Dr.Yogesh Aggarwal

Assistant Professor
Department of Civil Engineering
National Institute of Technology
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Educational qualifications

Exam Passed	Univ./Board	Year of passing	% Age obtained
Ph.D.(Stuructures)	N.I.T.Kurukshetra	2012	
M.Tech(Structures)	R.E.C. Kurukshetra	1996	78.54
B.Tech (Civil)	R.E.C. Kurukshetra	1991	70.84
10+2	C.B.S.E.	1986	76.50
10	Haryana Board	1984	80.33

Topic of Ph.D: Strength Characteristics and Durability Studies of Concrete Incorporating Industrial by-products

Current areas of Interest

- Use of Industrial By-Products in Normal and High-Performance Concrete.
- Sustainable Development of Concrete using Waste Material.
- Use of Nano Silica, Micro Silica and Silica fume in Concrete.
- Application of Data Mining Techniques to study various properties of concrete.
- Institute Industry Projects for development of Light Weight and Low-Cost Concrete.
- Micro Structure Analysis, XRD and XRF Analysis of Concrete.

No. of completed years in service at NIT, Kurukshetra: 28 years 0 months

- **Supervised M.Tech. Dissertations = 35**

- **Supervising M.Tech. Dissertations = 02**

Reviewer

- Journal of Construction and Building Material, Elsevier Publications
- British Journal of Applied Science & Technology.
- Journal of Industrial & Engineering Chemistry.
- Advances in Computational Design, An International Journal, Techno-Press Journal
- Inorganic and Nano-Metal Chemistry Journal, Taylor & Francis, UK
- Resources, Conservation & Recycling, Elsevier Publications
- Cogent Engineering, Taylor & Francis, UK

Expert Lectures delivered

Title	Venue	Date
Innovative Sustainable Materials	One Week Workshop on Creative Thinking: Techniques tools and training, NIT Kurukshetra	23.02.24 27.02.24
Sustainable Development: Technical, Environmental and Social Feasibility	One Week Workshop on Creative Exploration and Empowerment, NIT Kurukshetra	13.09.23-19.09.23
Sustainable Construction Materials	One Week Workshop on Waste Management: A Key to Sustainable Earth) NIT Kurukshetra	January 11-15, 2023
Contemporary Advances in Sustainable and Integrated Infrastructure	Manav Rachna International Institute of Research and Studies, Faridabad	02.08.21 to 06.08.21
Design of Structures using Staad Pro	CED, NIT, KKR Advances in Structural Engineering2019	09-14, December, 2019
Earthquake effects on RCC Structures	Expert Lecture in Strengthening Capacities for Hazardous and Disaster Risk Management (SCHDRM-2018) NIT, Kurukshetra	06 May, 2018
High Strength Concrete	CED, NIT, KKR Advances in Structural Engineering2017	21.01.17
Analysis and Design of Structures using Staad Pro	DCRUST, MURTHAL	10.03.2015
Sustainable Development: Technical, Environmental and Social Feasibility.	NIT, Kurukshetra	13.09.23 to 19.09.23
Innovative Sustainable Materials	NIT, Kurukshetra	23.02.24 to 27.02.24

STC Organized

Title	Venue	Date
One Week Workshop on Creative Thinking: Techniques tools and training,	NIT Kurukshetra	23.02.24 27.02.24
One Week Workshop on Virasat-2024	NIT Kurukshetra	15.01.24-21.01.24
One Week Workshop on Creative Exploration and Empowerment (CEE 2023)	NIT Kurukshetra	13.09.23 to 19.09.23
5-day Workshop on Professional Skill Proficiency (PSP 2023)	NIT Kurukshetra	04.05.23 to 08.05.23
5-day Workshop on Professional Skill Development (PSD 2023)	NIT Kurukshetra	08.02.23 to 12.02.23
Stress Management Through Music and Mediation	Yogdhara NIT,Kurukshetra	01.02.23
One Week Workshop on EBSB (Ek Bharat Shreshtha Bharat Scheme	NIT Kurukshetra	10.09.22 to 15.09.22
Strengthening Capacities for Hazardous and Disaster Risk Management (SCHDRM-2018)	NIT, Kurukshetra	01-06 May, 2018
New Developments in Prefab Structures and Concrete Technology	NIT Kurukshetra	13 November 2018

Conference Organized

Title	Venue	Date
National Conference on Metacognition, Creativity & Divergent Thinking (NC-MCDT-2024)	NIT Kurukshetra	16-17 March, 2024

Session Chair in Conference

Title	Venue	Date
National Conference on Metacognition, Creativity & Divergent Thinking (NC-MCDT-2024)	NIT Kurukshetra Session 5 3.00 pm to 4.30 pm	16 March, 2024

List of Publications in Journals

1. International Journals

1. Yeluri, S.C., Singh, K., Kumar, A., Aggarwal, Y., Sihag, P., Estimation of Compressive Strength of Rubberised Slag Based Geopolymer Concrete Using Various Machine Learning Techniques Based Models, Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2024
2. Singh Yadav, S., Gupta, A., Gowda, S., Aggarwal, Y., Development of Maintenance Priority Index for Urban Road Network, Lecture Notes in Civil Engineering, 434, pp. 3-18, 2024
3. Singh Yadav, Saurabh, Gupta, Aakash, Gowda, Sachin and Aggarwal, Yogesh, Development of Maintenance Priority Index for Urban Road Network, Lecture Notes in Civil EngineeringVolume 434, Pages 3 - 182024 14th Conference on Transportation Planning and Implementation Methodologies for Developing Countries, TPMDC 2022Mumbai19 December 2022through 21 December 2022Code 305829.
4. A. Gupta, Y. Aggarwal, P. Aggarwal, Deep neural network and ANN ensemble for slope stability prediction, International Scientific Journal published monthly by the World Academy of Materials and Manufacturing Engineering, Volume 116, Issue 1, July 2022, Pages 14-27
5. Aman Garg, Paratibha Aggarwal, Yogesh Aggarwal, M.O.Belarbi, H.D.Chalak, Abdelouahed Tounsi & Reeta Gulia, Machine Learning Models for predicting the Compressive Strength of Concrete Containing Nano Silica, Computers and Concrete, Vol . 30, No. 1 July (2022) 33-42 https://doi.org/10.12989/cac.2022.30.1.033
6. Yogesh Aggarwal, Paratibha Aggarwal, Parveen Sihag & Ankit Kumar, Evaluation and Estimation of Compressive Strength of Concrete using hybrid Modeling Techniques, Iranian Journal of Science and Technology, Transactions of Civil Engineering, Springer, Vol.46, (2022), 3131-3145. https://doi.org/10.1007/s40996-021-00812-7
7. Parveen Sihag, Paratibha Aggarwal, Yogesh Aggarwal & Vinod Kumar, Discussion of "Evaluating the Performance of Self Organizing Maps to Estimate Well Watered Canopy Temperature for Calculating Crop Water Stress Index in Indian Mustard (Brassica Junceao: by Navsal Kumar, Vijay Shankar, Rabee Rustum & Adebayo J. Adeloye, Journal of Irrigation & Drainage Engineering, ASCE, Vol. 148(8) 1st August 2022, 1-3 https://doi.org/10.1061/(ASCE)IR.1943-4774.0001526

