

Dr. Dilawar Husain

Permanent Address:

C/o Mr. Amjad Ali
441/206 Harinagar
Balaganj Lucknow,
Uttar Pradesh 226003

Email: dilawar4friend@gmail.com,
dilawarhusain@mmantc.edu.in

Mobile: +91-7275516213
+91-9028254549



Dilawar Husain

Career Objective

"To be in a position in a result-oriented organization that seeks an ambitious and career conscious person where acquired skills and education will be utilized towards continuous growth and advancement."

Educational Profile

Doctorate of Philosophy Motilal Nehru National Institute of Technology, Allahabad, India	2020
Master of Technology, Thermal Sciences, (CPI 8.556) Aligarh Muslim University, Aligarh, India	2013
Bachelor of Technology, Mechanical Engineering, (CPI 7.514) Aligarh Muslim University, Aligarh, India	2011
Secondary School Certificate, (74.20 %) Baby Martin Public Inter College, Lucknow, India	2005
High School Certificate, (69.33 %) Baby Martin Public Inter College, Lucknow, India	2003

Work Experience

- Worked as *Visiting Faculty* in “*Motilal Nehru National Institute of Technology, Allahabad*” from February 2014 to May, 2014.
- Worked as *Visiting Faculty* in “*Motilal Nehru National Institute of Technology, Allahabad*” from July 2019 to May, 2020
- Working as *Assistant Professor* in “*Maulana Mukhtar Ahmed Nadvi Technical Campus, Mansoor*” from January 2021 to till date.

Ph.D. Supervisor

- **Yakub Ansari** “Ph.D. Topic: Ecological Footprint Assessment and its Reduction for Indian Buildings”

- **Saud Anjum Mahevi** “Ph.D. Topic: Ecological Footprint Assessment of Ready-Mix Concrete: Replacement of Ordinary Cement with Bio cement”
- **Ansari Ismail Ateeque** “Ph.D. Topic: Ecological Footprint Assessment of Rigid Pavement”
- **Ansari Abu Usama** “Ph.D. Topic: Performance and Environ-Economic Assessment of Concrete using waste materials”

Project/Dissertation/Thesis

- **PhD Thesis:** “*Energy and Environmental Assessment of Academic Buildings*”
- **M. Tech. Dissertation:** “*Effect of Fuel Additive on Diesel Engine Performance*”
- **B. Tech Project:** “*Power Generation through IC Engine Exhaust*”

Publications

Journal Papers (SCI/Scopus/International)

1. **Dilawar Husain**, Kirti Tewari, Manish Sharma, Akbar Ahmad, Ecological Footprint Assessment of Modified Domestic Solar Water Heating System (*Accepted SCI indexed*)
2. Yakub Ansari; **Dilawar Husain**; Das, U.K.; Haloi, J.; Khan, N.A.; Ravi Prakash; Husain, M. Ecological Footprint Assessment of Concrete: Partial Replacement of Cement by Water Treatment Sludge & Stone Dust. *Sustainability* **2023**, 15(9), 7512; <https://doi.org/10.3390/su15097512> (*SCI indexed*)
3. Sajid Naeem, Arun V. Patil, Arif V. Shaikh, U. P. Shinde, **Dilawar Husain**, Md Tanwir Alam, Manish Sharma, Kirti Tewari, Shameem Ahmad, Aqueel Ahmed Shah, Syed Abbas Ali, Akbar Ahmad, "A Review of Cobalt-Based Metal Hydroxide Electrode for Applications in Supercapacitors", *Advances in Materials Science and Engineering*, vol. 2023, Article ID 1133559, 15 pages, 2023. <https://doi.org/10.1155/2023/1133559> (*Scopus Indexed*)
4. Ravi Prakash, **Dilawar Husain** “Energy-water nexus for thermal power generation in India: challenges and opportunities” *Environment, Development and Sustainability* 1-21 <https://doi.org/10.1007/s10668-023-03075-6> (*SCI indexed*)
5. Syed Sameer Hussain, Syed Abbas Ali, Altaf Hussain Bagwan, **Dilawar Husain**, Akbar Ahmad, "Prediction of CI Engine Emissions Fueled with Multiwalled Carbon Nanotube-Doped Waste Cooking Oil Biodiesel using Multilayer Neural Network", *Journal of Nanomaterials*, vol. 2023, Article ID 2508422, 9 pages, 2023. <https://doi.org/10.1155/2023/2508422> (*Scopus Indexed*)
6. Naveed Akhtar, Tarique Ahmad, **Dilawar Husain**, Ali Majdi, Md Tanwir Alam, Naveed Husain, Abhay Kumar S. Wayal, “Ecological footprint and economic assessment of conventional and geopolymer concrete for sustainable construction” *Journal of Cleaner Production* 380 (2022) 134910, <https://doi.org/10.1016/j.jclepro.2022.134910> (*SCI Indexed*)
7. Yakub Ansari, **Dilawar Husain**, Syed Mohammad Haadi, Jyotirmoy Haloi, Ravi Prakash “Life Cycle Ecological Footprint of Building: A Case Study of Low-Rise Tropical Residential Building” *International Journal of Environmental Science and Technology*, <http://dx.doi.org/10.1007/s13762-022-04518-9> (*SCI indexed*)
8. **Dilawar Husain**, Ravi Prakash, Akbar Ahmad (2022) “Lifecycle Ecological Footprint Reduction for a Tropical Building” *Advances in Civil Engineering*, Vol 2022, Article ID 4181715, <https://doi.org/10.1155/2022/4181715> (*SCI indexed*)

