, IIT Madras, Chennai, pp. 210-219	mild steel

# **Book/Chapter Publications:**

Type	Title	Publisher	Authors	ISBN/ISS	Year
				N No.	

Chapter	Composite Materials: High Strain Rate;	CRC Press,	K Senthil,		2023
•	Transient Dynamic Response of Clay	Taylor & Francis	Ankush Thakur,		
	Brick Masonry Walls of Varying Aspect	Group	S Rupali, A P		
	Ratio against Low Velocity Impact Load		Singh, M A		
	Composite Materials: High Strain Rate		Iqbal,		
	Studies				
Chapter	Prediction of damage intensity of	CRC Press,	K Senthil, L	978042932	2021
	reinforced concrete tunnels and soil	Taylor & Francis	Pelecanos, S	1559	
	against blast loading, Geotechnical		Rupali		
	Aspects of Underground Construction in				
	Soft Ground				
Chapter	Simplified modelling of the transient	CRC Press,	L Pelecanos, K	978042932	2021
	response of underground structures due to	Taylor & Francis	Senthil, S Rupali	1559	
	dynamic loads generated from				
	underground tunnels, Geotechnical				
	Aspects of Underground Construction in				
	Soft Ground				
Chapter	Recent Advances in Computational and	Springer	K. Senthil, G.S.	981166489	2021
	Experimental Mechanics II		Chauhan, S.	7	
			Rupali, K.		
			Pravesh		
Chapter	Recent Advances in Computational and	Springer	K. Senthil, A	981166737	2021
	Experimental Mechanics, Vol—I		Thakur, AP	3	
			Singh,		
Book	Numerical studies on safeguarding of	Springer Nature,	K. Senthil, A.	978-3-030-	2020
Chapter	cantilever retaining structures by	Lecture Notes in	Thakur, A.P	51354-2	
	sustainable backfilling materials	Civil Engineering			
Book	Influence of Curvature Ratio on	Springer Lecture	K Senthil, S	978-981-1	2020
Chapter	Perforation of 2024 Aluminium by	Notes in	Rupali, M A	3-8767-8	
	Conical Impactor	Mechanical	Iqbal, A Thakur,		
		Engineering	A P Singh		
Book	Mechanical and durability properties of	Springer Nature,	Singh Davinder,	978-981-1	2019
Chapter	recycled aggregate self-compacting	Lecture Notes in	K Senthil, PC	3-7017-5	
	concrete along with basalt fibers	Civil Engineering		.=	2010
Book	Compression and shear resistance of	Springer Nature,	K Senthil, Singh	978-981-1	2019
Chapter	self-compacting concrete with arch-type	Lecture Notes in	Davinder, Singh	3-7017-5	
D 1	steel and polypropylene fibres	Civil Engineering		070.02.75	2010
Book	Advanced Structures, Materials and	ASMMCE 2018,	K. Senthil, Rajiv	978-93-53	2018
	Methodology in Civil Engineering,	NIT Jalandhar	Kumar, S.	21-892-8	
	https://www.nitj.ac.in/index.php/nitj_cinf		Rupali, Amit		
	o/pages/152		Kumar		

# **Research Projects:**

Role	Project	Title	Funding	From	То	Amount	Status	Co-Investi
	Type		Agency					gator

Investigator	Sponsored	Safeguarding	The Royal	09-11-2018	08-11-2021	Rs. 12.40	Complete	Dr Loizos
	Project -	civil	Society, UK			Lakhs	d	Pelecanos,
	International	underground				(12000 £)		University
	Project	tunnels						of Bath,
		against						UK
		terrorist blast						
		and explosion						
		shocks						
Investigator	Seed Grant -	Studies on	Dr B R	03-12-2018	02-12-2019	Rs. 2.71	Complete	Dr. S.
	National	Titanium	Ambedkar			Lakhs	d	Rupali,
	Project	Alloy Plates	NIT					NIT
		Subjected to	Jalandhar					Jalandhar
		Quasi-Static						
		Punching and						
		Bending						
		under						
		Ambient and						
		Cryogenic						
		Conditions						
Co-Investig	Sponsored	Quasi-static	Department	15-01-2020	14-01-2023	Rs 26.6	On-going	Prof. M.A.
ator	Project -	and dynamic	of Science			Lakhs		Iqbal,IIT
	International	strength of	and					Roorkee
	Project	ultrahigh	Technology					and Prof.
		performance	– Russian					Nikita F.
		concrete	Foundation					Morozov,
			for Basic					Saint
			Research					Petersburg
			(DST-RFBR					State
			)					University,
								Russia

