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Area of Specialization: Structural Engineering

Publications:

International Journals

1. **Chithra.S, S.R.R.Senthil Kumar, K.Chinnaraju, Prabhu.S and Chithra.R., “Analytical investigations on flexural behaviour of HPC beams with copper slag as partial replacement of fine aggregate using ABAQUS” International Journal of Applied Engineering Research, Volume 10, Number 19 (2015), pp: 14054 – 14058.**
2. **Sabna Ashmi H, Chithra R and Chithra S, “Study on the Flexural Behaviour of Fibre Reinforced and Prefabricated Cage Reinforced Concrete Beams” International Journal of Applied Engineering Research, Volume 10, Number 19 (2015), pp: 13953 – 13958.**
3. **Chithra R, Sunilaa George, Deepa Shri S, Chithra S and Sabna Ashmi H, “An Experimental Study on the Influence of Light weight Aggregate in Self Curing Concrete” International Journal of Applied Engineering Research, Volume 10, Number 19 (2015), pp: 14016 – 14020.**
4. **S. Chithra, S.R.R. Senthil Kumar, K. Chinnaraju, “The effect of Colloidal Nano-silica on workability, mechanical and durability properties of High Performance Concrete with Copper slag as partial fine aggregate” Construction and Building Materials (Elsevier science), 113 (2016), 794–804.**
5. **S. Chithra, S.R.R. Senthil Kumar, K. Chinnaraju, F.Alfin Ashmita, “A comparative study on the Compressive Strength prediction models for High Performance Concrete containing nano silica and copper slag using regression analysis and**

artificial neural networks” Construction and Building Materials (Elsevier science), 114 (2016), 528–535.

6. **S. Chithra, G.Indupriya, “Contributions of Different Standards and Codes for the Design of Silo: A Review”** The Asian Review of Civil Engineering (TARCE), Vol. 5, No. 2, July-December 2016.
7. **S. Chithra, G.Indupriya, “A Preliminary study on the loading and vulnerability of silos”** International Journal of Civil Engineering and Concrete structures, Vol. 2, No. 2, April 2017.
8. **M.Akila, S.Chithra, “Optimization of design mix proportion for saturated water absorption of high performance concrete”** in a “Asian Journal of Engineering and applied Technology” Volume 7, pg 24-27 April 2018
9. **Arul priyan S, Chithra S, “Compressive strength modelling of high performance concrete by Anfis”**, International Journal of Advanced in management, Technology and Engineering science, Volume 8,issue IV, pg 685-695 April 2018.
10. **M.Sasi regha, S.Chithra , “ Prediction of early age compressive strength of silica fume incorporated high performance concrete”** in Journal of advanced research in applied science (IAETSD-JARAS), Volume 5, issue 4, pg 482-487, April 2018.
11. **Oorkalan, S.Chithra, “Study On Hybrid Fibre Reinforced Concrete With Partial Replacement Of Cement With Fly Ash And Rice Husk Ash”**, Journal of Emerging Technologies and Innovative Research, Volume 5, Issue 11, Pg 27-32, November 2018.
12. **A.Oorkalan, S.Chithra, “Effect of Coconut Coir Pith as partial substitute for river sand in eco-friendly concrete”** Elsevier Journal Materials Today: Proceedings, July 2019.
13. **A.Oorkalan, S.Chithra, R.Balaji, S.Ganesh Kumar, J.Kishore Kumar, T.Kishzore Kumar, “Experimental study on high volume fly ash concrete made with coir pith andn quarry dust”**, Elsevier Journal Materials Today: Proceedings, August 2019.
14. **R.Chithra, K.Ramadevi, S.Chithra, R.Ravindra Chandra, L.Mangaleshwaran “Production of Medium Strength Self Compacting Concrete using Silica Fume and Quarry Dust”**, International Journal of Engineering and Advanced Technology, August 2019.
15. **S. Praburanganathan, S. Chithra, “Synergy of waste glass powder and waste rubber: A research on loading, perseverance and morphological features of unburnt Fly-ash-based masonry units”**, Materials and technology, 54 (1), Pg 99–106, February 2020.
16. **Mohammed Hassain B, Chithra S, “Analytical Study and Seismic Evaluation of Diagrid Structural System For High Rise Steel Building”**, International Research Journal of Engineering and Technology, Volume: 07 Issue: 06, Pg 984-989, June 2020.

