

Profile Page



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Research Interests :

Impact and Computational Mechanics;
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Other Profile Links :

Google Scholar Link :

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SCOPUS [Click Here](#)

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Journal Publications :

Year	Journal	Publication
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2023	Journal of Building Engineering, Vol. 69, March 2023. (SCI Indexed - Elsevier – IF – 7.14, Q1 Journal)	Rachit Sharma, K Senthil, An Investigation on Mechanical and Microstructural Properties of Hybrid Fiber Reinforced Concrete with Manufactured Sand and Recycled Coarse Aggregate
2023	Asian Journal of Civil Engineering, Vol. 24, Springer Publisher (SCOPUS Indexed, Q2 Journal)	Divyansh Tiwari, K. Senthil, Ankush Sharma, Evaluation of Force and Dynamic Factor on Reinforced Concrete Deck Slab through the Static and Transient Dynamic Tests
2023	International Journal of Impact Engineering, Elsevier Publisher (SCI Indexed, Elsevier – IF – 4.6, Q1 Journal)	K. Senthil, Ankush Thakur, A. P. Singh, M. A. Iqbal, N. K. Gupta, Transient Dynamic Response of Brick Masonry Walls under Low Velocity Repeated Impact Load
2023	Journal of Vibration Engineering & Technologies, Vol. 11. April 2023. (SCI Indexed – Springer Publisher – IF – 2.3, Q2 Journal)	K. Senthil, Rachit Sharma, Evaluation of Compressive and Tensile Stress-Strain Parameters of Concrete Damage Plasticity Model for concrete slabs under Impact load
2023	Journal of Vibration Engineering & Technologies, Vol. 11. April 2023. (SCI Indexed – Springer Publisher – IF – 2.3, Q2 Journal)	K. Senthil, L. Pelecanos, S. Rupali, R. Sharma, Manish Kumar, Experimental and numerical investigation on soft soil tunnels under impact loading condition
2023	International Journal of Impact Engineering, Elsevier Publisher (SCI Indexed, Elsevier – IF – 4.6, Q1 Journal)	K. Senthil, L. Pelecanos, S. Rupali, R. Sharma, K. Saini, M. A. Iqbal, N. K. Gupta, Experimental and Numerical Investigation of Transient Dynamic Response on Reinforced Concrete Tunnels against Repeated Impact Loads
2023	International Journal of Transportation Engineering and Traffic System. 2022; 8(2): 9–21, JournalsPub Publisher (ESCI)	K. Senthil, Ankur Tyagi. A Review: Efficient Protective Materials of Columns under Vehicle Collision Loading
2022	An International Journal, Asian Journal of Civil Engineering, Vol. 23, Springer Publisher (SCOPUS Indexed, Q2 Journal)	Ankush Thakur, K. Senthil, A.P Singh, Experimental Investigation on Crumb Rubber based Concrete Bricks along with Polypropylene and Steel Fibers
2022	An International Journal, Construction and Building Materials, November 2021. (SCI Indexed - Elsevier – IF – 6.14, Q1 Journal)	A. Thakur, K. Senthil, A.P. Singh, Evaluation of Concrete Bricks with Crumb Rubber and Polypropylene Fibers under Impact Loading
2022	International Journal of Protective Structures, Vol. 13. No. 1, January 2022. (SCOPUS Indexed – SAGE Publisher – IF – 0.60, Q2 Journal)	K. Senthil, M. Sethi, L. Pelecanos, N.K Gupta, Mitigation Strategies of Underground Tunnels against Blast Loading
2022	International Journal of Critical Infrastructures, Vol. 12, No. 3, June 2022. (SCOPUS Indexed - Inderscience Publisher – Q2 Journal)	K. Senthil, M. Sethi, L. Pelecanos, Techniques to safeguard the Underground Tunnels against Surface Blast load
2021	An International Journal, Vol. 29, 2106-2119, An International Journal, Structures, Elsevier Publisher (SCI Indexed, Q1 Journal)	K. Senthil, M.A. Iqbal, Prediction of superior target layer configuration of Armox 500T steel, mild steel and aluminium 7075-T651 alloy against 7.62 AP projectile