8. A Parashar, P Aggarwal, B Saini, **Y Aggarwal**, S Bishnoi, Study on performance enhancement of self-compacting concrete incorporating waste foundry sand, Construction and Building Materials, Elsevier Publications, 10.08.20, 251, 118875
9. Rishav Garg, Rajni Garg, Manjeet Bansal & **Yogesh Aggarwal**, Experimental study on strength and microstructure of mortar in presence of micro and nano-silica, Materials Today Proceedings 01.07.2020, Elsevier Publications, Vol. 43 (2021) 769-777.
10. **Y Aggarwal,** P Aggarwal, P Sihag, M Pal, A Kumar, Estimation of Punching Shear Capacity of Concrete Slabs Using Data Mining Techniques, International Journal of Engineering, Iran, Materials and Energy Research Center Publisher, Volume 32, Issue 7, pages 908-914. 01.07.19
11. Keenu Nayyar, Manjeet Bansal**, Yogesh Aggarwal,** Experimental Study in Various Properties of High Strength Self-Compacting Concrete Incorporating NanoSilica International Journal of Interdisciplinary Research and Innovations**,** Vol. 6, Issue 2, pp: (209-216), Month: April - June 2018
12. Keenu Nayyar, Manjeet Bansal**, Yogesh Aggarwal,** Experimental Approach in Various Possessions of High Performance Self-Compacting Concrete Incorporating NanoSilica**,** International Journal of Interdisciplinary Research and Innovations Vol. 6, Issue 2, pp: (229-233), Month: April - June 2018
13. Rishav Garg, Manjeet Bansal & **Yogesh Aggarwal,** Split Tensile Strength of Cement Mortar Incorporating Micro and Nano Silica at Early Ages, International Journal of Engineering Research & Technology (IJERT), Vol. 05, Issue 04, April-2016 pp 16-19 ISSN 2278-0181.
14. Rishav Garg, Manjeet Bansal & **Yogesh Aggarwal,** Strength Chloride Penetration and Microstructure Study of Cement Mortar Incorporating Micro and Nano Silica, International Journal of Electrochemical Science, 11(2016) April -2016, pp 3697-3713.
15. Paratibha Aggarwal, Rahul Pratap Singh and **Yogesh Aggarwal, Use** of nano-silica in cement-based materials—A review, Cogent Engineering, OA, Taylor and Francis, (2015), 2(1): 1078018 http://dx.doi.org/10.1080/23311916.2015.1078018, pp 1-11.
16. Paratibha Aggarwal, Rahul Pratap Singh and **Yogesh Aggarwal,** Effect of Nano-silica on Properties of Concrete, Concrete Plant International (CPI) April, 2015, 2, pp. 46-49.
17. **Yogesh Aggarwal,** Rafat Siddique**,** Micro structure and properties of concrete using bottom ash and waste foundry sand as partial replacement of fine aggregates, Construction and Building Materials, *Elsevier Publications,* 54, 2014, Pp 210-223. (**Impact Factor 3.169) ISSN: 0950-0618 SCI JOURNAL*[a]**
18. Paratibha Aggarwal, **Yogesh Aggarwal**, Rafat Siddique, Sakshi Gupta, Harshit Garg**,** Fuzzy Logic Modelling of Compressive Strength of High Strength Concrete (HSC) with Supplementary Cementitious Journal of Sustainable Cement-Based Materials, Taylor & Francis, Vol.2 No. 2, June 2013, 128-143 http://www.tandfonline.com/doi/full/10.1080/21650373.2013.801800 **ISSN: 2165-0373 (Print), 2165-0381 (Online)**
19. Rafat Siddique, Paratibha Aggarwal, **Yogesh Aggarwal**, Mechanical and durability properties of self-compacting concrete containing fly ash and bottom ash, Journal of Sustainable Cement-Based Materials, Taylor & Francis, Vol.1 No. 3, September 2012, 67-82. **ISSN: 2165-0373** (Print), 2165-0381 (Online)
20. Rafat Siddique, Paratibha Aggarwal, **Yogesh Aggarwal**, Influence of water/powder ratio on strength properties of self-compacting concrete containing coal fly ash and bottom ash, Construction and Building Materials, *Elsevier Publications,* 29, 2012,

Pages 73-81, (**Impact Factor 3.169) ISSN: 0950-0618** doi: 10.1016/j.conbuildmat.2011.10.035. SCI JOURNAL*[a]

21. Rafat Siddique, **Yogesh Aggarwal**, Paratibha Aggarwal, El-Hadj Kadri, Rachid Bennacer, Strength, durability, and micro-structural properties of concrete made with used-foundry sand (UFS), Construction and Building Materials, *Elsevier Publications,* 25, 2011, Pages 1916-1925, (**Impact Factor 3.169) ISSN:0950-0618** doi:10.1016/j. conbuildmat.2010.11.065. SCI JOURNAL*[a]
22. Rafat Siddique, Paratibha Aggarwal, **Yogesh Aggarwal**, Prediction of Compressive Strength of Self-Compacting Concrete containing bottom ash using artificial neural network, *Advances in Engineering Software*, *Elsevier Publications,* Volume 42, Issue 10, October 2011, Pages 780-786, **(Impact Factor 3.0) ISSN: 0965-9978** doi: 10.1016/j.advengsoft.2011.05.016. SCI JOURNAL*[b]
23. Yogesh Aggarwal, Prediction of Compressive Strength of Self-Compacting Concrete containing bottom ash using artificial neural network, World Academy of Science, Engineering and Technology, Vol-77,2011, pp 735-740
24. **Yogesh Aggarwal**, Rafat Siddique, Paratibha Aggarwal and S.M.Gupta A frame work for use of industrial by-products in concrete, CPI-Concrete Plant International, Vol., 6, Dec., 2009 pp 20-22. **ISSN No. 1437-9023**
25. Rafat Siddique, Paratibha Aggarwal, **Yogesh Aggarwal** and S.M.Gupta, Modeling Properties of Self-Compacting Concrete: Support Vector Machines Approach, *Computers and Concrete, Techno Press*, Vol-5, No.-5, 2008, pp 461-473 **ISSN: 15988198, 1598818X, H Index**: 9. SCI JOURNAL*[c] **(Impact Factor by 0.813)**
26. Paratibha Aggarwal, Rafat Siddique, **Yogesh Aggarwal** and S.M.Gupta, Self-Compacting Concrete- Procedure for Mix Design, *Leonardo Electronic Journal of Practices and Technologies, Issue 12* (*http://lejpt.academicdirect.org/A12/*) Jan-June, 2008, pp.15-24. **ISSN: 15831078**, H Index: 4
27. Yogesh Aggarwal, Modeling of Reinforcement in Concrete Beams Using Machine Learning Tools, Journal of World Academy of Science Engineering and Technology, Vol 32, 28.08. 2007. pp. 130-131
28. Rafat Siddique, Paratibha Aggarwal, **Yogesh Aggarwal** and S.M.Gupta, Modelling of the Properties of Self-Compacting Concrete, *CPI-Concrete Plant International,* Vol 6, 2007, pp. 53-59. **ISSN: 1437-9023**
29. Paratibha Aggarwal, **Yogesh Aggarwal** and S.M.Gupta, Effect of Bottom Ash as Replacement of Fine aggregates in Concrete, *Asian Journal of Civil Engineering, Iran*, Vol-8 No.-1, 2007 pp.39-52. **ISSN: 1563-0854 H Index 4.**
30. S.M. Gupta, Paratibha Aggarwal and **Yogesh Aggarwal**, Shrinkage of High Strength Concrete, *Asian Journal of Civil Engineering, Iran*, Vol-7, No.-2 April, 2006 pp.183-194. **ISSN: 1563-0854. H Index 4.**

2. National Journals

1. **Yogesh Aggarwal**, Paratibha Aggarwal, Vaibhav Sharma, Comparative Study of Concrete Mix Design using IS and ACI methods with and without Super-plasticizer, New Building Materials and Construction World, Vol-24, Issue No.1., July 2018, pp.186-198. ISSN: 0973-0591
2. Ranbir S. Khatana, Paratibha Aggarwal and **Yogesh Aggarwal** Utilization of super pozzolanic material in the production of self-compacting concrete**,** ICJ The Indian

