

Name of Faculty Dr. K JAGANNADHA RAO  
 Designation Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 30-03-2007  
 E-mail Jaganadharao\_civil@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Civil Engineering)	Awarded
PG	M. E. (Structural Engineering)	First
UG	B. E. (Civil Engineering)	First

Work Experience	
Teaching	29 Years
Research	15 years
Industry	--
Others	--

Area of Specialization Structural Engineering, Special Concretes like RAC, SCC, HPC

- Professional Memberships
1. Fellow of the Institution of Engineers–IE (I) F-1174645
  2. Life Member of International Centre for Fibre Reinforced Concrete Composites (ICFRC) ILM 0183
  3. Life Member of Indian Concrete Institute (ICI)LM 11640
  4. Life Member of Indian Society for Technical Education (ISTE) LM17362

- Responsibilities held at Institution Level
1. Joint Director, Student Affairs and Progression from 18-07-2020 to till date
  2. Head of the Department from 10-07-2015 to 22-08-2017 and 10-02-2020 to 22-06-2020
  3. Member, Academic Council, from 10-07-2015 to 22-08-2017 and 10-02-2020 to 22-06-2020
  4. Coordinator, EBSB from January, 2020 to till date.
  5. Chairman, Chaitanya Samskruthi, from 2019 to till date
  6. Coordinator, Skill Development Center from 2013 to 2015.

- Responsibilities held at Department Level
1. Chairman, Board of Studies from 10-07-2015 to 22-08-2017 and 10-02-2020 to 22-06-2020
  2. Member Board of Studies, from 30-03-2007 to 2015 and 22-06-2020 to till date
  3. PG Coordinator from 2008 to 2010
  4. Coordinator, Industry - Institute Interaction, and Industrial Visit and Internship 2018-'19 and 2019-'20
  5. Member, Program Content Committee from 2019 to till date.

Research Guidance Two Research Scholars were awarded Ph. D and Nine Research Scholars work is in progress.

- Awards Received
1. Best presenter award in the International Conference CONCET 2018 held at Kaulalumpur, Malaysia during August 2018.
  2. Sir MV award under the category of academicians for the year 2019 hosted by "SmartInfrest"

Courses Handled at Under Graduate / Post Graduate Level. Strength of Materials-I and II, Theory of Structures I and II, Solid Mechanics, Structural Analysis-I, Theory of Elasticity, Structural Analysis, Advanced Reinforced Concrete Design, Structural Design, Earthquake Resistant Design of Structures

No. of Papers Published National Journals – 09 International Journals – 25  
 National Conference – 26 International Conference – 34

Projects Carried out UGC Minor Research Project on "Strength and Durability Studies on High Strength Recycled Aggregate Concrete" for Rs. 3,55,000/- during 2015-2017

Patents --

Technology Transfer --

Invited Speaker Delivered an invited lecture on "Composites in Construction with Emphasis on Fibre Reinforcement" in the ISAMPE National Conference on Composites (INCCOM 14) January

22, 2016, by ISAMPE Hyderabad Chapter.

No. of Books/Chapter Published with details

1. Published One Chapter on "Mathematical Model for Prediction of Compressive Strength of Normal, Standard and High Strength SCC with RCA" in the lecture notes titled "Advances in Structural Engineering" by Springer, 14<sup>th</sup> May 2020.
2. Published a text book on "Structural Dynamics and Earthquake Engineering" by M/s S K Kataria and Sons January, 2019.

Details of Short-Term Training Programs /Faculty Development Programs /Seminars/Workshops/ Other Trainings (Attended and/or Organized).

