

Curriculum Vitae

Personal Information

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Journal Publications

1. Deflections of high-content recycled aggregate concrete beams reinforced with GFRP bars and steel fibres

Author(s): Imjai, T., Aosai, P., Garcia, R., Raman, S.N., and Chaudhary, S.
Journal: Engineering Structures
Year: 2024
Volume/Pages: -
Impact Factor: 5.6
Link: <https://doi.org/10.1016/j.engstruct.2024.11824>

2. Performance of recycled aggregate concrete composite metal decks under elevated temperatures: a comprehensive review

Author(s): Kefyalew, F., Imjai, T., Garcia, R., Son, N.K., and Chaudhary, S.
Journal: Journal of Asian Architecture and Building Engineering
Year: 2024
Volume/Pages: -
Impact Factor: 1.5
Link: <https://doi.org/10.1080/13467581.2024.2309347>

3. Performance of eccentrically loaded low-strength RC columns confined with posttensioned metal straps: An experimental and numerical investigation

Author(s): Neupane, R. P., Imjai, T., Garcia, R., Chua, Y. S., and Chaudhary, S.
Journal: Structural Concrete
Year: 2024
Volume/Pages: -
Impact Factor: 2.79
Link: <https://doi.org/10.1002/suco.202301026>

4. Thermal and acoustic performance of masonry walls with phase change materials: A comparison of scaled-down houses in tropical climates

Author(s): Srimuang, K., Imjai, T., Kefyalew, F., Raman, S. N., Garcia, R., and Chaudhary, S.
Journal: Journal of Building Engineering
Year: 2023
Volume/Pages: 108315
Impact Factor: 6.7
Link: <https://doi.org/10.1016/j.jobbe.2023.108315>

5. Durability assessment of mechanochemically activated geopolymer concrete with a

low molarity alkali solution

Author(s): Singh, A., Bhadauria, S. S., Thakare, A. A., Kumar, A., Mudgal, M., and Chaudhary, S.

Journal: Case Studies in Construction Materials

Year: 2023

Volume/Pages: e02715 /20

Impact Factor: 6.5

Link: <https://doi.org/10.1016/j.cscm.2023.e02715>

6. A case study on examining the fresh-state behavior of self-compacting mortar containing waste powders from various sources

Author(s): Singh, A., Thakare, A. A., and Chaudhary, S.

Journal: Case Studies in Construction Materials

Year: 2023

Volume/Pages: e02684

Impact Factor: 6.5

Link: <https://doi.org/10.1016/j.cscm.2023.e02684>

7. Evaluation of real time fire performance of eco-efficient fly ash blended self-consolidating concrete including granite waste

Author(s): Jain, A., Gupta, R., Gupta, S., and Chaudhary, S.

Journal: Journal of Building Engineering

Year: 2023

Volume/Pages: 77, 107533

Impact Factor: 6.7

Link: <https://doi.org/10.1016/j.jobbe.2023.107533>

8. Thermo-mechanical treatment as an upcycling strategy for mixed recycled aggregate

Author(s): Gupta, S., Agrwal, H., and Chaudhary, S.

Journal: Construction and Building Materials

Year: 2023

Volume/Pages: 398, 132471

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2023.132471>

9. Use of recycled aggregate concrete in structural members: a review focused on Southeast Asia

Author(s): Neupane, R. P., Imjai, T., Makul, N., Garcia, R., Kim, B., and Chaudhary, S.

Journal: Journal of Asian Architecture and Building Engineering

Year: 2023

Volume/Pages: -

Impact Factor: 1.5

Link: <https://doi.org/10.1080/13467581.2023.2270029>

10. Rapid prediction of long-term deflections in steel-concrete composite bridges through a neural network model

Author(s): Kumar, P., Kasar, A. A., and Chaudhary, S.

Journal: International Journal of Steel Structures

Year: 2023

Volume/Pages: -

Impact Factor: 1.1

Link: <https://doi.org/10.1007/s13296-023-00766-8>

11. Effect of rubber fiber size fraction on static and impact behavior of self-compacting concrete

Author(s): Thakare, A. A., Siddique, S., Singh, A., Gupta, T., and Chaudhary, S.

Journal: Advances in Concrete Construction

Year: 2022

Volume/Pages: 13(6), 433-450

Impact Factor: 2.2

Link: <https://doi.org/10.12989/acc.2022.13.6.433>

12. Mechanical and microstructural characterization of fly ash blended self-compacting concrete containing granite waste

Author(s): Jain, A., Chaudhary, S., and Gupta, R.

Journal: Construction and Building Materials

Year: 2022

Volume/Pages: 314 (Part A), 125480

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2022.125480>

13. Micro and macro-structural properties of waste tyre rubber fibre-reinforced bacterial self-healing mortar

Author(s): Thakare, A. A., Gupta, T., Deevan, R., and Chaudhary, S.

Journal: Construction and Building Materials

Year: 2022

Volume/Pages: 322, 126459

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2022.126459>

14. Resistance of fly ash blended self-compacting concrete incorporating granite powder against acid and sulphate environments

Author(s): Jain, A., Chaudhary, S., Choudhary, S., and Gupta, R.

Journal: Arabian Journal of Geosciences

Year: 2022

Volume/Pages: 15, 1156

Impact Factor: 2

Link: <https://doi.org/10.1007/s12517-022-10424-8>

15. Waste tyre recycling: An emerging applications with a focus on permeable pavements

Author(s): Muttill, N., Chaudhary, S., Prasad, E. K., and Singh, S. K.

Journal: Indian Journal of Engineering and Material Sciences

Year: 2022

Volume/Pages: 29(6), 707-713

Impact Factor: 2

Link: <https://doi.org/10.56042/ijems.v29i6.70313>

16. Effect of limestone calcined clay cement (LC3) on the fire safety of concrete structures

Author(s): Gupta, S., Singh, D., Gupta, T., and Chaudhary, S.

Journal: Computers and Concrete

Year: 2022

Volume/Pages: 27(4), 263-278

Impact Factor: 2.9

Link: <https://doi.org/10.12989/cac.2022.29.4.263>

17. State of the art review on supplementary cementitious materials in India – II: Characteristics of SCMs, effect on concrete and environmental impact

Author(s): Gupta, S., and Chaudhary, S.

Journal: Journal of Cleaner Production

Year: 2022

Volume/Pages: 357, 131945

Impact Factor: 9.7

Link: <https://doi.org/10.1016/j.jclepro.2022.131945>

18. Effect of granite industry waste addition on durability properties of fly ash blended self-compacting concrete

Author(s): Jain, A., Choudhary, S., Gupta, R., Chaudhary, S., and Gautam, L.

Journal: Construction and Building Materials

Year: 2022

Volume/Pages: 340, 127727

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2022.127727>

19. Comprehensive assessment of ceramic ETP sludge waste as a SCM for the production of concrete

Author(s): Jain, P., Gupta, R., and Chaudhary, S.

