

LIST OF PUBLICATIONS

Dr. S. Robert Ravi

International Journals:

1. Kumar, C. V., Palanisamy, M., Balakrishna, C., Reddy, S. P. S., & Ravi, S. R. (2022). Evaluation of strength characteristics and identifying the optimum dosage with the impact of partial replacement of recycled fine and coarse aggregate from construction and demolition waste. *Materials Today: Proceedings*, 66, 1699-1709. <https://doi.org/10.1016/j.matpr.2022.05.265>
2. Jeyabharathy, A. S., & Ravi, S. R. (2019). Structural Behavior of Experimented Retrofitted RC Beam Using Natural Fibers with Neural Network. *Int. J. Eng. Adv. Technol.*, 8(6), 1802-1809. [10.35940/ijeat.F8458.088619](https://doi.org/10.35940/ijeat.F8458.088619)
3. Swaminathen, A. N., & Ravi, S. R. (2016). Use of rice husk ash and metakaolin as pozzolonas for concrete: a review. *International Journal of Applied Engineering Research*, 11(1), 656-664. DOI:10.37622
4. Saleemmiya, S., Reddy, I.P.R., Ravi, S. R., & Chinna, E., (2022). Experimental Investigation on Heavy Metal Contamination in Lake Water Sources of Musi Basin. *International Journal of Innovative Research in Technology (IJIRT)*, Vol. 8 (11), pp 345-349. https://ijirt.org/master/publishedpaper/IJIRT154500_PAPER.pdf
5. Gopal, S., Ravi, S. R., & Chinna, E., (2022). Treatment of Dairy Wastewater using moving bed bio-film reactor sequential with integrated fixed-film sludge. *International Journal of Innovative Research in Technology (IJIRT)*, Vol. 8 (10), pp 573-576. https://ijirt.org/master/publishedpaper/IJIRT154304_PAPER.pdf
6. Robert Ravi, S., & Prince, A. G., (2010). Experimental Investigation on the behavior of R.C.C. Beam-Column Joints Retrofitted with GFRP-AFRP Hybrid Wrapping Subjected to Load Reversal. *International Journal of Mechanics and Solids*, 5, 61-69.
7. Robert Ravi, S., & Prince, A. G., (2010). Experimental investigation on the behavior of retrofitted reinforced concrete beam-column joints with CFRP subjected to Load reversal. *International Journal of Applied Engineering and Research (IJAER)*. Vol.5, No.1, pp 109-120.
8. Ravi, R., & Arulraj, P. (2010). Experimental Investigation on the Behaviour of Retrofitted Reinforced Concrete Beam - Column Joints with GFRP Wrap Subjected to Load Reversal. *International Journal of Earth science and Engineering (IJEE)*. Vol.3, No.2, pp 289- 300.
9. Experimental investigation on the influence of axial load and lateral ties on reinforced concrete beam-column joints, *International Journal of Civil and Structures (IJCS)*. Vol.2, No.2 (2009) pp 071- 076.
10. Experimental Investigation on the behavior of retrofitted reinforced concrete beam-column joints with sisal fiber wrap subjected to Load reversal, *International Journal of Applied Engineering and Research IJAER*, ISSN 0973-4562 Vol.5, No.8 (2010) pp1393-1401.
11. Experimental Investigation on the behavior of retrofitted reinforced concrete beam-column joints with GFRP-CFRP hybrid fiber wrap subjected to Load reversal, *International Journal of Mechanics and Solids (IJMS)*, ISSN 0973-1881) Vol.5, No.1(2010), pp. 61-69.
12. Experimental Investigation on the behavior of retrofitted reinforced concrete beam-column joints with AFRP wrap subjected to Load reversal, *International Journal of Emerging Technology and Applications in Engineering Technology and science. (I- ETA-ETS)*, ISSN 0974-3588) July'10-December'10, Vol.3, Issue 2 , pp. 52-57.
13. Ravi, S. R., & Arulraj, G. P. (2010). Experimental investigation on behavior of reinforced concrete beam column joints retrofitted with GFRP-AFRP hybrid wrapping. *International Journal of Civil & Structural Engineering*, 1(2), 245-253.
14. Ravi, S. R., & Arulraj, G. P. (2010). Finite element modeling on behavior of reinforced concrete beam-column joints retrofitted with carbon fiber reinforced polymer sheets. *International Journal of Civil & Structural Engineering*, 1(3), 576-582.
15. Finite element modeling of reinforced concrete beam column joints retrofitted with carbon fiber reinforced polymer wrap., *International Journal of Research Engineering*, 2011, Vol. 1, Issue 1, pp 27-30.

