

Dr. Bharat Bhushan Jindal

Assistant Professor, School of Civil Engineering
Shri Mata Vaishno Devi University, Katra, J & K.

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ABOUT SELF

Passionately Academician with 24+ years of experience of Teaching, Research, Industrial, and Academic Administration at Under Graduate and Post Graduate Courses in Universities / Engineering Institutions.

ACADEMIC SUMMARY

Qualification	Univ. / Institute	Year of Passing	%age marks
Ph.D. (Structures) in Civil Engineering	IKGPTU, Jalandhar	2018	NA
M.Tech. (Structures)	PTU, Jalandhar	2011	66.45%
M. Tech. (Soil Mechanics & Foundation Engg.)	PTU, Jalandhar	2010	58.00%
B.E. (Civil Engg.)	Nagpur University	1993	66.67%
10+2 (Non-Medical)	PSEB Mohali	1989	71.56%
Matriculation	PSEB Mohali	1987	70%

PROFESSIONAL EXPERIENCE SUMMARY

Teaching = 21 years

Industry = 3.5 years

Total = 24.5 years

Organization	Duration	Designation	Area
Shri Mata Vaishno Devi University, Katra, J & K.	Since Nov. 2018	Assistant Professor	B.Tech. & B.Arch.
Maharishi Markandeshwar University, Ambala, Haryana.	Jan 2015 – Nov. 2018	Associate Professor & Head of Department	B.Tech., In charge Research Wing
Baddi University of Emerging Sciences & Technology, Baddi, H.P.	Aug 13 – Dec 14	Associate Professor	Teaching M.Tech. (Structures), B.Tech.
Chandigarh University, Gharuan, Chandigarh	Jun 12- Aug 13	Associate Professor and Head of Civil Engg. Department.	Teaching B.Tech. Classes

Baddi University of Emerging Sciences & Technology, Baddi (Himachal Pradesh)	Dec. 11-June 12	Associate Professor	Teaching Civil Engg. Classes
M.M. University, Sadopur Ambala	One Semester	Associate Professor	Teaching B.Tech., B.Arch., M.Tech. (Structures)
Jaypee Cements Ltd.	1 Year 8 month	Deputy Area Manager	Technical Services
Ambuja Cements Limited	1 Year 10 Months	Assistant Manager	Customer Support Services (Technical)
Giani Zail Singh College of Engg. & Technology, Bathinda	1 Year 3 Months	Lecturer Civil Engg.	Teaching B.Tech. Classes
Shelter Architos, Bathinda	11 Years 7 Months	Associate Engineer	Consultant
Megamind Physics Centre		Assistant Professor	Competitive Classes

RESEARCH WORK

Ph.D. Thesis:

“Permeability and Strength Characteristics of Geopolymer Concrete”,
Punjab Technical University, Kapurthala.

Advisors: Dr. Sanjay K. Sharma, Professor, Department of Civil Engineering
NITTTR Chandigarh.

Dr. Dharendra Singhal, Professor & Chairperson, Deenbandhu Chottu Ram
University of Science and Technology, Murthal, Haryana.

Masters Dissertations:

· M.Tech. (Structures): *Comparative Study of Design of Water Tanks with Reference to*
IS: 3370.

Advisors: Dr. Dharendra Singhal, Professor, Department of Civil Engineering
Giani Zail Singh College of Engineering Bathinda.

· M.E. (Soil Mechanics
and Foundation Engg.): *Effect of Pond Ash, Rice Husk Ash, Cement and*
Phosphogypsum on CBR Value of Silty Soil.

Advisors: Dr. J.N. Jha, Professor, Department of Civil Engineering
Dr. K.S. Gill, Associate Professor, Department of Civil Engineering
Guru Nanak Dev Engineering College, Ludhiana.

PATENTS FILED:

1. Patent Titled “Composition of high compressive strength low calcium fly ash based geopolymer concrete incorporating Alccofine 1203” filed with IPR India with **Patent Application Number: 201711012671** dated 6th April 2018.

2. Patent Titled “Development of Energy Efficient Fly Ash Based Translucent Concrete” filed with IPR India with **Patent Application Number: 201911001991** dated 17th January 2019.

Book Published:

1. Comparative study of design of water tanks with reference to IS: 3370, Authors: Bharat Bhushan Jindal, Dharendra Singhal, LAMBERT Academic Publishing, ISBN: 978-613-9-91379-4.

