

**Mr. Yaman Hooda**

**Designation** : Assistant Professor  
**Qualifications** : **P. hD.** (Pursuing – Delhi Technological University, New Delhi)  
**M. Tech** (Structural Engineering – GOLD Medallist, 2019)  
**B. Tech** (Civil Engineering – GOLD Medallist, 2015)



**Email ID** : yaman.fet@mriu.edu.in  
**Experience** : 4 Years+

**Research Interests:** Seismic Assessment, Structural Health Monitoring, Dynamics of Structures, Sustainable Concrete and Materials.

**Journal Publication Details:**

1. Yaman Hooda and Pradeep K. Goyal, 2021, "*Vulnerability Assessment of an Existing Hospital Structure towards Earthquake in New Delhi, India: A Case Study*", International Journal of Disaster Resilience in the Built Environment, Emerald Publishing. (Submitted) [Scopus Indexed].
2. Yaman Hooda and Haobam Derit Singh, 2021, "*Strength Parameters of Steel and Polymer Fibre – Reinforced Concrete*", Engineering Science and Technology, an International Journal, Elsevier. (Submitted) [Scopus Indexed].
3. Yaman Hooda and Haobam Derit Singh, 2020, "*Rheodynamic Concrete as a Progressive Viability in the field of Concrete Technology*", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-3, DOI: 10.35940/ijeat.B3798.029320 [Scopus Indexed].
4. Abhishek Dixit and Yaman Hooda, 2019, "*Experimental Evaluation on Compressive and Tensile Behaviour of Concrete utilizing GGBS, Fly Ash and Recycled Aggregates*", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-5, E7850068519/19©BEIESP [Scopus Indexed].

**Conference Publication Details:**

1. Yaman Hooda and Pradeep K. Goyal, 2021, "*Comparison of the Vulnerability Assessment of Step – Back Configuration and Set – Back Configuration Structures on Hill Slopes*", 2<sup>nd</sup> International Symposium on Disaster Resilience and Sustainable Development (DRSD – 2021), Asian Institute of Technology, Thailand; Disaster Risk Reduction and Resilience Building for Sustainable Society, International Journal of Disaster Resilience in the Built Environment, Emerald Publishing. (In Print) [Scopus Indexed].
2. Yaman Hooda and Pradeep K. Goyal, 2021, "*Seismic Assessment of a Hospital Building: A Case Study*", Community Based Research and Innovations in Civil Engineering (CBRICE – 2021), Manipal University, Jaipur, India; IOP Conf. Series: Earth and Environmental Science, 796 (2021) 012006, doi:10.1088/1755-1315/796/1/012006 [Scopus Indexed].
3. Yaman Hooda, Preeti Kuhar, Kaushal Sharma and Neeraj Kumar Verma, 2021, "*Emerging Applications of Artificial Intelligence in Structural Engineering and Construction Industry*", 1<sup>st</sup> International Conference on Mechatronics and Artificial Intelligence (ICMAI – 2021), SGT University, Gurugram, Haryana; Journal of Physics: Conference Series, 1950 (2021) 012062, doi:10.1088/1742-6596/1950/1/012062 [Scopus Indexed].
4. Preeti Kuhar, Kaushal Sharma, Yaman Hooda and Neeraj Kumar Verma, 2021, "*Internet of Things (IoT) based Smart Helmet for Construction*", 1<sup>st</sup> International Conference on Mechatronics and Artificial Intelligence (ICMAI – 2021), SGT University, Gurugram, Haryana; Journal of Physics: Conference Series, 1950 (2021) 012075, doi:10.1088/1742-6596/1950/1/012075 [Scopus Indexed].
5. Kaushal Sharma, Yaman Hooda, Preeti Kuhar and Neeraj Kumar Verma, 2021, "*Protection and Strengthening of Corroded Prestressing Tendons*", 1<sup>st</sup> International Conference on Mechatronics and Artificial Intelligence (ICMAI – 2021), SGT University, Gurugram, Haryana; Journal of Physics: Conference Series, 1950 (2021) 012076, doi:10.1088/1742-6596/1950/1/012076 [Scopus Indexed].

