



## **Dr. Manjula Vani K**

â€¢ B. Tech (Civil Engineering) â€¢ M. Tech. (Structural Engineering) â€¢ Ph.D (Civil Engineering) â€¢ MIE, MISTE.

### **Professor**

**Member in Indian Society for Technical Education & Indian Science Congress**

Civil Engineering

### **Areas of Interest:**

**Structural Engineering , Remotesensing and GIS**

Joined as Assistant Professor in 1989 and became first **Woman Professor** of Andhrapradesh in Civil Engineering in 2006.

Recieved "**Best Teacher Award**" in 2021 by Govt of Telangana.

Doordarshan honoured with '**Sabala Sadishakrita**' on International Womens Day in 2013 for the research work carried out in "**Non-Biodegradable's in Concretes**".

Interviewed by Doordarshan,TV9, ETV on Research topic and Relevant articles are published in Enadu, AndhraJyothy and The Hindu.

SITE,Doordarshan Hyderabad telecast a film on "**Plastics-Plastics**", Covering the research on Non-Biodegradable Concrete in 2010.

Visited **Uppsala Universitet** , Stockholm in 2016 and **BTH Karkskrona** in 2016 and 2018.

Worked as **Director-UGC Academic Staff College** in 2010-13.

Published more than 88 Technical papers in Conferences and Journals at National & International level.

### **- > Educational & Professional**

#### **- > Academic Qualifications**

- > Ph.D in Civil Engineering, JNTU (1999-2023)

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M.Tech in Structural Engineering, JNTU with First Class with Distinction (1985-1987)

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B.Tech in Civil Engineering, JNTU with First Class (1981-1985)

#### **> Professional Experience**

#### **- > Industrial Experience**

- > Assistant Executive Engineer, R&B department , Andhrapradesh (1988 - 1989)

#### **- > Teaching Experience**

- > Lecturer, VR Siddartha College, Vijayawada (1987-06-04 - 1988-09-08)

#### **- > At JNTUH**

- > Professor, JNTUH-CEH (2016 - Till Date)

- > Professor, JNTUH-IST (2009 - 2016)

- > Professor, JNTUCEA, Anantapur (2006 - 2009)

- > Associate Professor, JNTU (1994 - 2006)

- > Assistant Professor, JNTU (1989 - 1994)