Journal: Journal of Building Engineering

Year: 2022

Volume/Pages: 104973

Impact Factor: 6.7

Link: <https://doi.org/10.1016/j.jobbe.2022.104973>

20. Effect of size variation of fibre-shaped waste tyre rubber as fine aggregate on the ductility of self-compacting concrete

Author(s): Thakare, A. A., Singh, A., Gupta, T., and Chaudhary, S.

Journal: Environmental Science and Pollution Research

Year: 2022

Volume/Pages: -

Impact Factor: 2

Link: <https://doi.org/10.1007/s11356-022-23488-6>

21. A methodology for rapid estimation of deflections in two-way reinforced concrete slabs considering cracking

Author(s): Singh, G.K., Patel, K. A., Chaudhary, S., and Nagpal, A. K.

Journal: Prac. Periodical on Structural Design and Construction, ASCE

Year: 2021

Volume/Pages: -

Impact Factor: 1.6

Link: [https://doi.org/10.1061/\(ASCE\)SC.1943-5576.0000568](https://doi.org/10.1061/(ASCE)SC.1943-5576.0000568)

22. Experimental Investigation of Rubberized Functionally Graded Concrete

Author(s): Choudhary, S., Gupta, R., Jain, A., and Chaudhary, S.

Journal: Revue des Composites et des Materiaux Avances

Year: 2021

Volume/Pages: 31 (1), 1-11

Impact Factor: 1

Link: <https://doi.org/10.18280/rcma.310101>

23. Production of colored bi-layered bricks from stone processing waste: structural and spectroscopic characterization

Author(s): Gupta, V., Pathak, D. K., Kumar, R., Miglani, A., Siddique, S., and Chaudhary, S.

Journal: Construction and Building Materials

Year: 2021

Volume/Pages: 278, 122339

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2021.122339>

24. Rapid prediction of long-term deflections in steel-concrete composite bridges through a neural network model

Author(s): Kumar, S., Patel, K. A., Chaudhary, S., and Nagpal, A. K.

Journal: International Journal of Steel Structures

Year: 2021

Volume/Pages: -

Impact Factor: 1.1

Link: <https://doi.org/10.1007/s13296-021-00458-1>

25. Investigating mechanical properties and durability of concrete containing recycled rubber ash and fibers

Author(s): Gupta, T., Siddique, S., Sharma, R. K., and Chaudhary, S.

Journal: Journal of Material Cycles and Waste Management

Year: 2021

Volume/Pages: 1-13

Impact Factor: 2.7

Link: <https://doi.org/10.1007/s10163-021-01192-w>

26. Utilization of non-metalized plastic bag fibers along with fly ash in concrete

Author(s): Jain, A., Sharma, N., Choudhary, N., Gupta, R., and Chaudhary, S.

Journal: Construction and Building Materials

Year: 2021

Volume/Pages: 291, 123329

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2021.123329>

27. Influence of the precursor, molarity and temperature on the rheology and structural buildup of alkali-activated materials

Author(s): Siddique, S., Gupta, V., Chaudhary, S., Park, S., and Jang, J. G.

Journal: Materials

Year: 2021

Volume/Pages: 14(13), 3590

Impact Factor: 3.1

Link: <https://doi.org/10.3390/ma14133590>

28. Effect of Fiber Volume Fraction of Waste Originated Tire Fiber and w/c Ratio on Mechanical Properties of Functionally Graded Concrete

Author(s): Choudhary, S., Singh, A., Jain, A., Gupta, R., and Chaudhary, S.

Journal: Iranian Journal of Science and Technology, Transactions of Civil Engineering

Year: 2021

Volume/Pages: -

Impact Factor: 1.7

Link: <https://doi.org/10.1007/s40996-021-00778-6>

29. Effect of location of load on shear lag behavior of bonded steel-concrete flexural members

Author(s): Bhardwaj, A., Nagpal, A. K., Chaudhary, S., and Matsagar, V.

Journal: Steel and Composite Structures

Year: 2021

Volume/Pages: 41 (1), 123-136

Impact Factor: 4

Link: <https://doi.org/10.12989/scs.2021.41.1.123>

30. An artificial neural network-based prediction model for utilization of coal ash in production of fired clay bricks: A review

Author(s): Vasic, V. M., Pezo, L., Gupta, V., Chaudhary, S., and Radozevic, Z.

Journal: Science of Sintering

Year: 2021

Volume/Pages: 53, 37-53

Impact Factor: 1.4

Link: <https://doi.org/10.2298/SOS2101037V>

31. Study on the mineral phase characteristics of various Indian biomass and coal fly ash for its use in masonry construction products

Author(s): Gupta, V., Pathak, D., Siddique, S., Kumar, R., and Chaudhary, S.

Journal: Construction and Building Materials

Year: 2020

Volume/Pages: 235, 117413

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2020.117413>

32. Evaluation of concrete containing waste plastic shredded fibers: Ductility properties

Author(s): Jain, A., Siddique, S., Gupta, T., Jain, S., Sharma, R. K., and Chaudhary, S.

Journal: Structural Concrete

Year: 2020

Volume/Pages: 1–10

Impact Factor: 3

Link: <https://doi.org/10.1002/suco.201900512>

33. State of the art review on Supplementary Cementitious Materials in India – I: An overview of legal perspective, governing organizations, and development patterns

Author(s): Gupta, S., and Chaudhary, S.

Journal: Journal of Cleaner Production

Year: 2020

Volume/Pages: 261, 121203

Impact Factor: 9.7

Link: <https://doi.org/10.1016/j.jclepro.2020.121203>

34. A state of the art review to enhance the industrial scale waste utilization in sustainable unfired bricks

Author(s): Gupta, V., Chai, H. K., Lu, Y., and Chaudhary, S.

Journal: Construction and Building Materials

Year: 2020

Volume/Pages: 254, 119220

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2020.119220>

35. Effect of aggressive environment on durability of concrete containing fibrous rubber shreds and silica fume

Author(s): Gupta, T., Siddique, S., Sharma, R. K., and Chaudhary, S.

Journal: Structural Concrete

Year: 2020

Volume/Pages: 1-13

Impact Factor: 3

Link: <https://doi.org/10.1002/suco.202000043>

36. Raman Imaging for Measuring Homogeneity of Dry Binary Blend: Combining Microscopy with Spectroscopy for Technologists

Author(s): Gupta, V., Pathak, D. K., Chaudhary, S., and Kumar, R.

Journal: Analytical Science Advances

Year: 2020

Volume/Pages: -

Impact Factor: 3

Link: <https://doi.org/10.1002/ansa.202000029>

37. Sustainable development of self compacting concrete by using granite waste and fly ash

Author(s): Jain, A., Gupta, R., and Chaudhary, S.

Journal: Construction and Building Materials

Year: 2020

Volume/Pages: 262, 120516

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2020.120516>

38. A study on rheological properties of rubber fiber dosed self-compacting mortar

Author(s): Thakare, A. A., Siddique, S., Sarode, S. N., Deewan, R., Gupta, V., Gupta, S., and Chaudhary, S.

Journal: Construction and Building Materials

Year: 2020

Volume/Pages: 262, 120745

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2020.120745>

39. Bond Behavior in Flexural Members: Numerical Studies

Author(s): Bhardwaj, A., Matsagar, V., Nagpal, A. K., and Chaudhary, S.

