



**JSS Mahavidyapeetha**  
**JSS Academy of Technical Education, I**

**Department of Civil Engineering**



**Publication Details**

**Journal Publications: 2023**

1. Hurukadli, P., Bharti, G. and Shukla, B.K. (2023) "Behaviour of Fibre Reinforced Polymer Laminates Strengthening Prestressed Concrete Beams". Materials Today: Proceedings, 78(04): 731-737, ISSN: 2214-7853. (Scopus & WoS, Q2).
2. Arya, P., Patel, S.B., Bharti, G., Shukla, B.K. and Hurukadli, P. (2023) "Impact of using a Blend of Bagasse Ash and Polyester Fiber in Black Cotton Soil for Improvement of Mechanical and Geotechnical Properties of Soil". Materials Today: Proceedings, 78(04): 738-743, ISSN: 2214-7853. (Scopus & WoS, Q2)
3. Hurukadli, P., Bharti, G., Shukla, B.K., Garg, P. and Tripathi, A. (2023) "Deflection of Reinforced Concrete Beams: An Analytical Study on the Impact of Steel Fiber". Materials Today: Proceedings. DOI: <https://doi.org/10.1016/j.matpr.2023.03.321>, ISSN: 2214-7853. (Scopus & WoS, Q2)
4. Bharti, G., Parikshit, N.H., Sihag, P., Tripathi, A., Shukla, B.K. and Jagudi, S. (2023) "Environmental Impact Analysis and Utilization of Copper Slag for Stabilising Black Cotton Soil". Materials Today: Proceedings. DOI: <https://doi.org/10.1016/j.matpr.2023.04.305>, ISSN: 2214-7853. (Scopus & WoS, Q2)
5. Shukla, B.K., Gupta, A., Gowda, S. and Srivastav, Y. (2023) "Constructing a Greener Future: A Comprehensive Review on the Sustainable Use of Fly Ash in the Construction Industry and Beyond". Materials Today: Proceedings, 93(3): 257-264. DOI: <https://doi.org/10.1016/j.matpr.2023.07.179>. ISSN: 2214-7853. (Scopus & WoS, Q2)
6. Maurya, N., Srivastav, Y., Rawat, S., Ranjan, Y., Srivastav, R., Shukla, B.K. and Varadharajan, S. (2023) "Reinforcing Civil Infrastructure with Waste Glass-Enhanced Concrete: A Comprehensive Review of Properties, Performance and Applications". Materials Today: Proceedings, 93(3): 239-248. DOI:

<https://doi.org/10.1016/j.matpr.2023.07.177>, ISSN: 2214-7853. (Scopus & WoS, Q2)

7. Gowda, S., Kunjar, V., Gupta, A., Kavitha, G., Shukla, B.K. and Sihag, P. (2024) "Prediction of the Subgrade Soil California Bearing Ratio Using Machine Learning and Neuro-Fuzzy Inference System Techniques: A Sustainable Approach in Urban Infrastructure Development". *Urban Science*. 08(01):04, ISSN: 2413-8851. (Scopus & WoS, Q1)
8. Shukla, B.K., Teeli, M.A., Shukla, S., Chandra, R., Bharti, N., and Singh, U. (2023) "A Comprehensive Overview of Vital Water Quality Parameters". *Lecture Notes in Civil Engineering*. Springer, Singapore, 439: 1-20, DOI: [https://doi.org/10.1007/978-981-99-6762-9\\_1](https://doi.org/10.1007/978-981-99-6762-9_1), ISSN: 2366-2557. (Scopus)
9. Shukla, B.K., Singh, R.D., Singh, N., Singh, S., Burman, Y.K., and Singh, R. (2023) "Application of Nanomaterials in Water Purification: A Thematic Review". *Lecture Notes in Civil Engineering*. Springer, Singapore, 439: 97-113, DOI: [https://doi.org/10.1007/978-981-99-6762-9\\_6](https://doi.org/10.1007/978-981-99-6762-9_6), ISSN: 2366-2557. (Scopus)
10. Parikshit, P., Garg, P., Bharti, G., Tripathi, A. and Shukla, B.K. (2023) "Analytical Study on the Effect of Steel Fiber in the Deflection of Pre-Stressed Concrete Beams". *IOP Conf. Ser.: Earth Environ. Sci.*, 1110: 012027, ISSN: 1755-1307. (Scopus & WoS)
11. Singh, S., Singh, V.P., Garg, P. and Shukla, B.K. (2023) "Physico-Chemical Analysis of Groundwater in Noida-Ghaziabad Region". *IOP Conf. Ser.: Earth Environ. Sci.*, 1110: 012028, ISSN: 1755-1307. (Scopus & WoS)
12. Hurukadli, P., Kumar, A., Shukla, B.K. and Bharti, G. (2023) "A critical review on behaviour of fiber reinforced pre stressed concrete". *AIP Conference Proceedings*, 2800(01): 020166, DOI: <https://doi.org/10.1063/5.0163272>, ISSN: 1551-7616. (Scopus & WoS)
13. Shukla, B.K., Kumar, A., Shenoy, A. and Parashar, B. (2023) "An experimental study on design mixes of pervious concrete for optimum compressive strength". *AIP Conference Proceedings*, 2800(01): 020091, DOI: <https://doi.org/10.1063/5.0162694>, ISSN: 1551-7616. (Scopus & WoS)
14. Shukla, B.K., Kumar, A., Bharti, G. and Parashar, B. (2023) "A sustainable design of energy efficient and environment friendly residential building for tropical climate". *AIP Conference Proceedings*, 2800(01): 020093, DOI: <https://doi.org/10.1063/5.0162700>, ISSN: 1551-7616. (Scopus & WoS)