MOOC NPTEL Certification:

1. Advanced Topics in the Science and Technology of Concrete (April 2019).
2. Hydration, Porosity & Strength of Cementitious Materials (April 2019).

Publications in International Journals:

1. Parveen, Dharendra Singhal, M. Talha Junaid, **Bharat Bhushan Jindal**, Ankur Mehta “Mechanical and Microstructural Properties of Fly Ash Based Geopolymer Concrete Incorporating Alccofine at Ambient Curing”, Vol. 180, August 2018, pp. 289-307, **Construction and Building Materials Journal, Elsevier, ESCI & SCOPUS Indexed, Impact Factor: 4.039**
2. **Bharat Bhushan Jindal** “Feasibility Study of Ambient Cured Geopolymer Concrete - A Review”, Vol. 6(4), August 2018, pp. 387-405, **Advances in concrete construction, An International Journal, Techno Press, SCI & SCOPUS Indexed, Impact Factor: 1.237.**
3. **Bharat Bhushan Jindal**, Dharendra Singhal, Sanjay Sharma, Parveen “Enhancing Mechanical and Durability Properties of GPC with mineral admixture”, Vol. 21(3), March 2018, pp. 345-353, **Computers and Concrete, An International Journal, SCI & SCOPUS Indexed, Impact Factor: 1.637.**
4. **Bharat Bhushan Jindal**, “Concrete Cloth: An Innovative Versatile Construction Materiall’, Vol. 1(5), March 2018, **Trends in Civil Engineering and it’s Architecture, USA.**
5. **Bharat Bhushan Jindal**, Parveen, Dharendra Singhal & Ajay Goyal, “Predicting Relationship between Mechanical Properties of Low Calcium Fly Ash-Based Geopolymer Concrete”, Vol. 76(4), January 2018, pp. 258-265, **Transactions of Indian Ceramic Society, A Taylor Francis Journal, SCIE & SCOPUS Indexed, Impact Factor: 0.761.**
6. **Bharat Bhushan Jindal**, Dharendra Singhal, Sanjay Sharma, Aniket Yadav, Shubham Shekhar and Abhishek Anand, “Strength and Permeation properties of Alccofine activated low calcium fly ash GPC”, Vol. 20(6), Dec. 2017, **Computers and Concrete, An International Journal, SCI & SCOPUS Indexed, Impact Factor: 1.637.**
7. Parveen, Dharendra Singhal, **Bharat Bhushan Jindal**, Atul Garg, “Mechanical Properties of Ground Granulated Blast Furnace Slag Based Geopolymer Concrete Incorporating Alccofine with Different Concentration and Curing Temperature”, Vol. 9(12), Nov. 2017, pp. 948-958, **Advanced Science, Engineering and Medicine, American Scientific Publishers.**

8. Parveen, Dharendra Singhal and **Bharat Bhushan Jindal**, “Experimental study on geopolymer concrete prepared using high-silica RHA incorporating Alccofine”, Vol. 5(4), August 2017, **Advances in concrete construction, An International Journal, Techno Press, SCI & SCOPUS Indexed, Impact Factor: 1.237.**
9. **Bharat Bhushan Jindal**, Sanjay K. Sharma, Dharendra Singhal and Parveen, “Prediction of Mechanical Properties of Alccofine Activated Low Calcium Fly Ash-Based Geopolymer Concrete”, Vol. 12(9), May 2017, pp. 3022-3031, **ARPN Journal of Engineering and Applied Sciences, SCOPUS Indexed.**
10. Parveen, Dharendra Singhal and **Bharat Bhushan Jindal**, “Preparation of geopolymer concrete (GPC) using high silica rice husk ash (RHA) incorporating Alccofine”, Vol. 9(5), May. 2017, pp. 370-376, **Advanced Science, Engineering and Medicine, American Scientific Publishers.**
11. **Bharat Bhushan Jindal**, Dharendra Singhal, Sanjay K. Sharma and Parveen, “Suitability of Ambient-Cured Alccofine added Low-Calcium Fly Ash-based Geopolymer Concrete”, Vol. 10(12), March 2017, pp. 1-10, **Indian Journal of Science & Technology, Thomson Reuter WoS Indexed.**
12. **Bharat Bhushan Jindal**, Dharendra Singhal, Sanjay K. Sharma, Deepankar K. Ashish and Parveen, “Improving compressive strength of low calcium fly ash geopolymer concrete with Alccofine”, Vol. 5(1), Feb. 2017, pp. 17-29, **Advances in concrete construction, An International Journal, Techno Press, SCI & SCOPUS Indexed, Impact Factor: 1.237.**

