



Dr. B Dean Kumar

Ph.D

Professor & Head of the Department

Civil Engineering

Areas of Interest:

Special Concrete, Wind Engineering, Tall Structures, Structural Dynamics

- ▶ Educational & Professional

- ▶ Academic Qualifications

- ▶ Ph.D, JNTUH (2003-2011)

- ▶

M.Tech, Indian Institute of Technology, Delhi with I (1995-1996)

- ▶

B.Tech, Regional Engineering College, Warangal with I (1991-1995)

▶ Professional Experience

- ▶ At JNTUH

- ▶ Professor, JNTUH (2013 - Till Date)

- ▶ Associate Professor, JNTUH (2006 - 2012)

- ▶ Assistant Professor, JNTU Anantapur (1999 - 2006)

- ▶ Publications

- S. Vijaya Kumar, B. Dean Kumar , B.L.P. Swami, *Regression analysis for the Bond Strength of steel fibre Self-compacting concrete based on the experimental studies*, Civil Engineering and Architecture, Vol No.11, Issue No.1, pp.175-181, DOI: 10.13189/cea.2023.110115, January, 2023
- Y.Naveen Kumar, B. Dean Kumar , B.L.P. Swami, *Mechanical Properties of Fiber Reinforced Geo-Polymer Concrete made with Three Mineral admixtures and Steel Fiber at Different Ambient Curing Periods*, Advances in Sustainable Construction Materials , <https://doi.org/10.1063/5.0144501>, May, 2023
- S. Vijaya Kumar, B. Dean Kumar , B.L.P. Swami, *Mathematical Model for the Impact Strength of Triple Blended Steel Fiber Self-Compacting Concrete Based on the Experimental Study*, Materials Today, Vol No.60, Issue No.1, pp.576-581, Elsevier, May, 2022
- Dr. P.Srilakshmi , Dr.B.Dean Kumar, *Experimental Study on The Setting Time of the Concrete With Partial and Full Replacement of River Sand By Manufactured Sand*, Journal of Emerging Technologies and Innovative Research, ISBN No.2349-5162, Vol No.9, Issue No.5, UGC Approved Journal No 63975, May, 2022
- Y.Naveen Kumar, B.Dean Kumar and B.L.P Swami, *Mechanical Properties of Geopolymer Concrete Reinforced with steel and Glass Fibers with Various Admixtures*, Materials Today, Vol No.Volume 52, pp.632-641, Elsevier, 2022
- S. Vijay Kumar, B.Dean Kumar and B.L.P Swami, *Mathematical Model for the Impact Strength of Triple Blended Steel Fiber Self-Compacting Concrete Based on the Experimental Study*, Materials Today, ISBN No.Volume 60, Vol No.60, pp.576-581, 2022
- P.Srilakshmi, B.Dean Kumar, *Experimental Study on The Setting Time of the Concrete With Partial and Full Replacement of River Sand By Manufactured Sand*, Journal of Emerging Technologies and Innovative Research, ISBN No.ISSN: 2349-5162, Vol No.9, Issue No.5, May, 2022
- B.Dean kumar , S.Vijay Kumar and B.L.P Swami, *Rheological Behaviour of the Triple Blended Steel Fiber Self-Compacting Concrete*, International Journal of Engineering Applied Sciences and Technology, ISBN No.2455-2143, Vol No.4, Issue No.10, pp.84-88, February, 2020
- B.Dean kumar , S.Vijay Kumar and B.L.P Swami, *Regression Analysis for the Axial Strengths of Multi-Blended Steel Fiber Self Compacting concrete from the Experimentation*, International Journal of Recent Technology and Engineering, ISBN No.. 2277-3878, Vol No.8, Issue No.6, pp.4958-4965, March , 2020
- Y.Naveen Kumar, B.Dean Kumar and B.L.P Swami, *Mechanical properties of Geopolymer concrete with combined Mineral Admixtures*, International Journal of Engineering Applied Sciences and Technology, ISBN No.2455-2143, Vol No.4, Issue No.11, pp.144-150, 2020
- I. Marella Viswanatham , B.Dean Kumar, *A Survey on Systematic Effect of Blast Loading, Blast Resistance through the Composite Blast Protection System and its Approaches*, Advanced Science Letters, ISBN No.1936-7317, Vol No.26, Issue No.6, June, 2020
- S.Vijay Kumar, B.Dean Kumar and B.L.P Swami, *An Experimental Study on the Bond Strength of Triple Blended Steel Fibre Self Compacting Concrete*, High Technology Letters, Vol No.26, Issue No.9, pp.1200-1207, September, 2020
- S.Vijay Kumar, B.Dean Kumar and B.L.P Swami, *Effect of Metakaolin and Condensed Silica Fume on the Rheological and Structural Properties of Self-compacting Concrete*, Journal of Civil Engineering and Architecture, Vol No.5, pp.1057-1062, October, 2020
- B.Dean kumar , 2. M.V.Jagannadha Kumar, *Effect of Polyethylene Glycol on the Properties of Self-Curing Concrete*, International Journal of Engineering and Technology, Vol No.7, Issue No.3.29, pp.529-532, 2018
- G.Pavan Raj , B.Dean Kumar , *Effect of the Position and Number of Friction Dampers on the Seismic Response of Unsymmetric Building*, International Research Journal of Engineering and Technology , Vol No.5, Issue No.5, pp.3044-3050, may, 2018