- 15.** Hurukadli, P., Kumar, A., Shukla, B.K. and Bharti, G. (2023) “Experimental study on the influence of available absorbent as internal curing agent on cement mortar”. AIP Conference Proceedings, 2800(01): 020117, DOI: <https://doi.org/10.1063/5.0163269>, ISSN: 1551-7616. (Scopus & WoS)
- 16.** Singh, S., Singh, V.P., Yadav, S., Kushwaha, V., Kumar, A. and Shukla, B.K. (2023) “A compendious study on groundwater quality evaluation and monitoring”. AIP Conference Proceedings, 2800(01): 020197, DOI: <https://doi.org/10.1063/5.0163602>, ISSN: 1551-7616. (Scopus & WoS)
- 17.** Kirthanashri, S.V., Varadharajan, S., Maurya, A., Irfan, D., Shukla, B.K. and Kumar, A. (2023) “Use of foam concrete and 3D printing technology in civil engineering: A state of the art review”. AIP Conference Proceedings, 2800(01): 020107, DOI: <https://doi.org/10.1063/5.0163529>, ISSN: 1551-7616. (Scopus & WoS)
- 18.** Varadharajan, S., Kirthanashri, S.V., Dwivedi, A., Irfan, D., Shukla, B.K. and Kumar, A. (2023) “Use of fly ash and metakaolin to manufacture sustainable concrete”. AIP Conference Proceedings, 2800(01): 020110, DOI: <https://doi.org/10.1063/5.0163532>, ISSN: 1551-7616. (Scopus & WoS)
- 19.** Varadharajan, S., Kirthanashri, S.V., Kumar, A., Irfan, D., Shukla, B.K. and Kumar, A. (2023) “Use of silica fume concrete to enhance mechanical properties and environmental benefits”. AIP Conference Proceedings, 2800(01): 020108, DOI: <https://doi.org/10.1063/5.0163530>, ISSN: 1551-7616. (Scopus & WoS)
- 20.** Varadharajan, S., Kirthanashri, S.V., Singh, K., Irfan, D., Shukla, B.K. and Kumar, A. (2023) “Replacement of fine aggregate with Imperial smelting furnace slag for manufacture of ecofriendly concrete”. AIP Conference Proceedings, 2800(01): 020109, DOI: <https://doi.org/10.1063/5.0163531>, ISSN: 1551-7616. (Scopus & WoS)
- 21.** Tripathi, A., Langhi, M., Shukla, B.K., Kumar, A. and Bharti, G. (2023) “Assessment of sedimentation rate in Sipu reservoir using remote sensing & GIS technique”. AIP Conference Proceedings, 2800(01): 020102, DOI: <https://doi.org/10.1063/5.0163204>, ISSN: 1551-7616. (Scopus & WoS)
- 22.** Shenoy, A., Shukla, B.K. and Kumar, A. (2023) “Interplay between Criteria Pollutants and Covid-19 Pandemic”. AIP Conference Proceedings, 2800(01): 020101, DOI: <https://doi.org/10.1063/5.0163517>, ISSN: 1551-7616. (Scopus & WoS)