1. One Week Online Faculty Development Program on "SWRO, SCRO & SRO Incorporating Universal Human Values in Technical Education (An AICTE Initiative) during 18-22 July, 2020.
2. One Week Online Faculty Development Program on "Advances in Concrete Science and Technology for Sustainability (ACSTS) 2020" conducted by VNRVJIET, Hyderabad during 13-18 July 2020
3. Online FDP on "Recent Trends and Research Scope in Civil Engineering" held during 6-10 July 2020 organised by CBIT, Hyderabad.
4. Online FDP on "Performance of Engineering Structures under Extreme Loading" during 8-13 June, 2020 by VBIT, Hyderabad
5. Online FDP "Outcome Based Education and NBA Accreditation" by CBIT held online from May 29 –June 3, 2020.
6. One week Online National Training :Program on "Disaster Risk, Vulnerability Assessment and Management" during June 29th - July 3rd, 2020 Jointly Organized by National Institute of Disaster Management and Delhi Technological University
7. Online Course on "Examination Reforms" conducted by AICTE during 29 April - 2 May, 2020
8. QIP Short Term Course on "Mathematical Modeling and Analysis on Continuum Mechanics" held at IIT BHU, 8-14 September, 2019.
9. AICTE sponsored QIP on " Earthquake Resistant Design of Structures" conducted by Pondicherry Engineering College, Pondicherry held during 18-22 Dec, 2017
10. Online International Conference on "Eradication of Biological and Chemical Weapons" 23-26 June 2020 by MIT World Peace University.
11. International Conference on Construction Materials and Smart Structures for Sustainable Development (ICCMSSSD 2020) held at VNRVJIET, Hyderabad during 29-31 January 2020
12. Chaired a Technical Session in the National Conference on "Innovations in Civil Engineering Through Sustainable Technologies" during 20-21 September 2019
13. One-day workshop on "Applications of Optimization in Civil Engineering", Organized Under TEQIP-II, by Department of Civil Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad on 30th March 2017.
14. Attended as a Special Invitee "PEPSCON 2017" on precast construction during 21-22 Feb 2017, held at New Delhi, India by : Pre Engineered Structures Society of India.
15. One day online work shop on "Social Responsibility and Community Engagement" conducted by School of Management Studies, Chaitanya Bharathi Institute of Technology, Hyderabad on 17-06-2020.
16. One-day workshop on "Applications of Optimization in Civil Engineering", Organized Under TEQIP-II, by Department of Civil Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad on 30th March 2017.

#### International/National Journals from the Year 2017

1. Srinivas Vasam, K.Jagannadha Rao, M.V.Seshagiri Rao; "Prediction of Recycled Concrete Aggregate Self Compacting Concrete Compressive Strength using Mathematical model", International Journal of Structural Engineering and Analysis (IJSEA) ISSN : 2453-5326, Vol. 5, Issue 2, Dec 2019, PP:34-43 .
2. M.V.S.S.Sastri, K.Jagannadha Rao, V.Bhikshma "Estimation of Compressive Strength of Concrete by testing the Pozzolanic Reactions of Blended Cement Mortars using Bolomey's Equation", International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-3, September 2019 (SCOPUS Indexed and UGC listed) pp: 6525-6534
3. Jagannadha Kumar M V, Jagannadha Rao K, Dean Kumar B and Srinivasa Reddy V (2018) "Effect of Polyethylene Glycol on the properties of Self-Curing Concrete", International Journal of Engineering and Technology, 7 (3.29) (2018), pp. 529-532
4. M V Jagannadha Kumar, K Jagannadha Rao, B Dean Kumar and V Srinivasa Reddy, "Development of Self-Curing Concrete Using Polyethylene Glycol as Internal Curing Agent", International Journal of Civil Engineering and Technology, 9(7), 2018, pp. 1133–1141.
5. K Jagannadha Rao, K. Keerthi and Srinivas Vasam (2018): "Acid resistance of quaternary blended

recycled aggregate concrete”, Case Studies in Construction Materials, March, 2018, pp 423-433, DOI: 10.1016/j.cscm.2018.03.005

