Dr. K. ASHA
Assistant Professor
Department of Civil Engineering
BMS College of Engineering
Bangalore -560019

Email id: asha.civ@bmsce.ac.in
Phone No: 9916374887

Date of Birth: 10.04.1978

Total Research Experience: 09 years
Total Teaching Experience: 13 years
Total Experience : 22 years

Educational Degrees

PhD	Indian Institute of Science, Bangalore, Mentor: Prof Sudhakar M Rao
	Thesis: Activation of fly ash lime reactions using phosphogypsum (2006-2010)
M.E	Environmental Engg, UVCE, Bangalore (2000 – 2002)
B. E	Civil Engineering, RVCE, Bangalore (1995 – 1999)

Present Position

Assistant Professor	Department of Civil Engineering, B M S College of Engineering, Bangalore (2018 till date)

Professional/Research Experience

Associate Professor	Department of Civil Engineering, DSCE, K.S. Layout, Bangalore (2016-2018)
Associate Professor	Department of Civil Engineering, MVJCE, Whitefield Bangalore (2012-2016)
Women Scientist	Centre for sustainable technologies, Indian Institute of Science, Bangalore (2010 – 2012)
Research Scholar	Centre for sustainable technologies, Indian Institute of Science, Bangalore (2006 – 2010)
Research Assistant	Department of Civil Engineering, Indian Institute of Science, Bangalore (2003-2006)

Awards & Recoginitions

2023	Awarded grant of Rs 2,00,000 (Two Lakhs only) under FRPS from BMSCE for the project "Removal of Heavy metals from wastewater using spinel ferrites as adsorbent"
2021	Awarded TEQIP – III grant for project proposal Utilization of solid waste Bio-Medical Incinerated Ash in production of Bricks
2019	Awarded grant from Ministry of Steel for project proposal "Studies on Production of Geopolymer Aggregates Using Fly Ash and Bottom Ash as Precursor in Construction Industry by KIOCL, India.
2015	Awarded grant under student project program (SPP) for project proposal "Geo Polymer as next generation soil stabilizer" by Karnataka State Council for Science and Technology (KSCST), IISc, Bangalore, India

2014	Awarded grant of Rs 2, 00,000 (Two Lakhs only) from VTU-VGST to conduct Faculty development program (FDP) on "Effect of Corrosion on the concrete Infrastructure and its Durability
2014	Awarded grant under student project program (SPP) for project proposal "Palletization technique for manufacture of Fly ash aggregates" by Karnataka State Council for Science and Technology (KSCST), IISc, Bangalore, India
2010	Awarded women scientist by Department of Science and Technology (DST), New Delhi, India for the project entitled "Reuse of fly ash and Phosphogypsum in manufacture of FAL-G bricks
2009	Awarded Mondialogo engineering bronze award 2008/2009 (an initiative of Daimler and UNESCO) for project entitled "Reuse of waste materials for Sustainable future" at the international symposium held at Stuttgart, Germany in November 2009.

Publications

1. Rao S.M, Mamatha, **Asha.K**, Soumita K and Mythri D.J (2010). Field studies on defluoridation using Magnesium oxide. Water management. Vol. 163, 147-155.
2. Rao S.M and **Asha.K** (2012). Activation of Fly Ash-Lime Reactions: A Kinetic Approach. ASCE Journal of Materials in Civil engineering. 2012:24:1110-1117
3. Rao S.M and **Asha.K** (2013). Role of Fly Ash Pozzolanic Reactions in Controlling Fluoride Release from Phosphogypsum. ASCE Journal of Materials in Civil engineering. 2013.25:999-1005.
4. Rao S.M, **Asha.K** and Siva Chidambaram, S (2013). Influence of anthropogenic contamination on ground water chemistry in Mulbagal town, Kolar district, India. Geo-Sciences Journal, Vol 17, Issue 1, Page 97-116.
5. **Asha.K** and Chethan Kumar, (2018). Failures due to corrosion in concrete structures. Journal of the Institution of Public Health Engineers, Vol 45, Page 5 -11.
6. Ramaraju & **Asha.K**, (2018). Impact of Water pollution on Arabian Sea due to Gurupura & Nethravathi River. Proceedings of Indian Water Works Association- Annual Convention, Page 72.
7. **Asha.K**.& Geena George (2018). "Study on characteristic strength of partially replaced natural aggregates by Fly ash aggregates in concrete" Journal of Civil Engineering and Environmental Sciences.
8. **Asha.K**.& Geena George (2019). Study on Characteristic Strength of Concrete Partially Replaced by Geopolymer Aggregates", AMC Indian Journal of Civil Engineering.
9. **Asha.K**.& Tejaswini M L (2022) Studies on hardened properties of concrete incorporated with copper Slag. Journal of Materials Today: Proceedings.
10. **Asha.K**.& Geena George (2022). An Experimental study on the properties of Geopolymer Aggregates -An Ecofriendly alternative to Natural Coarse Aggregates. Indian Journal of Natural Sciences.
11. **Asha.K**.& Tejaswini M L (2023) Studies on effect of copper slag fine aggregate on Corrosion processes and behavior in reinforced Concrete specimen, Indian Journal of Natural Sciences.
12. Rajani, M.R. Ravishankar, R, **Asha.K** (2024) "Effective removal of Cr (VI) from an aqueous Solution using a carbon coated NiFe2O4 nano-adsorbent" Colloids and Surfaces A: Physicochemical and Engineering Aspects. 693, 134012.
13. Shivaraju, G. **Asha, K** (2024) "Optimizing Red Soil-Based Geopolymer Bricks: A Sustainable Approach towards Environmentally Friendly Construction Materials, WSEAS Transactions on Environment and Development, pp. 127–136.
14. **Asha.K** and Rajanna T (2024) "Influence of stiffeners on the buckling behaviour of composite panels subjected to non-uniform edge loads", Latin American Journal of Solids and Structures. 21(8)
15. **Asha.K** and Rajanna T (2025) "Influence of local stiffeners and non-uniform edge loads on the stability characteristics of composite laminates with a circular opening" Mechanics Based Design of Structures and Machines
16. **Asha.K** and Nisha (2025) "Carbonaceous NiFe2O4 Nanocomposite: An Efficient Nano-Adsorbent for Toxic Metal Removal from Aqueous Solutions" Water, Air, & Soil Pollution
17. Arjun Kasi and K. Asha (2025) "Hemp Fiber-Reinforced Concrete with FGPS: Mechanical Properties Under High-Temperature and Microstructure Analysis Recent Advances in Infrastructure Development and Management—Volume 2, Lecture Notes in Civil Engineering 566.