### **Research Supervised (M. Tech):**

1. Ms. Kavita Vaishnav on “Experimental Investigation of Strength Characteristics of PCM with Gypsum based Concrete Wall Panel” (2021 – Completed).
2. Mr. Lokesh Rajput on “Response and Design Studies of CFST, RCC and Steel Structure under Seismic and Wind Loads” (2021 – Completed).
3. Mr. Rohit on “Comparative Structural Analysis of Fire Water Pump House as per MNBC and IS Codal Provisions” (2021 – Completed).
4. Mr. Kartik Sharma on “Feasibility of Multistorey Post-Tensioned Timber Buildings: Detailing and Construction” (2020 – Completed).
5. Mr. Rahul Kumar on “Modify the Existing Structure Actual Behaviour” (2020 – Completed).

### **Book/ Chapter Publications:**

1. Kavita Vaishnav, Gift Pon Lazarus, Sunita Bansal and Yaman Hooda (2022), “*Review on Thermal Energy Efficiency Using Gypsum Integrated Phase Change Materials in Buildings*” (Book Chapter) – Advances in Construction Materials and Sustainable Environment, Lecture Notes in Civil Engineering, Vol. 196, Springer, DOI: 10.1007/978-981-16-6557-8.
2. Yaman Hooda, Sunita Bansal and Anjali Gupta (2022), “*Parametric Strength of Sustainable Concrete using Fly Ash, GGBS and Recycled Aggregates as per Taguchi's Approach*” (Book Chapter) – Advances in Construction Materials and Sustainable Environment, Lecture Notes in Civil Engineering, Vol. 196, Springer, DOI: 10.1007/978-981-16-6557-8.
3. Yaman Hooda (2021), “*IoT and Remote Sensing*” (Book Chapter) – Computer Vision and Internet of Things: Technologies and Applications, CRC Press, Taylor & Francis Group (In Print).

### **Administrative Responsibilities:**

1. Concrete Laboratory Coordinator, since October 2021.
2. Surveying and Geomatics Laboratory Coordinator, since October 2021.
3. Member of Grievance Committee, Department of Civil Engineering, since September 2021.
4. B. Tech: Project Phase I and Phase II Coordinator, since July 2021.
5. B. Tech: Research and Innovation Catalyst (RIC – I, II, III) Coordinator, since July 2021.
6. Department of Civil Engineering Website Coordinator, since July 2021.
7. B. Tech (Batch 2020 – 2024) Coordinator, since July 2021.
8. Course Coordinator of following courses:
  - a. Concrete Technology
  - b. Engineering Materials for Sustainability
  - c. Bridge Engineering
  - d. Structural Health Monitoring
  - e. Design of Industrial Structures
9. Member of Admission Committee, Department of Civil Engineering, since May 2021.
10. Departmental Club – “*The Sustainable Squad*” Coordinator, since March 2021.
11. Department of Civil Engineering Event Coordinator, since March 2021.

### **Professional Associations/ Affiliations:**

1. Lifetime Membership – Indian Concrete Institute.
2. Lifetime Membership – All India Council for Technical Skill Development.
3. Reviewer – International Journal of Civil Engineering.

### **Invited Lecture/ Session Chair:**

1. Yaman Hooda, 2021, “*Working Comparison of STAAD Pro Connect Edition and S5 Edition*”, SGT University, Gurugram.
2. Yaman Hooda, 2020, “*Civil Engineering – A Way Forward*”, Department of Civil Engineering, Anand Engineering College, Agra.