6. Srinivas Vasam, K. Jagannadha Rao and M.V. Sheshagiri Rao (2018) “Effect of curing Methods on Compressive strength of Normal, Medium and High strength Self compacting concrete with and without RCA”, Journal of Emerging Technologies and Innovative Research (JETIR) ISSN-2349-5162) Volume 5, Issue 2, Feb 2018 .
7. K.Jagannadha Rao, M.V.S.S.Sastri (2018) “A Study on Fresh and Hardened State Properties of High Strength Recycled Aggregate Concrete with Synthetic Fibres”, International Journal of Latest Trends in Engineering and Technology (IJLTET), Vol. 9, Issue 3, January, 2018, pp 160-166.
8. Srinivas Vasam, K. Jaganaadharao, , M. V. Seshagirirao “Effect of Different Curing Methods on the Strength of Recycled Aggregate Self Compacting Concrete (RASCC)”, International Journal of Emerging Technology and Advanced Engineering (IJETA) E-ISSN 2250–2459, Volume 7, Special Issue 2, December 2017, pp 512-518
9. M.V.S.S. Sastri, K. Jagannadha Rao, V.Bhikshma (2020); “Effect of RCA on High Strength Concrete When Cement Is Replaced By Micro Silica or Fly Ash” Tathapi (UGC Care Journal) Vol.19, Issue.34, June 2020, ISSN:2320-0693, pp. 123-132.
10. Sastri M. V. S. S., Kumar, D. A., and Rao, K. J. (2019). Experimental Investigation on Strength Properties of Ultrafine Fly Ash and Micro Silica as Mineral Admixtures for Vermiculate Mortar. i-manager’s Journal on Material Science, 7(3), October - December 2019, pp. 53-62.

#### **International/National Conference Proceedings from the Year 2017**

1. Srinivas Vasam, K.Jagannadha Rao, M.V.Seshagiri Rao; “ An Experimental Investigation of Self-Compacting Concrete containing Recycled Concrete Aggregates” International Conference on Construction Materials and Smart Structures for Sustainable Development (ICCMSSD-2020) organized by Department of Civil Engineering –VNR Vignana Jyothi Institute of Engineering And Technology (VNRVJIT) – Hyderabad. January 29-31, 2020 , B.S Publication ISBN 978-93-8935-488-1 , PP: 137-148.
2. Srinivas Vasam, K. Jagannadha Rao, M.V. Sheshagiri Rao & Vasu Kathi “An Analytical Approach on Effective Selection of Sustainable Materials in Construction Industry by Environmental Management System (EMS) & Green Supply Chain Management”. Proceedings of ‘9th IconSWM-CE (9th International Conference on Sustainable Waste Management towards Circular Economy) will be organised at KIIT Bhubaneswar 751024, Odisha, India by the KIIT-DU (Kalinga Institute of Industrial Technology) as the Principal Organiser with the International Society of Waste management, Air and Water (ISWMAW) held during November 27-30,2019.
3. Srinivas Vasam K. Jagannadha Rao and M.V. Sheshagiri Rao “Use of Recycled Concrete Aggregate In Self Compacting Concrete: A Need For Sustainable Development ” ‘International Conference on "Advanced Trends in Mechanical & Aerospace Engineering" (ATMA -2019), 7-9, November 2019 at Dayananda Sagar University, Bangalore-560068, India.
4. K. Jagannadha Rao, Srinivas Vasam, M.V.Seshagiri Rao “Bond strength of HYSD bars and SCC with and without recycled aggregate – An experimental study” in the International Conference “Concrete Engineering and Technology (CONCET 2018)” held during 7-10 August, 2018 at University of Malaya, Kuala Lumpur, Malaysia.
5. Srinivas Vasam , K. Jagannadha Rao , M.V.Seshagiri Rao “Experimental investigation on utilization of RCA in low, medium and high strength self compacting concrete” in the International Conference “Concrete Engineering and Technology (CONCET 2018)” held during 7-10 August, 2018 at University of Malaya, Kuala Lumpur, Malaysia.
6. M V Jagannadha Kumar, Dr. B Dean Kumar, Dr. K Jagannadha Rao “Studies On Flexural Behaviour Of Blended Self-Curing Concrete Reinforced Beams” International Conference on Composite Materials” held at IITH, Hyderabad during 27-30 December, 2017.
7. Srinivas Vasam, K.Jagannadha Rao, M.V.Seshagiri Rao; “ An Experimental Investigation Use of Recycled Concrete Aggregate (RCA) in Self-Compacting Concrete Under Different curing conditions” National Web Conference on ADVANCES IN CIVIL ENGINEERING FOR SUSTAINABLE ENVIRONMENT (NCACSE' 20) organized by Department of Civil Engineering – EASWARI ENGINEERING COLLEGE (AUTONOMOUS INSTITUTION)-(A Unit of SRM Group of Educational Institutions) Chennai-TamilNadu state. On 1st June, 2020, Conference proceedings PP: 13.
8. Srinivas Vasam K. Jagannadha Rao & M.V. Sheshagiri Rao “Mathematical Model for Prediction of Compressive Strength of Normal, Standard and High Strength SCC with RCA”. ‘National Conference on Futuristic Approaches in Civil Engineering (FACE-2019) on 30th and 31st August, 2019. at The Department of Civil Engineering at Mahindra École Central Hyderabad, India.
9. Srinivas Vasam, K. Jagannadha Rao, M.V. Sheshagiri Rao and Vasu Kathi “An Analytical Approach on Effective Selection of Sustainable Materials in Construction Industry by Environmental Management System (EMS) & Green Supply Chain Management”. ‘National Symposium on Sustainable Waste Management (NSSWM-2019), 20th April 2019 organized by Institute of Engineering & Management, Kolkata, India Under the aegis of International Society of Waste Management, Air and Water (ISWMAW) Consortium of Researchers in International Collaboration (CRIC).