Concrete Journal. Vol. 98(2) Feb. 2019, 52-60 Email: icj@acclimited.com info@icjonline.com Web www.icjonline.com

3. **Aman Sharma, Yogesh Aggarwal,** "Experimental Studies of properties of Concrete Using Bagasse Ash" Journal of engineering & Technology Education (ISSN 2229-631X) UGC approved journal (S.No. 6094; Journal No. 45339), Vol 11, No. 2 (July-December 2017).
4. **Yogesh Aggarwal** and S. Naveen Chander**.** Properties of Expanded Polystyrene Concrete Containing Ground Granulated Blast Furnace Slag**,** New Building Materials and Construction World, Vol-20, Issue No.5, November 2014, pp.174-182. ISSN: 0973-0591
5. Paratibha Aggarwal, **Yogesh Aggarwal**, Kapil Grover and Sabzar A. Bhat, Prediction of slump and Compressive Strength of Concrete Containing Foundry Sand. *Research in Civil and Environmental Engineering,* Vol – 1, 2013 pp149-168. **ISSN: 2345-3109.**
6. S.M.Gupta, Paratibha Aggarwal and **Yogesh Aggarwal**, Bottom Ash as Eco-friendly material for concrete, *Journal of Pradushan Nirmulan, India*, Vol-3 No.-4 April, 2006 pp.13-17. **ISSN: 0972-8902**

1. International Conferences

1. Isha Saini, Yogesh Aggarwal, Paratibha Aggarwal, Comparative study of RCC buildings on sloping ground with and without infill walls, National conference on Planning and architecture for hill region (PAHR) 2024 organized by NIT Hamirpur and Indian Institute of Architects, 15-16 May 2024
2. Isha Saini, Yogesh Aggarwal, Paratibha Aggarwal, Optimizing Sustainability In Building Design through Infill Walls
3. International conference on Sustainable Research in Energy and Environment (SREE)-2024 NIT Jalandhar, 5-6 April 2024
4. Sant Kumar, Yogesh Aggarwal, Paratibha Aggarwal, Utilization of Waste polythene in Self-compacting concrete, International Conference on Sustainable Materials, Environment and Technologies Under Climate Change Scenario (SMET-2024) (Hybrid Mode), National Institute of Technology Kurukshetra, 25th - 27th July, 2024
5. Vineet Kumar, Yogesh Aggarwal, Paratibha Aggarwal, Exploring Marble dust as a Sustainable Alternative: A comprehensive study of properties, Performance and Environmental impact, international conference on Sustainable Research in Energy and Environment (SREE)-2024 NIT Jalandhar, 5-6 April 2024
6. Vineet Kumar, Yogesh Aggarwal, Paratibha Aggarwal, Optimisation of Marble dust concrete using Design of experiment technique, International Conference on Sustainable Materials, Environment and Technologies Under Climate Change Scenario (SMET-2024) (Hybrid Mode), National Institute of Technology Kurukshetra, 25th - 27th July, 2024
7. Alok Gusain, Paratibha Aggarwal, Yogesh Aggarwal, Analysis of Multistorey Building with and without shear wall with Sustainable design, National conference on Planning and architecture for hill region (PAHR) 2024 organized by NIT Hamirpur and Indian Institute of Architects, 15-16 May 2024
8. Alok Gusain, Paratibha Aggarwal, Yogesh Aggarwal, Performance Evaluation of Multistorey Buildings with and without Shear Walls Under Earthquake Loading, International Conference on Sustainable Materials, Environment and Technologies

Under Climate Change Scenario (SMET-2024) (Hybrid Mode), National Institute of Technology Kurukshetra, 25th - 27th July, 2024

9. Shivam Kumar, Yogesh Aggarwal, G. Bharath. (2023). "Study on the use of natural resin as a bitumen modifier" International Conference on Recent Trends in Engineering and Science (RTES-2023), National Institute of Technology Surat, India. [Presented on 2 nd -3 rd May,2023.
10. Kumari, A., Dey, N., & Aggarwal, Y. (2023). Behavior of braced excavation under rainfall infiltration. International Conference on Recent Trends in Engineering and Science (RTES-2023), National Institute of Technology Surat, India. [Presented on 2 nd -3 rd May,2023.
11. Sachin Jairam Dhobi & Yogesh Aggarwal, "Study of Settlement of tall building due to Consolidation of Soil during Earthquake", International Conference on 'Recent Trends in Engineering and Science' (RTES-2023), SVNIT SURAT. 02-03 May 2023.
12. Sachin Jairam Dhobi & **Yogesh Aggarwal**, "Study of Settlement characteristics of Building Foundation for different types of soil during Earthquakes" in 3 rd International Conference on Innovative Research in Science, Technology, Agriculture, Environment, Business management and Humanities (STAEBM-2023) on 12-13 May 2023 in NIT Srinagar, Jammu and Kashmir, India.
13. Prabhat Garg & **Yogesh Aggarwal**, "Comparative Study on Seismic Analysis of Reinforced Concrete Frame Building with Masonary Infill walls" in 3 rd International Conference on Innovative Research in Science, Technology, Agriculture, Environment, Business management and Humanities (STAEBM-2023) on 12-13 May2023 in NIT Srinagar, Jammu and Kashmir, India.
14. **Saurabh Singh Yadav, Aakash Gupta & Dr.Yogesh Aggarwal** (2022) A Comparative Study on overall priority indices for flexible pavement network. International Virtual Conference on (SSJUGI) IN India & Canada. March, 25-26, 2022, NIT, Trichy.
15. **Sukh Sagar Shukla & Dr.Yogesh Aggarwal** (2022) Modelling of RCC Framed Structure on Sloping Ground using ANN and Random Tree Technique. International Conference on Innovations in Applied Science & Engineering (ICIASE 2022). May, 18-19, 2022, Dr.B.R.Ambedkar NIT, Jalandhar.
16. **Kaushal Tanwar & Dr.Yogesh Aggarwal** (2022) The Efficacy of Sodium Hydroxide & Lime as Soil Stabilizing Agent. International Conference on Innovations in Applied Science & Engineering (ICIASE 2022). May, 18-19, 2022, Dr.B.R.Ambedkar NIT, Jalandhar.
17. Pranjal Kumar Pandey and Yogesh Aggarwal, "ANN and M5P approaches with statistical evaluations to predict compressive strength of SCC containing silica's" International Conference on Paradigms of Communication, Computing and Data Sciences (PCCSS-2021)" , NIT Kurukshetra , 07-09 May 2021.
18. Manik Kalia, **Yogesh Aggarwal**, Effect of Irregularities on Progressive Collapse Potential of Structures: A Review, International Conference on Recent Advances in Engineering & Science (ICRAES-2020), University Polytechnic, Aligarh Muslim University, Aligarh, Affilatd by Vigyan Prasar, DST Govt. of India from 11-12 January 2020, pp 24 ISBN 978-81-944663-1-4.
19. Harpreet Singh, **Yogesh Aggarwal**, Seismic Effects on Structures having Couled Shear Wall: A Review of Studies, International Conference on Recent Advances in Engineering & Science (ICRAES-2020), University Polytechnic, Aligarh Muslim

University, Aligarh, Affilatd by Vigyan Prasar, DST Govt. of India from 11-12 January 2020, pp 31 ISBN 978-81-944663-1-4.

