# JNTUA COLLEGE OF ENGINEERING:: ANANTAPUR (AUTONOMOUS)

# **BIO DATA**



Name: R.BHAVANI

Date of Birth: 25-05-1976

**Designation**: Professor in Civil Engineering

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JNTUA College of Engineering

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#### **Education:**

- B.Tech Civil Engineering, JNTU College of Engg, Anantapur, 1998.
- M.Tech (Water resources Engineering), JNT University, Hyderabad, 2002.
- Ph.D (Water resources Engineering), JNT University, Anantapur. June, 2013.

# **Experience:**

 Assistant Professor, Civil Engineering Department, JNTU Anantapur for a period of 13 years, Associate Professor for a period of 3 years and Professor since January 2017.

## **Additional posts:**

- Officer incharge of Academic section from October 2010 to March 2013.
- Additional Controller Of Examinations from September 2014 to March 2018
- Controller Of Examinations from April 2018 to April 2021.

- Head of civil Engg. Dept. since May 2021.
- Vice Principal, JNTUACEA and Head of civil Engg. Dept, JNTUACEA Anantapur since August 25 to till date.
- UG BOS Chair person since September 2021 to till date.
- Participating in Consultancy works of the Department.
- Acting as member of Governing body Council for two Affliated colleges.

### Memberships in professional societies:

- Life Member of Indian Society for Technical Education.
- Life member of Indian Association of Hydrologists
- Life member of The Institute of Engineers (India)

#### **Papers Published in Journals:**

- 1. R. Bhavani, G. Abbaiah, "Ground Water Irrigation and Agricultural Development A Case Study of AP", Southern Economist, 50(23) 2012, 8-12.
- R. Bhavani, K. Madan Mohan Reddy, B. Ajitha, "Melt DensifiedPost Consumer Recycled Plastic Bags used as Light Weight Aggregate In Concrete", International Journal of Engineering Research & Applications, 2 (4) 2012, 1097-1101 (UGC).
- Bhavani, R , 2012. Local Construction And Demolition Waste Used As Coarse Aggregates In Concrete", International Journal of Engineering Research & Applications (IJERA) P.No: 1236 to 1238
- 4. Bhavani, R., 2013. Construction of Theissen polygons for rain gauge stations in Anantapuram district. *International Journal of Computational Enginneering Research*, *3*(6), pp.35-38. (UGC)
- 5. Bhavani, R., 2013. Comparision of mean and weighted annual rainfall in anantapuram district. *International Journal of Innovative Research in Science, Engineering and Technology*, 2(7), pp.2794-2800.
- 6. Bhavani, R., 2013. Comparision of Weighted Rainfall obtained Using Theissen Polygon and Isohyets in Chitravathi Sub basin.

- 7. Bhavani, R., 2013. Developing an equation for computation of runoff for Jilledubanderu minor basin", International journal of Civil, Structural, Environmental and infrastructure Engineering Research and Development (IJCSEIERD) P.No: 1 to 7
- 8. Sharada and R. Bhavani, 2013. Water quality index for assessment of water samples of different locations in Tirupati, Chittoor District, A.P, India", International journal of Advanced Scientific and Technical Research P.No: 318 to 324.
- 9. R. Bhavani,2014.Maping River Inundation A Case Study on River Pennar from Penna Ahobilam Balancing Reservoir (PABR) To Mid Pennar Reservoir (MPR). International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)
- 10. Bhavani.R ,2015. Computation of effective rainfall for wet crops-A case study on 5<sup>th</sup> distributary at Mid Pennar South Canal(MPSC)", P.No 170 to 176
- 11. Bhavani.R, 2015. Computation of yield based on weighted normal monsoon rainfall for Kundu sub-basin of Pennar basin", International Journal of Advanced Scientific and Technical Research P.No:25 to 31.
- 12. Bhavani,R,2016. Comparision of runoff computed by table and dry damp method. International Journal of Science Technology & Engineering | IJSTE
- 13. Bhavani,R,2016. Experimental investigation of drainage water-A case study, International journal for Scientific Research & Development. P.No:124 to 127
- 14. M.Padmaja, R.Bhavani, and R.Pamila, 2018. Adsorption of Cadmium from Aqueous Solutions Using Low cost Materials-A Review, IJET. P.No 26 29
- 15. Anil.A, Chandra sekhar Reddy K AND Bhavani.r, 2018. Logarithmic method of groundwater quality index in palar basin at chittoor district, andhra pradesh International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), vol 4 pg. 247-253
- 16. A.Anil, K. Chandra Sekhar Reddy, R.Bhavani,2019. Assessment of Physico Chemical of Groundwater Qu P arameters ality Index of Palar Basin u sing Remote S Sub ensing and GIS. ISSN: 2278-3075, Volume-8, Issue-6S4, April 2019 (SCOPUS).