18 K. Asha and M. L. Tejaswini (2025) "Assessing the Performance of Chloride Ion Ingress in Concrete Infused with Copper Slag Recent Advances in Infrastructure Development and Management—Volume 2, Lecture Notes in Civil Engineering 566.

Research Guidance (PhD):

1. Name of Research Scholar: **Dr. Geena George (PhD degree awarded)**
2. Name of Research Scholar: **Dr. Tejaswini M L(PhD degree Awarded)**
3. Name of Research Scholar: **Dr. Shivaraju G D (PhD degree Awarded)**
4. Name of Research Scholar: **Mr. Arjun Kasi, USN No: 1BM18PCV06 (Thesis Submitted)**
5. Name of Research Scholar: **Mrs. Sasha Azmi (International Student) USN No: 7BM17PCS01(PhD degree Awarded)**

Professional Body

Life member

1. Indian Society of Technical Education, ISTE
2. Indian Concrete Institute, ICI
3. Indian water works Association, IWWA
4. Institute of Engineers
5. Association of Consulting Civil Engineers- Fellow member

Lectures Delivered

1. Delivered lecture on "Corrosion effects on concrete structures", FDP conducted by Department of Civil Engineering, MVJ College of Engineering from 20th - 23rd May 2014
2. Delivered Lecture for Smart City Innovations by Applying Engineering Technologies" FDP conducted by Department of Civil Engineering, MSRIT 5th -7th August, 2020.
3. Delivered Lecture for "Awas Par Samvaad" a Seminar on Housing in urban Space- Technology and Innovation under Pradhan Mantri Awas Yojana (Urban) [PMAY-U] Mission, Ministry of Housing and Urban Affairs (MoHUA) at Department of civil Engineering, Rao Bahadhur Y. Mahabaleshwarappa Engineering college, Ballari, India scheduled on 28th September 2021
4. Delivered Lecture for "SUSTAINABLE ENERGY EFFICIENT GREEN TECHNOLOGY "FDP conducted by Department of Civil Engineering, MSRIT from 21-03-2022 to 26-03-2022.
5. Delivered lecture on "Performance Assessment of Nutrient removal potential of Artificial Floating Islands in the context of treating polluted Urban Lake" at World water day organized by Dayananda Sagar College of Engineering on 13.04.2022.
6 Delivered lecture on "Sustainable Construction Materials" at School of Architecture, MSRIT on 24.02.2024.

Responsibilities

1. Department level NBA co-ordinator
2. Coordinator for NIRMAAN ICESS – 2018, 2022 and 2024
3. Coordinator for Phase shift – Civil Engg Dept.-2019 & 2021

Member

1. BOE member at Dayananda Sagar College of Engineering, Bangalore
2. BOE Member at M S Ramaiah Institute of Technology, Bangalore
3. BOS Member for M.E (Environmental Engineering) at UVCE, Bangalore University
4. BOS member at Dept. of CTM, SJCE, Mysore
5. BOE member at Dayanandasagar College of Engineering, Bangalore
6. BOS member at RRIT, Bangalore (VTU Nominee)