20. Gaurav Ganotra**, Yogesh Aggarwal** and Paratibha Aggarwal, Study of Seismic Parameters in L-Shaped unsymmetrical building for locating the ideal position of shear wall, International conference on recent trends and challenges in Civil Engineering (RTCCE-2014), MNIT, Allahabad, 12-14, December 2014, ISBN: 978-93-80635-16-3, pp 112-116 (51).
21. Ranbir S. Khatana, Paratibha Aggarwal and **Yogesh Aggarwal**, Self-Compacting Concrete using Supplementary Cementitious Materials: A review, International conference on recent trends and challenges in Civil Engineering (RTCCE-2014), MNIT, Allahabad, 12-14, December 2014, ISBN: 978-93-80635-16-3, pp 123-127 (53).
22. Paratibha Aggarwal, **Yogesh Aggarwal,** Harshit Garg, Deepak Leelwan, Strength optimization of cement blended by flyash and alcco fine**,** ICSCI 2014 © ASCE India Section, Oct 17 – 18, 2014, Hitex, Hyderabad, Telangana, India, pp 39-48
23. **Yogesh Aggarwal**, Prediction of Compressive Strength of SCC containing Bottom ash using Artificial Neural Networks, World Academy of Science Engineering and Technology (WASET) Paris, France, 24-26, 2011 June, Paris France, pp. 101-106. **ISSN: 2010-376X**
24. Paratibha Aggarwal, Rafat Siddique, **Yogesh Aggarwal** and Jamal Khatib, Influence of W/P ratio on strengths of SCC made with coal bottom ash, 6th International RILEM Symposium SCC 2010, 26-29, September 2010, Montreal, Canada, pp. 181-192. **ISBN. 9789048196647 9048196647 (Springer Publications)**
25. **Yogesh Aggarwal**, Rafat Siddique, S.M.Gupta and Paratibha Aggarwal, Use of Foundry sand & Bottom ash in Concrete, The 25th International Conference on Solid Waste Technology and Management, Philadelphia, PA, U.S.A. March 14 - 17, 2010, **ISSN No. 0378-4274.**
26. **Yogesh Aggarwal**, Rafat Siddique, S.M.Gupta and Paratibha Aggarwal, Effect of Foundry Sand as Partial Replacement of Fine Aggregates on Concrete Properties, The 25th International Conference on Solid Waste Technology and Management, Philadelphia, PA, U.S.A. March 14 - 17, 2010, **ISSN No. 0378-4274.**
27. Rafat Siddique, Paratibha Aggarwal, Jamal Khatib and **Yogesh Aggarwal**, Strength Properties and Chloride Permeability of Self-Compacting Concrete, 2nd International Symposium on Design, Performance and Use of Self-Consolidation Concrete, Beijing, China, 5-8 June 2009, pp 381-390. **(RILEM PRO 65) ISBN/ISSN: 978-2-35158-073-8**
28. Rafat Siddique, Paratibha Aggarwal and **Yogesh Aggarwal**, Compressive Strength modeling of SCC using Linear Regression and Artificial Neural Network Approach, 2nd International Symposium on Design, Performance and Use of Self-Consolidation Concrete, Beijing, China, 5-8 June 2009, pp. 391-398. **(RILEM PRO 65) ISBN/ISSN: 978-2-35158-073-8**
29. S.M.Gupta, Paratibha Aggarwal, **Yogesh Aggarwal**, V.K.Sehgal, Rafat Siddique & S.K.Kaushik, Permeability of High Strength Concrete, International Conference on Excellence in Concrete Construction- through Innovation, Kingston Hill Campus, London, UK, 9-10 September 2008, pp. 159-163. **ISBN 978-0-415-47592-1**
30. **Yogesh Agarwal** and R. Siddique, Use of Waste Foundry Sand in Concrete, International Conference on Excellence in Concrete Construction- through Innovation, Kingston Hill Campus, London, UK, 9-10 September 2008, Poster Presentation. **ISBN 978-0-415-47592-1**

31. **Yogesh Aggarwal**, Modeling of Reinforcement in Concrete Beams Using Machine Learning Tools, World Academy of Science Engineering and Technology (WASET) Bangkok, Thailand, 14-17 December, 2007. pp. 253-257. **ISSN 1307-6884.**
32. Paratibha Aggarwal, Rafat Siddique, **Yogesh Aggarwal** and S.M.Gupta, Modeling the Properties of Self-Compacting Concrete: *An M5 Model Tree Based Approach, 5th International RILEM symposium SCC 2007 Ghent, Belgium*, 3-5 September 2007, pp. 49-54. **ISBN. 9782351580509 2351580508 9782351580516 2351580516 9782351580554 2351580559**
33. Rafat Siddique, Paratibha Aggarwal, **Yogesh Aggarwal** and S.M.Gupta, Development, Investigation and Applications of Self-compacting concrete, *5th International RILEM symposium SCC 2007 Ghent, Belgium*, 3-5 September 2007, pp. 55-59. **ISBN. 9782351580509 2351580508 9782351580516 2351580516 9782351580554 2351580559.**
34. S.M.Gupta, Paratibha Aggarwal and **Yogesh Aggarwal**, Effect of Replacement of Aggregates by Demolition Wastes on Concrete Properties, *22nd International Conference on Solid Waste Technology and Management, Philadelphia, USA*, 18/19/20/21 March 2007, pp. 479-486.
35. **Yogesh Aggarwal**, Paratibha Aggarwal and Rafat Siddique, Mechanical Properties of Concrete containing Coal Bottom Ash as Replacement of Fine Aggregates in Concrete, *22nd International Conference on Solid Waste Technology and Management, Philadelphia, USA*, 18/19/20/21 March 2007, pp. 903-916.
36. Paratibha Aggarwal, **Yogesh Aggarwal**, S.M.Gupta and Rafat Siddique, Properties of Self Compacting Concrete- An Overview, *International Conference 'Our world in Concrete and Structures', OWICS 05, Singapore*, 23/24 Aug. 2005 pp. 119-126. **ISBN. 981-05-3546-5.**

National Conferences

1. Shivam Kumar, **Yogesh Aggarwal**, G. Bharath. (2023). "Study on the Rheological and Chemical properties Of Resin modifier Binder" National Conference on 'Sustainable Development of Smart Cities Infrastructure' (SDSCI-2023), NIT KURUKSHETRA. 27-28 May 2023.
2. Kumari, A., Dey, N., & **Aggarwal, Y**. (2023). A parametric study on braced excavation under rainfall infiltration. National Conference on "Sustainable Development of Smart Cities Infrastructure (SDSCI-2023), National Institute of Technology, Kurukshetra, India. [Presented on 27th– 28th May 2023]
3. Sachin Jairam Dhobi & **Yogesh Aggarwal**, "Study of tall building Settlement due to soil consolidation during Earthquake", 'National Conference on 'Sustainable Development of Smart Cities Infrastructure' (SDSCI-2023), NIT KURUKSHETRA. 27-28 May 2023.
4. Prabhat Garg & **Yogesh Aggarwal**, Study on Comparative ON COMPERATIVE SEISMIC ANALYSIS OF REINFORCED CONCRETE FRAME BUILDING WITH MASONRY INFILL WALLS" in National Conference on Sustainable Development of Smart Cities Infrastructure (SDSCI-2023) during May 27-28 th, 2023 in NIT Kurukshetra, Haryana,India.
5. **Saurabh Singh Yadav & Dr.Yogesh Aggarwal** (2022) Development of Maintenance Index. 10th National Conference on nano Science & Instrumentation Technology (NCNIT 2022). July 9-10, 2022, Department of Physics NIT, Kurukshetra.