- 23.** Bharti, G., Shukla, B.K., Kumar, A., Bansal, V. and Hurukadli, P. (2023) “Stabilization of black cotton soil using steel slag”. AIP Conference Proceedings, 2800(01): 020082, DOI: <https://doi.org/10.1063/5.0162699>, ISSN: 1551-7616. (Scopus & WoS)
- 24.** Bharti, G., Shukla, B.K., Kumar, A., Parashar, B. and Varadharajan, S. (2023) “Experimental study on physico-mechanical properties of expansive soil by using wheat straw fiber”. AIP Conference Proceedings, 2800(01): 020083, DOI: <https://doi.org/10.1063/5.0163437>, ISSN: 1551-7616. (Scopus & WoS)
- 25.** Irfan, D., Varadharajan, S., Mateen, S., Kumar, A. and Shukla, B.K. (2023) “Assessment of behavior of Steel Space frames with Two-way orthogonal latticed grids and Orthogonal square pyramid space grids”. AIP Conference Proceedings, 2800(01): 020208, DOI: <https://doi.org/10.1063/5.0163368>, ISSN: 1551-7616. (Scopus & WoS)
- 26.** Irfan, D., Varadharajan, S., Mateen, S., Mobasshir, S.M., Kumar, A. and Shukla, B.K. (2023) “Study of Growth of Steel, Steel Infrastructure & Steel Industries in India”. AIP Conference Proceedings, 2800(01): 020209, DOI: <https://doi.org/10.1063/5.0163369>, ISSN: 1551-7616. (Scopus & WoS)
- 27.** Bharti, G., Kumar, A., Shukla, B.K., Manjunath, B.N., Tripathi, A., Shenoy, A. and Harukadli, P. (2023) “Impact of Copper and Steel Slag Blend in Strengthening Mechanical Properties of Black Cotton Soil”. AIP Conference Proceedings, 2800(01): 020241, DOI: <https://doi.org/10.1063/5.0163441>, ISSN: 1551-7616. (Scopus & WoS)
- 28.** Bharti, G., Shukla, B.K., Kumar, A., Manjunath, B.N., Bansal, V. and Varadharajan, S. (2023) “Effect of Implementation of Waste Shredded Plastic on Construction of Flexible Pavement”. AIP Conference Proceedings, 2800(01): 020240, DOI: <https://doi.org/10.1063/5.0163440>, ISSN: 1551-7616. (Scopus & WoS)
- 29.** Shukla, B.K., Maurya, N., Sharma, M. (2023) “Advancements in Sensor-Based Technologies for Precision Agriculture: An Exploration of Interoperability, Analytics and Deployment Strategies”. Engineering Proceedings, 58(1):22 DOI: <https://doi.org/10.3390/ecsa-10-16051>. (Scopus)
- 30.** Maurya, N., Srivastav, Y., Rawat, S., Sharma, M., Srivastava, R., Sihag, P. and Shukla, B.K. (2023) “Augmenting Concrete Performance and Sustainability with Recycled Glass: A Critical Examination of Material Characteristics and Construction Applications”. AIP Conference Proceedings, 3050(01): 040010, DOI:

<https://doi.org/10.1063/5.0193663>, ISSN: 1551-7616. (Scopus & WoS)

31. Rawat, S., Shukla, B.K., Sihag, P., Srivastav, Y. and Singh, H.K. (2023) “Environmental Effects and Sustainable Hydropower Development: A Review of Deployment Research, Environmental Valuation and IoT Sensors Integration”. AIP Conference Proceedings, 3050(01): 040008, DOI: <https://doi.org/10.1063/5.0193662>, ISSN: 1551-7616. (Scopus & WoS)