Journal: International Journal of Steel Structures

Year: 2020

Volume/Pages: -

Impact Factor: 1.1

Link: <https://doi.org/10.1007/s13296-020-00432-3>

40. Optimum mixing sequence and moisture content for hydrated lime fly ash bricks

Author(s): Gupta, V., Siddique, S., and Chaudhary, S.

Journal: Journal of Cleaner Production

Year: 2020

Volume/Pages: -

Impact Factor: 9.7

Link: <https://doi.org/10.1016/j.jclepro.2020.124859>

41. Sustainable development of self-compacting cementitious mixes using waste

originated fibers: A review

Author(s): Thakare, A. A., Singh, A., Gupta, V., Siddique, S., and Chaudhary, S.

Journal: Resources Conservation and Recycling

Year: 2020

Volume/Pages: 105250

Impact Factor: 11.2

Link: <https://doi.org/10.1016/j.resconrec.2020.105250>

42. Influence of granite waste aggregate on properties of binary blend self-compacting concrete

Author(s): Jain, A., Gupta, R., and Chaudhary, S.

Journal: Advances in Concrete Construction

Year: 2020

Volume/Pages: 10, 127-140

Impact Factor: 2.2

Link: <https://doi.org/10.12989/acc.2020.10.2.127>

43. Acid resistance of fine bone china ceramic aggregate concrete

Author(s): Siddique, S., Gupta, T., Thakre, A.A., Gupta, V., and Chaudhary, S.

Journal: European Journal of Environmental and Civil Engineering

Year: 2019

Volume/Pages: -

Impact Factor: 2.2

Link: <https://doi.org/10.1080/19648189.2019.1572543>

44. An efficient and novel strategy for control of cracking, creep and shrinkage effects in steel-concrete composite beams

Author(s): Varshney, L. K., Patel, K. A., Chaudhary, S., and Nagpal, A. K.

Journal: Structural Engineering and Mechanics

Year: 2019

Volume/Pages: 70(6), 751-763

Impact Factor: 2.2

Link: <https://doi.org/10.12989/sem.2019.70.6.751>

45. Effect of reinforcement detailing on performance of composite connections with headed studs

Author(s): Kumar, P., and Chaudhary, S.

Journal: Engineering Structures

Year: 2019

Volume/Pages: 179, 476-492

Impact Factor: 5.6

Link: <https://doi.org/10.1016/j.engstruct.2018.11.014>

46. Development of rubberized geopolymer concrete: Strength and durability studies

Author(s): Luhar, S., Chaudhary, S., and Luhar, I.

Journal: Construction and Building Materials

Year: 2019

Volume/Pages: 204, 740-753

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2019.01.022>

47. Sustainable utilisation of ceramic waste in concrete: Exposure to adverse conditions

Author(s): Siddique, S., Chaudhary, S., Shrivastava, S., and Gupta, T.
Journal: Journal of Cleaner Production
Year: 2019
Volume/Pages: 210, 246-255
Impact Factor: 9.7
Link: <https://doi.org/10.1016/j.jclepro.2018.11.174>

48. Behaviour of waste rubber powder and hybrid rubber concrete in aggressive environment

Author(s): Gupta, T., Kothari, S., Siddique, S., Sharma, R.K., and Chaudhary, S.
Journal: Construction and Building Materials
Year: 2019
Volume/Pages: 217, 283-291
Impact Factor: 7.4
Link: <https://doi.org/10.1016/j.conbuildmat.2019.05.021>

49. Performance of self-compacting concrete comprising granite cutting waste as fine aggregate

Author(s): Jain, A., Gupta, R., and Chaudhary, S.
Journal: Construction and Building Materials
Year: 2019
Volume/Pages: 221, 539-552
Impact Factor: 7.4
Link: <https://doi.org/10.1016/j.conbuildmat.2019.06.021>

50. Prediction of mechanical properties of rubberised concrete exposed to elevated temperature using ANN

Author(s): Gupta, T., Patel, K.A., Siddique, S., Sharma, R.K., and Chaudhary, S.
Journal: Measurement
Year: 2019
Volume/Pages: 147, 106870
Impact Factor: 5.2
Link: <https://doi.org/10.1016/j.measurement.2019.106870>

51. Influence of stone processing dust on mechanical, durability and sustainability of concrete

Author(s): Gupta, T., Kothari, S., Siddique, S., Sharma, R.K., and Chaudhary, S.
Journal: Construction and Building Materials
Year: 2019
Volume/Pages: 223, 918-927
Impact Factor: 7.4
Link: <https://doi.org/10.1016/j.conbuildmat.2019.07.034>

52. Fresh, Strength, Durability and Microstructural Properties of Shredded Waste Plastic Concrete

Author(s): Jain, A., Siddique S., Gupta, T., Jain, S., Sharma, R. K. and Chaudhary, S.
Journal: Iranian Journal of Science and Technology, Transactions of Civil Engineering
Year: 2018
Volume/Pages: -
Impact Factor: 1.7
Link: <https://doi.org/10.1007/s40996-018-0178-0>

53. Effect of bond layer thickness on behaviour of steel-concrete composite

connections

Author(s): Kumar, P., Patnaik A., and Chaudhary, S.

Journal: Engineering Structures

Year: 2018

Volume/Pages: 177, 268-282

Impact Factor: 5.6

Link: <https://doi.org/10.1016/j.engstruct.2018.06.014>

54. Utilization of shredded waste plastic bags to improve impact and abrasion resistance of concrete

Author(s): Jain, A., Siddique S., Gupta, T., Sharma, R. K. and Chaudhary, S.

Journal: Environment Development and Sustainability

Year: 2018

Volume/Pages: -

Impact Factor: 4.7

Link: <https://doi.org/10.1007/s10668-018-0204-1>

55. Thermal resistance of fly ash based rubberized geopolymer concrete

Author(s): Luhar, S., Chaudhary, S., and Luhar, I.

Journal: Journal of Building Engineering

Year: 2018

Volume/Pages: 19, 420-428

Impact Factor: 6.7

Link: <https://doi.org/10.1016/j.jobbe.2018.05.014>

56. Strength and impact resistance properties of concrete containing fine bone china ceramic aggregate

Author(s): Siddique, S., Shrivastava, S., Chaudhary, S., and Gupta, T.

Journal: Construction and Building Materials

Year: 2018

Volume/Pages: 169, 289-298

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2018.02.045>

57. Assessment of mechanical and durability properties of concrete containing PET waste

Author(s): Saxena, R., Gupta, T., Sharma, R. K., Chaudhary, S., and Jain A.

Journal: Scientia Iranica

Year: 2018

Volume/Pages: 27(1), 1-9

Impact Factor: 1.4

Link: <https://doi.org/10.24200/sci.2018.20334>

58. Durability properties of bone china ceramic fine aggregate concrete

Author(s): Siddique, S., Shrivastava, S., and Chaudhary, S.