6. **Sukh Sagar Shukla & Dr.Yogesh Aggarwal** (2022) Modelling of RCC Framed Structure on Sloping Ground using ANN and Random Tree Technique. 10th National Conference on nano Science & Instrumentation Technology (NCNIT 2022). July 9-10, 2022, Department of Physics NIT, Kurukshetra.
7. **Kaushal Tanwar & Dr.Yogesh Aggarwal** (2022) Stabilization of Clayey Soil using various chemicals. 10th National Conference on nano Science & Instrumentation Technology (NCNIT 2022). July 9-10, 2022, Department of Physics NIT, Kurukshetra.
8. Aditya Sood and **Dr. Yogesh Aggarwal** (2018), "Dynamic-based analysis for an asymmetric building under seismic action – A Review", National Conference on Latest Innovations in the area of sustainable Materials for building/Road construction in civil engineering (NCSMBRCE-2018) September 22-23, 2018 Civil Engineering Department, Malaviya National Institute of Technology Jaipur.
9. Aditya Sood and **Dr. Yogesh Aggarwal** (2019), "Comparative study on asymmetrical LShaped RCC building by Pushover Analysis", National Conference on Advances in Building Road Materials and Construction Engineering (ABRMCE-2019) March 25th & 26th, 2019 Civil Engineering Department, Malaviya National Institute of Technology Jaipur.
10. Vikrant Rana and **Dr. Yogesh Aggarwal** (2018), "Pushover Analysis of Multistorey Building", Latest Innovations in the werea of Sustainable Materials for Building/Road Construction in Civil Engineering (NCSMBRCE-2018), SEP. 22-23,2018 Civil Engineering Department, Malaviya National Institute of Technology Jaipur.
11. Vikrant Rana and **Dr. Yogesh Aggarwal** (2019), "Comparative Study of Parameters of a Symmetrical Multistorey Buildings using Non-linear Static Analysis", National Conference on Advancement in Building-Road Materials & Construction Engineering (ABRMCE-2019) March 25-26, 2019 Civil Engineering Department, Malaviya National Institute of Technology Jaipur.
12. Ankur Kaushik, **Yogesh Aggarwal**,"Non-Linear Static (Push Over) Analysis of Buildings: A review", National Conference on Emerging Trends & Developments in Civil Engineering (NCETDCE-2017) M.N.I.T., Jaipur, pp. 1-6 nov 11-12, 2017
13. Ankur Kaushik, **Yogesh Aggarwal**,"Non-Linear Static (Push Over) Analysis of Buildings of Different Seismic Zones", National Conference on Emerging Trends & Developments in Civil Engineering (NCETDCE-2017) M.N.I.T., pp 7-16, Jaipur, nov 11-12, 2017.
14. Deepak Goyal, **Yogesh Aggarwal**, "Effect of using recycled concrete aggregates on porous concrete", National Conference on Advances in Materials and Product Design (AMPD-2017), S.V.N.I.T. Surat, pp. 50-55, 10 March, 2017- 11th March 2017
15. Deepak Goyal, **Yogesh Aggarwal**, "Comparative study of mechanical properties of porous concrete by using normal aggregates and recycled concrete aggregates", New Generation Concrete (NGC), NITTTR, Journal of Engineering and Technology Education Vol 11, No.2 July to December Chandigarh, 2017. pp 25-28
16. Aman Sharma, **Yogesh Aggarwal,** "Study of Sugar Cane Bagasse Ash as A Pozzolanic Material: A Review" at National Conference on Advances in Materials and Product Design, NIT Surat, pp 150-157, 10 March, 2017- 11th March 2017
17. Aman Sharma, **Yogesh Aggarwal,** "Experimental Studies of properties of Concrete Using Bagasse Ash" national Conference on New Generaton Concrete organized by Civil Engineering Department at NITTTR, Chandigarh on 19th April 2017
18. Nitin Goel & **Yogesh Aggarwal, Effect of Micro Silica on Performance of Self Compacting Concrete,** 1st National Conference on recent advances in civil engineering

(RACE-2016) Department of Civil Engineering and Applied Mechanics, Sardar Vallabhbhai National Institute of Technology, Surat March 5-6, 2016

19. Nitin Goel & **Yogesh Aggarwal**, Effect of nano silica and micro silica on properties of Self-compacting concrete. 4th National Conference on nano science and Instrumentation technology (NCNIT-2016), National Institute of Technology,Kurukshetra. June 4-5, 2016.
20. Keenu Nayyar, Gautam, Dr.ManjeetBansal, Er.Baljeet Singh, **Dr.YogeshAggarwal,** Seismic Analysis of a Reinforced Concrete Building by Response Spectrum Method at different zones**,** TEQIP-II Sponsored, National Conference on Latest Developments in Civil and Environment Engineering , 15th -16th Oct., 2015, Department of Civil Engineering, Giani Zail Singh Punjab Technical University Campus, Bathinda
21. M.Ravi Kumar, **Yogesh Aggarwal,** Paratibha Aggarwal, Experimental Study of Chloride Resistance of Concrete Incorporating Blend Cement, National Conference on Sustainable Infrastructure Development-2015, (NCSID-2015) M, National Institute of Technical Teachers Training & Research Institute, Chandigarh, 26-27 February, 2015, pp.691-699.
22. Ranbir S Khatana, Paratibha Aggarwal, **Yogesh Aggarwal**, Effect of Alccofine on Fresh and Hardened Properties of Self Compacting concrete, National Conference on Technological Innovations for Sustainable Infrastructure, TISI-2015, NIT Calicut, 13-14 March, 2015, pp.34-38
23. Gaurav Ganotra, **Yogesh Aggarwal,** Paratibha Aggarwal, Comparison of effect of Shear Wall Location with Storey Height in the performance of Multi-Storeyed L-shaped Building, National Conference on Technological Innovations for Sustainable Infrastructure, TISI-2015, NIT Calicut, 13-14 March, 2015, pp.353-357
24. M.Ravi Kumar, **Yogesh Aggarwal,** Paratibha Aggarwal, Study of Chloride resistance of concrete containing Blended cement: A Review, National Conference on Technological Innovations for Sustainable Infrastructure, TISI-2015, NIT Calicut, 13-14 March, 2015, pp.284-288.
25. Rahul Pratap Singh, Paratibha Aggarwal and **Yogesh Aggarwal**, A review of mechanical properties of cementatious compositions incorporating nano materials (Nano Silica), National Conference on Nano material and Instrumentation (NCNI-2014) N.I.T.Kurukshetra , March 9-10, 2014,
26. Kumar Roshan and **Yogesh Aggarwal,** Influence of Bauxite Tailings and Super Plasticizer in Cement Mortar. Proc. of the National Conference on Recent Trends in Chemical Science Engineering and Technology (RTCET-2014), NIT, Hamirpur, May, 29-30, 2014, pp. 53.
27. Kumar Roshan and **Yogesh Aggarwal,** Use of waste derived from Bayer process (for Alumina production) as a Partial replacement of Cement, Proc. of First Annual Conference on Innovations and Developments in Civil Engineering, NITK, Surathkal May 19-20, 2014, pp. 27-33.
28. S.Naveen Chander and **Yogesh Aggarwal,** Light weight expanded Polystyrene concrete containing ground granulated Blast Furnace Slag. Proc. of the National Conference on Innovations in Design and construction of Industrial Structures at NIT, Durgapur. April 3-5, 2014, pp. 104-109.
29. Kumar Roshan and **Yogesh Aggarwal,** Effect of Cement Replacement with Bauxite residue on the mechanical properties of concrete. Proc. of the National Conference on

Innovations in Design and construction of Industrial Structures at NIT, Durgapur. April 3-5, 2014, pp. 27-30.