Details of paper publication

International Conference

1. S.Prabhu, **S.Chithra**, S.R.R.Senthil Kumar, K. Chinnaraju and R.Chithra, “**Analytical Study on the behaviour of High Performance Concrete beam by Partially Replacing Natural Sand with Copper Slag using ABAQUS**” in 1st International Conference on Advanced Engineering and Technology for Sustainable Development (AETSD) 2015 conducted by Karpagam College of Engineering, Coimbatore on 05.03.2015 and 06.03.2015.
2. Sabna Ashmi H, Chithra R and **Chithra S**, “**Study on the Flexural Behaviour of Fibre Reinforced and Prefabricated Cage Reinforced Concrete Beams**” in 1st International Conference on Advanced Engineering and Technology for Sustainable Development (AETSD) 2015 conducted by Karpagam College of Engineering, Coimbatore on 05.03.2015 and 06.03.2015.
3. R.Rajkumar, R.Chithra, **S.Chithra** “**Numerical Study On Behavior of T Beam-Column Joint Under Cyclic Load**” in 2nd International Conference on “**Advanced Engineering and Technology for Sustainable Development (ICAETSD 2016)**” conducted by Karpagam College of Engineering, Coimbatore on 19.02.2016 and 20.02.2016.
4. S.Surya, R.Chithra, D.Prasannan & **S.Chithra** “**Numerical Analysis on Flexural Behaviour of Concrete Beam Reinforced With Basalt Rod**” in 2nd International Conference on “**Advanced Engineering and Technology for Sustainable Development (ICAETSD 2016)**” conducted by Karpagam College of Engineering, Coimbatore on 19.02.2016 and 20.02.2016.
5. F.Alfin Ashmita, S.R.R.Senthil Kumar, **Chithra.S** and K.Chinnaraju “**Modelling Elastic Modulus of High Performance Concrete Using Artificial Neural Networks**” International Conference on Explorations & Innovations in Engineering and Technology ICEIET – 2016 conducted by Hindusthan Institute of Technology, Coimbatore on 18.3.2016 and 19.3.2016.
6. A.Oorkalan, **S.Chithra**, presented a paper on “**Study on Cement mortars made with coir pith particles**” in the International Conference on “**Newer Engineering concepts and technology - 2K17**” at K.Ramakrishnan college of Technology, Tiruchirappalli on 28 and 29 March 2017.
7. G.Indupriya, **S.Chithra**, presented a paper on “**Analysis of cylindrical steel silo using Abaqus**” in the International Conference on “**Latest advances in Civil Engineering for sustainable development LACE’ 2K17**” at SNS college of Technology, Coimbatore on 07 April 2017.
8. T. M. Abdul Kader, **S.Chithra**, presented a paper on “**Study on High Performance Concrete made with Metakaolin and Copper slag**” in the International Conference on “**Latest advances in Civil Engineering for sustainable development LACE’ 2K17**” at SNS college of Technology, Coimbatore on 07 April 2017.

9. M.Pavithra, R. Chithra and **S.Chithra**, presented a paper on **“Influence of silica fume on the properties of self compacting concrete”** in the International Conference on **“Latest advances in Civil Engineering for sustainable development LACE’ 2K17”** at SNS college of Technology, Coimbatore on 07 April 2017.
10. M.Muhsina Parveen, **S.Chithra**, A.Abinayaa , **“Investigations on the Bond Properties of Corroded Reinforced Concrete Specimens”** in the International Conference on Triple Helix Ecosystem for Earth, Environment and Energy THE3E 2020, at PSG Institute of Technology and Applied Research Neelambur, Coimbatore on March 18 - 19, 2020