9. Ajay, Biswas; **Dilawar, Husain**; Ravi, Prakash “Life-cycle Ecological Footprint Assessment of Grid-Connected Rooftop Solar PV System” International Journal of Sustainable Engineering 14 (3) 2021, 529-538 <https://doi.org/10.1080/19397038.2020.1783719> (*Scopus indexed*)
10. Valipour Berenjestanaki, A., **Dilawar Husain** (2021). “Effect of Nitromethane and Jatropa Biodiesel on the Combustion, Performance and Emission Characteristics of Diesel Engine” International Journal of Automotive and Mechanical Engineering, 18(3), 8986–8997 <https://doi.org/10.15282/ijame.18.3.2021.11.0688> (*Scopus indexed*)
11. Manish Sharma, **Dilawar Husain**,(2021) “Exergo-economic environmental analysis of organic Rankine cycle” Materials Today: Proceedings, Volume 46, Part 20, 2021, Pages 10368-10371 <https://doi.org/10.1016/j.matpr.2020.12.539> (*Scopus indexed*)
12. **Dilawar Husain**, Ravi Prakash. “Ecological Footprint Reduction of Built Envelope in India” Journal of Building Engineering, 2019, 21, 278-286. <https://doi.org/10.1016/j.jobe.2018.10.018> (*SCI indexed*)
13. **Dilawar Husain**, Ravi Prakash. “Life Cycle Ecological Footprint Assessment of an Academic Building” Journal of The Institution of Engineers (India): Series A, 2019, 100 (1), 97-110 <https://doi.org/10.1007/s40030-018-0334-3> (*Scopus indexed*)
14. **Dilawar Husain**, Ravi Prakash. “Ecological Footprint Reduction of Building Envelope in a Tropical Climate” Journal of The Institution of Engineers (India): Series A, 2019 100 (1), 41-48 <https://doi.org/10.1007/s40030-018-0333-4> (*Scopus indexed*)
15. **Dilawar Husain**, Pulkit Garg Ravi Prakash, “Ecological footprint assessment and its reduction for industrial food products” International Journal of Sustainable Engineering, 14(1) 2021, 26-38, <https://doi.org/10.1080/19397038.2019.1665119> (*Scopus indexed*)
16. **Dilawar Husain**, Ravi Prakash. “Ecological Footprint Assessment and Reduction of an Academic Building in Shahdol (India)” European Journal of Sustainable Development Research. 2018; 2(4), 42. <https://doi.org/10.20897/ejosdr/3910>
17. **Dilawar Husain**, Sarvesh Shukla, Vivek Kumar Umrao, Ravi Prakash “Thermal Load Reduction with Green Building Envelope” Open Journal of Energy Efficiency, 2017, 6, 112-127 <http://www.scirp.org/journal/ojee> ISSN Online: 2169-2645