- Gouse Peera.D and Bhavani .R, 2019. Assessment of rainfall recharge in a basin, IJRAR19K2761 International Journal of Research and Analytical Reviews. Pg. 308-312 (UDC)
- 18. Gouse Peera.D and Bhavani .R, 2019. Computation of Groundwater Draft for Handri River Basin in Andhra Pradesh, India. Helix, ISSN 2319-5592. (ESCI).
- 19. Gouse Peera.D and Bhavani .R, 2020. Significant groundwater level decline for Handri river basin, Andhra Pradesh, india Journal of Indian water works association. PG.NO 295-298. (UGC).
- 20. M.Padmaja, Dr. R.Bhavani, "Response Surface Optimization Of Fixed Bed Adsorption Of Cr+6 Onto Low-Cost Adsorbent" Current World Environment ISSN: 0973-4929, Vol. 15, No. (3) 2020, Pg. 632-639. Oct 2020 (Web Of Science, UGC Care-II).
- 21. Gouse Peera.D and Bhavani .R, 2021. Groundwater Investigation by Electrical Resistivity Method in Cheyyeru River Basin, District-Kadapa, Andhra Pradesh. Journal of Indian water works association. PG.NO 31-36 (UGC)...
- 22. .Padmaja, Dr. R.Bhavani," Green Treatment And Artificial Neural Networks For The Breakthrough Analysis Of Single And Multi-Variant Elements", Research Journal Of Chemistry And Environment 0972-0626 Volume 25(5),Pp 183-; May 2021(Scopus Q4)
- 23. M.Padmaja, Dr. R.Bhavani," Effect Of Carbonization Temperature In The Production And Utilization Of Green Carbons For Chromium (VI) Removal", Journal of Civil Engineering and Applications E-ISSN 2707-8396 P-ISSN: 2707-8388 2022; 3(1): 01-04, **Dec,2021** (Peer Reviewed)
- 24. Gouse Peera.D and Bhavani .R, 2022. Stage of Groundwater Development-A Case study for Handri river basin, Andhra Pradesh, India. Journal of Indian Water Works Association. PG.NO 178-183. (UGC).
- 25. M.Padmaja, Dr. R.Bhavani Chemically Modified Lignocellulosic Biochars From Vetiver Onto Adsorption Of Pb+2 And Ni+2 Advanced Engineering Science ISSN: 2096-3246 Volume 54, Issue 02, **November**, **2022** (Scopus)
- 26. K.Pavan Kumar, R.Bhavani, K.Jithendra Gowd, 2023. Reliability analysis on properties of flyash concrete for the determination of comprehensive strength industrial engg journal ISSN:0970-2555 Volume :52,issue 2, feb-2023 (UGC-CARE) Link: http://www.journal-iiie-india.com/1\_feb\_23/40.pdf
- 27. M.Nikhil, R.Bhavani, Y.Manasa, 2023. Analysis of Sustainable Concrete by Using Reliability Methods. IJSER, ISSN:2347-3878 (UGC-CARE).