2021	Journal of Structural Engineering and Applied Mechanics, Vol. 4, Golden Light Publisher (ESCI)	K Senthil, Muskaan Sethi, L Pelecanos, A Review on the performance of the underground tunnels against blast loading
2021	International Journal of Structural Engineering, March 2021. (SCOPUS Indexed - Inderscience Publisher – IF – 2.01, Q2 Journal)	R. Sharma, K. Senthil, Reviewing on Influence of Waste Materials on Structural Concrete under Impact Loading
2021	International Journal of Structural Engineering and Analysis, Vol. 7, No. 2, pp. 1-14, JournalsPub Publisher (ESCI)	K Senthil, I Gupta, S Rupali, L Pelecanos, Reviewing on the Performance of Masonry, Reinforced Concrete and Underground tunnels against Blast Loading
2021	International Journal of Fuzzy Logic and Intelligent Systems, Vol. 21, No. 2, 177-188, 2021. (SCOPUS Indexed - Korean Institute of Intelligent Systems Publisher, Q2 Journal)	D. Sinha, S. Rupali, K. Senthil, Application of adaptive neuro fuzzy inference system for evaluating compressive strength of concrete
2021	International Journal of Protective Structures, Vol. 12. No. 3, June 2021. (SCOPUS Indexed – SAGE Publisher – IF – 0.60, Q2 Journal)	K. Senthil, R. Sharma, S. Rupali, A. Thakur, M. A. Iqbal, N. K. Gupta, Evaluation of Superior Layer Configuration of Titanium Ti-6Al-4V and Aluminium 2024-T3 against Soft Projectiles
2020	Journal of Structural Engineering and Applied Mechanics, Vol. 3, No. 4, 216-228. Golden Light Publisher (ESCI)	K Senthil, Iwansh Gupta, S Rupali, L Pelecanos, A review on the performance of reinforced concrete structures under blast loading
2020	Ecology, Environment and Conservation, Vol. 26, 300-304. (SCOPUS Indexed, Q4 Journal)	K. Senthil, S. Rupali, Ajay Pratap, A. Thakur, A. P. Singh, Behaviour of concrete brick and flyash brick on infilled frame under cyclic loading
2020	An International Journal, Structures, Vol. 27, 673-686, Elsevier Publisher (SCI Indexed, Q1 Journal)	A. Thakur, K. Senthil, A.P. Singh, M.A. Iqbal, Prediction of Dynamic Amplification Factor on Clay Brick Masonry Assemblage
2019	An International Journal, Coupled Systems Mechanics, Vol 8. No. 4, 315-338. Techno Press Publisher (SCOPUS Indexed, Q3 Journal)	K Senthil, Akhil Singhal, Shailja Bawa, Damage mechanism and stress response of reinforced concrete slab under blast loading
2019	International Journal of Protective Structures, Vol. 10, No. 2, 174-197, SAGE Publisher (SCOPUS Indexed, Q2 Journal)	K. Senthil, M.A. Iqbal, S. Rupali, Influence of Impactor Nature, Mass, Size and Shape on Ballistic Resistance of Mild Steel and ArmoX 500T Steel
2018	Journal of Materials and Engineering Structures, Vol. 5, No. 3, 137-151, Mouloud Mammeri University Publisher (ESCI)	K. Senthil, S. Rupali, Navjit Kaur, The performance of monolithic reinforced concrete structure includes slab, beam and column against blast load
2018	Journal of Materials and Engineering Structures, Vol. 5, No. 4, Mouloud Mammeri University Publisher (ESCI)	K. Senthil, S. Rupali, Crashworthiness of highway lamp post against vehicle impact
2018	Advances in Concrete Construction, Vol. 6, no 3, pp 245-268, Techno Press Publisher (SCI Indexed, Q2 Journal)	K. Senthil, A. Gupta, S.P. Singh, Computation of stress-deformation of deep beam with openings using finite element method