30. Paratibha Aggarwal, **Yogesh Aggarwal** and Surekaha Aggarwal, M5 Modeling Approach: Prediction of Strength of Concrete with Industrial By-products, Proc. All India Seminar on Emerging Technology in Civil Engineering, Institution of Engineers, Haryana Centre, August 24-25, 2012, pp. 27-33.
31. Paratibha Aggarwal, **Yogesh Aggarwal** and S.M.Gupta, Self-Compacting Concrete Containing Class-F fly ash for hydraulic structures, National Conference on Hydraulics, Water Recourses, Costal and Environmental Engineering. HYDRO 2010 at MMEC, Mullana. December 16-18, 2010. pp 619-625.
32. **Yogesh Aggarwal**, Paratibha Aggarwal, Mahesh Pal and V.K.Sehgal, Prediction of Reinforcement by Machine Learning Tools, *2nd National Conference on Advances in Concrete Technology, T.I.E.T.,Patiala*, 26/27 Feb. 2004, pp. 197-204.
33. Paratibha Aggarwal, **Yogesh Aggarwal** and Karuna Mittal, Applications of Support Vector Machines to the Design of Reinforced Concrete Beams, *National Conference on Intelligent Systems and Networks, H.E.C., Jagadhri*, 27/28 Feb. 2004, pp. 14-18.

REFRESHER COURSES/SUMMER SCHOOLS ATTENDED

Sr. No	Course	Place	Duration
	Online Teaching Pedagogy in Higher Education	NIFTEM, Sonipat	11.06.20 to 14.06.20
1.	Nanomaterials: Synthesis and Characterization	N.I.T., Kurukshetra	11.03.2014 to 15.03.14
2.	Formwork for Concrete Structures	I.I.T., Delhi	17.06.2013 to 21.06.2013
3.	Induction Training Programme Through ICT	GZS PTU Campus, Bhatinda	03.06.2013 to 07.06.2013
4.	AUTOCAD	NTTTRI, Chandigarh	27.05.2013 to 31.05.2013
5.	Predictive Mathematical Models in Science and Engineering	N.I.T., Kurukshetra	24.05.2013 to 25.05.2013
6.	Computational Methods in Engineering	N.I.T., Hamirpur	13.05.2013 to 17.05.2013
7.	Seminar on Ethics & Value Education in Science & Technology	N.I.T., Kurukshetra	14.11.2011
8	Structural Steel Design	N.I.T., Kurukshetra	15.06.2009 to 20.06.2009
9	Earthquake Risk Management	I.I.T., Roorkee	03.11.2008 to 29.11.2008
10	Advances in Civil Engineering	N.I.T. Kurukshetra	21.01.2008 to 25.01.2008
11	Server-Side Programming	N.I.T. Kurukshetra	03.12.2007 to 07.12.2007
12	Faculty Development Program on Entrepreneurial Awareness	N.I.T. Kurukshetra	25.06.2007 to 04.07.2007
13	Programming in C	N.I.T. Kurukshetra	04.10.2004 to 16.10.2004
14	Genetic Algorithms for Engg. Optimization	I.I.T. Kanpur	07.04.2004 to 09.04.2004
15	Matlab	T.T.T.I Chandigarh	19.01.2004 to 23.01.2004
16	Earthquake Resistant Design of Structures	I.I.I.T. Hyderabad	05.11.2003 to 09.11.2003
17	Neural Network and Fuzzy Logic	T.T.T.I., Chandigarh	14.07.2003 to 25.07.2003
18	A workshop on system modeling and simulation	S.L.I.E.T, Longowal	31.07.2000 to 11.08.2000
19	Modern Trends for efficient operation of M/C's and energy conservation	C.R.S.C.E., Murthal	17.07.2000 to 23.07.2000
20	Low-Cost Housing	G.N.D.E.C., Ludhiana	03.07.2000 to 14.07.2000
21	Induction Training Program	R.E.C., Kurukshetra	May/June 2000 3 Weeks

Academic/Administrative Contributions at Department/Institute Level:

- Faculty In-charge Alumni Cell
- Facutly In-charge Students Clubs
- Deputy Prof-in-charge public relation Office
- Prof-in-charge for Photography Club & Hiking and Tracking
- Co-coordinator ICI Student Chapter N.I.T. Kurukshetra.
- Prof. In charge Survey Lab.
- Deputy Prof-in-charge Department Time Table
- Member Admission Committee (AIEEE 2012)
- Nodal Officer (Civil Engg. Deptt.) for web site management
- Prof. In charge meeting, Information Management/RTI.
- Teacher In charge for Survey Camp at Rajpur, Dehradun and Karan Ka Tilla, Kurukshetra.
- Member Discipline Committee Convocation 2010, 2011.
- Member Departmental Purchase Committee
- Teacher In-Charge Poetry Legal Literacy Program at Distt. and State Level.
- Observer for CEET Exams
- Member various Purchase Committees
- Exams Duties as Deputy Superintend and Asstt. Superintend.
- Stock Verification Duties for various Departments
- Prof In-Charge attendance affairs B.Tech. and M.Tech Students (2007).
- Member (Structures for TEQIP exhibitions of books and LR's) 2006.
- Member Checking of Structural Design and Drawings committee of Institute Buildings.
- Member committee to prepare list of old books in Library.
- Member of the various committees of the Institute constituted time to time for various functions.
- Member, Organizing Committee for Annual Cultural Festivals held in 2004 to 2011
- Acted as Judge for various events during Cultural Festival.
- Acted as Judge for Civiera during Literati
- Anti-Ragging duties in boys hostel for fresher (1st year).
- Regular contact with students regarding their career planning.
- Counselor for group of boys from 1st year to final year

6. Total number of awards / recognition / honors including Membership / Fellowship of Professional Societies etc.:

Sr. No.	Society	Type of Membership	Membership Number
1	ISTE (Indian Society of Technical Education)	Life Member	LM-28058
2	ICI (Indian Concrete Institute)	Life Member	9026
3	IEI (Institute of Engineers, India)	Associate Member	AM-089199-4
4	Indian Society of Earthquake Technology, Roorkee.	Life Member	LM-1591
5	Indian Society for wind Engineering	Life Member	LM-563
6	Life Fellow Member, Indian Geotechnical Society, New Delhi.	Life Fellow Member	

Topic of Ph.D Completed/Ongoing

Sr. No	Year	Topic	Students	Co-supervisor	Completed/ Ongoing
1.	2017	Mechanical, durability and microstructural aspects of cement mortar incorporating micro and Nano Silica.	Rishav Garg	Dr. Manjeet Bansal	Completed
2	2016	Study of various Properties of Self Compacting Concrete incorporating Nano Silica	Keenu	Dr.Manjeet Bansal	Completed
3.	2022	A study on Light weight aerated concrete (LAC) incorporating Industrial By-products	Pankaj Kumar	Yogesh Aggarwal	On going

M.Tech. Dissertations Supervised = 35

Number of M. Tech dissertations (supervised/ongoing):

Sr. No	Year	Topic	Students	Co-supervisor
1.	2004-05	Study of properties of Concrete replacing fine aggregate with bottom ash	Ajay Lamba (705/03)	Dr. Paratibha Aggarwal
2.	2008-09	Dynamic Modeling of Shear Walls in Asymmetric Building	Sudipta Kumar Giri (207126)	Dr. Paratibha Aggarwal
3.	2009-10	Seismic Evaluation of R.C.C Frame Buildings with Linear & Non-Linear Static Analysis	Amar Deep Singh 208125	Dr. Pankaj Agrawal
4.	2011-12	Static and Dynamic Analysis for Seismic behaviour of Z-Shape Building	Eswara P. Ramu Du Rapeti (210026)	
5.	2011-12	ANN Modeling of RCC Framed Multi Storey Buildings with Opening in Shear Wall	Suman Kumar 210035	Dr.Paratibha Aggarwal
6.	2011-12	Development of Waste Tyre Modified Concrete	Varun Kansal (207130)	Dr.Babita Saini
7.	2012-13	Experimental Investigations of properties of Self-Compacting Concrete with Metakaoline.	Aditi	
8.	2013-	Experimental Study of Properties	S.Naveen Chander	