National Conferences

1. S.Prabhu, **S.Chithra** and R.Chithra, **“Analytical Study on the behaviour of Fibre Reinforced HPC beam by partially replacing Natural Sand with Copper Slag”** in TEQIP II Sponsored National Conference on Materials and technologies for sustainable Infrastructure, conducted by Government College of Technology, Coimbatore on 7th & 8th May 2015.
2. R.Gowthaman and **S.Chithra**, **“Study on the behaviour of Recycled Concrete as Fine Aggregate in M25 concrete”** in TEQIP II Sponsored National Conference on Materials and technologies for sustainable Infrastructure, conducted by Government College of Technology, Coimbatore on 7th & 8th May 2015.
3. Sabna Ashmi H, Chithra R and **Chithra S**, **“Analytical Study on the ductile behaviour of Prefabricated Cage Fiber Reinforced Concrete Beams”** in TEQIP II Sponsored National Conference on Materials and technologies for sustainable Infrastructure, conducted by Government College of Technology, Coimbatore on 7th & 8th May 2015.
4. F.Alfin Ashmita, **S.Chithra**, S.R.R. Senthil kumar, K. Chinnaraju presented a paper on **“Prediction of flexural strength of High Performance Concrete with copper slag and micro/nano silica particles”** in the TEQIP-II Sponsored National Conference on **“Materials and Technologies for Sustainable Infrastructure (MTSI ’16)”** conducted by Department of Civil Engineering (S), Government College of Technology, Coimbatore on 29.04.2016 and 30.04.2016.
5. S.Mukesh, **S.Chithra**, S.R.R. Senthil kumar, K. Chinnaraju, R.Chithra **“Prediction of slump flow of Hybrid Fibre Reinforced High Performance Concrete”** in the TEQIP-II Sponsored National Conference on **“Materials and Technologies for Sustainable Infrastructure (MTSI ’16)”** conducted by Department of Civil Engineering (S), Government College of Technology, Coimbatore on 29.04.2016 and 30.04.2016.
6. R.Rajkumar, R.Chithra, **S.Chithra** **“Numerical Study On Behavior Of T Beam-Column Joint Under Cyclic Load Using Steel Fibre”** in the TEQIP-II Sponsored National Conference on **“Materials and Technologies for Sustainable Infrastructure (MTSI ’16)”** conducted by Department of Civil Engineering (S), Government College of Technology, Coimbatore on 29.04.2016 and 30.04.2016.
7. S.Surya, R.Chithra, D.Prasannan & **S.Chithra** **“Influence Of ECC Layer On Concrete Beam Reinforced With Basalt Polymer – Numerical Study”** in the TEQIP-II Sponsored National Conference on **“Materials and Technologies for Sustainable Infrastructure (MTSI ’16)”** conducted by Department of Civil Engineering (S), Government College of Technology, Coimbatore on 29.04.2016 and 30.04.2016.

8. G.Indupriya, S.Chithra, presented a paper on “**Analysis of cylindrical steel silo using Abaqus**” in the National Conference on “**Latest advances in Civil Engineering for sustainable development LACE’ 2K17**” at SNS college of Technology, Coimbatore on 07 April 2017.
9. T. M. Abdul Kader, S.Chithra, presented a paper on “**Study on High Performance Concrete made with Metakaolin and Copper slag**” in the International Conference on “**Latest advances in Civil Engineering for sustainable development LACE’ 2K17**” at SNS college of Technology, Coimbatore on 07 April 2017.
10. M.Ramadoss, S.Chithra, S.Makesh Kumar presented a paper on, “**Study of Self Compacting Concrete Incorporating Bottom Ash**” in the National Conference on “**Advanced Construction Materials and Techniques in Civil Engineering**”, ACMTCE 2019, at Coimbatore Institute of Technology, Coimbatore, on April 25 – 26, 2019.
11. S.Selvakuamr, S.Makesh Kumar, S.Chithra presented a paper on, “**Effect of Utilization of Cement Kiln Dust in Self Compacting Concrete**” in the National Conference on “**Advanced Construction Materials and Techniques in Civil Engineering**”, ACMTCE 2019, at Coimbatore Institute of Technology, Coimbatore, on April 25 – 26, 2019.
12. K.Aravindraj, S.Chithra, S.Praburanganathan presented a paper on, “**Prediction of Mechanical Strength of Waste based flyash bricks using Artificial Neural Network**” in the National Conference on “**Advanced Construction Materials and Techniques in Civil Engineering**”, ACMTCE 2019, at Coimbatore Institute of Technology, Coimbatore, on April 25 – 26, 2019.