16. Finite element modeling of reinforced concrete beam column joints retrofitted with GFRP wrapping, *International Journal of Civil Engineering and Technology (IJCIET, ISSN 0976 - 6308)* 2011, Vol.2, No.1, pp 36-40.
17. Jeyabharathy, A. S., & Robert, R. S. (2013). Experimental Investigation on Behavior of RCC Beam Retrofitted with Sisal Fibre Sheet. *International Journal of Innovative Research in Science, Engineering and Technology*, 2(7), 3159-3162.
18. Effects Of Water Quality on Hydration and Compressive Strength of Plain Cement Concrete, *International Journal of Applied Engineering Research (IJAER) ISSN 0973-4562* Volume 9, Number 22 (2014) pp. 16895-16908. **UGC Approved Journal No. – 64529**
19. Manikandan, S., Dharmar, S., & Robertravi, S. (2015). Experimental study on flexural behaviour of reinforced concrete hollow core sandwich beams. *International Journal of Advance Research in Science and Engineering*, 4(01), 937-946.
20. Experimental study on flexural and shear behavior of fiber reinforced concrete beams, *International Journal of Advances in Natural and Applied sciences* ISSN 1995-0772, 2016 Jan 10 (1) pages 57-64
21. Study on strengthening of RC beam column joint using Hybrid FRP composites, *Circuits and systems*, ISSN Print: 2153-1285 ISSN Online: 2153-1293 Scientific research publishing 2016, Vol.7, pp 2846-2856. *Circuits and Systems*, 2016, 7, 2846-2856 Published Online August 2016 <http://dx.doi.org/10.4236/cs.2016.710243>
22. Indian rice husk ash – improving the mechanical properties of concrete. *International journal of Engineering research and application*, (IJERA) ISSN 2248-9622, Vol.7, Issue 1 (Part 1), Jan.2017, pp 76-79. **UGC Approved Journal No. – 47088**
23. Selvabharathi, G., Anbarasi, K., Ravi, S. R., & Dhanaraja, D. (2017). Treatment of tannery wastewater by activated sludge process. *Elixir Renewable Energy*, 102, 44280-44285.
24. Durability Response of High-Performance Concrete with Metakaolin and Rice Husk Ash, *International Journal of Scientific Research and Review*, ISSN: 2279-543X, Dynamic Publisher, Vol.7, Issue 2, 2018, pp 122- 130. **UGC Approved Journal**
25. Cost and Time overrun analysis in Construction Industry using Questionnaire survey, *International Journal of Innovative Research in Technology (IJIRT)*, ISSN:2349-6002, Vol.9, Issue 1, pp 1468-1472, **UGC approved journal No.47859**
26. Study on Ground improvement Technique using Bamboo stick and coir fiber as reinforcement. *Positif Journal*, ISSN 0048-4911. Vol.22. Issue 8, Aug. 2022, pp 199-207. <https://doi.org/10.37896/psj30.8/1320>, **Scopus Indexed.**
27. Study on Behaviour of Coconut Fiber Reinforced Concrete. *Positif Journal*, ISSN 0048-4911. Vol.22. Issue 9, Sep.2022, pp 16-20. <https://doi.org/10.37896/psj30.9/1402>, **Scopus Indexed.**
28. Performance Of C.L.C Bricks With Coir Fibers And Plastic Fibers, *Dizhen Dizhi Journal (ISSN:0253-4967)*, Volume XIV, Issue IX, pp 1-5, Sep'2022, [doi.org/10.37896/Dizhen Dizhi 14.09/10514](https://doi.org/10.37896/Dizhen%20Dizhi%2014.09/10514), **Scopus indexed & UGC CARE II journal.**
29. Influences of Effluent water in Concrete, *Journal of Xidian University (ISSN:1001-2400)*, Vol.16, Issue.12, pp 7-12 Dec'2022, <https://doi.org/10.37896/jxu16.12/002>, **Scopus indexed & UGC CARE II journal.**