2018	Journal of Structural Engineering and Applied Mechanics, Vol. 1, No. 3, 105-116, Golden Light Publisher (ESCI)	K. Senthil, B. Shailja, C.P. Aswin, Influence of concrete strength and diameter of reinforcing bar on pullout tests using finite element analysis
2017	Thin-Walled Structures, Vol 126, May 2018, Pages 94-105, Elsevier Publisher (SCI Indexed, Q1 Journal)	K. Senthil, M.A. Iqbal, B. Arindam, R. Mittal, N.K. Gupta, Ballistic resistance of 2024 aluminium plates against hemispherical, sphere and blunt nose projectiles
2017	International Journal of Protective Structures, Vol. 8, No. 2, pp. 177-198, SAGE Publisher (SCOPUS Indexed, Q2 Journal)	K. Senthil, M.A. Iqbal, N.K. Gupta, Ballistic resistance of mild steel plates of various thicknesses against 7.62 AP projectiles
2017	International Journal of Structural Engineering and Analysis, Vol. 3, No. 1, pp. 1-14, JournalsPub Publisher (ESCI)	K. Senthil, R.A. Khan, S. Arvin, A. Singh, Structural behaviour of railway bridges against wheel loading by finite element analysis
2017	Journal of Coupled Systems and Multiscale Dynamics, Vol. 5, No. 1, pp. 38-50, American Scientific Publisher (ESCI)	K. Senthil, S. Rupali, K.S. Satyanarayanan, Experiments on ductile and non-ductile reinforced concrete frames under static and cyclic loading
2017	International Journal of Impact Engineering, Vol. 108, pp. 171-190, Elsevier Publisher (SCI Indexed, Q1 Journal)	K. Senthil, M.A. Iqbal, P.S. Chandel, N.K. Gupta, Study of the constitutive behavior of 7075-T651 aluminum alloy
2017	International Journal of Structural Engineering and Analysis, Vol. 3, No. 2, pp. 1-16, JournalsPub Publisher (ESCI)	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	International Journal of Impact Engineering, Vol. 110, pp. 26-38, Elsevier Publisher (SCI Indexed, Q1 Journal)	M.A. Iqbal, K. Senthil, V. Madhu, N.K. Gupta, Oblique impact on single, layered and spaced mild steel targets by 7.62 AP projectiles
2017	Structural Engineering and Mechanics, Vol. 64, No. 5, 543-555, Techno Press Publisher (SCI Indexed, Q1 Journal)	S. Muthukumar, K.S. Satyanarayanan, K. Senthil, Studies on two-bay and three storey infilled frame with different interface materials: Experimental and Finite element studies
2016	Journal, Indian Journal of Science and Technology, Vol. 9, No. S1, 1-6, December, 2016 (SCOPUS Indexed, Q4 Journal)	K. Senthil, B. Arindam, R. Mittal, M.A. Iqbal, Numerical investigations on impact of ogive nosed projectiles on thin plates
2016	Advances in Concrete Construction, Vol. 4, No. 1, pp. 37-47, Techno Press Publisher (SCI Indexed, Q2 Journal)	K. Senthil, K.S. Satyanarayanan, S. Rupali, Energy absorption of fibrous self-compacting reinforced concrete system
2016	Coupled Systems Mechanics, Vol. 5, No. 2, pp. 127-144, Techno Press Publisher (SCOPUS Indexed, Q3 Journal)	K. Senthil, K.S. Satyanarayanan, Influence of interface on the behavior of infilled frame subjected to lateral load using linear analysis
2016	International Journal of Impact Engineering, Vol. 96, pp. 146-164, Elsevier Publisher (SCI Indexed, Q1 Journal)	M.A. Iqbal, K. Senthil, P. Sharma, N.K. Gupta, An investigation of constitutive behavior of Armox 500T steel and armour piercing incendiary projectile material

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

Conference Publications :