### **Conference Publications :2023**

1. Shukla, B.K., Gupta, A., Gowda, S. and Rawat, S. (2023) “Incorporation of Non-Conventional Aggregates in Concrete-A Comprehensive Review”. Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
2. Yadav, S., Yadav, S., Singh, T., Yadav, S., Rajput, S. and Shukla, B.K. (2023) “Current Status and Future Research Prospects in 3D Concrete Printing for Sustainable Construction”. Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
3. Gautam, A.K., Singh, G., Chaudhary, M., Narayan, V., Dhariwal, D., Shukla, B.K., Varadharajan, S. and Tripathi, A. (2023) “Eco-Friendly Precast Concrete Construction Techniques: A Methodological Review”. Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
4. Sharma, M., Singh, M.K., Yadav, M., Yadav, V., Gupta, S., Shukla, B.K., Bharti, G. and Hurukadli, P. (2023) “Application Of Sustainable Materials in Self-Compacting Concrete: A Comprehensive Review”. Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
5. Gupta, Y., Patel, T., Singh, S., Verma, S., Panwar, S., Shukla, B.K. and Varadharajan, S. (2023) “Overview of the Utilisation of Construction and Demolition Waste in the Production of Concrete”. Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
6. Kumar, P., Soni, S., Khan, S.M., Agrawal, S., Srivastav, R., Shukla, B.K., Varadharajan, S. and Tripathi, A. (2023) “Overview of Application of Geopolymer Concrete in Construction”. Proceedings of UKIERI Concrete Congress: Sustainable

Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.

7. Rawat, N., Sharma, P., Singh, S., Rao, M.G., Singh, S., Shukla, B.K. and Hurukadli, P. (2023) "A Conceptual Overview of Stability Analysis and Design of Chenab Railway Bridge". Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
8. Gupta, U., Singh, S., Mansoori, M.S., Yadav, A., Tyagi, S., Shukla, B.K. and Bharti, G. (2023) "Exhaustive Analysis of Eco-Friendly Green Concrete Construction Practices". Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
9. Shukla, S., Singh, U., Singh, P., Samim, M., Pandey, S., Tripathi, A., Shukla, B.K. and Varadharajan, S. (2023) "A Methodological Assessment of Mix-Designs of Self-Compacting Concrete". Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
10. Maurya, N., Srivastav, Y., Rawat, S., Ranjan, Y., Srivastav, R., Shukla, B.K. and Varadharajan, S. (2023) "Application of Waste Glass in the Production of Concrete and its Impact on Strength and Durability for Green Civil Infrastructure". Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
11. Shukla, B.K., Gupta, A., Gowda, S. and Srivastav, Y. (2023) "Recycling Fly Ash as Construction Material: An Environmentally Sustainable Approach". Proceedings of UKIERI Concrete Congress: Sustainable Concrete Infrastructure at NIT Jalandhar, Punjab. March, 2023.
12. Singh, N., Shukla B.K., and Pandey, A.K. (2023) "A Technological and Environmental Overview on Waste-to-Energy Systems for Effective Municipal Solid Waste Management". Proceedings of International Conference on International Conference on Innovations in Clean Energy Technologies (ICET 2023) at NIT Bhopal, India. April, 2023.
13. Shukla B.K., Pandey, A.K., Singh, A., Singh, D. and Anas, M. (2023) "A Holistic Review on Energy Efficient Green Buildings considering Environmental, Economy and Technical Factors". Proceedings of International Conference on International Conference on Innovations in Clean Energy Technologies (ICET 2023) at NIT Bhopal, India. April, 2023.