#### **- > Publications**

- **International Journals**

- ▶ Bhogayya Naidu Gudivada, K.Manjula Vani, I.V.Murali krishna, *Hydrogeochemical Investigation and Groundwater Quality Assessment in Patancheru area Medak District, South India*, A Journal for New Zealand Herpetology,, ISBN No.2230-5807, Vol No.12, Issue No.03, 2023
- ▶ S. Jamalaiah, K.Manjula Vani, *A New Deep Learning Model For The Classification Of Crops Using Hyperspectral Digital Data*, A Journal for New Zealand Herpetology, ISBN No.2230-5807, Vol No.03, Issue No.12, 2023
- ▶ Mohd. Mushtaq Ahmed, K.Manjula Vani, *Effect of Concentration of Multiwalled Carbon Nanotubes on Mechanical Strength of Ultra-High Performance Nanocomposite Cementitious Materials*, IJIRT, ISBN No.2349-6002, Vol No.9, Issue No.7, 2022
- ▶ Mohd. Mushtaq Ahmed, K.Manjula Vani, *Use of Fibers in Ultra-High Performance Concrete : A State of Art Review*, IJRTI, ISBN No.2456-3315, Vol No.7, Issue No.11, 2022
- ▶ SashikiranBabu.K, K.Manjula Vani, *The Effect of Reservoir Compressibility on the Earthquake Performance of Gravity Dams*, International Journal of Advances in Mechanical and Civil Engineering, Sweden, ISBN No.2394-2827, Vol No.4, Issue No.5, 2017
- ▶ G Srinivasa rao, K.Manjula Vani, *Structure of HDPE Fiber Reinforced High Strength Concrete Containing Metakaolin*, International Journal of Engineering Trends and Technology, Vol No.36, Issue No.6, 2016
- ▶ Ballu Harish, Venkat Seshu, Madhavi Surpiya, K Manjula Vani, *Automation of Global Telecommunication system data processing*, IJEDR, ISBN No.2321-9939, Vol No.4, Issue No.3, 2016
- ▶ SashikiranBabu.K, K.Manjula Vani, *Evaluation of Hydrodynamic Pressure in Arch Dams under Earthquakes*, International journal of Advances in Mechanical and Civil Engineering, ISBN No.2394-2897, Vol No.2, Issue No.2, 2016
- ▶ Maloth Chaitanya, Ballu Harish, Maruthi Rao K,, K Manjula Vani, *review on wireless sensor networks evolution for Smart cities in urban planning*, Discovery, ISBN No.1509-1519, Vol No.52, 2016
- ▶ Naveen Kumar N,, Swaraj, K Manjulavani, *Spatio Temporal changes of Hudhud Cyclone(pre and post Analysis) Using GIS Technology*, Climate Change, Vol No.2, Issue No.8, pp.283-291, 2016
- ▶ G. Srinivasa Rao, K.Manjula Vani, *Reuse of Polymers as Fibers in Concrete: Review*, International Conference on Science and Engineering of Materials for Future Needs, ISBN No.978-1-329-77555-8, December, 2015
- ▶ T. Valsa Ipe, H. Sharada Bai, K Manjulavani, Merchant Mohd Zafar Iqbal, *Flexural Behaviors of Cold-Formed Steel-Concrete Composite Beams*, International Journal of Steel and Compositestructures,, Vol No.14, Issue No.2, pp.105-120, 2013
- ▶ M. Ramesh, T.V. Praveen, K. Manjula Vani, S. Surya Rao, *Tehri Dam-breach Vs Monsoon Flood Routing in the Ganga river system*, ISH Journal of hydraulic engineering, 2012
- ▶ Y.Satya Prabhakar, M.Potharaju,, K.ManjulaVani, *Mystery of building failures in North coastal Andhra Pradesh: An FGE approach.?*, The IUP journal of soil and water sciences, Vol No.4, Issue No.4, 2011
- ▶ Y.S.Prabhaka, M.Potharaju, K.Manjulavani, *Civil Engineering Aspects of Tsunami Resistant Buildings: A Forensic Approach*, The IUP journal of soil and water sciences, Vol No.4, Issue No.3, 2011
- ▶ J.V. Suresh Babu, M.Potharaju,, K.ManjulaVani, *Repair Methodology for Fire Damaged R.C.C Beams.*, International Journal of Applied Engineering Research, Vol No.6, Issue No.23, 2011
- ▶ Y.S. Prabhakar, M. Potha Raju, K. Manjulavani, *Lime slurry trench technique, to control, cracks on Industrial Flooring-Eco friendly approach*, EM International, Vol No.30, Issue No.2, 2011
- ▶ Bhogayya Naidu Gudivada, K.Manjula Vani, I.V.Murali krishna, *Analysis of Water Quality Around the Patancheruvu, Sangareddy, Telangana*, IOP Conference Series: Earth and Environmental Science, ISBN No.012045, Vol No.12, Issue No.03
- ▶ J.V. Suresh Babu, M.Potharaju, K Manjulavani, *Repair Materials for heated concrete*, International Journal of Applied Engineering Research, pp.1555-1564

### National Journals

- ▶ T. Valsa Ipe, H., K.Manjula Vani, *An experimental study on behavior of thin walled cold-formed steel-concrete composite beams under shear*, Indian concrete journal, 2016
- ▶ G. SrinivasaRao, K.Manjula Vani, Srinivas Sharma, *Structure of HDPE Fiber Reinforced High Performance Concrete*, Journal of The Institution of Engineers, ISBN No.EIA-D-16-00096., Issue No.A, 2015
- ▶ K Manjula vani, *NBD Fibers as Building Materials*, Master Builders, 2013
- ▶ J.V. Suresh Babu, M.Potharaju, K Manjulavani, *Limiting Deflection of wood substrates for ceramic tile floor installations.*, Floor Covering Installer, Vol No.16, Issue No.1, 2009
- ▶ Manjulavani K, S. Surya Rao, M. Ramesh, *Flood Routing through the Ganga water system*, Journal of applied hydrology, 2008
- ▶ Manjulavani K, M. Potha Raju, Madhu Babu, *Microstructure Analysis of HDPE fibre reinforced concrete*, Master Builders, 2007