Journal: Construction and Building Materials

Year: 2018

Volume/Pages: 173, 323-331

Impact Factor: 7.4

Link: <https://doi.org/10.1016/j.conbuildmat.2018.04.021>

59. Influence of fine ceramic aggregates on the residual properties of concrete subjected to elevated temperature

Author(s): Rajawat, D., Siddique, S., Shrivastava, S., Chaudhary, S., and Gupta, T.
Journal: Fire and Materials
Year: 2018
Volume/Pages: 42(7), 834-842
Impact Factor: 2
Link: <https://doi.org/10.1002/fam.2530>

60. Impact resistance and energy absorption capacity of concrete containing plastic waste

Author(s): Saxena, R., Siddique, S., Gupta, T., Sharma, R. K., and Chaudhary, S.
Journal: Construction and Building Materials
Year: 2018
Volume/Pages: 176, 415-421
Impact Factor: 7.4
Link: <https://doi.org/10.1016/j.conbuildmat.2018.05.022>

61. Lateral force microscopic examination of calcium silicate hydrate in rubber ash concrete

Author(s): Gupta, T., Siddique S., Sharma R.K., and Chaudhary, S.
Journal: Construction and Building Materials
Year: 2018
Volume/Pages: 179, 461-467
Impact Factor: 7.4
Link: <https://doi.org/10.1016/j.conbuildmat.2018.05.022>

62. Influence of ceramic waste as fine aggregate in concrete: Pozzolanic, XRD, FT-IR and NMR investigations

Author(s): Siddique, S., Shrivastava, S., and Chaudhary, S.
Journal: Journal of Materials in Civil Engineering, ASCE
Year: 2018
Volume/Pages: 30(9), 04018227
Impact Factor: 3.1
Link: [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0002270](https://doi.org/10.1061/(ASCE)MT.1943-5533.0002270)

63. Evaluating resistance of fine bone china ceramic aggregate concrete to sulphate attack

Author(s): Siddique, S., Shrivastava, S., and Chaudhary, S.
Journal: Construction and Building Materials
Year: 2018
Volume/Pages: 186, 826-832
Impact Factor: 7.4
Link: <https://doi.org/10.1016/j.conbuildmat.2018.08.086>

64. Closed form expressions for long-term deflections in high-rise composite frames

Author(s): Pendharkar, U., Patel, K. A., Chaudhary, S., and Nagpal, A. K.
Journal: International Journal of Steel Structures
Year: 2017
Volume/Pages: 17(1), 31-42
Impact Factor: 1.1
Link: <https://doi.org/10.1007/s13296-017-0011-5>

65. An automated computationally efficient two stage procedure for service load analysis of RC flexural members considering concrete cracking

Author(s): Patel, K. A., Chaudhary, S., and Nagpal, A. K.
Journal: Engineering with Computers
Year: 2017
Volume/Pages: 33(3), 669-688
Impact Factor: 8.7
Link: <https://doi.org/10.1007/s00366-016-0450-5>

66. Service load analysis of composite frames using cracked span length frame element

Author(s): Ramnavas, M. P., Patel, K. A., Chaudhary, S., and Nagpal, A. K.
Journal: Engineering Structures
Year: 2017
Volume/Pages: 132, 733-744
Impact Factor: 5.6
Link: <https://doi.org/10.1016/j.engstruct.2016.12.022>

67. Influence of ceramic waste on the fresh properties and compressive strength of concrete

Author(s): Siddique, S., Chaudhary, S., and Shrivastava, S.
Journal: European Journal of Environmental and Civil Engineering
Year: 2017
Volume/Pages: -
Impact Factor: 2.2
Link: <https://doi.org/10.1080/19648189.2016.127598>

68. Neural network based approach for rapid prediction of deflections in RC beams considering cracking

Author(s): Patel, K. A., Chaudhary, S., and Nagpal, A. K.
Journal: Computers and Concrete
Year: 2017
Volume/Pages: 19(3), 293-303
Impact Factor: 2.9
Link: <https://doi.org/10.12989/cac.2017.19.3.293>

69. Effect of elevated temperature and cooling regimes on mechanical and durability properties of rubberized concrete

Author(s): Gupta, T., Siddique, S., Sharma, R. K., and Chaudhary, S.
Journal: Construction and Building Materials
Year: 2017
Volume/Pages: 137, 35-45
Impact Factor: 7.4
Link: <https://doi.org/10.1016/j.conbuildmat.2017.01.045>

70. Response assessment under dynamic loading and microstructural investigations of rubberized concrete

Author(s): Gupta, T., Tiwari, A., Siddique, S., Sharma, R. K., and Chaudhary, S.
Journal: Journal of Materials in Civil Engineering, ASCE
Year: 2017
Volume/Pages: 29(8), 04017062
Impact Factor: 3.1
Link: [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0002271](https://doi.org/10.1061/(ASCE)MT.1943-5533.0002271)

71. A review on application of structural adhesives in concrete and steel–concrete

composite and factors influencing the performance of composite connections

Author(s): Kumar, P., Chaudhary, S., and Patnaik, A.

Journal: International Journal of Adhesion and Adhesives

Year: 2017

Volume/Pages: 77, 1-14

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Year: 2011

43. A study on the nonlinear characteristics of electrical equipment cabinets under strong seismic motion

Author(s): Cho, S. G., Li, Y. II, Kim, D., Chaudhary, S., and Yoo, J. S.

Conference: Transactions, SMiRT 21

Date: November 06-11, 2011

Place: New Delhi, India

Year: 2011

44. Dynamic behaviour of steel-concrete composite floors

Author(s): Chaudhary, S., Patel, K. A., Kim, D., Cho, S. G., and Ali, A.

Conference: Proc., 27th Conference of Korea Institute of Structural Maintenance Inspection and Korea Infrastructure Safety Corporation (Spring 2011)

Date: May 20, 2011

Place: Seoul, Korea

Year: 2011

45. Seismic behaviour of steel-concrete composite floors in thermal power plants

Author(s): Chaudhary, S., Kim, D., Cho, S. G., Joe, Y. H., and Patel, K. A.

Conference: Proc., Earthquake Engineering Society of Korea 2011

Date: March 18, 2011

Place: Seoul, Korea

Year: 2011

46. Service load behaviour of epoxy bonded steel-concrete composite bridges

Author(s): Patel, K. A., Kim, D., Chaudhary, I. P., and Chaudhary, S.

Conference: Proc., Asia-Pacific Young Researchers & Graduates Symposium 2011

Date: March 25-26, 2011

Place: Taipei, Taiwan

Year: 2011

47. Dynamic behaviour of steel-concrete composite shear wall

Author(s): Chaudhary, S., Ali, A. Patel, K. A., Kim, D., and Cho, S. G.

Conference: Proc., The 2011 World Congress on Advances in Structural Engineering and Mechanics

Date: September 18-22, 2011

Place: Seoul, Korea

Year: 2011

48. Seismic analysis of steel-concrete composite walls of nuclear power plant structures

Author(s): Chaudhary, S., Ali, A., Kim, D., and Cho, S. G.

