Dr. Abhishek Verma

Assistant Professor(SG)

Education: B.E. (Civil), M.Tech (Structural Engineering), Ph.D.

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Areas of Interest: Earthquake Resistant Design of Steel and RCC Structures, Pushover analysis and P-Delta analysis of structures, Recycled Aggregate concrete, Recent advancements in construction materials.

Brief Profile:

Dr Abhishek Verma is currently an Assistant Professor in the Department of Civil Engineering andcompleted his PhD from Jaypee University of Engineering and Technology in 2022. The main area of his research work was "A Study on the Influence of Pre-Treated Recycled Aggregate and Modified Two-Stage Mixing Approaches on the Performance of Standard Grade Concrete". He did his B.E in Civil Engineering from Shri Govindramsekseria Institute of Technology & Science (SGSITS), Indore (M.P.), in 2009. He completed his M.Tech from Maulana Azad National Institute of Technology, Bhopal (M.P), in 2013. His masters research was on "Analytical study of various structural engineering softwares and comparative study with the conventional approach".

He joined Jaypee University of Engineering and Technology, Guna as an Assistant professor (Grade-I) in the Department of Civil Engineering in January 2015. He has also work experience of about 3.5 years in various organizations like ESSAR GROUP as a Graduate Engineer Trainee (Gujarat), Acropolis Institute of Technology and Research (Indore) and NarseeMonji Institute of Management Studies as an Assistant Professor (Mumbai).

His area of interest is a recent advancement in concrete technology and earthquake-resistant steel and RCC structures, computer-aided analysis and design of underground and overhead water tanks and Advanced analysis like pushover analysis and P-Delta analysis of structures.

Short Term Programs / Workshops Attended

(i) One Week International Workshop on Durability of Concrete (IWODOC - 2020) organised by the Department of Civil Engineering, National Institute of Technology Karnataka, Surathkal, India during 26th- 30th October 2020.

(ii) Two-week ISTE workshop on fluid mechanics conducted by Indian Institute of Technology Kharagpur from 20th to 30th May 2014.

(iii) Two-week ISTE workshop on engineering mechanics conducted by Indian Institute of Technology Bombay from 26 Nov to 06 Dec 2013
(iv) Engineering faculty workshop conducted at R.C Patel institute of technology, Shirpur 9 to 11 Dec 2013 under mission 10x by Wipro

(v) Two days "National Workshop On Emerging Trends and Challenges in Civil Engineering" [April 9th and 10th, 2016] Organized by Department of Civil Engineering, Jaypee University of Engineering and Technology, Guna [M.P]

(vi)Presented a paper on the topic" "A study on futuristic Intelligent Transportation Systems & Smart Technologies in urban areas: A review" , International conference on recent advances in transport infrastructure {RAT-MANIT 201}, MANIT Bhopal, MP, INDIA February 13-14TH 2018

(vii) Member of organizing committee in the workshop on geotechnical investigations for embankments Organized by Department of Civil Engineering, Jaypee University of Engineering and Technology, Guna [M.P]

Awards and achievements

- Gate qualified in 2011 & 2012
- Membership of Professional Bodies
- Member of National Information Centre of Earthquake Engineering

Publication@JUET

Publication details google profile link

[1] Verma, A., SarathBabu, V., &Arunachalam, S. (2020). Influence of mixing approaches on strength and durability properties of treated recycled aggregate concrete. Structural Concrete, 22(S1), E121 E142. https://doi.org/10.1002/suco.202000221(SCI-E)

[2] Verma, A., SarathBabu, V., &Arunachalam, S. (2021). Strength and Durability Properties of Treated Recycled Aggregate Concrete by Soaking and Mechanical Grinding Method: Influence of Processing Technique. Journal of Materials in Civil Engineering(ASCE), 33(10), https://DOI: 10.1061/(ASCE)MT.1943-5533.0003908. (SCI-E)

[3] Verma, A., SarathBabu, V., &Arunachalam, S. (2022). Performance evaluation of concrete using treated recycled aggregates modified with mineral admixtures- influence of processings. European Journal of Environmental and Civil Engineering. (Accepted)(SCI-E)