International Conference:

1. Evaluation of strength and durability assessment for the impact of rice husk ash and metakaolin at high performance concrete mixes, *International Conference on Futuristic Research in Engineering Smart Materials, GRIT, Hyderabad, Materials today Proceedings*, ISSN: 2214-7853 Vol.47, Part 14, pp 4584-4591, 2021 <https://doi.org/10.1016/j.matpr.2021.05.449>, **Scopus Indexed, WoS indexed.**
2. Experimental investigation on the behavior of reinforced concrete beam retrofitted with Jute fiber sheet- *Proceedings of the International Conference on Current trends in Engineering and Technology*, 3rd July 2013, Akshaya college of Engg. & Technology, Coimbatore. ICCTET, 2013 pp 3-15, 0667 5902. **Scopus Indexed, WoS indexed.**
3. Effect of anchorage length on performance of reinforced concrete beam-column joints- *Proceedings of the International conference on advances in materials and technology*, 7th -9th Jan 2010 V.L.B. Janakiammal College of Engg & Tech., Coimbatore.
4. Finite Element Modeling of Reinforced Concrete Beam Column Joints Retrofitted with Aramid Fiber Reinforced Polymer Sheets. *Proceedings of International Conference on Adaptive Technologies for*

Sustainable Growth (ICATS-2011) pp 7-10 , 16th-18th July 2011@ Paavai Engineering College, Nammakal.

5. Correlation Based Damage Detection for Structural Health Assessment, 13th & 14th March, ICCCIM'14, S.R.M University, Chennai.
6. Behavior of RCC Flexural member Under Shock Loading, 13th & 14th March, ICCCIM'14, S.R.M University, Chennai.
7. Experimental Investigation on behavior of Self-Healing Concrete, International conference on 'Science, Engineering & Technology @ VIT on 6th & 7th May 2014.
8. Vibration based damage detection for Structural Health Assessment, International conference on 'Science, Engineering & Technology @ VIT on 6th & 7th May 2014.
9. Numerical Investigations on Blast protection system with metallic tube core sandwich panels, International conference on sustainable energy and built environment, VIT, Vellore on 12th & 13th March 29, 2015.
10. Experimental study on flexural and shear behavior of fiber reinforced concrete beams, International Conference on recent trends in mechanical and civil engineering – ICRTMCE'16 @ Christian college of Engineering & Technology , Dindigul 17th -19th March 2016.
11. Treatment of combined waste water by activated sludge process, International conference on Recent trends in structural and Environmental engineering – ICRTCEE – 16 @ University college of Engineering, Dindigul on 23rd May 2016.
12. Prediction based performance evaluation in beam column joint with the aid of artificial neural network. ICRTCEE – 16 @ University college of Engineering, Dindigul on 23rd May 2016.
13. Scheduling of Multistoried Buildings using MS Project, Proceedings of Int. Virtual Conference on Innovations in Concrete and Constructions - ICON 2021, 10th & 11th June 2021 @ Sona College of Tech, Salem.

National Journals:

1. Assessment of Surface Water Quality in Machanpally (V), Mahabubnagar(Dist.) Telangana State, Surajpunj Journal for multidisciplinary research (ISSN: 2394-2886), Vol.12, Issue 7, pp 26-32, July 2022 , **UGC approved journal No:64786.**
2. Scheduling of multistory building using Microsoft Project, Surajpunj Journal for multidisciplinary research (ISSN: 2394-2886), Vol.12, Issue 2, pp 42-55, Feb'2022 , **UGC approved journal No:64786.**
3. Rapid chloride penetration resistance of blended cements containing metakaolin and rice husk ash., SurajPunj Journal for multidisciplinary research, ISSN 2394-2886, Vol.8, Issue 8, 2018. **UGC approved journal No:64786.**
4. Strength characteristics of concrete with Indian metakolin and rice hush ash, Journal of Advances in chemistry, ISSN 2321-807X, Vol.13, No.3, pp 6140-6150, Jan. 2017.
5. Experimental investigation on influence of development length in retrofitted reinforced beam-column joints – NBM & CW, April 2009 pp 148-158
6. Experimental Investigation on behavior of reinforced Beam-Column Joint retrofitted with FRP wrap subjected to static load– NBM&CW, Oct 2009 pp 204-218.