# **Events Organized:**

Category	Type	Title	Venue	From	То	Designation
One Day	National	"Current Trends and	Department of Civil	05-05-18	05-05-18	Co-ordinato
Workshop		Innovations in the	Engineering, NIT			r
Sponsored		Industry – Metro	Jalandhar			
by TEQIP -		Construction and				
III		Underground Tunnels"				
		under				
		Industry-Institute-Intera				
		ction program				
One Day	National	"Project Management	Department of Civil	25-08-18	25-08-18	Co-ordinato
Workshop		and Methodology -	Engineering, NIT			r
Sponsored		Maintenance and	Jalandhar			
by TEQIP -		Vigilance Awareness"				
III		under				
		Industry-Institute-Intera				
		ction program				

Two Days	National	Advanced Structures,	Department of Civil	03-11-18	04-11-18	Organizing
National		Materials and	Engineering, Dr.			Secretary
Conference		Methodology in Civil	BR Ambedkar NIT			
Sponsored		Engineering	Jalandhar, Jalandhar			
by TEQIP -						
III						
One Day	National	"Application of	Department of Civil	18-08-18	18-08-18	Co-ordinato
Seminar		Commercial Software's	Engineering, Dr.			r
Sponsored		in Civil Engineering"	BR Ambedkar			
by CAD			National institute of			
DESK,			Technology			
Jalandhar.			Jalandhar			
One Day	National	"Advances in Designing	_	21-09-18	21-09-18	Co-ordinato
Seminar		of Civil and	Engineering, Dr.			r
Sponsored		Environmental Sytems	BR Ambedkar			
by CAD		through Commercial	National institute of			
CENTER,		Software's"	Technology			
Jalandhar.			Jalandhar			
One Day	National	"Advances in	Department of Civil	13-04-19	13-04-19	Co-ordinato
Workshop		Construction Industry –	Engineering, NIT			r
Sponsored		Metro Rails, Powers	Jalandhar			
by TEQIP -		Plants and Stadium"				
III		under				
		Industry-Institute-Intera				
		ction program				
One Week	National	Computational	Department of Civil	09-07-19	13-07-19	Convener
Short Term		Modelling:	Engineering, NIT			
Course		Applications in	Jalandhar			
Sponsored		Structural and				
by DST		Geo-mechanics				
(SERB)		Problems				
One Day	National	"Applications of	Department of Civil	07-11-19	07-11-19	Co-ordinato
Workshop		Advanced	Engineering, NIT			r
Sponsored		Computational	Jalandhar			
by TEQIP -		Mechanics in Nuclear				
III		Structure" under				
		Industry-Institute-Intera				
		ction program				
Webinar	National	Industry - Institute -	Department of Civil	22-08-20	05-12-20	Co-ordinato
Series, 16		Interaction and Training	Engineering, NIT			r
weeks,			Jalandhar			
Managing						
by						
Registration						
fee						
Two days	International	Indian Geotechnical and	NIT Jalandhar	19-11-21	20-11-21	Joint
Conference		Geoenvironmental				Organizing
		Engineering Conference				Secretary

10th	International	Three days	Department of Civil	04-06-22	06-06-22	Organizer
International		Mini-Symposium on	Engineering of the			
Conference		"AIM: Advances in	NOVA School of			
on Wave		impact mechanics and	Science and			
Mechanics		computational	Technology of the			
and		sciences",	NOVA University			
Vibrations			of Lisbon and			
(WMVC			Institute of			
2022)			Mechanical			
			Engineering of the			
			Instituto Superior			
			Técnico of the			
			University of			
			Lisbon, Portugal			
One day	National	Case Studies on	Department of Civil	29-06-22	29-06-22	Coordinator
webinar		Settlement of Building	Engineering, NIT			
		Foundation and	Jalandhar			
		Retrofitting				
One day	National	Handling of Contract in	Department of Civil	01-07-22	01-07-22	Coordinator
webinar		Private Sector	Engineering, NIT			
			Jalandhar			
One day	International	Automatic Damage	Department of Civil	20-10-2022	20-10-2022	Coordinator
webinar		detection using	Engineering, NIT			
		Artificial Intelligence	Jalandhar			
		and SMART				
		Monitoring for				
		Geotechnical structures				
One day	International	Modern Monitoring and	Department of Civil	09-12-22	09-12-22	Coordinator
webinar		Analysis of Piles,	Engineering, NIT			
		Geothermal Energy	Jalandhar			
		Piles and Offshore				
		Wind Turbines				