Conference: Transactions, SMiRT 21

Date: November 06-11, 2011

Place: New Delhi, India

Year: 2011

49. Strengthening of Steel-concrete composite beams

Author(s): Kumari, S., and Chaudhary, S.

Conference: Proc. International conference on Innovative World of Structural Engineering (ICIWSE-2010)

Date: December 25-27, 2010

Place: Aurangabad, India

Year: 2010

50. Finite element study of a bonded steel and concrete composite beam

Author(s): Kumari, S., Patel, K. A., and Chaudhary, S.

Conference: Proc., International Conference on Innovative World of Structural Engineering (ICIWSE-2010)

Date: December 25-27, 2010

Place: Aurangabad, India

Year: 2010

51. Effect of flexibility of shear connectors on service load behavior of steel-concrete composite structures

Author(s): Chaudhary, S., and Kumari, S.

Conference: Proc., Int. Conf. Advances in Mechanical and Building Sciences in the 3rd Millenium

Date: December 14-16, 2009

Place: Vellore, India

Year: 2009

52. Non-Linear behaviour of steel-concrete composite frames

Author(s): Patel, K. A., Kumari, S., and Chaudhary, S.

Conference: Proc. Sustainable Concrete Infrastructure Development (SCID-2009)

Date: May 19-20, 2009

Place: Jaipur, India

Year: 2009

53. Simplified technique for the design of steel concrete composite beams using artificial neural networks

Author(s): Chaudhary, S., and Nagpal, A. K.

Conference: Proc., the First International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering

Date: September 01-04, 2009

Place: Funchal, Madeira, Portugal

Year: 2009

54. Neural network-based structural monitoring and damage detection

Author(s): Chaudhary, S., and Kumari, S.

Conference: Proc., Civil Engg. Conference- Innovation without limits

Date: Sept. 18-19, 2009

Place: Hamirpur, India
Year: 2009

55. Analysis and behaviour of composite structures at service load

Author(s): Chaudhary, S., and Nagpal, A. K.
Conference: Proc., Int. Conf. Advances in Concrete, Structural and Geotechnical Engineering
Date: October 25-27, 2009
Place: Pilani, India
Year: 2009

56. Mortarless masonry system for accelerated construction

Author(s): Naqvi, S. A. A., Bajpai, S., and Chaudhary, S.
Conference: Proc. Recent Trends in Geotechnical and Structural Engineering (RTGSE-2007)
Date: December 22-23, 2007
Place: Jaipur, India
Year: 2007

57. Mortarless Masonry: An Overview

Author(s): Naqvi, S. A. A., and Chaudhary, S.
Conference: Proc. International Conference on Recent Developments in Structural Engineering (RDSE-2007)
Date: August 30-September 01, 2007
Place: Manipal, India
Year: 2007

58. Neural network model for short term inelastic moments at interior supports of continuous composite beams

Author(s): Pendharkar, U., Chaudhary, S., and Nagpal, A. K.
Conference: Proc. National Seminar on Soft Computing Methodology-07
Date: March 19-20, 2007
Place: UEC Ujjain, India
Year: 2007

59. Time-dependent behavior of continuous composite beams

Author(s): Chaudhary, S., Pendharkar, U., and Nagpal, A. K.
Conference: Proc., Third Int. Conf. Steel and Composite Structures
Date: July 30-August 01, 2007
Place: Manchester, UK
Year: 2007

60. Sensitivity analysis for predicting parameters for ANN for bending moment in continuous composite beams considering concrete cracking

Author(s): Pendharkar, U., Chaudhary, S., and Nagpal, A. K.
Conference: Proc., Recent Advances in Computational Mechanics and Simulation
Date: December 08-10, 2006
Place: IIT Guwahati, India
Year: 2006

61. Composite steel-concrete construction

Author(s): Bharti, S. D., and Chaudhary, S.
Conference: Proc., National Seminar on Recent Trends in Civil Engineering
Date: Feb. 22-23, 2002
Place: MBM Engg. College, Jodhpur, India

Year: 2002

62. Effect of grouting and reinforcement on hollow block masonry

Author(s): Chaudhary, S., and Gupta, R. C.

Conference: Proc., National Seminar on Recent Trends in Civil Engineering

Date: Feb. 22-23, 2002

Place: MBM Engg. College, Jodhpur, India

Year: 2002

Patents

1. Cow dung-based lightweight construction materials and method

Author(s): Gupta, S., and Chaudhary, S.

Year: 2024

Application Number: 202421010279

Grant Number: -

Grant Date: -

Description: The present invention provides a composition and process where cow dung is used as a natural foaming agent for manufacturing of lightweight concrete, bricks and blocks.

2. Composition for preparation of Paver Block utilizing rubber waste

Author(s): Authors: Gupta, T., Sharma, R. K., Chaudhary, S., and Siddique, S

Year: 2020

Application Number: 202011018399 A

Grant Number: 385236

Grant Date: Dec. 27, 2021

Description: The present invention relates to a method of preparation of paver block utilizing rubber waste. The object of the proposed invention is to utilize waste tyre material and replacing the fine aggregate by waste tyre rubber ash (in powder form) and rubber fibers (in shredded form). The composition for preparation of sustainable rubcrete paver blocks comprises of cement (15.83%, 365 kg), fine aggregate (26.50%, 611 kg), coarse aggregate (48.79%, 1125 kg), waste rubber ash (1.69%, 39 kg), waste rubber fibers (1.34%, 31 kg), water (5.55%, 128 kg) and super plasticizer (0.30%, 7 kg) for production of one cubic meter concrete. Proposed paver blocks have unique feature of high energy absorption capacity, better abrasion resistance, and less water absorption. Following invention is described in detail with the help of Figure 1 of sheet 1 showing schematic presentation with dimensions of the proposed sustainable paver block.

3. Method of Preparation of Conplas Paver Block Utilizing waste Polythene

Author(s): Gupta, T., Chaudhary, S., Sharma, R. K., and Jain, S.

Year: 2020

Application Number: 202011002264

Grant Number: 396218

Grant Date: May 5, 2022

Description: The present invention relates to a method of preparation of paver block utilizing waste polythene bags. The object of the proposed invention is to utilize sustainable waste material and analogously minimizing the consumption of fine aggregate by replacing it with waste polythene bags in shredded form. The composition for preparation of sustainable conplas paver blocks comprises of cement (17.15%, 416.67 kg), fine aggregate (26.79%, 650.95kg), coarse aggregate (48.15%, 1170kg), waste polythene bags (1.71%, 41.55kg) and water (6.19%, 150.5kg) for production of one cubic meter concrete. Conplas paver blocks have unique feature of high impact resistance and energy absorption capacity.

Following invention is described in detail with the help of Figure 1 of sheet 1 showing schematic presentation with dimensions of the sustainable conplas paver block.