### Event Organised:

1. Organized an *Expert Talk on "State-of-the-art techniques for observing Earth from Space"* by Mr. Arnab Laha, Geoinformatics, Department of Civil Engineering, Indian Institute of Technology (IIT), Kanpur on November 22, 2021.
2. Organized an *International Expert Talk on "Geospatial Technologies for Disaster Monitoring and Creating Vulnerability Database"* on the occasion of "International Day for Disaster Reduction" by Prof. (Dr.) Nitin Kumar Tripathi, Remote Sensing and GIS; Director (Special Degree Program), School of Engineering and Technology, Asian Institute of Technology (AIT), Thailand on October 13, 2021.
3. Organized *"Techniek" – Engineer's Day Celebration 2021* at Faculty of Engineering and Technology level on September 15, 2021.
4. Organized *Expert Talk on "Importance of Quantity Surveying (Estimation and Costing)"* by Mr. Nishant Goswami, Director, Reinforced Quantity Surveyor and Training Pvt. Ltd. on August 16, 2021.
5. Organized *Slogan – cum – Poster Competition on "75th Independence Day of India"* on the occasion of India's Independence Day 2021. The deadline for submission was August 15, 2021 and the results were declared on August 17, 2021.
6. Organized *Expert Talk on "Linear Programming Approach for Sustainable Irrigation Scheduling: A Case Study"* by Prof. Hazi Azamathulla, Department of Civil and Environmental Engineering, St. Augustine, Trinidad and Tobago, University of West Indies on August 10, 2021.
7. Moderated *One – Week Online ATAL, AICTE FDP on "Contemporary Advances in Sustainable and Integrated Infrastructure"*, organized by Department of Civil Engineering, Faculty of Engineering and Technology, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana from August 02, 2021 to August 06, 2021.
8. Organized an *Expert Talk on "Smart Cities: Digital Metamorphosis of Civil Engineering"*, in association with Tickoo Institute of Emerging Technologies (TIET) on July 30, 2021.
9. Organized a *Webinar – cum – Expert Talk on "Glass as a Building and Construction Material"* in association with Confederation of Construction Products and Services (CCPS), delivered by Mr. Prमित Patel (Project Sales Manager, Sisecam Flat Glass, India) and Mr. Rishabh Maggirwar (Veltrotech, Saint Gobain) on June 26, 2021.
10. Organized an *Expert Talk on "Green Concrete: Need or Alternative"* on the occasion of World Environment Day 2021, delivered by Mr. Ratan Kumar Jha, Zonal Head – North, Customer Technical Services, J. K. Cement Ltd. on June 05, 2021.
11. Organized a *"Slogan – cum – Poster" Inter – University Competition on the theme of "Earth Day 2021"*.
12. Organized a *Quiz Competition on "Say No to Plastics" under "Elimination of Single-Use Plastic"*, PRAGATI Platform, Government of India, on April 02, 2021.
13. *Joint – Secretary in organizing "1st International Conference on Mechatronics and Artificial Intelligence – 2021"*, organised by Association of Engineers and Technocrats, Faculty of Engineering and Technology, SGT University, Gurugram, on February 26 – 27, 2021.
14. Organised *One – Week Faculty Development Program on "STAAD Pro – Connect Edition"* at Department of Civil Engineering, Faculty of Engineering and Technology, SGT University, Gurugram from February 15, 2021 to February 20, 2021 at SGT University, Gurugram.
15. Organised *National Webinar on "Fundamentals of Project Management"*, delivered by Ms. Yashita Arora, PMP Certified Professional, Ernst and Young LLP on December 09, 2020 at SGT University, Gurugram.
16. Organised *National Webinar on "Requirements for Execution of Government Works"*, delivered by Dr. Krishna Murari Soni, Retired Government Serviceman, Central Public Works Development (CPWD) on December 01, 2020 at SGT University, Gurugram.
17. Organised *National Webinar on "A Walk Through: GIS and Remote Sensing"*, delivered by Ms. Mehreen Khan, GIS Executive, SkyMap Global on November 28, 2020 at SGT University, Gurugram.
18. Organised *International Webinar on "Importance of Software in Civil Engineering"*, delivered by Mr. Vivek Singh, Professional Freelancer on November 25, 2020 at SGT University, Gurugram.
19. Organised *National Webinar on "Green or Eco – Friendly Concrete: Need or Alternative"*, delivered by Mr. Ratan Kumar Jha, Zonal Head – North, Customer Technical Services, J. K. Cement Ltd. on May 16, 2020 at SGT University, Gurugram.