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

2022	2nd International Conference on Materials, Mechanics and Structures (ICMMS 2022) National Institute of Technology Calicut, Kerala, India, 10th – 12th March, 2022	K Senthil, R Sharma, Evaluation of Reinforced Concrete Slab under Low Velocity Impact Load using Different Constitutive Models
2022	2nd International Conference on Materials, Mechanics and Structures (ICMMS 2022) National Institute of Technology Calicut, Kerala, India, 10th – 12th March, 2022	K Senthil, D Tewari, A Sharma, Natraj Singh, Influence of Parameters on the Prediction of Dynamic Impact factor for Railway Bridges: A Review
2022	4th ?Structural Integrity Conference and Exhibition, IIT Hyderabad, India	Mandeepak Singh, K Senthil, H S Chore, Comparison of Load Carrying Capacity of Curved Concrete and Steel Beams under Two-Point Static Load
2022	4th ?Structural Integrity Conference and Exhibition, IIT Hyderabad, India	K Senthil, Mandeepak Singh, H S Chore, Evaluation of Load Carrying Capacity of Curved Concrete Beams under Two-Point Static Load,
2022	10th International Conference on Wave Mechanics and Vibrations (WMVC 2022), 4-6 July 2022, Lisbon, Portugal	Ankush Thakur, K. Senthil and A. P. Singh, Response of Constitutive models on the Prediction of Behaviour of Clay Brick Masonry Walls Against Multi Hit Impact Loading
2022	10th International Conference on Wave Mechanics and Vibrations (WMVC 2022) - 4-6 July 2022, Lisbon, Portugal	K Senthil, Rachit Sharma, Evaluation of Accuracy of Compressive and Tensile Damage Parameters of Concrete Damage Plasticity model
2022	International Conference on Structural Engineering and Construction Management “SECON '22, 01-03, June 2022, Federal Institute of Science and Technology, Kerala, India	Mulayam Singh, K. Senthil, Shailja Bawa, Response of underground tunnel against seismic loading
2022	International Conference on Structural Engineering and Construction Management “SECON '22, 01-03, June 2022, Federal Institute of Science and Technology, Kerala, India	Nikhil K.Yadav, K. Senthil , Shailja Bawa, Ankush Thakur, Evaluation of Sensitive parameters in the design of deeper manhole
2021	Indian Geotechnical and Geoenvironmental Engineering Conference, NIT Jalandhar, November 19-20, 2021	Uddeshya Misra, K. Senthil, Kavita Rani, A Review on Applications of Steel Slag in Traditional and High Strength Concrete
2021	Indian Geotechnical and Geoenvironmental Engineering Conference, NIT Jalandhar, November 19-20, 2021	K. Senthil, Keshav Saini, Manish Kumar, Influence of Burial Depth of Soil on Reinforced Concrete Tunnel against the Impact and Blast Loading,
2021	3rd International Conference on Sustainable Environment Energy and Construction, Hindustan Institute of Technology and Science, Chennai, 16th & 17th December 2021.	K. Senthil, Suresh Jakhar, Manish Khanna, Kavita Rani, A review on the Application of Plastic Waste in the Reinforced Concrete Elements
2021	Virtual Seminar on Applied Mechanics (VSAM) 2021, 28-29 May 2021 (SCOPUS Indexed)	K Senthil, R Sharma, A Thakur, MA Iqbal, AP Singh, Investigation on impact characteristics of concrete under varying drop height of pendulum impact
2021	Conference Proceedings, Material Science and Engineering 1090, 012090 (SCOPUS Indexed)	K Senthil, Ziyad Kubba, R Sharma, A Thakur, Experimental and numerical investigation on reinforced concrete slab under low velocity impact loading
2021	International (online) Conference on Recent Development on Materials, Reliability, Safety and Environmental Issues, NIT Jalandhar, June 25-27, 2021 (SCOPUS Indexed)	K. Senthil, Ravi Paryani, Response of Reinforced Concrete Beams against Low Velocity Impact Loading