National Conferences:

1. Studies on the behavior of retrofitted reinforced concrete beam-column joint using CFRP wrapping – Proceedings of the national conference on recent developments in concrete technology, 21st&22nd December. 2006, Govt. College of Tech., Coimbatore.
2. Experimental Investigation on the retrofitted reinforced concrete beam-column joint using CFRP wrapping- Proceedings of the national conference on frontline areas in civil engineering, 20th -21st April.2007., V.L.B. Janakiammmal College of Engg & Tech., Coimbatore
3. Finite element modeling on the behavior of reinforced concrete beam-column joint retrofitted with GFRP wrapping - Proceedings of the national conference on innovations in civil engineering, 20th April, 2010., Kumaraguru College of Tech., Coimbatore.
4. Finite element modeling on the behavior of retrofitted reinforced concrete beam column joints Proceedings of the National conference on Advancements in concrete Technology, 23rd & 24th September, 2010., K.S.R College of Tech., Tiruchengode.

5. Finite element modeling on the reinforced concrete beam column joints retrofitted with Aramid FRP sheets, Proceedings of the National conference on Recent Advances in Civil Engineering Research, 26th January 2011., Karpagam University, Coimbatore.
6. Finite element modeling on the reinforced concrete beam column joints retrofitted with Aramid FRP sheets, Proceedings of the National conference on Earthquake and Structural Engineering, NCESE - 2011, on 15th & 16th Sep' 2011., V.L.B. Janakiammmal College of Engg & Tech., Coimbatore.
7. Influence of self-healing Agent on Concrete, National conference on LACE'14 on 10th April 2014@ SNS college of Technology, Coimbatore.
8. Treatment of tannary waste by combined process, National conference on Green Engineering & Technologies for sustainable future, Anna University, Trichy on 16.09.16

Patent Filed & Published:

1. Designing a framework of construction techniques with smart devices integrated with Internet of things, application no. 202241056474 filed on 01.10.22. Published on 21.10.2022, Intellectual Property India, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Govt. of India
2. Crack detection and testing of buildings strength through image processing to predict the condition of building. wide application no: 202241034671, filled on 17/06/22, Published on 22.07.2022, Intellectual Property India, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Govt. of India.
3. Advanced robotic application to supervise the construction site and check for dimensional deformities. wide application no: 202221012858, filled on 12/03/22, published on 29/04/22/, Intellectual Property India, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Govt. of India.
4. Experimental Studies on Banana fiber with Concrete composites, wide application no: 202141053716, filled on 23/11/21, Published on 10/12/21, Intellectual Property India, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Govt. of India.
5. 5G Technology enabled Smart e-healthcare system". wide Application no: 202141036911, Filed on 14/08/2021, Published on 24/09/2021, Intellectual Property India, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Govt. of India.
6. The influence of different treatment applied to flax fibers on different properties of mortar reinforcement, Ref. no. 202141028760, Filed on 26.06.21, Published in Journal no.28/2021 dt: 09.07.21, Intellectual Property India, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Govt. of India.
7. Door Mounted Door Handle Sanitizer Dispenser, Ref.No: 202041026845, Filed on 25.06.20, Published on Journal no: 28/2020 dt:10.07.2020 , Intellectual Property India, Department of Industrial Policy and Promotion , Ministry of Commerce and Industry, Govt. of India.

Book published:

Stainless Steel in Civil Engineering, Scientific International Publishing House, Sep'2022, <https://www.flipkart.com/stainless-steel-civilconstruction/p/itm7cdc70ef4a855?pid=9789356254701>