Book

1. Shams Parveen, **Dilawar Husain**, Ravi Prakash “Sustainable Systems for Cold Storage in the Tropical Climate” LAP Lambert Academic Publishing, ISBN: 978-620-3-46460-
2. **Dilawar Husain**, Aadhar Kaushik, Akbar Ahmad, Ravi Prakash “Sustainable Options for Insulation”, LAP Lambert Academic Publishing, ISBN 978-620-3-02936-9

Book Chapter

1. **Dilawar Husain**, Ravi Prakash; "Carbon reduction strategies for the built environment in a tropical city"; Urban Ecology-Emerging Patterns and Social-Ecological Systems 2020, (Chapter-9) Pages 145-162, (Elsevier). ISBN: 0128207310, 9780128207314, <https://doi.org/10.1016/B978-0-12-820730-7.00009-4> (17 July 2020) (*Scopus Indexed*)
2. Vishal Nawandar, **Dilawar Husain**, Ravi Prakash; “Ecological Footprint Assessment and Its Reduction for Packaging Industry” Assessment of Ecological Footprints, Environmental Footprints and Eco-design of Products and Processes, 2021 pages 41-78, (Springer Singapore), ISBN: 978-981-16-0096-8 https://doi.org/10.1007/978-981-16-0096-8_2 (*Scopus indexed*)
3. Rahul SinghYadav, **Dilawar Husain**, Ravi Prakash; “Sustainability improvement opportunities for an industrial complex” Methods in Sustainability Science: Assessment, Prioritization, Improvement, Design and Optimization, 2021, Pages 215-226, <https://doi.org/10.1016/B978-0-12-823987-2.00005-2> (*Scopus indexed*)

4. **Dilawar Husain**, Ansari Abu Usama, Ismail Ansari A. S. A., Manish Sharma, Akbar Ahmad and Ravi Prakash, “Life Cycle Ecological Footprint Reduction for a Residential Building” Chapter-4, Books, Environment & Energy, Environmental Science, Engineering and Technology, Environmental Sciences, Newly Published Books, Nova, Science and Technology, Special Topics, ISBN: 978-1-68507-548-4
5. **Dilawar Husain**, Akbar Ahmad, Manish Sharma, Kirti Tewari and Ravi Prakash, “Ecological Footprint of Jatropha Biodiesel Production at Low Scale” Chapter-5, Books, Environment & Energy, Environmental Science, Engineering and Technology, Environmental Sciences, Newly Published Books, Nova, Science and Technology, Special Topics, ISBN: 978-1-68507-548-4
6. **Dilawar Husain**, Kirti Tewari, Manish Sharma, M., Ahmad, A., Ravi Prakash, (2022). Ecological Footprint of Multi-silicon Photovoltaic Module Recycling. In: Muthu, S.S. (eds) Environmental Footprints of Recycled Products. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-16-8426-5_3 (*Scopus indexed*)
7. Yakub Ansari, Abu Usama, **Dilawar Husain**, Manish Sharma, Ravi Prakash, (2022). Ecological Footprint Assessment of Recycled Asphalt Pavement Construction. In: Muthu, S.S. (eds) Environmental Footprints of Recycled Products. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-16-8426-5_5 (*Scopus indexed*)
8. Sajid Naeem, **Dilawar Husain**, Tewari, K., Zafar, N., Alam, M.T., Hussain, N. (2023). Carbon Footprint of Pipe Production Using Waste Plastics. In: Muthu, S.S. (eds) Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_1 (*Scopus indexed*)
9. Tauseef Ahmed, **Dilawar Husain**. (2023). Enviro-Economic Assessment of Plastic Cell-Filled Concrete Pavement. In: Muthu, S.S. (eds) Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_2 (*Scopus indexed*)
10. Md Salman Baig, **Dilawar Husain**. (2023). Carbon Footprint and Economic Assessment of LED Bulbs Recycling. In: Muthu, S.S. (eds) Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_3 (*Scopus indexed*)
11. Shameem Ahmad, **Dilawar Husain** (2023). Ecological Footprint Assessment of e-Waste Recycling. In: Muthu, S.S. (eds) Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_5 (*Scopus indexed*)
12. Yakub Ansari, **Dilawar Husain** (2023). Ecological Footprint Assessment of Concrete Using e-Waste. In: Muthu, S.S. (eds) Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_6 (*Scopus indexed*)
13. Mohd Akram, Salman Baig, Mahboob Ahmed, **Dilawar Husain**, Akbar Ahmad, Mohamed Haleem, Ravi Prakash (2023) Ecological Footprint Assessment of E-Learning in India, Book Online Learning Systems, Methods and Applications with Large-Scale Data, CRC Press, <https://doi.org/10.1201/9781003272823> (*Scopus indexed*)