2021	International (online) Conference on Recent Development on Materials, Reliability, Safety and Environmental Issues, NIT Jalandhar, June 25-27 (SCOPUS Indexed)	K. Senthil, Keshav Saini, M. Sethi, Response of Underground Reinforced Concrete Tunnels against External Blast Loading
2021	International (online) Conference on Recent Development on Materials, Reliability, Safety and Environmental Issues, NIT Jalandhar, June 25-27 (SCOPUS Indexed)	K. Senthil, Neetu Singh, Response of Monolithic and Laminated Toughened Glass against Spherical Impactor
2021	International (online) Conference on Recent Development on Materials, Reliability, Safety and Environmental Issues, NIT Jalandhar, June 25-27 (SCOPUS Indexed)	K. Senthil, M. Sethi, Keshav Saini, L. Pelecanos, Influence of Burial Depth on Underground Tunnels against Internal Blast Loading
2021	International Conference on Advances in Construction Technology and Management, 11th – 12th March 2021 (SCOPUS Indexed)	Shubham Kumar, S. Rupali, K. Senthil, Iwansh Gupta, Investigation of Vibration Generated Due to Movement of Underground Metro Train: A Review
2021	International Conference on Recent Advances in Civil Engineering 17-19 September 2021, NIT Silchar (SCOPUS Indexed)	Neetu Singh, K. Senthil, Review on the influence of thickness and layer on the monolithic and laminated toughened glass
2021	International Conference on Recent Advances in Civil Engineering 17-19 September 2021, NIT Silchar, (SCOPUS Indexed)	K. Senthil, S. Rupali, R. Sharma, A. Sharma, Natraj Singh, Evaluation of Deformation in Ti-6Al-4V and Al2024-T3 Plate against Lead Projectiles
2021	The International Conference on Futuristic Technologies, IIT Delhi, 22-24, January 2021	Divyansh Tiwari, K. Senthil, Stability of elevated retaining structures under seismic loading
2020	Conference Proceedings, Materials Today Proceedings (SCOPUS Indexed), NITTTR Chandigarh	A. Thakur, K. Senthil, Rachit Sharma, A. P. Singh, Employment of Crumb Rubber Tyre in Lightweight Masonry Bricks
2020	International Conference on Recent advances in computational and experimental mechanics, Sep 4-6, 2020, IIT Kharagpur, India (SCOPUS Indexed)	K. Senthil, G.S. Chauhan, S. Rupali, K. Praveesh, Prediction of Resistance of Layered Toughened Glass under Low Velocity Impact
2020	International Conference on Recent advances in computational and experimental mechanics, Sep 4-6, 2020, IIT Kharagpur, India (SCOPUS Indexed)	K. Senthil, A Thakur, AP Singh, Multihit impact resistance of masonry walls under large mass
2020	Conference Proceedings, Material Science and Engineering, (IOP Publishers – SCOPUS, Q4 Journal), Al-Muthanna University, Samawa, Iraq	K. Senthil, Ziyad Kubba, R. Sharma, A. Thakur, Experimental and Numerical Investigation on Reinforced Concrete Slab under Low Velocity Impact Loading
2019	International Conference on Experimentation and Progression in Engineering, Research and Technology, 15-16th November 2019, LPU Phagwara, India	K. Senthil, Iwansh Gupta, S. Rupali, L. Pelecanos, A Review on influence of blast loading on structural elements and systems
2019	IMPLAST 2019, 29 September – 03 October 2019, Busan, South Korea	K. Senthil, M.A. Iqbal, N.K. Gupta, Comparison of Ballistic Resistance of Armox 500T Steel and 7075-T651 Aluminium Plate against 12.7 API Projectiles
2019	UKIERI Concrete Congress, 5-8, March 2019, NIT Jalandhar, India	K. Senthil, Harsh Kumar, Shailja Bawa, Studies on mechanical properties of geopolymer concrete using recycled concrete aggregate
2019	UKIERI Concrete Congress, 5-8, March 2019, NIT Jalandhar, India	K. Senthil, D. Singh, P.C. Emmanuel, Influence of basalt fiber and recycled concrete aggregate on self-compacting concrete against mechanical and durability tests