## International Conference

- ▶ K.Manjulavani, G.srinivasa rao, B.Ashritha, *Study on Microstructural behavior of silica fume and non-bio degradable fibers in high performance concrete*, Second International conference on Nano Science and Engineering Applications, ISBN No.979-81-924726-4-5,, 2018
- ▶ Ch.Mamatha, K.Manjulavani, L.Ravi, *Assessing land use land cover dynamics at watershed level using multitemporal satellite data*, Second International conference on Nano Science and Engineering Applications, ISBN No.979-81-924726-4-5, 2018
- ▶ K.Manjulavani, V.Madhavi Supriya, M. Suhrullekha, B. Harish,, *Detection of Shoreline Change using Geo-Spatial Techniques along the coast between Kanyakumari and Tuticorin*, International Conference on Power, Control, Signals and Instrumentation Engineering, ISBN No.978-1-5386-0814-2., 2017
- ▶ K.Manjulavani, B.Harish, M.Shantosh,, V.MadhaviSupriya, *Change Detection of Land use and Land Cover using Remote Sensing Techniques*, International Conference on Power, Control, Signals and Instrumentation Engineering, ISBN No.978-1-5386-0814-2., 2017
- ▶ K.Manjulavani, K Sashikiran Babu, *Evaluation of Hydrodynamic Pressure in Arch Dams under Earthquakes*, 8th International Conference on Civil and Environmental Engineering (I2C2E), 2016
- ▶ K.Manjulavani, Prathyusha B, Ramesh M, *Soil Erosion and Sediment yield modeling using Remote sensing and GIS techniques*, International conference on Recent Innovations and Engineering Technologies, 2016
- ▶ Sudarshan, K.Manjula Vani, V Bhikshma, *Strength Characteristics of HDPE Concrete*, International Conference in Osmania University, 2015
- ▶ Ballu Harish,, R.Venkat Seshu, K.Manjulavani, *Dissemination of Atmospheric Data through Open Source GIS*, International Conference on Environment and Energy, ISBN No.978-93-81212-96-7, 2014
- ▶ M.Sumanth Reddy, Sourav Maity, K.Manjula Vani, *Indian Oil Sardine Prediction Pattern using Satellite Remote Sensing and GIS applications*, International Conference on Environment and Energy, ISBN No.978-93-81212-96-7, December, 2014
- ▶ Maloth Chaitanya, K. Manjula Vani,, *Correlation of Wireless Sensor Networks with Remote Sensing*, International Conference on Environment and Energy, ISBN No.978-93-81212-96-7, December, 2014
- ▶ Ballu Harish, R.Venkat Sesh, K Manjulavani, *Dissemination of Atmospheric Data through Open Source GIS*, International Conference on Environment and Energy, ISBN No.978-93-81212-96-7, December, 2014
- ▶ M.Sumanth Reddy, Sourav Maity, K.Manjula Vani,, *Indian Oil Sardine Prediction Pattern using Satellite Remote Sensing and GIS applications*, International Conference on Environment and Energy, ISBN No.978-93-81212-96-7, December, 2014
- ▶ K.Sashikiran Babu,, K.Manjula Vani, *Environmental Impact Assessment of Large Dams*, International Conference on Environment and Energy, International Conference on Environment and Energy, ISBN No.978-93-81212-96-7, December, 2014
- ▶ G. Srinivasa Rao, K. Manjula Vani, *Reuse of HDPE for Municipal Solid Waste Disposal*, International Conference on Environment and Energy, International Conference on Environment and Energy, ISBN No.978-93-81212-96-7., December, 2014
- ▶ T. Valsa Ipe, H. Sharada Bai, K Manjulavani, *Performance of Cold-formed Steel-concrete Composite beams under Flexure*, Proceedings of International Conference advances in Architecture and Civil Engineering, Vol No.1, pp.21-23, June, 2012
- ▶ T. Valsa Ipe,, H. Sharada Bai,, K. ManjulaVani,, *Experimental study on the influence of Lip Size on the Flexural strength of Cold-Formed Steel Concrete Composite Beams*, Proceedings of International Conference on Civil, Structural and Environmental Engineering, pp.586-589, February, 2011
- ▶ K.Manjulavani, B. Krishna Gandhi, P.N. Rao, *FEA of Koyna concrete gravity dam*, proceedings of International Conference on Disaster Management, NAC, India, November, 2003
- ▶ K.Manjulavani, P.N. Rao., *Adaptive FEA of Concrete gravity dams*, International conference on Disaster Management, November, 2003