Conference Papers

- 1 Yakub Ansari, **Dilawar Husain** Jyotirmoy Haloi “**Emerging Intelligent Techniques for Energy Managements in Smart Cities**”, Proceedings of 1st International Conference on Intelligent Energy Management in Smart Cities (ICIEMSC-2021, e-ISBN: 9788770227520, <https://doi.org/10.13052/rip-9788770227520>)
- 2 “**Energy Efficient Design of Cold Storage**” International Conference on Sustainable Development (ICSD), 2020 USA (online mode) <https://ic-sd.org/2020/11/21/proceedings-from-icsd-2020/>
- 3 “**Eco-friendly Cooling System Design for a Hostel Building**” International Conference on Sustainable Development (ICSD), 2020 USA (online mode) <https://ic-sd.org/2020/11/21/proceedings-from-icsd-2020/>

- 4 **“Techno-Economic Analysis of Renewable System for an Institutional Building”**, National Conference on Advances in Thermal Engineering Jadavpur University, Kolkata, held on 23th -24th, September 2016,
- 5 **“Energy Efficient Design of an Institutional Building in India”**, Global Conference on Renewable Energy (GCRE) NIT, Patna, held on 4th-6th March 2016
- 6 **“Energy Efficiency Evaluation of Hybrid Systems for a Temple Complex”** Geo-Engineering and Climate Change Technologies for Sustainable Environment Management (GCCT-2015) MNNIT, Allahabad, held on 9th – 11th October 2015
- 7 **“Energy Simulation of Renewable Energy Systems for a School Campus in India”** Geo-Engineering and Climate Change Technologies for Sustainable Environment Management (GCCT-2015) MNNIT, Allahabad, held on 9th – 11th October 2015

Workshop/FDP/Conference Organized

1. **Coordinator** of the **International Conference on Science Technology and Sustainability (ICSTS-2022)**; www.icsts.world

Area of Interest

My research work focuses on achieving the **United Nations Sustainability Goals** (Goal 7: Affordable and Clean Energy; Goal 9: Industry, Innovation, and Infrastructure; Goal 11: Sustainable Cities and Communities).

Workshop Attended

1. 3-day National Workshop on **“Research Methodology for Sustainable Built Environment”** at IIT Roorkee held on 16th to 18th October, 2014
2. 2-day National workshop on **“Physics of Passive House Design”** at NIT, Bhopal held on 18th-19th December, 2014
3. 5-day Short Term Course on **“Numerical and Optimization Techniques”** at MNNIT, Allahabad held on 8th – 12th September, 2016

Extra - Curricular

GATE Qualified in year 2011 and 2014

Computer Skill

Software Packages: IES-VE Software, RETScreen Software, eQuest Software

Personal Details

Name	:	DILAWAR HUSAIN
Father's Name	:	AMJAD ALI
Date of Birth	:	August 31, 1989
Gender	:	Male
Marital Status	:	Married
Nationality	:	Indian
Email	:	dilawar4friend@gmail.com

Mobile No : +91 7275516213

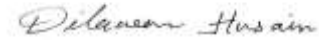
References

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| <p>1. Dr. Ravi Prakash
Professor
Mechanical Engineering Department
Motilal Nehru National Institute
of Technology, Allahabad (UP), India
rprakash@mnnit.ac.in
+91-9559023755</p> | <p>2. Dr. L.K. Mishra
Professor
Civil Engineering Department
Motilal Nehru National Institute
of Technology, Allahabad (UP), India
lkm@mnnit.ac.in
+91- 9936415588</p> |
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Declaration

I, hereby declare that the above particulars furnished by me are true to the best of my knowledge and belief.

Date: September 11, 2023
Place: Malegaon



(Dilawar Husain)