



Dr. B Siva Konda Reddy

B.Tech, M.E,PhD

Professor

Civil Engineering

Areas of Interest:

Magnetic Water Concrete & Special Concretes

Structural Optimization

Finite Element Analysis of Composite structures

Structural Health Monitoring & Rehabilitation of Structures

Analysis and Design of Precast/PreFabricated PSC Structures

IOT Applications in Structural Engineering

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- ▶ Educational & Professional

- ▶ Academic Qualifications

- ▶ PhD in Civil Engineering, JNTU Ananatapur with -- (2011-2016)

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M.E in Structural Engineering, PSG Tech/ANNA University with Distinction (2002-2004)

- ▶

B.TECH in Civil Engineering, GPREC/SK University with Distinction (1998-2002)

▶ Professional Experience

- ▶ Industrial Experience

- ▶ Structural Design Engineer, MN DASTUR CONSULTING PVT.LTD (2004 - 2005)

- ▶ Teaching Experience

- ▶ ASSISTANT PROFESSOR, VNR VJIET HYDERABAD (2005-07-01 - 2006-11-15)

- ▶ At JNTUH

- ▶ PROFESSOR, JNTU Hyderabad (2021 - Till Date)

- ▶ ASSOCIATE PROFESSOR, JNTU Hyderabad (2015 - 2018)

- ▶ ASSISTANT PROFESSOR, JNTU Hyderabad (2006 - 2015)

- ▶ **Research**

- ▶ **Research Projects**

- ▶ *Influence of Varying Magnetic field strength on the Hydration Properties of Cement PAste*, funded by R&D Innovative Project-TEQIP-III,JNTUHCEH - 5.6 Lakhs (sanctioned in 2020 duration of 1 years)

- ▶ *Behaviour of ITZ of HPC*, funded by NPIU-TEQIP-III Collabarative Research Scheme - 21.33 LAKhs (sanctioned in 2020 duration of 2 years)

- ▶ **Publications**

- **International Journals**

- ▶ B.Siva Konda Reddy, *Effect of addition of Magnetic water on the Strength Properties of concrete*, The International Journal of Analytical and Experimental Modal Analysis, ISBN No.0886-9367, Vol No.XIII, Issue No.VII, pp.2808-2816, July, 2021
- ▶ B.Siva Konda Reddy, *Strength and durability studies of Magnetic water concrete*, International Journal of Analytical and Experimental Modal Analysis, ISBN No.0886-9367, Vol No.XIII, Issue No.VI, pp.2841-2849, June, 2021
- ▶ B.Siva Konda Reddy, *Studies on the Impact Strength of Magnetic water concrete*, JAC:A Journal of Composition Theory, ISBN No.0731-6755, Vol No.XIV, Issue No.V, pp.1-9, May, 2021
- ▶ B.Siva konda Reddy, *Zr(IV) functionalized graphene oxide anchored sand as potensial and economic adsorbent for flouride removal from water*, Diamond & Related Materials, ISBN No.0925-9635, September, 2020
- ▶ B.Siva Konda Reddy, *FEA of Damaged RCC Girder Bridge retrofitted by Internal Post-tensioning Technique*, International Journal of Advanced Engineering and Management, ISBN No.2456-8066, Vol No.5, Issue No.1, pp.23-35, May, 2020
- ▶ B.Siva Konda Reddy, *Analysis of Irregular High Rised RCC Building by using Tuned Mass Damping system*, International journal of Advanced Engg. Research& Science, Vol No.vol.No.5, Issue-9, -193, SEP 2018
- ▶ B.Siva Konda Reddy, *A Study on Optimization of Resources for Multiple Projects by using Primavera*, Vol. 10, No. 2 (2015) 235 - 248, March 2015 Journal of Engineering Science and Technology, © School of Engineering, Taylor&™s University,
- ▶ B.Siva Konda Reddy, *Use of Magnetic Water in Mixing and Curing of Concrete*, IV/I, p: 93-95. Oct-Dec 2014, International Journal of Advanced Engineering Research and Studies
- ▶ B.Siva Konda Reddy, *Effect of magnetic field exposure time on workability and compressive strength of Magnetic water concrete*, IV/III: 120-122. 2013 International Journal of Advanced Engineering and Technology.
- ▶ B.Siva Konda Reddy, *Optimization of Resources for Multiple Projects*, Vol.2, Issue.2., p.01-13, International Journal of Engineering Science and Innovative Technology(IJESIT) of IRACST-Engineering science and technology International Journal, March 2013.
- ▶ B.Siva Konda Reddy, *Development of cement added low lie fly ash based Geopolymer concrete*, 2(1), P.1-4, March, 2013. World Journal of science and Technology™ WJST
- ▶ B.Siva Konda Reddy, *Resource Management in Construction Projects-A Case Study*, Vol.2, No.4, p.660-665, August 2012, IRACST-Engineering science and technology International Journal
- ▶ B.Siva Konda Reddy, *Study of wind load Effects on Tall RCC Chimneys*, Vol.III, Issue II, p.92-97, May. 2012 International Journal of Advanced Engineering and Technology.
- ▶ B.Siva Konda Reddy, *Finite Element Analysis of Steel and composite railway tie under static and Dynamic loads*, Vol.I, Issue II, p.76-81, March. 2012, International Journal of Advanced Engineering Research and Studies,
- ▶ B.Siva Konda Reddy, *Effect of cement addition on compressive strength of low lime based Geopolymer concrete*, Vol.2.NO.3, p.69-75, March. 2011, International Journal of Advances in Science and Technology,