10. M.V.S.S.Sastri, D Ashwin Kumar and K.Jagannadha Rao, "Experimental Investigations on Strength Properties of Ultrafine Fly ash and Micro Silica as Mineral Admixtures for Vermiculate Mortar", 5th National Conference on Applied Physics and Materials Science (APMS 2018), 7-8 September 2018, held at Vasavi College of Engineering, Hyderabad.
11. Vasu Kathi , Srinivas Vasam , K. Jagannadha Rao , M.V.Seshagiri Rao Anup Angalla (2018) "A New Approach of Effective Utilization of Sustainable Materials in Construction industry – Environmental Management system" Proceedings of 'Chhattisgarh Council of Science & Technology, Raipur Sponsored National Work shop(IDT-MDI,2018) –12th – 13th January 2018 organized by Bhilai Institute of technology, Durg
12. Vasu Kathi, Srinivas Vasam, K. Jagannadha Rao, M.V.Seshagiri Rao (2018) "Implementation of cloud Computing in Construction Industry - A BIM based Approach" 'Chhattisgarh Council of Science & Technology, Raipur Sponsored National Work shop(IDT-MDI,2018) –12th – 13th January 2018 organized by Bhilai Institute of technology, Durg
13. Srinivas Vasam K. Jagannadha Rao, M.V. Sheshagiri Rao (2018) "Prediction of Compressive strength of Self Compacting concrete with Recycled Coarse Aggregate(RASCC) " 'Chhattisgarh Council of Science & Technology, Raipur Sponsored National Work shop(IDT-MDI,2018) –12th – 13th January 2018 organized by Bhilai Institute of technology, Durg
14. M V Jagannadha Kumar, Dr. B Dean Kumar, Dr. K Jagannadha Rao (2017) "Studies on strength characteristics of Self-curing concrete" 'Two Day National Conference on Recent Innovations in Civil Engineering (RICE 2017) December 15-16, 2017 organized by Gokaraju Rangaraju Institute Of Engineering And Technology(GRIET) – Hyderabad.
15. Srinivas Vasam K. Jagannadha Rao, M.V. Sheshagiri Rao (2017) "Effect of Recycled Aggregate on Fresh and Hardened State Properties of Self-Compacting Concrete" 'Two Day National Conference on Recent Innovations in Civil Engineering (RICE 2017) organized by Gokaraju Rangaraju Institute Of Engineering And Technology(GRIET) – Hyderabad. On December 15-16, 2017, ISBN 978-93-5279-269-6 , pp: 245-252.
16. Srinivas Vasam K. Jagannadha Rao, M.V. Sheshagiri Rao (2017) "Utilizing Recycled Aggregate in Self Compacting Concrete – A Sustainable Approach". '3rd National Convention of Architectural Engineers and National Seminar on "Architectural Engineering Aspect for Sustainable Building Envelopes" ArchEn-BuildEn-2017, organized by The Institution of Engineers (India) Telangana State Centre at Visvesvaraya Bhavan, Khairatabad, Hyderabad – 500 004, Telangana. held on November 10-11, 2017 pp:110-116