[4] Verma, A., SarathBabu, V., &Arunachalam, S. (2022) Influence of acetic acid soaking and mechanical grinding treatment on the properties of treated recycled aggregate concrete. Journal of Material Cycles and Waste Management. https://doi.org/10.1007/s10163-022-01360-6. (SCI-E)

[5] Verma, A., SarathBabu, V., &Arunachalam, S. (2022) Influence of modified two-stage mixing approaches on recycled aggregate treated with a hybrid method of treatment. Australian Journal of Structural Engineering. https://doi.org/10.1080/13287982.2022.2048479. (E-SCI)

[6] Abhishek Verma., VelagaSarathBabu, and Srinivasan Arunachalam. "Characterization of recycled aggregate by the combined method: Acid soaking and mechanical grinding technique, Materials Today Proceedings (Elsevier). https://doi.org/10.1016/j.matpr.2021.01.842(Scopus indexed).

[7] Abhishek Verma, SumitVerma, "Seismic analysis of building frame using p-delta analysis and static & dynamic analysis: a comparative study" , i-managers Journal on Structural Engineering, Volume 8, Issue 2, pp 52-60, 2019.

[8] Abhishek Verma, Shiva Shankar Y, HarshitBapna, Lal SurnderKushwah and KshitijMudgal," Feasibility Studies for Developing Energy Efficient Building in the Juet Campus Using Solar and Biomass Energy" , current world environment ISSN: 0973-4929, Vol. 13, No. (3) 2018, Pg. 423-432

[9] PuneetGondal, Abhishek Verma, YogeshIyer Murthy, Uddeshya Mishra, "Experimental Study of Sisal and Jute fibre-based Biocomposite" , International Journal of Interdisciplinary Research and Innovations,ISSN 2348-1226, Vol. 6, Issue 4, pp: (398-404).

[10] Abhishek Verma, JeevanMeena, Krishna Murari,Ravindra Goliya, "Experimental Investigation on Durability Properties of Concrete Using Ceramic Waste Electric Insulator Powder as A Partial Replacement of Cement" , Journal of Material Science and Surface Engineering,ISSN (Online): 2348-8956, Volume 6, Issue 1, pp 733-738, 2018

[11] Abhishek Verma, Krishna Murari, ShivanshuAwasthi, ShivankKansal, Nitin Okte, YashGoyal, "Recycled Aggregate from C&D Waste Modified by Dry Processing and Used as A Partial Replacement of Coarse Aggregate in Concrete" , Journal of Material Science and Surface Engineering,ISSN (Online): 2348-8956, Volume 5, Issue 7, pp 671-678, 2017

[12] Abhishek Verma, Rachit Sharma, MonilShrivastava, Prashant, "Evaluation of Reclaimed Asphalt Pavement (RAP) In Flexible Pavement Layers" , World Journal of Engineering Research and Technology, Volume 3, Issue 2, Pp 91-104, 2017

[13] Abhishek Verma, JeevanMeena, "Experimental Study of Ceramic Waste Electric Insulator Powder Used as a Partial Replacement of Cement in Concrete" , Journal of Material Science and Surface Engineering,ISSN (Online): 2348-8956, Volume 5, Issue 4, pp 581-584, 2017.

[14] Abhishek Verma, Abhishek Gupta, Arun Yadav, Anant Jain, "Seismic Analysis of Structure with Varying Height and Soil Conditions" , In Proceeding of "4th International Conference On Challenges in Environmental Science and Technology "[IC-CEST 2016], Swami Vivekananda University, at Sagar, MP, India. P. 87, February 27th - 28th, 2016.

International conferences

- Attended a Virtual Conference on Disaster Risk Reduction-Civil Engineering for a Disaster Resilient Society conducted 15-20 March 2021.
- Presented a paper at an international conference on advancement in materials, manufacturing and energy engineering (ICAMME-2021) 18th-20th February 2021, organised by MANIT, Bhopal