2019	7th International Congress on Computational Mechanics and Simulation, 11-13th December 2019, IIT Mandi, India	Ajay Pratap, A. Thakur, S. Rupali, K. Senthil, Failure mechanisms along with constitutive behaviour and damage in concrete bricks and infilled frames
2019	7th International Congress on Computational Mechanics and Simulation, 11-13th December 2019, IIT Mandi, India	K. Senthil S. Rupali, Cryogenic Conditions on Ti-6Al-4V Plate under sharp nose hard steel projectiles
2019	International Conference on Materials Science and Engineering, 11-12 June 2019, NIT Jalandhar, India	A. Tanzeem, K. Senthil, Shailja Bawa, Response of reinforced concrete column with steel and FRP jackets under uniaxial loading
2018	Material Science and Engineering, Vol. 330 (SCOPUS Indexed)	K. Senthil, S. Muthukumar, S. Rupali, K.S. Satyanarayanan, Effect of various interface thicknesses on the behavior of infilled frame subjected to lateral load
2018	International Conference on Advances in Construction Materials and Structures, March 7-8, 2018, IIT Roorkee, India	K. Senthil, M.A. Iqbal, V. Bhardwaj, N.K. Gupta, Estimation of impact strength of 7075-T651 aluminium plate against steel penetrator
2018	2nd International Conference on Advances in Mechanical Engineering, March 22-24, 2018, SRM University, india	K. Senthil, S. Rupali, M.A. Iqbal, Impact strength of mild steel plates against flat nose impactor of large masses
2018	International Conference on Theoretical and Experimental Advances in Civil Engineering, May 10-12, 2018, SRM University, India	K. Senthil, S. Rupali, H.S. Bhatti, A.P. Singh, Numerical studies on the behaviour of highway metallic lamp post under light vehicles impact
2018	International Conference on Theoretical and Experimental Advances in Civil Engineering, May 10-12, 2018, SRM University, India	K. Senthil, S. Rupali, A.P. Singh, Numerical investigations on the behaviour of reinforced concrete building against blast loading
2018	46th International Summer School-Conference "Advanced Problems in Mechanics, 25-30 June 2018, Saint Petersburg Polytechnic University, Saint Petersburg, Russia	K. Senthil, M.A. Iqbal, N.K. Gupta, Impact strength of mild steel and Armox 500T steel
2018	Proceedings on the 11th Structural Engineering Convention, 19-21 December 2018, Jadavpur University, India	K Senthil, KB Gurneet, S Rupali, L Pelecanos, Computation of impact resistance of 5083-H116 aluminum structures by conical impactor
2018	Proceedings on the International Conference On Structural Integrity, 14-17 December 2018, IIT Madras, India (SCOPUS Indexed)	K Senthil, S Rupali, M A Iqbal, A Thakur, A P Singh, Influence of Curvature Ratio on Perforation of 2024 Aluminium by Conical Impactor
2018	Proceedings on the National Conference of Advanced Structures, Materials and Methodology in Civil Engineering, 3-4 November 2018, NIT Jalandhar, India	K. Senthil, A. Thakur, A.P Singh, Response of Mild Steel and Reinforced Concrete Plate against Falling Impact of Large Masses
2018	Proceedings on the National Conference of Advanced Structures, Materials and Methodology in Civil Engineering, 3-4 November 2018, NIT Jalandhar, India	A. Singhal, K. Senthil, B. Shailja, Influence of boundary condition and mass of TNT on the behaviour of concrete slab under blast loading
2018	Proceedings on the National Conference of Advanced Structures, Materials and Methodology in Civil Engineering, 3-4 November 2018, NIT Jalandhar	Vipasha Rishi, K Senthil, Jatin Anand, S. Rupali, B. Shailja, Influence of lime and chicken mesh on compaction properties of soil
2018	Proceedings on the National Conference of Advanced Structures, Materials and Methodology in Civil Engineering, 3-4 November 2018, NIT Jalandhar	S Rupali, R Arvind, I Bhat, K Senthil, AK Agnihotri, Influence of vibrations by rolling stock metro rail on pile-soil interaction
2018	Proceedings on the National Conference of Advanced Structures, Materials and Methodology in Civil Engineering, 3-4 November 2018, NIT Jalandhar	K Senthil, B Shailja, A Rana, JK Saurabh, A Tanzeem, Study on influence of thickness and span length of flat slab for progressive collapse