## - ▶ **Events Participated/Organized**

### - **Organized**

- ▶ Organized a Conference on National Conference on Recent Advances in Civil Engineering-2019, JNTUH-Hyderabad, 05-07-2019
- ▶ Organized a Workshop on National Workshop on Special Concrete-2018, JNTUH-Hyderabad, 30-10-2018
- ▶ Organized a Workshop on National Workshop on Disaster Management-2018, JNTUH-Hyderabad, 28-09-2018
- ▶ Organized a Conference on National Conference on Remote Sensing Applications-2018, JNTUH-Hyderabad, 24-03-2018
- ▶ Organized a Conference on National Conference on Sustainable Urban Planning-2016, JNTUH-Hyderabad, 05-07-2016

### - **Co-ordinated**

- ▶ Coordinated for a Refresher Course on *GIS Based Engineering Applications*, JNTUH-Hyderabad, 25-02-2013 to 16-03-2013
- ▶ Coordinated for a Orientation Course on *Disaster Management*, JNTUH-Hyderabad, 11-02-2013 to 16-02-2013
- ▶ Coordinated for a Refresher Course on *Recent Advances in Biotechnology & Bioinformatics*, JNTUH-Hyderabad, 05-11-2012 to 26-11-2012
- ▶ Coordinated for a Orientation Course on *Disaster Management*, JNTUH-Hyderabad, 27-02-2012 to 03-03-2012

### - ▶ **Teaching**

- ▶ C&Data Structures in B.tech-Civil Engineering II-I (1994-2000)
- ▶ Design of Steel Structures in B.tech-Civil Engineering III-II (2000-2006)
- ▶ Design of Reinforced Cement Concrete in Btech-Civil Engineering II (1997-2003)
- ▶ Structural Engineering -III in B.tech-Civil Engineering IV-I (1995-2003)
- ▶ Strength of Materials in B.tech-Civil Engineering I (1991-2006 .)
- ▶ Building materials and Construction in Btech-Civil Engineering II-1 (2019,2020.)
- ▶ Design of High Rise Buildings in M.Tech-Structural Engineering II (2019,2020,2)
- ▶ Finite Element Analysis in M.Tech-Structural Engineering II (2019,2020)
- ▶ Theory of Elasticity in M.Tech-Structural Engineering I (1992-2006,2)
- ▶ Theory of Plates and Shells in M.Tech-Structural Engineering II (2017,2018,2)
- ▶ Advanced Concrete Technology in M.Tech-Structural Engineering I (2016,2017,2)
- ▶ Data Base Management Systems in Center for Spatial Information Technology I (2009,2010,2)
- ▶ Global Navigation Satellite Surveying in Center for Spatial Information Technology I (2014,2015,2)
- ▶ Disaster Management in Center for Spatial Information Technology II (2010,2011,2)
- ▶ Fundamentals of GIS in Center for Spatial Information Technology II (2013,2012,2)
- ▶ Surveying in Center for Spatial Information Technology II (2014)

### - ▶ **Administrative Positions Held**

- ▶ Board of Studies - Chairperson, JNTUH University - Civil Engineering, 01 Apr 2019 - 01 Apr 2021
- ▶ Board of Studies - Chairperson, JNTUHIST-CSIT, 01 Jun 2015 - 01 Jun 2019
- ▶ Head of Department, JNTUH-CEH, Civil Engineering, 10 Aug 2016 - 10 Aug 2018
- ▶ Board of Studies - Chairperson, JNTUH-CEH, Civil Engineering, 01 Jun 2016 - 01 Jun 2018
- ▶ Director-UGC, JNTUH University, 06 Aug 2010 - 22 May 2013

- ▶ **Countries/Foreign Universities**

- ▶ The Swedish school of planning, Karlskrona, Sweden , 18-01-2016 to 05-02-2016 Visiting department of Spatial Planning
- ▶ UPPSALA UNIVERSITET, Uppsala, Sweden , 25-01-2016 to 29-01-2016 Collaboration in area of advanced materials

**Contact :**

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Civil Engineering

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