Research Projects

1. Inspiring the researchers of tomorrow in sustainable concrete construction

Year: 2024-2025

Funded By: SPARC and UKIERI

Collaborator(s): University of Plymouth, UK and NIT Warangal, India

Project Type: Sponsored Research Project

Role: As Principal Investigator

2. Technology Dissemination of Compressed Colored Composite for a wide range of products to support sustainable rural infrastructure

Year: 2023-2025

Funded By: DST, Gol

Collaborator(s): TIET Patiala, India

Project Type: Sponsored Research Project

Role: As Principal Investigator

3. PARVAT (Prevention of accidents in hilly routes by virtue of automated technology)

Year: 2023-2024

Funded By: DRISHTI-CPS, IIT Indore

Collaborator(s): Student PI: Himanshu Khati, Benjamin Basumatary

Project Type: Sponsored Research Project

Role: As a Guide

4. Innovative and sustainable fibre-reinforced recycled aggregate concretes for structural applications

Year: 2023-2024

Funded By: INSA, DST, GOI

Collaborator(s): ISRF: Dr. Thanongsak Imjai

Project Type: Sponsored Research Project

Role: As Scientist Mentor

5. GOBAiR - a novel cow dung based foaming agent for developing sustainable light weight construction materials

Year: 2023-2024

Funded By: IIT Indore

Collaborator(s): TRF: Dr. Sanchit Gupta

Project Type: Sponsored Research Project

Role: As Scientist Mentor

6. Sustainable solution for limestone shortage in cement manufacturing through Ca-rich bio ash

Year: 2022-2024

Funded By: DST, GOI

Collaborator(s): NPDF: Dr. Ashita Singh

Project Type: Sponsored Research Project

Role: As Scientist Mentor

7. Carbon-neutral technologies for recycling large-tonnage waste from fuel energy

with the production of functional geopolymer materials

Year: 2022-2024

Funded By: Government of the Russian Federation

Collaborator(s): Platov South-Russian State Polytechnic University (NPI), Russia

Project Type: Sponsored Research Project

Role: As Principal Investigator

8. A digital twin based real time traffic regulation system for risk management and failure prevention in bridges

Year: 2022-2023

Funded By: DRISHTI-CPS, IIT Indore

Collaborator(s): Student PI: Ayush

Project Type: Sponsored Research Project

Role: As a Guide

9. Real time quality control tool for fresh state concrete using a hydrostatic digital twin model

Year: 2022-2023

Funded By: DRISHTI-CPS, IIT Indore

Collaborator(s): Student PI: Parth Dwivedi

Project Type: Sponsored Research Project

Role: As a Guide

10. PA cyber physical system for low energy HVAC solutions based on natural thermal cycles and adaptive thermal comfort for smart cities

Year: 2022-2023

Funded By: DRISHTI-CPS, IIT Indore

Collaborator(s): Student PI: Sumer Thakur

Project Type: Sponsored Research Project

Role: As a Guide

11. A comprehensive rheology based thixotropic fluid flow model for improved control on 3D printing of concrete

Year: 2021-2024

Funded By: SERB, DST, GOI

Collaborator(s): -

Project Type: Sponsored Research Project

Role: As Principal Investigator

12. Waste characterization and possible gainful utilization of induction melting furnace dust

Year: 2021-2022

Funded By: Jaideep Ispat & Alloys Pvt. Ltd., Moira Sariya, India

Collaborator(s): -

Project Type: Sponsored Research Project

Role: As Co-Principal Investigator

13. Safeguarding heritage structures using seismic metamaterials

Year: 2019-2021

Funded By: SPARC, MHRD

Collaborator(s): UNIVERSITÉ AIX-MARSEILLE, France and IMPERIAL COLLEGE LONDON, UK

Project Type: Sponsored Research Project

Role: As Principal Investigator

14. Utilization of Bamboo Strip as reinforcement in concrete

Year: 2019-2020

Funded By: TEQIP, MHRD

Collaborator(s): -

Project Type: Sponsored Research Project

Role: As Co-Principal Investigator

15. Investigation of cracks in concrete PSC Girder on Bridge no 10 in RAU to TIHI new Broad Gauge line section

Year: 2019

Funded By: Western Railway

Collaborator(s): -

Project Type: Consultancy Project

Role: As Principal Investigator

16. Natural-coloured functionally graded rubberised geopolymer system: A cement-less solution for optimised concrete paver manufacturing

Year: 2018-2020

Funded By: DST, GOI

Collaborator(s): University of Edinburgh, UK

Project Type: Sponsored Research Project

Role: As Principal Investigator

17. Investigations for structural safety of Mughal Museum being made by Precast Technique and subsequent technical suggestions

Year: 2018-2019

Funded By: U.P Rajkiya Nirman Nigam Ltd.

Collaborator(s): -

Project Type: Consultancy Project

Role: As Principal Investigator

18. Third Party Quality Assurance for Infrastructure of New Campus of IIM Udaipur

Year: 2018

Funded By: CPWD

Collaborator(s): -

Project Type: Consultancy Project

Role: As Principal Investigator

19. Sustainable and economical functionally graded rubberized concrete pavements

Year: 2017-2021

Funded By: DST, GOI

Collaborator(s): University of Carthage, Tunisia

Project Type: Sponsored Research Project

Role: As Principal Investigator

20. Vetting of Design and Drawing of 90 meter Arch, 252 meter suspension bridge & 90 meter truss bridge at Rajim, Raipur (C.G.)

Year: 2017

Funded By: AQUATIC Pump Industries, Indore (India)

Collaborator(s): -

Project Type: Consultancy Project

Role: As Principal Investigator

21. Utilization of plastic waste in concrete: Feasibility studies

Year: 2016-2019

Funded By: DST, GOI

Collaborator(s): MNIT Jaipur

Project Type: Sponsored Research Project

Role: As Principal Investigator

22. Waste utilisation in concrete as aggregate: Asian perspective

Year: 2016-2019

Funded By: Asian Concrete Federation

Collaborator(s): Researchers from China, Hong Kong and Thailand

Project Type: Sponsored Research Project

Role: As Principal Investigator

23. Durability studies on geopolymer concrete containing waste rubber fibre as partial replacement of sand

Year: 2015-2017

Funded By: DST, GOI

Collaborator(s): -

Project Type: Sponsored Research Project

Role: As Scientist Mentor

24. Experimental investigations of bond characteristics of steel-concrete composite interface connected by adhesive bonding

Year: 2015-2016

Funded By: Institution of Engineers (India)

Collaborator(s): Student PI: Pankaj Kumar

Project Type: Sponsored Research Project

Role: As a Guide

25. Proof checking of structural design and drawing of bridge at Gambhiri river and ROB at Hindaun Bypass

Year: 2014-2016

Funded By: RSRDC Ltd., Jaipur

Collaborator(s): -

Project Type: Consultancy Project

Role: As Principal Investigator

26. Proof Checking of Structural Design/Drawings for C/o 500 Bedded Boys Hostel and 210 Bedded Girls Hostel with provision for future vertical extension on III floor

Year: 2014-2015

Funded By: CPWD, Jaipur

Collaborator(s): -

Project Type: Consultancy Project

Role: As Principal Investigator

27. Proof Checking of Structural Design of Multistoried residential apartment located at Sun-City, Jaipur-Bikaner Highway, Jaipur