National Journals

- ▶ B.Siva Konda Reddy, *Strength and Workability of low lime flyash based Geopolymer concrete*, Vol.3.NO.12, p.1188-89. Dec. 2010, *Indian Journal of Science and Technology*,
- ▶ B.Siva Konda Reddy, *Effect of A/F ratio on strength and workability of low lime based Geopolymer concrete*™, Vol.1,p.63-68. May 2011. *i-manager*™s *Journal of Civil Engineering*,
- ▶ B.Siva Konda Reddy, *Influence of curing conditions on compressive strength of low lime fly ash based Geopolymer concrete* , Vol.II.Issue IV,p.103-109. December 2011, *Journal of Engineering research and studies*.
- ▶ B.Siva Konda Reddy, *Cement added Low lime based GPC* “A new Eco friendly Construction material for Future Decades - May issue. 2012., *i-manager*™s *Journal of Civil Engineering*
- ▶ B.Siva Konda Reddy, *Effect of addition of Steel fibers on strength and durability of High Performance concrete*, Vol.III. Issue III, p. 01-03. , 2012, *Journal of Engineering research and studies*
- ▶ B.Siva Konda Reddy, *Influence of Magnetic water on Strength Properties of Concrete*. Vol7(1),1-5, January 2014. *Indian Journal of Science and Technology*,
- ▶ B.Siva Konda Reddy, *Finite Element Analysis of Composite cylindrical shells with and with out cutouts*, 2012. *i-manager*™s *Journal of Structural Engineering*march-May issue.

International Conference

- ▶ B.Siva Konda Reddy, *Optimization of concrete mix design using genetic algorithms*,*Advancements in Sustainable Materials and Infrastructure*,IOP Conf. Series: *Earth and Environmental Science*,1086 (2022) 012061,Pg1-11.Oct 2022.
- ▶ B.Siva Konda Reddy, *Impedance based service life assessment of corroded structures with Cross correlation analysis*,*E3S Web of Conferences* 309, 01207 (2021) *ICMED 2021,SEP2021*
- ▶ B.Siva Konda Reddy, *Corrosion assessment of structural components using electro mechanical impedance*,*E3S Web of Conferences* 309, 01208 (2021) *ICMED 2021,SEP2021*
- ▶ B.Siva Konda Reddy, *Flexural Behaviour of cement added geopolymer concrete*,p.1-9,August 2018, *14 th international conference on Concrete Engg. & Technology*
- ▶ B.Siva Konda Reddy, *Porosity and Permeability Studies on Magnetic Water Concrete*, p.732-737, January 2014., *Proceedings of International Conference in Emerging Trends in Civil Engineering, ICETCE-2014, Hyderabad, India.*

National Conference

- ▶ B.Siva Konda Reddy, *Effect of size and positioning of openings on Buckling of Composite Cylindrical Shells*, p.30-33. March. 2012., *Proceedings of 1st National conference on Advances in Mechanical Engineering (NCAME2012)*
- ▶ B.Siva Konda Reddy, *Influence of fiber orientation and number of layers on Buckling of Composite Cylindrical Shells with and without cutouts*, p.30-33 April, 2012, *Proceedings of National conference on Recent Advances in Engineering and Technology (RAET-2012)*
- ▶ B.Siva Konda Reddy, *Workability and compressive Strength of Cement added low lime fly ash based Geopolymer concrete*, MAY 2012., *Proceedings of International Conference on Recent Advances in Engineering, Technology and Management (SPICON2012)*
- ▶ B.Siva Konda Reddy, *Effect of addition of admixture on Workability and Compressive strength of Cement added Low lime based GPC*, p.200-210, Feb.2013., *Proceedings of 2nd National conference on New Trends in Civil Engineering and Earth Sciences (NTCE-2013), Hyderabad*
- ▶ B.Siva Konda Reddy, *Study of wind load effects on tall RC chimneys for various zones of INDIA*, p.150-161, FEB.2013. *Proceedings of 3rd National conference on New*
- ▶ B.Siva Konda Reddy, *Finite Element Analysis of Hyperbolic Shell cooling Towers*, p.45-54, Jan. 2012, *Proceedings of National conference on Recent Trends in Structural Engineering.*

Teaching

- ▶ FEM in Structural Engg in M.Tech Structural Engg 2 (2022)
- ▶ Prestressed concrete in civil Engg 6 (2023)
- ▶ Structural analysis -II in civil Engg 5 (2022)
- ▶ Finite Element Methods in IDP civil Engg 9 (2022)

Administrative Positions Held

- ▶ Project Engineer, JNTUHCEH, 20 Apr 2009 - 06 Jun 2011
- ▶ Project Engineer, JNTUCEP, 06 Oct 2008 - 30 Jan 2009
- ▶ Project Engineer, JNTUCEA, 02 Jul 2007 - 06 Oct 2008
- ▶ TEQIP-I-Assistant Nodal Officer, JNTUHCEH, 27 Nov 2006 - 01 Jul 2007

Project/Research Guidance

Students

Student Name	Title	Year	Download
Vijay Kumar. R	Finite Element Analysis of Hyperbolic Cooling Tower Using Ansys	2011	

Contact :

Dr. B Siva Konda Reddy

Civil Engineering

Official Email: bskreddy_246@jntuh.ac.in

Alternate Email: bskreddI@gmail.com

Phone: 32408664