- 14.** Shukla, B.K., Shamra, P.K. and Goel, A. (2023) “Application of Membrane Aerated Biofilm Reactors in Treatment of Municipal and Industrial Wastewater: Present Trends, Challenges and Future Prospects”, Proceedings of International Conference on Recent Advances In Fundamental And Applied Sciences (RAFAS-2023), Lovely Professional University, Phagwara, Punjab, India, June, 2023.
- 15.** Pandey, A.K., Rawat, A.K. and Shukla, B.K. (2023) “Optimal Management of Voltage, Current and State of Charge of Li-ion Battery Pack”, Proceedings of International Conference on International Conference on Innovations in Clean Energy Technologies (ICET 2023) at NIT Bhopal, India. April, 2023.
- 16.** Patel, N., Pandey, A.K., Tripathi, M. and Shukla, B.K. (2023) “Design and Simulation of a Small Agrivoltaic System”, Proceedings of International Conference on International Conference on Innovations in Clean Energy Technologies (ICET 2023) at NIT Bhopal, India. April, 2023.
- 17.** Singh, N. and Shukla, B.K. (2023) “An Overview on Healthy, Intelligent and Sustainable Green Buildings”. Proceedings of International Conference on Systems, Control and Automation (ICSCA-2023) at NIT Kurukshetra, Haryana. May, 2023.
- 18.** Shukla, B.K., Goel, A. and Sharma, P.K. (2023) “A Compendious Study on Impact of Aeration in Submerged Membrane Bioreactors for Wastewater Treatment”. Proceedings of International Conference on Recent Advances in Sustainable Environment (RAiSE 2023) at Bundelkhand University, Jhansi, Uttar Pradesh, May, 2023.
- 19.** Shukla, B.K., Bharti, G., Nagavi, J.C., Hurukadli, P., Gupta, A. and Sharma, P.K. (2023). “Enhancing the Stability of Black Cotton Soil through Reinforcement with Fly Ash and Bagasse Ash Mixtures: A Comprehensive Overview”. Proceedings of 4th International Conference on Environmental Goetechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE – 2023) at NIT Jalandhar, Punjab, October, 2023.
- 20.** Shukla, B.K., Bharti, G., Shamanth, S., Sharma, P.K., Gowda, S., Singh, D., Pandey, A., Srivastava, P., Mishra, S. and Singh, S.K. (2023). “Extensive Evaluation of Eco-Friendly Green Concrete Construction Procedures Utilizing Recycled Waste Materials”. Proceedings of 4th International Conference on Environmental Goetechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE – 2023) at NIT Jalandhar, Punjab, October, 2023.

- 21.** Shukla, B.K., Sharma, P.K., Bharti, G., Gupta, A., Singh, A., Patel, T., Jaiswal, B.P. and Singh, C.K. (2023). “A Methodological Evaluation of Mixed Designs for Self-Healing Concrete”. Proceedings of 4th International Conference on Environmental Goetechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE – 2023) at NIT Jalandhar, Punjab, October, 2023.
- 22.** Shukla, B.K., Saraswat, R., Bharti, G., Sharma, P.K., Singh, D., Srivastava, P.K., Yadav, P. and Mishra, S. (2023). “Soil Stabilization through Microbial Bioenzymes: A Comprehensive Review of Recent Developments in Eco-Friendly Approaches”. Proceedings of 4th International Conference on Environmental Goetechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE – 2023) at NIT Jalandhar, Punjab, October, 2023.
- 23.** Shukla, B.K., Sharma, P.K., Sharma, C., Srivastav, Y. and Rawat, S. (2023) “Water Quality Monitoring using IoT Embedded Smart Technology: Trends, Approaches and Challenges”. Proceedings of National Conference on Internet of Things & Embedded Systems (NCIE-2023) at NIT Kurukshetra, Haryana. February, 2023.
- 24.** Shukla, B.K., Sharma, P.K., Sharma, C., Singh, A. and Agarwal, G. (2023) “Smart Water Management Systems using IoT and Artificial Intelligence: An Overview”. Proceedings of National Conference on Internet of Things & Embedded Systems (NCIE-2023) at NIT Kurukshetra, Haryana. February, 2023.
- 25.** Shukla, B.K., Sharma, P.K., Sharma, C., Tripathi, A. and Singh, N. (2023) “Application of IoT and Building Information Modeling in Construction, Performance, Maintenance and Structural Health Monitoring of Buildings”. Proceedings of National Conference on Internet of Things & Embedded Systems (NCIE-2023) at NIT Kurukshetra, Haryana. February, 2023.
- 26.** Shukla, B.K., Singh, D., Pandey, A., Yadav, P. and Patel, A.S. (2023) “Empowering Smart Building Advancement through IoT: Present Innovations, Obstacles and Forthcoming Opportunities”. Proceedings of National Conference on Sustainable Development of Smart Cities Infrastructure (SDSCI-2023) at NIT Kurukshetra, Haryana. May, 2023, ISBN: 978-93-90951-64-2.
- 27.** Shamanth, S., Bharath, B., Shukla, B.K., Patel, T., Singh, A., Singh, C.K. and Jaiswal, B.P. (2023) “Exploring Sustainable Design and Energy Efficiency in Green Buildings: Integrating Digital Twins and Renewable Energy Solutions for Smart City Development”. Proceedings of National Conference on Sustainable Development of Smart Cities Infrastructure (SDSCI-2023) at NIT Kurukshetra,