	14	of Expanded Polystyrene Concrete	3120610	
9.	2013-14	Study of effect of Red Mud on the Properties of Concrete	Kumar Roshan 3120609	
10	2014-15	Study of properties of SCC using blended cement	Ranbir Singh (3130616)	Dr.Paratibha Aggarwal
11	2014-15	Study of Chloride Resistance of Concrete Containing Blended Cement.	M.Ravi Kumar (3130505)	Dr.Paratibha Aggarwal
12	2014-15	Comparative Analysis of multi storied building for ideal location of shear wall	Gaurav Ganotra (3130708)	Dr.Paratibha Aggarwal
13	2015-16	Study of Properties of SCC Containing Micro and Nano Silica	Nitin Goel 3140701	
14	2016-17	Experimental study of properties of concrete using Bagasse Ash	Aman	
15		Comparative study of Mechanical properties of porous concrete by using Normal and Demolished aggregates.	Deepak	
16	2017-18	Non-Linear Static analysis of high rise building with different configurations of RCC walls	Ankur Kaushik	
17	2018-19	Pushover Analysis and modeling of L-Shaped RCC Building	Aditya Sood 31702307	
18		Analysis and AI Modeling of Symmetrical RCC Building Using Pushover Analysis	Vikrant Rana 31702302	
19	2019-20	Effect of Irregularities on Progressive Collapse potential of RC Frame	Manik Kalia (31802308)	
20		Seismic Effect on Structures Having Coupled Shear Wall with and without Opening	Harpreet Singh (31802315)	
21	2020-21	Modelling of compressive strength of concrete at elevated temperature	Anshul Aggarwal (31602318)	
22		Prediction of Strength of SCC containing Silicas	Pranjal Kumar Pandey (31902307)	
23		Modelling of Properties of mortar and concrete incorporating limestone	Ritesh Kumar (31902414)	
24		Prediction of properties of concrete using recycled aggregates obtained from Demolished concrete	Deepak Singh Kaneri (31902319)	
25	2021-22	Seismic Behavior of Multistorey RCC Framed Structure on Sloping Ground with varying slope	Sukh Sagar Shukla 32012323	
26		Development of Priority Index based on functional and structural condition of Flexible Road Network	Saurabh Singh Yadav 32012422(Tans)	Dr. Aakash Gupta CRRI, NEW DELHI
27		Stabilization of Clayey Soil using Chemicals as Additives	Kaushal Tanwar 32012209 (Soil)	
28	2022-23	Comparative Seismic Analysia and Modelling of RCC Building with and without Infill Walls	Prabhat Gart (32112306) STR	
29		Study of Tall Building Settlement due to Soil Consolidation During Earthquake	Sachin Jairam Dhobi (Roll No. - 32112322)	
30		Behavior of Braced Excavation Under Rainfall Infiltration and Dynamic Forces	Anjali Kumari (32112220)	
31		Study on the use of Natural Bio-oil as a Bitumen Modifier",	Shivam Kumar (32112423)	Dr. G. Bharath, Senior Scientist, CSIR- CRRI,

				New Delhi..
32	2023-24	Modelling of Multistorey Buildings with and without RCC Shear Walls using software	Alok Gusain 32212314	Dr.Paratibha Aggarwal
33		Study of Mechanical properties of marble dust concrete using DOE technique	Vineet Kumar 32212320	Dr.Paratibha Aggarwal
34		Comparative study of RCC Buildings on sloping ground with and without infill walls using software	Isha 32212316	Dr.Paratibha Aggarwal
35		Utilisation of waste polythene in Self Compacting Concrete	Sant Kumar 32212313	Dr.Paratibha Aggarwal

MAJOR PROJECT

Sr. No	Year	Topic	Students	
1.	2006	Structural Design of Multistoried R.C.C. Frame and Comparison with Staad Pro. Software	1. Akshat K.Singh, 2. Himanshu, 3. Gurdeep Singh, 4. Amit Kumar, 5. Emmanuel Joy, 6. Jonathan Talukdar,	7. Gowtham V., 8. Ravish Dubey, 9. Sameer Sonane, 10. Naresh Kumar 11. Alok Singh,
2.	2007	Structural Design of Multistoried R.C.C. Frame and Comparison with Staad Pro. Software	1. Vishal Garg, 2. Rohit Puri, 3. Dhanya Kalai,	4. Manish Chauhan 5. Sachin Sukhija
3.	2007	Analysis of a Trapezoidal Corrugated Shell Used in a Satellite Strengthened by a Ring Stiffener by Finite Element Method	1. Sharat N.	
4.	2007	Design of Steel Plate Girder Railway Bridge and its Analysis Using NISA	1. Rahul Tiwari, 2. Kavita Soday	
5.	2008	Static and Dynamic Analysis of Multi-Storeyed Building	1. Sourav Pahuja, 2. Nishant Singla, 3. Brijesh Kumar, 4. Suryadev Prashad,	5. Nitin Malhotra, 6. Omveer Singh 7. Anil Narwal
6	2009	Micro Structure Analysis using XRD and SEM of Concrete containing Fourdry Sand	1. Ankit Chktkara, 2. Suranshu Arora	
7	2010	Manual Static and Dynamic Analysis of a 14 Storey Building with Shear Wall and its Design with Staad Pro and Sap 2000	1. Manish Kumar, 2. Apoorv Mittal,	3. Ankit R.Dubey, 4. Charan D.Singh
8	2010	Structural Analysis and Design of Auditorium By-Staad Pro and SAP	1. Chirag Sindhu, 2. Manoj Kumar Garg, 3. Barjinder S. Ghai, 4. Anuj Gupta, 5. Narinder Kambala,	6. Kunal Devangan, 7. Kartkeya Gupta, 8. Aritra Khan, 9. Ramesh Kumar
9	2011	Design of Multi Storey Class Room Complex	1. Nikhil Gauri, 2. Sahil Bhalla, 3. Rohit Singh, 4. Sabinus John Guria,	5. Saurabh, 6. Priyansh Agrawal, 7. Bhavik Bhamnia
10	2011	Static and Dynamic Analysis of U-Shaped Buildings	1. Ruchika Sharma, 2. Jyoti Tak,	3. Ravi Malik, 4. Faridullah
11	2012	Modeling the properties of SCC using Artificial Neural Network	1. Narsing Mourya, 2. Sumit K. Ranjan, 3. Antan Tyagi, 4. Kabir Bajaj, 5. Gaurav Sharma, 6. Ram Kumar Saran, 7. Rajat Gupta, 8. Beer Singh,	9. Mahendra, 10. Amit Kumar, 11. Naresh Kumari, 12. Nisha Dhakar, 13. Akhil Goyal, 14. Md. R.Nezaami, 15. Rahul
12	2012	Manual Static and Dynamic analysis of Lecture Hall Complex and its Design with Staad Pro.	1. Akash Sharma, 2. Krishna, 3. Mohan Neelesh, 4. Amod Anand, 5. Annu Malik,	6. Gopal, 7. Gaurav Walia, 8. Pardeep, 9. Vikas
13	2013	Analysis and Design of Mulitstorey Shopping Complex	1. Ankit Khurana, 2. Drishti Batra, 3. Neeraj Meena, 4. Lalit, Mukesh,	5. Nitin, 6. Naveen Hooda, 7. Divesh, 8. Mahesh Meena
14	2013	Experimental Study of Light weight Concrete using Expanded Polystyrene Aggregates	Ankit Vipul Anwarul Hussain Sahil Khurana	Deepak Saurabh Vibhu Abdullah Khan