Link: https://www.ijser.in/archives/v11i2/SE23131194225.pdf

- 28. Javid.S, Bhavani.R, K.Jithendra Gowd, 2023. Study Of Strength Characteristics Of Concrete Using Reliability Methods .Journal Of Northeastern University ISSN:1005-3026 Volume 26 issue 01,2023. (scopus)
- 29. Leela manasa.P, Bhavani, R. Rizwan, P, 2023. Reliability Analysis on UCS behavior of Fiber Reinforced Cohesive Soil. Material science and technology Doi:10.10543/f0299.2023.41532 (scopus)
- 30. Gayatri.S, Bhavani, R. Rizwan, P, 2023.Introducing level of confidence and reliability analysis usinjg chi-square method for raft foundation. Material science and technology Doi:10.10543/f0299.2023.41533.(scopus).

#### Papers published in Conferences

#### INTERNATIONAL:

- 1. D.Gouse Peera, R.Bhavani. A study on assessment of groundwater resources in a basin by rainfall resources in a basin by rainfall infiltration factor method. International conference on "Hydrology and watershed management: Urban water management for sustainable development. By JNTUH in 2019
- 2. D.Gouse Peera, R.Bhavani. Annual ground water availability in Handri river basin, India. International conference on Advances in Science, Engineering & Mathematics(ICASEM 2020. By Annamacharya Institute of Texhnology and Sciences, Rajampet in 2020.

#### NATIONAL:

- 3. R.Bhavani, T.Kiran kumar, N.Kumara Swamy, G.Abbaiah, 2007. Sustainable materials and technologies for integrated watershed management. A National conference on "Recent Advances in Structural Engineering, RASE-2007" by Civil Department, JNTU College of Engineering, Anantapur.
- 4. R.Bhavani, G.V.N. Reddy, V. Venkateshwara Reddy, B. Krishna Rao, Cost Effective containement of industrial waste, A National conference on "Advanced Trends in Mechanical Engineering Reesearch and Development BY JNTUA IN 2001.

- 5. R.Bhavani, Dr.A.Manjunath, Dr.G.Abbaiah, Multi Linear Regressive Model of Groundwater Quality in Anantapur District of A.P. in India. workshop on "R&D Frontiers in Water and Wastewater Management" BY NEERI in 2006.
- 6. A.Anil, K.Chandra Sekhar Reddy, R.Bhavani. Statistical Analysis of Physicochemical parameters of water of Palar Sub basin, Chittoor District. Natiopnal conference on "Recent trends in Science, Engineering & Technology" by Annamacharya Institute of Technology & Sciences: Tirupati in 2019.
- 7. D.Gouse Peera, R.Bhavani. Recharge assessment from non-rain sources for Handri river basin. ational conference INGWC-2020 on "ground water resources management for sustainable development: Special emphasis on coastal and urban environment. By Centre for water resources development and management, Kozhikode, Kerala in 2020.

#### **Published Book Chapters:**

1. D.Gouse Peera, R.Bhavani A Study on Assessment of Groundwater Resources in a Basin by Water Table Fluctuation Method. Groundwater and Water Quality pp 365–369. Springer link. https://link.springer.com/chapter/10.1007/978-3-031-09551-1 29.

#### Details of the various courses attended

| S.No | Name of the course  | Organized by                | Duration |
|------|---|-----------------------------|----------|
| 1    | Refresher Course on "Digital image                        | <b>9</b> ·                  | 3 weeks  |
|      | processing and Softcopy Photogrammetry"                   | JNT University, Hyderabad.  |          |
| 2    | Refresher Course on "Design and                           | UGC Academic Staff College, | 3 weeks  |
|      | Applications of Robotic Systems and Advanced Mecghanisms" | JNT University, Hyderabad.  |          |
| 3    | Faculty Development Programme                             | Centre for Water Resources, | 2 weeks  |
|      | on"Applications of Geomatics                              | JNT University, Hyderabad.  |          |
|      | forDisaster Management(AGDM-                              |                             |          |