Dr. Snehal Kaushik

Book Chapters/Refereed Technical Reports

1. Kaushik, S. (2024). Comparative Study of Vertically Irregular RC Shear Wall Building Frames. (Accepted for Publication in Springer)
2. Kaushik, S., Nath, S.S., Das, T. (2023). Impact Assessment of Plastic Strips on Compressive Strength of Concrete. In: Mitra, S., Dasgupta, K., Dey, A., Bedamatta, R. (eds) Disaster Management and Risk Reduction: Multidisciplinary Perspectives and Approaches in the Indian Context. NERC 2022. Springer, Singapore. https://doi.org/10.1007/978-981-99-6395-9_14
3. Kaushik S, Tabassum Nahar Saikia, Syed Maroof Hassan Syed, Suhail Jafri and Banashree Baruah (2021) "Response of Multistoried Building Considering Soil-Structural Interaction Under Lateral Loading", Seismic Design and Performance. Sitharam T.G., Palapati, R.R. Kolathayar, S. (Eds.), Springer Nature, PP. 219-231. DOI: <http://doi.org/10.1007/978-981-33-4005-3> , ISBN: 978-981-334-004-6 Kaushik S.,
4. Dasgupta K. (2021), "Seismic Response of Shear Wall–Floor Slab Assemblage". In: Dutta S., Inan E., Dwivedy S.K. (eds) Advances in Structural Vibration. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-15-5862-7_10, ISBN: 978-981-15-5861-0
5. Kaushik, S., and Dasgupta, K. (2018), "Seismic Behaviour of RC Slab-Shear Wall Assemblage Using Nonlinear Static and Dynamic Analysis", In Recent Advances in Structural Engineering, Volume 2, Lecture Notes in Civil Engineering Volume 12, Rama Mohan Rao, A., and Ramanjaneyulu, K. (eds.), Springer Nature, PP. 219-231. DOI: http://doi.org/10.1007/978-981-13-0365-4_19, ISBN: 978-981-13-0364-7.

Refereed International Journals

1. Kaushik, S. (2021) "Seismic Response of RCC Building Under Column Removal Scenario" International Research Journal of Engineering and Technology (IRJET). Volume 9, Issue 3, March 2022, S.No: 356.
2. Kaushik, S. and Dasgupta, K. (2021) "A drift-based design procedure for RC buildings considering the effect of shear wall - floor slabs junction" Earthquakes and Structures, Vol. 21, No. 3 (2021) 313-326. DOI: <https://doi.org/10.12989/eas.2021.21.3.303>
3. Kaushik, S. and Dasgupta, K. (2019) "Seismic behaviour of slab-structural wall junction of RC building" Earthquake Engineering and Engineering Vibration, Springer Publication, Vol 18 (2), 331-349. <https://doi.org/10.1007/s11803-019-0507-8>
4. Kaushik, S. and Dasgupta, K. (2016). "Seismic damage in slab-structural wall junction in RC building." Procedia Engineering, Elsevier Publication, 144, 1332 – 1339. doi: 10.1016/j.proeng.2016.05.162

Conferences and Workshops

1. Kaushik, S. (2023). "Comparative Study of Vertically Irregular RC Shear Wall Building Frames." 13th Structural Engineering Convention, VNIT Nagpur, India, 7-9 December 2023. Paper No. 369.
2. Kaushik, S. and Dasgupta, K. (2022). "Analytical Study on Seismic Behavior of Rectangular Shear Wall Connected to Floor Slabs" 12th Structural Engineering Convention (SEC2020+1), NCDMM and MNIT Jaipur, Rajasthan, India, 17-19 December 2020 (rescheduled to 17-19 December 2022)
3. Kaushik, S., Nath, S. S., and Das, T. (2022). "Impact Assessment of Plastic Strips on Compressive Strength of Concrete" North-East Research Conclave, Sustainable Science and Technology (NERC 2022), Indian Institute of Technology Guwahati, Guwahati, India, 20-22 May 2022, (Track 6-Disaster Management).
4. Snehal Kaushik, (2022). "Seismic Response of RCC Building under Column Removal Scenario" International Conference on Material, Mechanics and Structures (ICMMS 2022), NIT Calicut, Kerala, India, 10-12 March 2022.
5. Snehal Kaushik, Tabassum Nahar Saikia, Syed Maroof Hassan Syed, Suhail Jafri and Banashree Baruah (2021) "Response of Multistoried Building Considering Soil-Structural Interaction under Lateral Loading" 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics (ICRAGEE 2020), Indian Institute of Science Bangalore, Bangalore, India. Paper No. 187.
6. Kaushik, S. and Dasgupta, K. (2018). "Design drift requirements for buildings with RC shear walls" 16th Symposium on Earthquake Engineering, Institute of Technology Roorkee, Roorkee, India Paper No. 269