## **Professional Affiliations:**

Designation	Organization
Life Member	Indian Concrete Institute (India) (LM11996)
Life Member	Institution of Engineers (India) MIE (LM157317-3)
Life Member	Indian Geotechnical Society (New Delhi) (LM3890)
Life Member	Indian Association for Structural Engineering (IIT Bombay) (LM163)
Life Member	Indian Society of Earthquake Technology (IIT Roorkee)(LM1569)
Life Member	Indian Society for Construction Materials and Structures (IIT Roorkee) (LM2012003)
Life Member	International Association of Engineers (Hongkong) (228961)
Life Member	Indian Association of Computational Mechanics (Mumbai) (LM209)
Affiliated Member	American Society of Civil Engineers (USA) (11969227)

## PhD Supervised:

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Ankur Tyagi	Yet to be decided	On-going	2023	-
Mandeepak	Response of Reinforced Concrete Curved Beams	On-going	2021	Dr. H, S. Chore,
Singh	under Static and Impact Loading			Associate Professor,
				NIT Jalandhar

Malla Karthik	Yet to be decided	On-going	2021	Dr. S. Rupali, Assistant
Kumar				Professor, NIT
				Jalandhar
Kavitha Rani	Response of Rigid Pavement using Waste	On-going	2020	-
	Materials under Static and Impact Loading			
Ankur Sharma	Experimental and Numerical Studies for	On-going	2020	
	Performance Evaluation of Railway Bridges			
	against Moving Load			
Rachit Sharma	Response of Normal and High Strength	On-going	2019	-
	Reinforced Concrete Slabs against Impact			
	Loading			
Manish Khanna	Response of Fibrous High Strength Reinforced	On-going	2019	-
	Concrete Beams with Agro Waste under Impact			
	Loading			
Ankush Thakur	Response of modified Concrete Brick Walls	Completed	2018	Prof. A.P. Singh,
	against Large mass and Low Velocity Impact	and		Professor, NIT
	Loading	Awarded		Jalandhar
		on 13		
		December		
		2022		

## **PG Dissertation Guided:**

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Tharun Bhargava	Response of PSC deck slab under Impact loading	On-going	2023	
Atul	Response of RCC deck slab under repeated	On-going	2023	
	impact loading			
Mohd zulqarnain	Behaviour of fibrous reinforced concrete beams	On-going	2023	
	against impact loading			
Saurabh Prajapati	Behavior of Reinforced curved beam under	On-going	2023	
	impact loading			
Pranshul	Response of Reinforced concrete curved beam	On-going	2023	
Bijalwan	under static loading			
Anjali K	Yet to be decided	On-going	2023	
Divyansh Tiwari	Evaluation of dynamic factor for the bridges	Completed	2022	
	under impact loading			
Uddeshya Mishra	Study on the mechanical properties of concrete	Completed	2022	
	with steel slag			
Manish Kumar	Study on the shear properties of high strength	Completed	2022	
	concrete			
Suresh Jhakkar	Performance of reinforced concrete beams with	Completed	2022	
	waste materials under static and dynamic loading			
Mulayam Singh	Response of underground tunnels under seismic	Completed	2022	Dr. Shailja Bawa
	loading			
Nikhil Kumar	Evaluation of manhole with larger depth under	Completed	2022	Dr Shailja Bawa
Yadav	seismic loading			
Muskaan Sethi	Comprehensive Numerical Investigation on the	Completed	2021	
	Behavior of Underground Tunnels against Blast			
	Loading			
Neetu Singh	RESPONSE OF MONOLITHIC AND	Completed	2021	
	LAMINATED TOUGHENED GLASS			
	AGAINST HEAVY MASS IMPACTOR			