20. Organized *Guest Lecture on “Latest Revision on National Building Code”* by Ms. Garima Bansal, Architect, Bureau of Indian Standards (BIS) on February 17, 2020 at SGT University, Gurugram.
21. Organized *Zonal Centre Workshop on 2D Drafting and Planning by Zonal Championship and E – Cell, IIT Bombay* on January 30 – 31, 2020 at SGT University, Gurugram.
22. Participated in *IIT Delhi Industrial Day 2019* on September 21, 2019 as a Representative from the Department of Civil Engineering, Faculty of Engineering and Technology, SGT University.

#### **Awards/ Fellowships:**

1. Young Researcher Award, Institute of Scholars, 2021.
2. Annual Scholarship, Amity University (Uttar Pradesh), 2019.
3. Gold Medallist – M. Tech (Structural Engineering), Amity University, 2019.
4. Gold Medallist – B. Tech (Civil Engineering), Manav Rachna International University, 2015.

#### **FDPs/ STTPs Attended:**

1. Successfully completed 1.5 Weeks NPTEL – ACITE FDP (12 Weeks of NPTEL Course) on “Design of Reinforced Concrete Structures” from July to October, 2021 with “*Elite Certification*”, organized by Department of Civil Engineering, IIT Kharagpur.
2. Successfully Completed One – week ATAL, AICTE FDP on "Innovation in Civil Engineering Materials & Techniques for Sustainable Development (ICEMTSD-2021)", organized by National Institute of Technology (NIT), Silchar from November 18, 2021 to November 22, 2021.
3. Completed One – Week FDP on "Leadership Mastery Through Self-Management" from July 19, 2021 to July 23, 2021, organized by Centre for Value Based Education, Delhi Technological University (DTU), New Delhi; in association with Heartfulness Education Trust.
4. Completed One – Week ISTE approved Short Term Training Program on "Structural Health Monitoring, Retrofitting and Rehabilitation" from July 12, 2021 to July 16, 2021, organized by Department of Civil Engineering, Sinhgad Technical Education Society's, RMD Sinhgad School of Engineering, Pune, Maharashtra.
5. Completed One – Week FDP on "Environment Protection and Pollution Mitigation for Sustainable Development" from July 05, 2021 to July 09, 2021, organized by Department of Rural Development, NITTTR Chandigarh.
6. Completed Six – Lectures Webinar Series on “Bridge Deck Erection Technology – Best International Practices”, organized by The Indian National Group of The International Association for Bridge and Structural Engineering (ING – IABSE) in association with International Association for Bridge and Structural Engineering (IABSE) and Institutions of Civil Engineers (ICE) from May 29, 2021 to July 03, 2021.
7. Completed 1 – Week FDP on "Latest Technological Developments in Civil Engineering”, organized by Department of Civil Engineering, Rajshree Group of Institutions and Hospitals, Bareilly (MHRD Funded) from June 21, 2021 to June 25, 2021.
8. Completed 1 – Week FDP on "Green Energy Sources and Clean Technologies”, organized by Department of Civil Engineering, NITTTR Chandigarh from June 07, 2021 to June 11, 2021.
9. Completed 1 – Week FDP on "Innovation in Design Construction and Rehabilitation of Bridges”, organized by Department of Civil Engineering, NITTTR Chandigarh from May 03, 2021 to May 07, 2021.
10. Completed 1 – Week FDP on "Ethics and Values in Technical Education in Context of NEP-2020”, organized by Centre for Value Based Education, Delhi Technological University, New Delhi from April 15, 2021 to April 19, 2021.
11. Completed 2 – Weeks FDP on "Advanced Construction Materials and Techniques for Roads, Buildings Bridges and other Civil Engineering Structures”, organized by Department of Civil Engineering, NITTTR Chandigarh from April 05, 2021 to April 16, 2021.
12. Completed 1 – Week FDP on "Repair and Rehabilitation of Structures”, organized by Department of Civil Engineering, NITTTR Chandigarh from March 15, 2021 to March 19, 2021.
13. Completed One Week FDP on “IoT and Artificial Intelligence Applications in Civil Engineering, organised by NITTTR – Chandigarh from December 07, 2020 to December 11, 2020.