Haryana. May, 2023, ISBN: 978-93-90951-64-2.

28. Shukla, B.K., Singh, D., Singh, S.K., Srivastava, P.K. and Mishra, S. (2023) “Sustainable Construction Applications: An Integrative Approach to Reusing and Recycling Construction and Demolition Waste Materials”. Proceedings of National Conference on Sustainable Development of Smart Cities Infrastructure (SDSCI-2023) at NIT Kurukshetra, Haryana. May, 2023, ISBN: 978-93-90951-64-2.
29. Shukla, B.K., Singh, A., Patel, T., Singh, C.K. and Jaiswal, B.P. (2023) “3D Concrete Printing: Advancements, Process Insights and Implications for Sustainable and Customized Construction”. Proceedings of National Conference on Sustainable Development of Smart Cities Infrastructure (SDSCI-2023) at NIT Kurukshetra, Haryana. May, 2023, ISBN: 978-93-90951-65-9.
30. Shukla, B.K. and Singh, N. (2023) “Integrating IoT and Machine Learning for Efficient Urban Transportation: A Comprehensive Analysis of Smart Public Transit Solutions and Strategies for Sustainable Smart City Infrastructure”. Proceedings of National Conference on Sustainable Development of Smart Cities Infrastructure (SDSCI-2023) at NIT Kurukshetra, Haryana. May, 2023, ISBN: 978-93-90951-65-9.

### **Journal Publications: 2022**

1. Sharma P.K.;Garg A.;Shukla B.K, “Compressive Strength Enhancement of Pervious Concrete Using Polymer Fiber”, Journal of Physics: Conf. Ser., Volume 2267, Year 2022. (SCOPUS)
2. Shenoy A.;Bansal V.;Shukla B.K., “Treatability of effluent from small scale dye shop using water hyacinth”, Materials Today: Proceedings, Volume 61, Year 2022, Pages 579-586. (SCOPUS)
3. Shenoy A.;Shukla B.K.;Bansal V, “Sustainable design of textile industry effluent treatment plant with constructed wetland”. Materials Today: Proceedings, Volume 61, Year 2022, Pages 537-542. (SCOPUS)
4. Bharti G.;Shukla B.K.;Srinivasan V.;Bansal V, “Experimental study on eccentrically loaded rectangular footing on sand for embedded condition to enhance serviceability of structures”, Materials Today: Proceedings, Volume 61, Year 2022, Pages 517-522. (SCOPUS)
5. Arya P.;Patel S.B.;Bharti G.;Shukla B.K.;Hurukadli P., “Impact of using a blend of bagasse ash and polyester fiber in black cotton soil for improvement of mechanical

and geotechnical properties of soil”, *Materials Today: Proceedings*, Volume 78, Year 2022, Pages 738-743.

6. Hurukadli P.;Bharti G.;Shukla B.K., “Behavior of fiber reinforced polymer laminates strengthening prestressed concrete beams” *Materials Today: Proceedings*, Volume 78, Year 2022, Pages 731-737.

### **Conference Publications :2022**

31. Bansal V.;Shukla B.K., “Application of Urea Formaldehyde Raisin in Pavement Subgrade Stabilization at Hindon Barrage”, *ournal of Physics: Conference Series*, Volume 2267, Year 2022.
32. Bansal V.;Shukla B.K., “Effects of Modifiers on the Properties of Asphalt for Sustainable and Improved construction of Flexible Pavements”, *Journal of Physics: Conference Series*, Volume 2267, Year 2022.