Vasahan Caini	Decrease of Deinfound Company III demand	Camanlatad	2021	
Kesshav Saini	Response of Reinforced Concrete Underground	Completed	2021	
	Tunnels Against Impact Loading of Varying			
	Drop Height		2021	
Ravi Paryani	Response Of Under Shear Reinforced Concrete	Completed	2021	
	Beams Against Low Velocity Impact And Static			
	Loading			
Gagandeep Singh	Laboratory study of asphalt concrete pavement by	Completed	2021	Dr. Rajiv Kumar
	using low density polyethylene with sasobit			
wansh Gupta	Experimental and numerical studies on the	Completed	2020	Dr. S. Rupali
	resilience capacity of the underground tunnels			
	against free falling impact loading			
Bhanvar Chand	Experimental and numerical investigations on the	Completed	2020	Dr. S. Rupali
Meena	tmpact resistance of grade-5 titanium alloy			
	against low velocity impact			
Pravesh K	Experimental and numerical analysis on	Completed	2020	Dr. S. Rupali
	thermally toughened glass against low velocity			
	impact			
Gaurav Singh	Experimental and numerical studies on layered	Completed	2020	Dr. S. Rupali
Chauhan	toughened glass against low velocity impact			
Γanzeem Ahmed	Numerical studies on the response of RCC	Completed	2019	Mrs. Shailja Bawa
	Column with jacketing subjected to uniaxial and			
	seismic loading			
Ajay Pratap	Studies on flyash and concrete brick masonry	Completed	2019	Dr. S. Rupali
	infilled reinforced concrete frame against			
	static-cyclic loading			
Ivojit Singh	Influence of Arch-type steel and polypropylene	Completed	2018	Dr. Davinder Singh
	fibres on the properties of self-compacting			
	concrete			
Harsh Kumar	A study on mechanical properties of flyash based	Completed	2018	Mrs. Shailja Bawa
	geopolymer concrete using recycled concrete			
	aggregates			
Vipasha Rishi	Influence of lime and chicken mesh on	Completed	2018	Mrs. Shailja Bawa
	compaction and strength properties of soil	_		
Emmanuel P.C	Influence of basalt fibre on shear resistance of	Completed	2018	Dr. Davinder Singh
	plain concrete with coal bottom ash and fly ash			
Rohit Kumar	Numerical studies on FRP-Reinforced concrete	Completed	2018	Mrs. Shailja Bawa
Sakaiya	deep beam against static and cyclic loading	_		
Sachin Suri	Finite element studies on concrete filled steel	Completed	2018	Mrs. Shailja Bawa
	tubular column against axial loading	•		, and the second
Mohit Kumar	Computation of impact strength of 6082-T4	Completed	2018	
Singh	aluminium plates by hard and soft penetrator			
Gurneet Kaur	Estimation of impact resistance of 5082-H116	Completed	2018	
Bhatia	aluminium plates under conical nose impactor			
Ankita Gupta	Response of deep beam with ducts against static	Completed	2017	Prof. S.P. Singh
1	monotonic and cyclic loading using ABAQUS	_		
Akhil Singhal	Behavior of reinforced concrete slab subjected to	Completed	2017	Mrs. Shailja Bawa
· 6	blast loading	F		<b>y</b> =
Abhishek Rana	Numerical studies on reinforced concrete flat slab	Completed	2017	Mrs. Shailja Bawa
	against progressive collapse and static loading			
Anubav	Finite element studies on shear resistance of	Completed	2017	Mrs. Shailja Bawa
	reinforced concrete beam subjected to monotonic	Completed		inio. Similya Bana
	loading			
	loading	<u> </u>	L	

Aswin C.P.	Numerical study on bond behavior between	Completed	2017	Mrs. Shailja Bawa
	deformed reinforcing steel bar and concrete			