Publications in National Journals / National Conferences:

1. Nirpinder Jain and **Bharat Bhushan Jindal** “Analysis of Causal Factors of Accidents near Mahipalpur Junction on NH -8 in Delhi” published in IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), April 2016, ISSN: 2278-1684, presented in 3rd National Conference on Advances in Engineering, Technology & Management AETM’16, MM University, Ambala, Haryana.
2. **Bharat Bhushan Jindal**, Nirpinder Jain and Kamal Khetrapal “Stabilization of Silty Soil by Pond Ash, Rice Husk Ash, Cement and Phosphogypsum” published in IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), April 2016, ISSN: 2278-1684, presented in 3rd National Conference on Advances in Engineering, Technology & Management AETM’16, MM University, Ambala, Haryana.
3. **Bharat Bhushan Jindal**, Aniket Yadav, Abhishek Anand and Akashdeep Badal “Development of High Strength Fly Ash based Geopolymer Concrete with Alccofine” published in IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), April 2016, ISSN: 2278-1684, presented in 3rd National Conference on Advances in Engineering, Technology & Management AETM’16, MM University, Ambala, Haryana.
4. Charul Sharma and **Bharat Bhushan Jindal**, “Effect of variation of fly ash on the compressive strength of fly ash based Geopolymer Concrete” published in IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), April 2015, ISSN: 2278-1684, presented in National Conference on Advances in Engineering, Technology & Management (AETM’15), MM University, Ambala, Haryana.

5. **Bharat Bhushan Jindal** and Kamal Khetrupal, “Geopolymer Concrete – A Review”, published in SSRG International Journal of Civil Engineering (SSRG-IJCE), April 2015, ISSN: 2348-8352, presented in National Conference on “Emerging Fields in Engineering and Sciences” EFES-2015”, SDDIET Panchkula, Haryana.
6. Gaurav Goel and **Bharat Bhushan Jindal**, “Suitability of Steel Fiber Reinforced Concrete for RCC Water Tanks”, published in SSRG International Journal of Civil Engineering (SSRG-IJCE), April 2015, ISSN: 2348-8352, presented in National Conference on “Emerging Fields in Engineering and Sciences” EFES-2015”, SDDIET Panchkula, Haryana.
7. Kamal Khetrupal and **Bharat Bhushan Jindal**, “Effect of fly ash on CBR value of sandy soil”, published in SSRG International Journal of Civil Engineering (SSRG-IJCE), April 2015, ISSN: 2348-8352, presented in National Conference on “Emerging Fields in Engineering and Sciences” EFES-2015”, SDDIET Panchkula, Haryana.
8. Ajay Goyal, **Bharat Bhushan Jindal**, Devinder Sharma, “Energy Crisis and Sustainable Construction Practices- An Overview”, April 2013, presented in National Conference on “Advancements in Construction Technology & Management” NCACTAM-2013, IGCE Chandigarh.
9. Rishav Garg, Sanjay Kumar Mishra, Taranjeet Kaur and **Bharat Bhushan Jindal**, “Nanomaterials: A concrete revolution in Civil Engineering”, April 2013, presented in National Conference on “Advancements in Construction Technology & Management” NCACTAM-2013, IGCE Chandigarh.
10. Devinder Sharma, Ajay Goyal, Sanjay Sharma and **Bharat Bhushan Jindal**, “A Review on Alccofine-A New generation micro fine concrete material”, April 2013, presented in National Conference on “Advancements in Construction Technology & Management” NCACTAM-2013, IGCE Chandigarh.
11. **Bharat Bhushan Jindal** and Dhirendra Singhal, “Comparative Study of Design of Water Tank with reference to IS -3370”, presented and published in Proceedings of Innovative Challenges in Civil Engineering, GZSCET, Bathinda, 15-16 March 2012
12. **Bharat Bhushan Jindal** and Dhirendra Singhal, “Suitability of Steel Fiber reinforced concrete for water retaining structures”, presented and published in Proceedings of Innovative Challenges in Civil Engineering, GZSCET, Bathinda, 15-16 March 2012.
13. **Bharat Bhushan Jindal**, Ajay Goyal and Devinder Sharma, “Comparative study of design of rectangular water tanks with reference to IS-3370”, presented in National Conference on “New Innovations in Science, Technology and Management” NISTM-12, RITM, Savile Palwal, Haryana.
14. **Bharat Bhushan Jindal**, Ajay Goyal, Vaibhav Rajiv Sapkal and Rahul Sharma, “Enhancing strength properties of fly ash based geopolymer concrete with ultra-fine slag at ambient temperature”, 6th National Conference on Engineering Research & Applications, ERA-2019, Rayat Bahra University, Mohali, India.
15. Ajay Goyal, Devinder Sharma, **Bharat Bhushan Jindal**, M. Ashraf, “Pozzolanic Potential of Dry Leaf Ash and Utilization as Supplementary Cementitious Material”, 6th National Conference on Engineering Research & Applications, ERA-2019, Rayat Bahra University, Mohali, India.