			Vipin Tiwari	
15	2014	Study of Effect of Alccofine and Flyash on Strength of Cement-Sand Mortar	Harshit Garg Sahil Goyal Vishal Singh Ashish	Armaan Gill Sudhir Kumar Tarun Azad Shivam Shivam Gupta
16		Modelling the properties of SCC using Artificial Neural Network	Narsingh Mourya Sumit K Ranjan Antan Tayagi Kabir Bajaj Gaurav Sharma Ram Kumar Saran Rajat Gupta	Beer Singh Mahendra Amit Kumar Nisha Dhakar Akhil Goyal Md. Raja Nezaami Rahul
17	2015	Experimental Study of Light weight concrete using Expanded Polystyrene Aggregates	Anwarul Hussain	
18		Comparative Study of Static and dynamic Analysis of a multi-storeyed Building	Apoorv Vohra Ankit Gumber Ketan Garg Lalit Jindal Abhishek K Bhart	Punit Yadav Sajjan Singh Abdul Majid Shikesh Kumar Ajay
19	2016	Building Designing in Staad Pro	Jatin Nagpal Sardar Singh Ranwa Sunil K Meena Taj Mohammad Ravi Kumar	Rahul Singh Bhati Antariksh Partap Singh Sumit
20		Structural Design of Proposed Hospital Building using Staad Pro	Yugmani Kumar	
21	2017	Effect of Bottom ash as replacement of Cement in Conctete	Kamesh Shashi Bhushan Tara Ashutosh Narwal Aman Soni Pyiyanka Sagar Sheetal Meena Sushil Kulhari	Narender Kumar Amit Panchal Saurabh Jagarbad Reen Rani Meena Ranjeet Arya Saurabh Batar

Chapters in the Book Published on relevant subjects from reputed international publishers –

6.Book /Book Chapters

	Title	Edition	Publisher	Co-author
BOOK	Alternative Cementitious Materials for Self-Compacting Concrete: Woodhead Publishing Series in Civil and Structural Engineering (Book)	1st	Woodhead Publishing Series in Civil and Structural Engineering	Aggarwal, P., Sihag, P., Mohammed, A.
BOOK CHAPTERS	SCC containing rice husk ash (Book Chapter)	Alternative Cementitious Materials for Self-Compacting Concrete: pp. 153-174	Woodhead Publishing Series in Civil and Structural Engineering	Aggarwal,P., , Sihag, P.
	Recycled/waste plastic (Book Chapter)	Alternative Cementitious Materials for Self-Compacting Concrete: pp. 89-104	Woodhead Publishing Series in Civil and Structural Engineering	Kumar, A.,
	Nanosilica in self-compacting concrete (Book Chapter)	Alternative Cementitious Materials for Self-Compacting Concrete: pp. 105-118	Woodhead Publishing Series in Civil and Structural Engineering	Garg, A., Aggarwal, P.,

Sr. No.	Title of Chapter	Title of Book	Name of Publications	Year of publication
1	Prediction of Compressive Strength at Elevated Temperatures Using Machine Learning Methods 37-52 Anshul Aggarwal, Yogesh Aggarwal, and Paratibha Aggarwal	Applications of Computational Intelligence in Concrete Technology	CRC Press, Taylor and Francis eBook ISBN97810031 84331	14.03.22
2	Prediction of Compressive Strength of Self-Compacting Concrete Containing Silica's Using Soft Computing Techniques 163-182 Pranjal Kumar Pandey, Paratibha Aggarwal, Yogesh Aggarwal, and Sejal Aggarwal	Applications of Computational Intelligence in Concrete Technology	CRC Press, Taylor and Francis eBook ISBN97810031 84331	14.03.22
	Strength properties of SCC Book Pages 83-115 Available online 24 January 2020. https://doi.org/10.1016/B978	Self-Compacting Concrete: Materials, Properties and Applications	Publisher Woodhead Publishing Elsevier eBook ISBN: 9780128173701	01.01.2020

	-0-12-817369-5.00007-6		Paperback ISBN: 978012817369	
	Carbonation and corrosion of SCC Book Pages 147-193 Available online 24 January 2020. https://doi.org/10.1016/B978-0-12-817369-5.00007-6	Self-Compacting Concrete: Materials, Properties and Applications	Publisher Woodhead Publishing Elsevier eBook ISBN: 9780128173701 Paperback ISBN: 978012817369	01.01.2020
	Strength Properties and Chloride Permeability of Self-Compacting Concrete	Pro 065, 2nd International Symposium on Design, Performance and Use of Self-Consolidating Concrete, SCC-2009 ISBN-978-2-35158-093-6	RILEM Publications	2009
	Compressive Strength modeling of SCC using Linear Regression and Artificial Neural Network Approach	Pro 065, 2nd International Symposium on Design, Performance and Use of Self-Consolidating Concrete, SCC-2009 ISBN-978-2-35158-093-6	RILEM Publications	2009
	Modeling the Properties of Self-Compacting Concrete: An M5 Model Tree Based Approach	Pro 054, Fifth International RILEM symposium on Self Compacting Concrete- SCC 2007 ISBN-978-2-35158-047-9	RILEM Publications	2007
	Development, Investigation and Applications of Self-compacting concrete	Pro 054, Fifth International RILEM symposium on Self Compacting Concrete- SCC 2007 ISBN-978-2-35158-047-9	RILEM Publications	2007

Significant outreach Activity -

Sr. No.	Name of the activity	Place	Date
	Contemporary Advances in Sustainable and Integrated Infrastructure	Manav Rachna International Institute of Research and Studies, Faridabad	**02.08.21 to 06.08.21**
	Expert Lecture in Strengthening Capacities for Hazardous and Disaster Risk Management (SCHDRM-2018)	NIT, Kurukshetra	01 to 06 May
1	Expert Lecture (Advances in Structural Engineering 2017)	NIT Kurukshetra	16-21 Jan.2017
2	Support and Guidance, MASSY	Maharaja Aggarsain Siksha Samman Yogna	2014 till Date
3	Analysis and Design of Structures using STAAD PRO	DCRUST Murthal	2015
4	Coordinator Faculty-in-charge, CON? Q	UTCL-CHD.TS@ADITYABIRLA.COM	2013
5	Support and Guidance, Shiksha Abhiyan	NIT, Kurukshetra	2011 till Date
6	Earthquake Effects on Structures, Organized by Earthquake Risk Management MHA under NPCBEERM 2009.	NIT Kurukshetra	2009
7	Vibration – I, SDOF (Single Degree of Freedom), Organized by Earthquake Risk Management MHA under NPCBEERM 2009.	NIT Kurukshetra	2009
8	Vibration –II, SDOF (Single Degree of Freedom), Organized by Earthquake Risk Management MHA under NPCBEERM 2009.	NIT Kurukshetra	2009
9	Earthquake Effects on Structures, Organized by Earthquake Risk Management MHA under NPCBEERM 2008.	NIT Kurukshetra	2008
10	Vibration – I, SDOF (Single Degree of Freedom), Organized by Earthquake Risk Management MHA under NPCBEERM 2008.	NIT Kurukshetra	2008
11	Vibration –II, SDOF (Single Degree of Freedom), Organized by Earthquake Risk Management MHA under NPCBEERM 2008.	NIT Kurukshetra	2008
12	Earthquake Effects on Structures, Organized by Earthquake Risk Management MHA under NPCBEERM 2006.	NIT Kurukshetra	2006
13	Vibration – I, SDOF (Single Degree of Freedom), Organized by Earthquake Risk Management MHA under NPCBEERM 2006.	NIT Kurukshetra	2006
14	Vibration –II, SDOF (Single Degree of Freedom), Organized by Earthquake Risk Management MHA under NPCBEERM 2006.	NIT Kurukshetra	2006