Year: 2014

Funded By: Apeksha Infrastructures Pvt. Ltd., Jaipur

Collaborator(s): -

Project Type: Consultancy Project
Role: As Principal Investigator

28. Experimental and analytical studies for the short term and long term behavior of epoxy bonded steel-concrete composite bridges

Year: 2012-2015
Funded By: DST, GOI
Collaborator(s): -
Project Type: Sponsored Research Project
Role: As Principal Investigator

29. Technical evaluation/quality assessment of PQC mix for cement content

Year: 2012-2013
Funded By: Airport Authority of India, Jaipur
Collaborator(s): -
Project Type: Consultancy Project
Role: As Principal Investigator

30. Proof checking of structural design and drawing of three ROB's at Makrana, Kishangarh and Ajmer in Rajasthan

Year: 2012-2013
Funded By: Multimedia Consultants Pvt. Ltd., Ahmadabad, India
Collaborator(s): -
Project Type: Consultancy Project
Role: As Principal Investigator

31. Proof checking design of substructure of seventeen major railway bridges in the Swarupganj-Abu Road section of Ajmer division of north western railway

Year: 2011-2012
Funded By: Rail Vikas Nigam Limited
Collaborator(s): -
Project Type: Consultancy Project
Role: As Principal Investigator

32. Durability of concrete containing zinc slag as partial replacement of sand

Year: 2010-2013
Funded By: DST, GOI
Collaborator(s): -
Project Type: Sponsored Research Project
Role: As Scientist Mentor

33. Development of a highly efficient procedure and GUI equipped software for the service load analysis of composite structures

Year: 2008-2011
Funded By: DST, GOI
Collaborator(s): -
Project Type: Sponsored Research Project
Role: As Principal Investigator

34. Performance evaluation of interlocking brick/block masonry

Year: 2007-2008
Funded By: Institution of Engineers (India)
Collaborator(s): Student PI: Ahmed Naqvi

Project Type: Sponsored Research Project
Role: As a Guide

35. Knowledge incubation for technical education under Technical Education Quality Improvement Program of MHRD

Year: -
Funded By: MHRD
Collaborator(s): -
Project Type: Institute Level Project
Role: -

36. Proof Checking of Various designs and drawings of Rajasthan Rural Water Supply and Mitigation Project

Year: -
Funded By: Larsen & Toubro Limited. Ltd., Chennai
Collaborator(s): -
Project Type: Consultancy Project
Role: As Principal Investigator

Supervised Dissertations

1. To be declared

Name: Manish
Year: Ongoing
Co-Supervisors: -
Degree: MTech and MSc Awarded/Ongoing

2. To be declared

Name: Krishna
Year: Ongoing
Co-Supervisors: -
Degree: MTech and MSc Awarded/Ongoing

3. To be declared

Name: Noman
Year: Ongoing
Co-Supervisors: -
Degree: MTech and MSc Awarded/Ongoing

4. Optimization of Sustainable Construction Materials for Industrial Applications

Name: Sanchit Gupta
Year: 2024
Co-Supervisors: -
Degree: PhD Thesis Awarded

5. Utilization of fine micron size waste of vitrified porcelain stoneware tiles for sustainable and durable concrete

Name: Pooja Jain
Year: 2023
Co-Supervisors: Dr. Rajesh Gupta
Degree: PhD Thesis Awarded

6. Raman Spectroscopic Study of Building Construction Materials

Name: Chetan Shakti Pandey

Year: 2022

Co-Supervisors: Dr. Rajesh Kumar

Degree: MTech and MSc Awarded/Ongoing

7. Performance assessment of rubberised self-compacting concrete

Name: Akshay Thakare

Year: 2022

Co-Supervisors: -

Degree: PhD Thesis Awarded

8. Strength, durability, ductility and microstructure investigation of functionally graded concrete containing rubber fiber as replacement of fine aggregate

Name: Sumit Choudhary

Year: 2022

Co-Supervisors: Dr. Rajesh Gupta

Degree: PhD Thesis Awarded

9. Finite element simulations of Nanoindentation on FCC single crystals

Name: Eli Pradeep

Year: 2022

Co-Supervisors: Dr. Indrasen Singh

Degree: MTech and MSc Awarded/Ongoing

10. Structural health monitoring of Railway Bridge

Name: Bagle Sushil Sukalal

Year: 2022

Co-Supervisors: Dr. Pavan Kumar Kankar

Degree: MTech and MSc Awarded/Ongoing

11. Sustainable production of self-compacting concrete utilizing fly ash and granite waste

Name: Abhishek Jain

Year: 2021

Co-Supervisors: Dr. Rajesh Gupta

Degree: PhD Thesis Awarded

12. Industrial scale waste utilisation in unfired bricks

Name: Vivek Gutpa

Year: 2021

Co-Supervisors: -

Degree: PhD Thesis Awarded

13. Assessment of Corrosion Behaviour of Stainless Steel Reinforced Bar in Concrete

Name: Anurag Singh Chauhan

Year: 2021

Co-Supervisors: Dr. Vinod Kumar

Degree: MTech and MSc Awarded/Ongoing

14. Investigations into behaviour of adhesive bonded steel-concrete composite flexural members

Name: Ankit Bhardwaj

Year: 2020

Co-Supervisors: Prof. V. Matasagar; Prof. A. K. Nagpal

Degree: PhD Thesis Awarded

15. Performance evaluation of mechanically connected and adhesive bonded steel-concrete composite connections

Name: Pankaj Kumar

Year: 2018

Co-Supervisors: Dr. Amar Kumar Patnaik

Degree: PhD Thesis Awarded

16. Utilisation of bone china ceramic waste as fine aggregate in sustainable concrete

Name: Salman Siddique

Year: 2018

Co-Supervisors: Dr. S. Shrivastava

Degree: PhD Thesis Awarded

17. Effect of different hydrophobic treatments on properties of recycled aggregate concrete

Name: Ram Swaroop Mandolia

Year: 2017

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

18. Feasibility of use of sludge from settling tank of bisalpur water treatment plant as partial replacement of fine aggregate in concrete

Name: Inderjeet Singh Choudhary

Year: 2017

Co-Supervisors: Prof. A. B. Gupta

Degree: MTech and MSc Awarded/Ongoing

19. Feasibility of use of silt from storm water drain as partial replacement of fine aggregate in concrete

Name: Rijuta Gupta

Year: 2017

Co-Supervisors: Prof. A. B. Gupta

Degree: MTech and MSc Awarded/Ongoing

20. Numerical analysis of steel-concrete composite girder under cyclic loading

Name: Ashutosh Gupta

Year: 2017

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

21. Performance evaluation of rubberised geopolymer concrete and flyash based geopolymer mortar

Name: Salmabanu Luhar

Year: 2017

Co-Supervisors: -

Degree: PhD Thesis Awarded

22. Effect of position of singly reinforcement layer in steel-concrete composite section

Name: Rahul Karwasra

Year: 2016

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

23. Effect of position of double reinforcement layer on composite sections

Name: Jayesh Kr. Teli

Year: 2016

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

24. Strength and durability studies of alkali-activated fly ash based geopolymer mortar

Name: Suman Choudhary

Year: 2016

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

25. Development of computationally efficient techniques for instantaneous and time-dependent analysis of reinforced concrete beams and frames at service load