### **Journal Publications: 2021**

1. Bishnu Kant Shukla, “An Analytical investigation of surface Water Quality and pollution status in Srinagar, J&K”, India, *Journal of Green Engineering*, ISSN: 1904-4720, Issue 1, January-2021. (SCOPUS)
2. Bishnu Kant Shukla, “Analysis of Traffic Flow Characteristics Based on Area Occupancy Concept on Urban Arterial Roads Under Heterogeneous Traffic Scenario—A Case Study of Tiruchirappalli City”, *Lecture Notes in Civil Engineering*, ISSN: 2366-2557, Volume: 149, June -2021. (SCOPUS)
3. Varadharajan. S, “3D bioprinting for esophageal tissue regeneration : A review”. ISSN: 08842914, *Journal of Materials Research*, 2021. (SCI)
4. Varadharajan. S, “Extracellular Matrix Extraction Techniques and applications in biomedical engineering”, ISSN: 2325-9620, *Regenerative medicine*, 2021. (SCI)

### **Conference Publications :2021**

33. Gaurav Bharti, “Analysis of eccentrically loaded rectangular footing on granular soil for surface condition”, *RAFAS*, 2021.
34. Prasad Bishetti, Manjunath B N, Siddharth G, “Suitability of Durian dust as alternate as FA in concrete”, *National Conference on Smart Building materials, Trenchless technology, Intelligent materials in manufacturing*, Sept- 2021. (nCASTTIM)

35. Varadharajan Srinivasan, Bishnu Kant Shukla, Gaurav Bharti and Animesh Jaiswal, Vijay Kumar Halakatti, “A Review on influence of replacing industrial wastes with fine aggregate in concrete”, National Conference on Smart Building materials, Trenchless technology, Intelligent materials in manufacturing, Sept- 2021. **(nCASTTIM)**
36. Varadharajan Srinivasan, Bishnu Kant Shukla, Gaurav Bharti, Vijay Halakatti and Animesh Jaiswal, “Review of Utilization of C& D waste in concrete”, National Conference on Smart Building materials, Trenchless technology, Intelligent materials in manufacturing, Sept-2021. **(nCASTTIM)**
37. Varadharajan Srinivasan, Bishnu Kant Shukla, Gaurav Bharti, Vijay Halakatti and Animesh Jaiswal, “Applications and Study of creep properties of self compacting concrete” National Conference on Smart Building materials, Trenchless technology, Intelligent materials in manufacturing, Sept-2021. **(nCASTTIM)**
38. Bishnu Kant Shukla, Vaishnavi Bansal, Amit Tripathi, Varadharajan Srinivasan and Gaurav Bharti, “An overview of Foamed Concrete for Construction”, National Conference on Smart Building materials, Trenchless technology, Intelligent materials in manufacturing, Sept-2021. **(nCASTTIM)**
39. Bishnu Kant Shukla, Vaishnavi Bansal, Amit Tripathi, Varadharajan Srinivasan and Gaurav Bharti, Suryanash Rajput, “Approach for Management and Analysis for Solid Waste Generated in Srinagar, Jammu and Kashmir” National Conference on Smart Building materials, Trenchless technology, Intelligent materials in manufacturing, Sept- 2021. **(nCASTTIM)**
40. Bishnu Kant Shukla, Varadharajan Srinivasan, Gaurav Bharti, Amit Tripathi and Vaishnavi Bansal, “Adsorption and Leaching of Cypermethrin on Mountain Soil of North India”, National Conference on Smart Building materials, Trenchless technology, Intelligent materials in manufacturing, Sept-2021. **(nCASTTIM)**
41. Varadharajan Srinivasan, Kirthana Sv, Bishnu Kant Shukla and Gaurav Bharti, “Application of 3D printing of Plastics in Civil Engineering”, National Conference on Smart Building materials, Trenchless technology, Intelligent materials in manufacturing, Sept-2021. **(nCASTTIM)**
42. Vaishnavi Bansal, Bishnu Kant Shukla, Aparupa Shenoy, Srishti Yaduvanshi, Gaurav Bharti and Varadharajan Srinivasan, Saksham, “Analysis of Factors of Delay in Road Construction Projects”, National Conference on Smart Building materials,

Trenchless technology, Intelligent materials in manufacturing, Sept- 2021.  
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