14. Completed One Week Online Short-Term Training Programme (STTP) on “Structural Audit for Earthquake Safety” jointly organised by National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India and Department of Civil Engineering, Delhi Technological University, New Delhi from November 24, 2020 to November 28, 2020.
15. Completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Earthquake Engineering" organised by NITTTR – Chennai from September 21, 2020 to September 25, 2020.
16. Completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on " Green Technology & Sustainability Engineering" organised by National Institute of Technology Jamshedpur from September 14, 2020 to September 18, 2020.
17. Completed One Week FDP on “Smart Materials and Nanotechnology, organised by NITTTR – Chandigarh from August 31, 2020 to September 04, 2020.
18. Completed One Week Online FDP on “Sustainable Developments in Civil Engineering” organised by Vidyavardhaka College of Engineering, Mysuru from August 03, 2020 to August 08, 2020.
19. Completed AICTE Sponsored Short Term Training programme (STTP) on "Sustainable Transport for Smart Cities" organized by Department of Civil Engineering, St. Peter's college of Engineering and Technology, Avadi, Chennai from July 20, 2020 to July 25, 2020.
20. Completed One Week FDP on “Fundamentals of Concrete Technology”, organised by NITTTR – Chandigarh from July 20, 2020 to July 24, 2020.
21. Completed One Week Online FDP on “Sustainability Aspects and Recent Trends in Civil Engineering – The Future Scenario” organised by BMS Institute of Technology and Management, VTU, Bengaluru in association with Paradigm Environmental Strategies (P) Ltd, Bengaluru from July 14, 2020 to July 18, 2020.
22. Completed Four Days Online Course on “Design Thinking in Global Education Contemporary Teaching and Learning Techniques (Key Takeaways from the Singapore Model)” organised by Solaris Strategies, Singapore and Audacious Dreams Foundation.
23. Completed One Week Online Course on “Affordable Housing”, organised by NITTTR – Chandigarh June 22, 2020 to June 26, 2020.
24. Completed One Week Online Course on “Emerging Technologies in Civil Engineering”, organised by NITTTR – Chandigarh from June 08, 2020 to June 12, 2020.
25. Completed One Week Online Course on “Work Ethics, Motivational Climate & Attitude Development (SS-03)”, organised by NITTTR – Bhopal from June 01, 2020 to June 05, 2020.
26. Completed 3 – Days National Level Online FDP on “Rehabilitation and Retrofitting of Structures (R2S)”, organised by Department of Civil Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati from June 04, 2020 to June 06, 2020.
27. Completed National Level 1 Week FDP on “SCILAB – An open-source substitute for MATLAB”, organised by JNTUH College of Engineering, in association with Spoken Tutorial – IIT Bombay from May 25, 2020 to May 30, 2020.
28. Completed 3 – Days Online FDP on “Behaviour of Structural Systems – Bridging the Gap between the Theory and Real Time Practice”, organised by Department of Civil Engineering, Mohamed Sathak A J College of Engineering, Anna University, Chennai from May 22, 2020 to May 24, 2020.
29. Completed 6 – Days Online FDP on “Introduction to Fusion 360”, organised by ICT Academy – a Government of India initiative from April 30, 2020 to May 06, 2020.
30. Completed 5 – days FDP on “ICT Tools and Techniques for Teaching, Learning Process and Institutes” under Digital India (Govt. of India Initiative for Employability Enhancement) jointly organized by MNIT, Jaipur; IITDM, Jabalpur; NIT Patna; IIT Guwahati and NIT Warangal from January 13, 2020 to January 17, 2020.