## Patents:

Name	Reg./Ref. No.	Date of	Organization	Status
	227700 004	Award/Filling	)	
K. Senthil, A. Thakur, A P Singh,	337580-001	02-08-2021	NIT Jalandhar	Awarded,
Swinging Impact Testing Frame for				33/2021
the Measurement of Response of				
Structural Elements				
K. Senthil, Rachit Sharma, S. P	337578-001	09-07-2021	NIT Jalandhar	Awarded,
Singh, Impact Testing Frame				28/2021
K. Senthil, S. Rupali, Ilyas Ahmed	337579-001	16-07-2021	NIT Jalandhar	Awarded,
Bhat, A.K. Agnihotri, Variable Head				29/2021
Free Falling Impact Testing Machine				
S. Rupali, V.A. Sawant, K. Senthil	1052/2021-CO/SW	08-03-2021	NIT Jalandhar	Awarded,
Estimation of Contaminant	(Copyright)			SW-14252/2021
Transport through Fractured Porous				
Media using Element Free Garlekin				
Method				
S. Rupali, K. Senthil, Ilyas Bhat,	345760-001	19-08-2021	NIT Jalandhar	Awarded,
Ankush Dogra, Soil Sample				34/2021
Extruder				
K. Senthil, S. Rupali, Anush Dogra,	345811-001	19-08-2021	NIT Jalandhar	Awarded,
Ankush Thakur, Device to simulate				34/2021
and measure the earthquake response				
of small scale buildings				
K. Senthil, Rachit Sharma, Manish	349971-001	22-09-2021	NIT Jalandhar	Awarded,
Khanna, Kavita Rani, Apparatus to				46/2021
Measure the Shear Strength of				
Concrete				
K Senthil, Talwinder Singh, Manav	364414-001	19-05-2022	NIT Jalandhar	Under Process
Yadav, Rachit Sharma, S Rupali,				
Device to Measure the Acceleration				
and vibration in Small-scale				
Building				
K. Senthil, M. Yadav, T. Singh, R.	10211/2022-CO/SW	17-05-2022	NIT Jalandhar	Granted
Sharma, A. Sharma, R. K Sunkaria,	(Copyright)	17 00 2022	1,11 0 0101101101	
Program to Measure the	(Copyright)			
Acceleration Response fromFour				
Accelerometers Simultaneously in				
Small-scaleBuilding				
Hemant S Chore, Bhupati Kannur, K	202211070533A	17-12-2022	NIT Jalandhar	Published
Senthil, A Composition of	20221107033311	17 12 2022	Till Janananan	dombiled
Self-Consolidating Concrete and				
Industrial Waste Sugarcane Bagasse				
Ash for Construction of Road				
A ch for Concinication of Posa				

# Admin. Responsiblities:

Position Held	Organization	From	To
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Coordinator, CAD Laboratory	Department of Civil Engineering, Dr BR	04-01-2018	Till date
	Ambedkar NIT Jalandhar		
Coordinator, Computation	Department of Civil Engineering, Dr BR	18-01-2021	Till date
Laboratory	Ambedkar NIT Jalandhar		
Co-Coordinator, M. Tech	Department of Civil Engineering, Dr BR	04-01-2018	Till date
(Structural and Construction	Ambedkar NIT Jalandhar		
Engineering)			
Coordinator	Structural Analysis Laboratory	04-01-2018	Till date
Co-Coordinator, Technology	Technology Business Incubator-NITJ	01-05-21	30-04-22
Business Incubator-NITJ			
Co-Coordinator, SPAC	SPACE-ISRO, NIT Jalandhar	01-04-22	Till date
Technology Incubation Centre,			
Convener	Student Grievance Cell, NIT Jalandhar	01-06-22	Till date
Co-Chairman	Repair and Maintenance, NIT Jalandhar	01-06-22	Till date
Co-Coordinator	Impact Testing Laboratory	01-05-21	Till date

## **Award and Honours:**

Title	Activity	Given by	Year
Best Poster Award	The International Conference on Futuristic Technologies, IIT Delhi, held on 23rd - 24th	IIT Delhi	2021
	January 2021		
Bharat Excellence Award	For the significant	Friendship Forum of India	2020
	Contribution in the year 2018-19		
Young Faculty in Civil Engineering	For Inspiring - Innovative - Path breaking research and teaching	Venus International Faculty Awards - VIFA 2019	2019
The Best Teacher Award	For the significant Contribution in the year 2018-19	Director, NIT Jalandhar	2019
Royal Society Yusuf Hamied International	International Exchanges	The Royal Society, UK	2018
Exchange Award			
Young Scientist	For presenting paper on "46th International Summer School-Conference "Advanced Problems in Mechanics", Russia (25 June, 2018 to 30 June, 2018)	International Travel Grant, SERB - DST	2018
Young Scientist in Civil Engineering	Extraordinary achievements and significant contributions in the field Civil Engineering	Venus International Research Awards – VIRA 2018	2018
Recipient of Gold Medal	First Rank at PG Program	Dr. M. Veerappa Moily, Minister of Law and Justice, November, 21st 2010, SRM University, Kattankulathur	2010