7. Kaushik, S. and Dasgupta, K. (2018). "Plastic hinge length at RC shear wall and floor slab junction" 2nd International Conference on Civil Engineering for Sustainable Development – Opportunities and Challenges (CESDOC), Assam Engineering College, Guwahati, India, Paper No. SINO306
8. Kaushik, S. and Dasgupta, K. (2017). "Seismic Response of Shear Wall–Floor Slab Assemblage." 13th International Conference on Vibration Problems (ICOVP), Indian Institute of Technology Guwahati, Guwahati, India, Paper No. 184
9. Kaushik, S. and Dasgupta, K. (2016). "Seismic behaviour of RC slab-shear wall assemblage using non linear static and dynamic analyses." Structural Engineering Convention, Indian Institute of Technology Madras, Chennai, India. Paper No. 594.
10. Kaushik, S. and Dasgupta, K. (2015). "Seismic damage in slab-structural wall junction in RC building." 12th International Conference on Vibration Problems (ICOVP), Indian Institute of Technology Guwahati, Guwahati, India, Paper No. O0170.
11. Kaushik, S. and Dasgupta, K. (2013). "Seismic behavior of slab-structural wall junction in RC building." Conference on Structural Engineering and Mechanics. NIT Rourkela, India, Paper No. 054.
12. Dekate, S. V., and Ingle, R. K., (1999), "Effect of Checkerboard Placing of Live Load on Symmetrical Multistory Building", Institution of Engineers (India), Nagpur Local Chapter.

Dr. Kasturi Bhuyan

Journals:

1. Gangolu, J., Kumar, A., Bhuyan, K., & Sharma, H. (June 2022). Performance-based probabilistic capacity models for reinforced concrete and prestressed concrete protective structures subjected to missile impact. *International Journal of Impact Engineering*, 164, 104207. Online ISSN: 1879-3509 <https://doi.org/10.1016/j.ijimpeng.2022.104207>
2. Gangolu, J., Kumar, A., Bhuyan, K., & Sharma, H. (July 2022). Probabilistic demand models and performance-based fragility estimates for concrete protective structures subjected to missile impact. *Reliability Engineering & System Safety*, 223, 108497. Online ISSN: 1879-0836 <https://doi.org/10.1016/j.res.2022.108497>
3. Kishore, K. B., Gangolu, J., Ramancha, M. K., Bhuyan, K., & Sharma, H. (November 2022). Performance-Based Probabilistic Deflection Capacity Models and Fragility Estimation for Reinforced Concrete Column and Beam Subjected to Blast Loading. *Reliability Engineering & System Safety*, 227, 108729. Online ISSN: 1879-0836 <https://doi.org/10.1016/j.res.2022.108729>
4. Bhuyan, K., & Sharma, H. (December 2022). Reliability analysis & performance-based code calibration for slabs/walls of protective structures subject to air blast loading. *Reliability Engineering & System Safety*, 228, 108751. Online ISSN: 1879-0836 <http://doi.org/10.1016/j.res.2022.108751>
5. Bhuyan, K., & Sharma, H. (February 2024). Probabilistic capacity models and fragility estimate for NRC and UHSC panels subjected to contact blast. *Reliability Engineering & System Safety*, 242, 109683. Online ISSN: 1879-0836. <https://doi.org/10.1016/j.res.2023.109683>

Book Chapter:

1. Bhuyan, K., Jujjavarapu, K. K., & Sharma, H. (2021). Performance Evaluation of Two Way RC Slab Subjected to Blast Loading Using Finite Element Analysis. In *Advances in Structural Technologies* (pp. 57-70). Springer, Singapore. Print ISBN: 978-981-15-5234-2 https://doi.org/10.1007/978-981-15-5235-9_5

Conference Papers::

1. Rahman, T. and Bhuyan, K. (March 2015). Ground Response Analysis at the Rukni Irrigation Project site location in Assam, India. International Conference on Sustainable Energy and Built Environment. VIT University, Vellore.
2. Bhuyan, K., Jujjavarapu, K. K., & Sharma, H. (February 2019). Performance Evaluation of Two-Way RC Slab Subjected to Blast Loading Using Finite Element Analysis. National conference on Advances in Structural Technologies (CoAST-2019). NIT Silchar, Assam.