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

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
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Chapter	Composite Materials: High Strain Rate; Transient Dynamic Response of Clay Brick Masonry Walls of Varying Aspect Ratio against Low Velocity Impact Load Composite Materials: High Strain Rate Studies	CRC Press, Taylor & Francis Group	K Senthil, Ankush Thakur, S Rupali, A P Singh, M A Iqbal,		2023
Chapter	Prediction of damage intensity of reinforced concrete tunnels and soil against blast loading, Geotechnical Aspects of Underground Construction in Soft Ground	CRC Press, Taylor & Francis	K Senthil, L Pelecanos, S Rupali	9780429321559	2021
Chapter	Simplified modelling of the transient response of underground structures due to dynamic loads generated from underground tunnels, Geotechnical Aspects of Underground Construction in Soft Ground	CRC Press, Taylor & Francis	L Pelecanos, K Senthil, S Rupali	9780429321559	2021
Chapter	Recent Advances in Computational and Experimental Mechanics II	Springer	K. Senthil, G.S. Chauhan, S. Rupali, K. Pravesh	9811664897	2021
Chapter	Recent Advances in Computational and Experimental Mechanics, Vol—I	Springer	K. Senthil, A Thakur, AP Singh,	9811667373	2021
Book Chapter	Numerical studies on safeguarding of cantilever retaining structures by sustainable backfilling materials	Springer Nature, Lecture Notes in Civil Engineering	K. Senthil, A. Thakur, A.P Singh	978-3-030-51354-2	2020
Book Chapter	Influence of Curvature Ratio on Perforation of 2024 Aluminium by Conical Impactor	Springer Lecture Notes in Mechanical Engineering	K Senthil, S Rupali, M A Iqbal, A Thakur, A P Singh	978-981-13-8767-8	2020
Book Chapter	Mechanical and durability properties of recycled aggregate self-compacting concrete along with basalt fibers	Springer Nature, Lecture Notes in Civil Engineering	Singh Davinder, K Senthil, PC Emmanuel	978-981-13-7017-5	2019
Book Chapter	Compression and shear resistance of self-compacting concrete with arch-type steel and polypropylene fibres	Springer Nature, Lecture Notes in Civil Engineering	K Senthil, Singh Davinder, Singh Ivjot	978-981-13-7017-5	2019
Book	Advanced Structures, Materials and Methodology in Civil Engineering, https://www.nitj.ac.in/index.php/nitj_cinfo/pages/152	ASMMCE 2018, NIT Jalandhar	K. Senthil, Rajiv Kumar, S. Rupali, Amit Kumar	978-93-5321-892-8	2018

Research Projects :

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

Events Organized :

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

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

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

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 Singh	Response of Reinforced Concrete Curved Beams under Static and Impact Loading	On-going	2021	Dr. H. S. Chore, Associate Professor, NIT Jalandhar

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

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

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

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

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

Admin. Responsibilities :

Position Held	Organization	From	To
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Coordinator, CAD Laboratory	Department of Civil Engineering, Dr BR Ambedkar NIT Jalandhar	04-01-2018	Till date
Coordinator, Computation Laboratory	Department of Civil Engineering, Dr BR Ambedkar NIT Jalandhar	18-01-2021	Till date
Co-Coordinator, M. Tech (Structural and Construction Engineering)	Department of Civil Engineering, Dr BR Ambedkar NIT Jalandhar	04-01-2018	Till date
Coordinator	Structural Analysis Laboratory	04-01-2018	Till date
Co-Coordinator, Technology Business Incubator-NITJ	Technology Business Incubator-NITJ	01-05-21	30-04-22
Co-Coordinator, SPAC Technology Incubation Centre,	SPACE-ISRO, NIT Jalandhar	01-04-22	Till date
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 January 2021	IIT Delhi	2021
Bharat Excellence Award	For the significant Contribution in the year 2018-19	Friendship Forum of India	2020
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 Exchange Award	International Exchanges	The Royal Society, UK	2018
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