- M.V.Jagannadha Kumar, K. Jagannadha Rao, B.Dean kumar, V.Srinivas Reddy, *Effect of Polyethylene Glycol on the Properties of Self-Curing Concrete*, International Journal of Engineering and Technology, Vol No.7, Issue No.3, pp.529-532, 2018
- Y.Naveen Kumar , B.Dean Kumar , B.L.P Swami, *Effect of Molarity on Compressive Strength Properties of Geopolymer Concrete with Flyash and GGBS*, International Journal of Emerging Technology and Advanced Engineering, Vol No.7, Issue No.2, pp.604-608, december, 2017
- S.Vijay Kumar, B.Dean Kumar , B.L.P Swami, *Influence of Fibre on the Strength Properties of Triple Blended Self Compacting Concrete*, International Journal of Emerging Technology and Advanced Engineerin, Vol No.7, Issue No.2, pp.541-546, december, 2017
- S.Vijay Kumar, B.Dean Kumar , B.L.P Swami, *Acid Resistance Studies on Triple Blended Fibrous Self Compacting Concrete*, International Journal of Emerging Technology and Advanced Engineering, Vol No.7, Issue No.2, pp.572-578, december, 2017
- S.Vijay Kumar, B.Dean Kumar , B.L.P Swami, *Effect of Mixed Fibers (Steel and Polypropylene) on strength Properties of Fibrous Self Compacting Concrete*, International Research Journal of Engineering and Technology, ISBN No.e-ISSN: 2395-0056, Vol No.3, Issue No.2, February, 2016
- S.Vijay Kumar, B.Dean Kumar , B.L.P Swami, *Study on the Structural Properties of Mixed Fibrous Reinforced Self Compacting Concrete with Mineral Admixtures*, International Journal of latest Research in Engineering and Technology, ISBN No.ISSN:2454-5031, Vol No.2, Issue No.5, pp.21-27, May, 2016
- Kalyan Chowdary Kodali , B.Dean Kumar , B.L.P Swami, *Comparative study of Seismic Performance of High Rise 30 Storey Building with Beam Slab, Flat Slab and Alternate Flat- Beam Slab Systems in Zone V*, International Journal of Research in Engineering and Technology, Vol No.4, Issue No.01, pp.66-70, February, 2015
- V.Naresh Kumar Varma,, B.Dean Kumar , M.V Seshagiri Rao,, *Compressive Strength and Durability Studies on Concrete with Sponge Iron Scrap Material as Coarse Aggregate*, International Journal of Research in Engineering and Technology, Vol No.4, Issue No.1, pp.71-73, February, 2015
- Seyed Ali Tabatabaei Khodadadi , B.Dean Kumar, *Contractor Selection with Risk Assessment by Using AHP Fuzzy Method*, International Journal of Advances in Engineering and Technology, ISBN No.ISSN:2231-1963, Vol No.5, Issue No.2, pp.311-318, January, 2013
- Jalal Mushina Obeed, B.Dean Kumar, *Study on Dynamic Analysis of Irregular and Regular High Rise Building*, International Journal of Scientific Engineering and Technology Research, Vol No.2, Issue No.8, pp.716-722, August, 2013
- Arfat Khan Md, , Abdul Wahab, B.Dean Kumar, *Study of Strength Properties of Fibrous Concrete using Metakaolin and Condensed Silica Fume*, International Journal of Emerging Technology and Advanced Engineering, ISBN No.ISSN 2250-2459, Vol No.3, Issue No.5, pp.541-546, May, 2013
- B.Dean Kumar , B.L.P Swami , *Critical Gust Pressures on Tall Building Frames- Review of Codal Provisions*, International Journal of Advanced Technology in Civil Engineering, ISBN No.ISSN:2231-5721, Vol No.1, Issue No.2, pp.60-66, june, 2012
- P.M.B.Raj Kiran Nanduri, B.Dean Kumar, Y.Chandrasekhar , B.L.P.Swami, *Comparative Study of Wind Load Analysis of Flat Plate Multistoried Frames With and Without Reinforced Concrete Infilled Walls*, International Journal of Emerging Technology and Advanced Engineering, ISBN No.ISSN 2250-2459, Vol No.2, Issue No.8, pp.177-182, August, 2012
- Fayazuddin Ahmed, B.Dean Kumar, Y. Chandrasekhar , B.L.P.Swami, *Comparative Analysis of Flat Plate Multistoried Frames with and without Shear Walls under Wind Loads*, International Journal of Engineering and advanced Technology, ISBN No.ISSN:2249-8958, Vol No.2, Issue No.1, october, 2012
- B. Dean Kumar , B.L.P Swami , Y. Balakoti Reddy , *Appropriate Design Wind Speeds for Structures*, International Journal of Earth Sciences and Engineering,, ISBN No.ISSN 0974-5904, Vol No.04, Issue No.06, october, 2011
- S. VijayaKumar, B. Dean Kumar , B.L.P. Swami, *Experimental Studies on Acid Resistance of Steel Fiber-Reinforced Self-Compacting Concrete (SCC)*, Recent Advances in Structural Engineering and Construction Management, Lecture Notes in Civil Engineering 277, pp.119-130
- M.V.Jagannadha Kumar, K. Jagannadha Rao, B.Dean kumar, V.Srinivas Reddy, *Development of Self-curing Concrete Using Polyethylene Glycol as Internal Curing Agent*, International Journal of Civil Engineering and Technology, Vol No.9, Issue No.7, pp.1133-1141