3. Bhuyan, K., Sah, A. K., and Sharma, H. (March 2019). Practical Application of High Strength Concrete Matrix for Use in Defense Establishments, In Proceedings of the International UKIERI Concrete Congress, NIT Jalandhar, India, pp. 90.

Dr. Pallab Jyoti Das

Patent:

Deb, S. K., Das, P. J., (2021). Hybrid buckling restrained brace with high damping capacity and manufacturing method thereof, Patent No. 508542, Date of Grant - 08 Feb, 2024

Journals:

1. Das, P.J. & Deb, S.K., (2023). Experimental Study of Newly Developed Hybrid Buckling-Restrained Brace with Different Infill-Layer Geometries under Cyclic Loading. Practice Periodical on Structural Design and Construction, ASCE. 28(4), 04023040, DOI: <https://doi.org/10.1061/PPSCFX/SCENG-1316>
2. Das, G., Das, P.J. & Deb, S.K., (2023). Seismic retrofit of torsionally coupled RC soft storey building using short yielding core BRBs. Journal of Building Engineering, Elsevier, 65, 105742, DOI: <https://doi.org/10.1016/j.jobbe.2022.105742>
3. Das, P. J. & Deb, S. K., (2022), Seismic performance evaluation of a new hybrid buckling restrained brace (HyBRB) under cyclic loading, Journal of Structural Engineering, ASCE, 148(6), 04022069, DOI: [https://doi.org/10.1061/\(ASCE\)ST.1943541X.0003372](https://doi.org/10.1061/(ASCE)ST.1943541X.0003372)
4. Basar, T., Deb, S. K., Das, P. J., & Sarmah, M., (2021). Seismic response control of low rise unreinforced masonry building test model using low-cost and sustainable un-bonded scrap tyre isolator (U-STI). Soil Dynamics and Earthquake Engineering, Elsevier, 142, 106561, DOI: <https://doi.org/10.1016/j.soildyn.2020.106561>

Book Chapters:

1. Das, P. J. & Deb, S. K., (2023). Experimental study on open core hybrid buckling restrained braces with different debonding layer geometries, ce/papers (Proceedings in Civil Engineering), Wiley, 6(3-4), 2344-2349, DOI: <https://doi.org/10.1002/cepa.2656>

Conference Papers:

1. P. J. Das and S. K. Deb, (2024). Seismic Vulnerability Reduction of a Soft Ground-Story RC Building with Open-Core BRBs, 18th World Conference on Earthquake Engineering, Milan, Italy (accepted).
2. P. J. Das and S. K. Deb, (2023), Seismic Fragility Analysis of RC Building with Soft Ground Story Retrofitted Using Open Core-Hybrid BRB, International Conference on Condition Assessment, Rehabilitation & Retrofitting of Structures (CARRS 2023), IIT Hyderabad
3. P. J. Das and S. K. Deb, (2023). Experimental study on open core hybrid buckling restrained braces with different debonding layer geometries, Eurosteel 2023, Amsterdam.
4. Das, P. J., Deb, S. K., (2022). Seismic Fragility Analysis of RC Building with Open Ground Story Retrofitted using HyBRB, Socio-Technological Aspects of Seismic Disaster and its Mitigation (STASDM), IIT Guwahati
5. Das, P. J., Deb, S. K., (2018). Simplified Design of Open-core Buckling Restrained Brace for Enhancement of Damping. 16th Symposium on Earthquake Engineering, IIT Roorkee, Paper ID: 253

Anwasha Gayan

1. A Study on the Flood Mitigation of Assam. Journal of Civil Engineering and Environmental Technology (JCEET) Volume 1, Number 5, Print ISSN: 2349-8404, online ISSN: 2349-879X

2. An effort in developing a sustainable concrete using marble powder as partial cement replacement and quarry rock dust as fine aggregate with an emphasis on cost of production. *Journal of Civil Engineering and Environmental Technology (JCEET)* Volume 3, Issue 4 (page 293-296). Print ISSN: 2349-8404, online ISSN: 2349-879X
3. Soil Stabilization using Polypropylene Fibre. *Journal of Civil Engineering and Environmental Technology (JCEET)* Volume 5, Issue 8. (page 576-578). Print ISSN: 2349-8404, online ISSN: 2349-879X
4. Innovation in Transforming of Sustainable Building to Green Building. *International Journal of Engineering Inventions* Volume 11, Issue 3 (page 625-651). 1, ISSN: 2319-6491