Name: Kashyap A. Patel

Year: 2016

Co-Supervisors: Prof. A. K. Nagpal

Degree: PhD Thesis Awarded

26. Strength, durability, ductility and fire performance of concrete containing waste rubber tyre ash and rubber fibers as partial replacement of fine aggregates

Name: Trilok Gupta

Year: 2016

Co-Supervisors: Prof. R. K. Sharma

Degree: PhD Thesis Awarded

27. Development of computational techniques for service load analysis of steel-concrete composite structures

Name: M. P. Ramnavas

Year: 2016

Co-Supervisors: Prof. A. K. Nagpal

Degree: PhD Thesis Awarded

28. Effect of reinforcement detailing on shear connection in steel-concrete composite structures

Name: Nawal Kr. Dwivedi

Year: 2015

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

29. Effect of concrete strength on behaviour of mechanical connection in steel concrete composite

Name: Pradeep Kumar

Year: 2015

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

30. Flood risk assessment using MATLAB fuzzy logic model

Name: Sunil Kr. Pradhan

Year: 2015

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

31. Cost optimisation of flexibly connected composite beams

Name: Minhaj Majeed

Year: 2014

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

32. Optimisation of simply supported composite beams using genetic algorithm technique

Name: Rupesh Ramesh Gawas

Year: 2013

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

33. Experimental investigations for shear bond strength of steel and concrete bonded by epoxy

Name: Pankaj Kumar

Year: 2013

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

34. Study on behaviour of recycled coarse concrete aggregates in addition with cast iron/mild steel powder in concrete

Name: Ashish Garg

Year: 2013

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

35. Experimental and numerical studies for the behaviour of interlocking block masonry

Name: S.A.A. Naqvi

Year: 2013

Co-Supervisors: -

Degree: PhD Thesis Awarded

36. Effect of skewness on three span reinforced concrete t girder bridges

Name: Bhawnesh Kuldeep

Year: 2013

Co-Supervisors: Prof. R. Nagar

Degree: MTech and MSc Awarded/Ongoing

37. Durability of concrete containing ISF slag as partial replacement of sand

Name: Bhavna Tripathi

Year: 2012

Co-Supervisors: -

Degree: PhD Thesis Awarded

38. Finite element analysis of traditional and interlocking masonry

Name: Vimal Kumar

Year: 2012

Co-Supervisors: Prof. R. Nagar
Degree: MTech and MSc Awarded/Ongoing

39. Comparative study of space structural forms under gravity and lateral loads

Name: Durgesh Nandini Bairwa

Year: 2012

Co-Supervisors: Prof. R. Nagar

Degree: MTech and MSc Awarded/Ongoing

40. Prediction of ultimate shear strength of reinforced concrete beams using artificial neural networks

Name: Gaurav Saraswat

Year: 2010

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

41. 3-d finite element study of bonded and mechanically connected steel-concrete composite beams by 3-dimensional finite element modelling

Name: Indra P. Choudhary

Year: 2010

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

42. Nonlinear behaviour of steel-concrete composite frames

Name: Kashyap Patel

Year: 2009

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

43. Development of hybrid analytical numerical procedure for service load analysis of composite frames and beams using step-by-step method for modeling of time dependent effects of creep and shrinkage phenomena

Name: Addisu Shewarega

Year: 2009

Co-Supervisors: Prof. A. K. Nagpal

Degree: MTech and MSc Awarded/Ongoing

44. Development of neural networks for prediction of deflection of composite frame considering non-linearities-flexibility of shear connection, cracking of concrete and yielding of steel

Name: Ashish Yadav

Year: 2009

Co-Supervisors: Prof. A. K. Nagpal

Degree: MTech and MSc Awarded/Ongoing

45. Development of neural networks for prediction of deflection of composite bridges considering non-linearities-flexibility of shear connection, cracking of concrete and yielding of steel

Name: Kasi Viswanath

Year: 2009

Co-Supervisors: Prof. A. K. Nagpal

Degree: MTech and MSc Awarded/Ongoing

46. Behaviour of tall composite building frames considering cracking of concrete, creep and shrinkage subjected to service load

Name: Sunil Kumar

Year: 2009

Co-Supervisors: Prof. A. K. Nagpal

Degree: MTech and MSc Awarded/Ongoing

47. Behaviour of graphite/epoxy laminates subjected to low velocity transverse impact

Name: Suchindra Silayach

Year: 2009

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

48. Control of cracking, creep and shrinkage effects in steel concrete composite frames

Name: Lalit Kr. Varshney

Year: 2009

Co-Supervisors: Prof. A. K. Nagpal

Degree: MTech and MSc Awarded/Ongoing

49. Behaviour of steel concrete composite frames

Name: Amit Kr. Garg

Year: 2008

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

50. Computer aided design of footings

Name: Deepak Gaur

Year: 2005

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

51. Castellated beam- analysis and design

Name: Neeraj Gupta

Year: 2005

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

52. Reinforced block masonry

Name: Pawan Singhania

Year: 2005

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

53. Cost comparison of multistoreyed buildings in earthquake zones

Name: Kapil Sarawagi

Year: 2005

Co-Supervisors: -

Degree: MTech and MSc Awarded/Ongoing

54. Computer aided design of composite tee beam bridge

Name: Pramiti Tiwari

Year: 2001

Co-Supervisors: Dr. M. K. Shrimali
Degree: MTech and MSc Awarded/Ongoing

55. Study of various methods of concrete mix design

Name: Rajesh Poonia
Year: 2001
Co-Supervisors: -
Degree: MTech and MSc Awarded/Ongoing

56. Study of soil classification systems

Name: Sudhir Verma
Year: 2001
Co-Supervisors: -
Degree: MTech and MSc Awarded/Ongoing

57. Risk and safety margins in structural design

Name: Ajay Saxena
Year: 2000
Co-Supervisors: -
Degree: MTech and MSc Awarded/Ongoing

58. Naturally colored composites and their application as building products

Name: Akash Paradkar
Year: -
Co-Supervisors: -
Degree: PhD Thesis in progress

59. Investigating Structural performance of Innovative Engineered Bamboo-Timber Composite TRAIL BRIDGES for Prosperity to Rural Ethiopia

Name: Habtamu Melesse
Year: -
Co-Supervisors: Prof. Krishnaraj Ramaswamy
Degree: PhD Thesis in progress

60. Development of sustainable construction materials through recycling of solar wastes

Name: Gaurav Sharma
Year: -
Co-Supervisors: -
Degree: PhD Thesis in progress

61. Service life estimation of concrete under corrosion

Name: Kameshwar Nim
Year: -
Co-Supervisors: -
Degree: PhD Thesis in progress

62. Comprehensive rheology based thixotropic fluid flow model for cement-based composites

Name: Astha Sharma
Year: -
Co-Supervisors: -
Degree: PhD Thesis in progress