National Journals

- S.Vijay Kumar, B.Dean Kumar and B.L.P Swami, *Effect of metallic and non-metallic fibre percentages and aspect ratios on the mechanical properties of mixed fiber self- compacting concrete*, Journal of Structural Engineering, Vol No.47, Issue No.5, pp.430-439, January, 2021

International Conference

- Vijaya Kumar Setti , B.Dean Kumar and B.L.P Swami, *Creep Strain Behaviour of Triple- Blended Steel Fiber Self-Compacting Concrete*, IOP Conf. Series: Earth and Environmental Science , 2021
- S.Vijay Kumar, B.Dean Kumar and B.L.P Swami, *Experimental Study on the Presence of Mineral Admixtures and Steel Fiber on the Elastic Properties of Self-Compacting Concrete (SCC)*, IOP conf. Series: Material Science and Engineering, 2020
- S.Vijay Kumar, B.Dean Kumar and B.L.P Swami, *Mathematical Model for the Compressive Strength and Elastic Properties of Triple- Blended Steel Fiber Self-Compacting Concrete Based on the Experimental Investigation*, Advances in Structural Engineering. Lecture Notes in Civil Engineering, Vol No.74, Springer

National Conference

- M.V.Jagannadha Kumar, B.Dean Kumar , K. Jagannadha Rao, *Studies on Strength Characteristics of Self-Curing Concrete*, National Conference on Recent innovations in Civil Engineering., pp.407-417, Gokaraju Rangaraju Institute of Engineering and Technology, december, 2017

Events Participated/Organized

Organized

- Organized a Workshop on National Workshop on Prefabricated Buildings and Constructions (NWPBC), Hyderabad, 29-11-2021 to 30-11-2021

Teaching

- Theory of Elasticity and Plasticity in Structural Engineering I (M.Tech)
- Concrete Technology Laboratory in Civil Engineering II Semester (III B.Tech)
- Structural Dynamics in Structural Engineering II (M.Tech)
- Design of Reinforced Concrete Structures in Civil Engineering I (III B.Tech)
- Concrete Technology in Civil Engineering II (III B.Tech)

Administrative Positions Held

- HEAD OF CIVIL ENGINEERING DEPARTMENT, JNTUHCESTH, 15 Jul 2022 - Present
- Chief Engineer and Director BICS, JNTUH, 15 Mar 2018 - 07 May 2020
- Controller of Examinations, JNT University, 02 Jun 2007 - 07 Aug 2008
- Project Engineer, JNTU College of Engineering, Anantapur, 05 May 2005 - 01 Jun 2007
- Officer incharge of Academic Section, JNTU College of Engineering, Anantapur, 06 Nov 2002 - 04 May 2005

Project/Research Guidance

Students

Student Name	Title	Year	Download
S.Vijaya Kumar	Experimental Studies on the Strength and Durability Properties of Triple Blended Fibrous Self-Compacting concrete	2022	
M.V.Jagannadha Kumar	Behaviour of Plain and Reinforced Self-Curing Concrete	2019	

Consultancy

- Consultancy works like Proof Checking of Design and Drawings, Third party quality control works, Structural Stability works, Mix design and other works related to materials and Non Destructive testing .

Contact :

Dr. B Dean Kumar

Civil Engineering

Official Email: deankumar@jntuh.ac.in

Alternate Email: bdeankumar@gmail.com

Phone: 32408664