Binita Devi

1. Devi, B., & Das, B. J. (2022). Brief Study on the Behaviour of Brahmaputra Valley Soil Based on Its Mineralogical Composition. *International Journal of Advances in Engineering and Management (IJAEM)* Volume, 4, 1158-1164.
2. Devi, B., Choudhury, D., Kalita, D., Maitra, T., & Deka, D. (2023). Improvement in the geotechnical properties of sediments deposited in the Brahmaputra River using bentonite. *International Research Journal of Engineering and Technology (IRJET)*. Volume, 10(12), 346-349. e-ISSN: 2395-0056. p-ISSN: 2395-0072.

Bhaskar Jyoti Medhi

Journals:

1. Sharma, B., Siddique, A. F., Medhi, B. J., & Begum, N. (2018). Assessment of liquefaction potential of Guwahati city by probabilistic approaches. *Innovative Infrastructure Solutions*, 3, 1-12. <https://doi.org/10.1007/s41062-017-0117-0>
2. Sharma, B., Siddique, A. F., & Medhi, B. J. (2019). One dimensional ground response analysis and identification of liquefiable Strata of Guwahati City. In *Transportation and Geotechniques: Materials, Sustainability and Climate: Proceedings of the 5th GeoChina International Conference 2018–Civil Infrastructures Confronting Severe Weathers and Climate Changes: From Failure to Sustainability, held on July 23 to 25, 2018 in HangZhou, China* (pp. 145-162). Springer International Publishing. https://doi.org/10.1007/978-3-319-95768-5_13

Conference:

1. Binu Sharma, Bhaskar Medhi, Amar F Siddique; Assessment of Liquefaction Potential of Guwahati city using Ground Response Analysis, National Conference on Recent Advancement in Geotechnical Investigations and Ground Improvement Techniques, Pp – 109-114.
2. Nitish Puri, Bhaskar Medhi, Lalit Kandpal, Rituraj Devrani, Manoj Datta, G. V. Ramana; Shallow Depth Environmental Soil, Groundwater and Gas Vapour Sampling Techniques, International Conference on Geoenvironment 2020, Pp – 76- 87
3. Bhaskar J. Medhi, Jannatul Firduz, Priya Sharma, Samarjyoti Das; An Experimental Study on the Geotechnical Properties on Cement and Lime Treated Sandy Soil, International Conference on Innovations and Research in Sciences, Technology, Commerce, Business Management, Social Science and Humanities for Sustainable Development

Nitisha Mazumdar

1. Advances in Civil and Infrastructure Engineering (ACIE) at Civil engineering Department, Tezpur University, Tezpur, Assam during 08th May, 2015 to 09th May, 2015.

2. “A study on the fluoride concentration in ground water of selected locations of Assam, India”, has published in the Journal of Assam Science Society and will appear in Vol. 56, No.1. 2016
3. “R.C.C Construction Vs Traditional Housing –Comparative study with respect to Earthquake Vulnerability”, National Conference at Maniram-Dewan Trade Centre, ISBN:978-81- 923052-5-7, EWMI 2017.
4. Marshall stability test by replacing aggregates with over burnt bricks and marble stones, 2nd International Conference on Civil Engineering for Sustainable Development – Opportunities and challenges, CESDOC, Assam Engineering 2018.
5. “Green building Technology”, International Conference on Infrastructure Development, ICID, Jorhat Engineering College, 21-22 Dec, 2018

Devilata Pegu

1. ‘Building Extraction from Satellite Image for Seismic Hazard Assessment’ at 16th European Conference on Earthquake Engineering(16ECEE) 2018, Thessaloniki, Greece, 18-21 June 2018

Monalisha Gautom

1. “Application of ArcGIS and HEC-RAS in Assessing Sedimentation in Godavari River Reach”. Book Title: A System Engineering Approach to Disaster Resilience. Publisher : Springer, Singapore. Page no.- 157 – 167.
2. Gautom,M., Chetia,N and Hussain,B(2023).”Finite Element Modeling of Shivsagar Shiva Dol”13th Structural Engineering Convention (SEC-2023), Visvesvaraya National Institute of Technology, Nagpur (VNIT) Paper No. – 461, 7th – 9 th December, 2023