Publications in International Conferences:

1. **Bharat Bhushan Jindal** and Ajay Goyal, “Predicting durability properties of rice husk ash based geopolymer concrete with Alccofine as mineral admixture” presented in International Conference on Advances in Science & Technology (ICAST-2018), March 16-18’2018, Rayat Bahra Ropar Campus, Ropar, Punjab.
2. Ajay Goyal, **Bharat Bhushan Jindal**, Devinder Sharma and OGATA Hidehiko, “Pozzolanic potential of Sugarcane Bagasse Ash as verified through TGA and XRD Techniques” published in the proceedings of International Multi Track Conference on Sciences, Engineering & Technical Innovations, IMTC14, CT Institute of Engineering Management & Technology, Jalandhar

Workshops / FDP/Refresher Courses / Seminars attended

1. A Week Long Short Term Course on Classroom Communication through ICT, 28th May – 1st June, 2018, NITTTR Chandigarh.
2. Participated in AICTE recognized Short Term Course on “Promoting Industry - Institute Integration through ICT conducted by Entrepreneurship Development & Industrial Coordination Department from 11th June to 15th June, 2018 (One Week), NITTTR Chandigarh.
3. AICTE recognized Short Term Course on Sustainable Development: Challenges and Opportunities through ICT, 12th Oct. – 16th Oct., 2015, NITTTR Chandigarh.
4. AICTE recognized Short Term Course on Environmental Engineering and Management through ICT, 03rd March – 7th March, 2014, NITTTR Chandigarh.
5. AICTE recognized Short Term Course on Induction Training Programme through ICT, 13th Jan. – 17th Jan., 2014, NITTTR Chandigarh.
6. Workshop on Recent Trends & Challenges in Civil Engineering (TEQIP-II Sponsored) on 25.04.2014 organized by Civil Engineering Department, PEC University of Technology, Chandigarh.

Trainings Attended

1. Participated in One Week (25th February to 1st March 2019) Short Term Training Programme on “Sustainability and Smart City Concept” sponsored by Department of Science & Technology, Delhi at NITTTR Chandigarh.
2. Participated in Training Programme on “Limit State Design of Steel Structures based on IS 800:2007 (Code of Practice for General Construction in Steel) organized by NITTTR Chandigarh in association with Institute for Steel Development & Growth (INSDAG), Kolkata at NITTTR Chandigarh from 29-31 October, 2014.

Professional Affiliations

1. Member American Society of Civil Engineering, USA
2. Member ASTM International, USA
3. Member Canadian Society of Civil Engineering (CSCE)
4. Member International Association of Engineers.

International Journal's Editorial Team

Associate Editor : Journal of Trends in Civil Engineering and Material Science (TCEM), USA
: American Journal of Construction and Building Materials, USA.
: SCIREA Journal of Civil Engineering and Building Construction

International Journal's Reviewer

1. Journal of Trends in Civil Engineering and Material Science (TCEM), USA
2. Construction and Building Materials, Elsevier
3. Journal of Building Engineering, Elsevier
4. Journal of Cleaner Production, Elsevier
5. Journal of Materials in Civil Engineering, ASCE Journal
6. Proceedings of the Institution of Civil Engineers - Construction Materials, Institutions of Civil Engineers,
7. Review on Research and Research Journal of Knowledge Publications

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