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| 4  | Certificate Course in Computer Aided<br>Engineering" (ANSYS)   | Civil Engineering Department ,<br>JNTUA College of Engineering,<br>Anantapur  | 1 week                    |
|----|--|---|---------------------------|
| 5  | Faculty Development Programme on "Entrepreneurship" from 06/07/2015 to 18/07/2015  | Entrepreneurship Development Institute of India under DST- NIMAT 2014-2015 in association with JNTUA College of Engineering Anantapur, JNTU Anantapur, A.P. | 2 weeks                   |
| 6  | Training Course on  "Sustainable development &  Management of Ground water resources" from 20/07/2015 to  24/07/2015                 | Ministry of water Resources,<br>River Development & Ganga<br>rejuvenation, Cerntral ground<br>water board, Southern Region.                                 | 1 week                    |
| 7  | Faculty development programme on" BIG DATA ANALYTICS"  | TATA Consultancy Services Held at JNTUA CEA, Anantapur  | 3 Day (20 to 22 Feb 2017) |
| 8  | Two Day Workshop on "Water resources in Rayalaseema Region :Issues ,Challenges and solutions".                                       | JNTUA CEA, Anantapur  | 2 Day (7&8 March 2018)    |
| 9  | One week faculty development programme on "Reinforcing Professional Communication Skills for Teaching faculty" from 11-15 June 2018. | JNTUA CEA, Anantapur sponsored by TEQIP-III   | One week                  |
| 10 | One week faculty development programme on "Soft skills and Personality development"  | JNTUA CEA, Anantapur under TEQIP-III  | 1 week(10-14 Dec, 2018)   |
| 11 | Two Day National workshop on "Sustainable construction materials and techniques"   | JNTUA CEA, Anantapur under TEQIP  | 2 day( 8&9 Aug<br>2019)   |
| 12 | One week faculty development programme on "Leadership skills"  | JNTUA CEA, Anantapur under TEQIP-III  | 1 week(19-24 August 2019) |

| 13 | One week faculty development              | JNTUA CEA, Anantapur under                      | 1 week (04-09          |
|----|---|---|------------------------|
|    | programme on "Innovative Teaching-        | TEQIP-III                                       | September 2019)        |
|    | Learning Techniques in Higher             |   |                        |
|    | Education"                                |   |                        |
| 14 | One week faculty development              | JNTUA CEA, Anantapur under                      | 1 week(23 to 28 SEP    |
|    | programme on "Research methodology        | TEQIP-III                                       | 2019)                  |
|    | and data analysis"                        |   |                        |
| 15 | Three Day National workshop on            | JNTUA CEA, Anantapur under                      | 3 Day (6 to 8 Dec      |
|    | "Pedgogical skills for faculty in         | TEQIP-III                                       | 2019)                  |
|    | outcome based education".                 |   |                        |
| 16 | One Day workshop on "Good                 | JNTUA CEA, Anantapur under                      | 1 Day (21-12-2019)     |
|    | construction Practices "                  | TEQIP-III                                       |                        |
| 17 | Five day faculty development              | JNTUA CEA, Anantapur under                      | 5Day (21st to 25Th Jan |
|    | programme on" Awareness on                | TEQIP-III                                       | 2020)                  |
|    | Electric/Hybrid Vehicle engineering".     |   |                        |
| 18 | TWO week faculty development              | JNTUA CEA, Anantapur –                          | 2Week(24-02-2020       |
|    | programme on" Mathematical modeling       | AICTE Sponsered                                 | to07-03-2020           |
|    | and simulation for scientists and         |   |                        |
|    | engineers                                 |   |                        |
| 19 | One week short term training program      | SV College of engineering,                      | 27.07.2020 to          |
|    | on Nanotechnology and functional          | Karakambadi Road, Ttirupati-<br>AICTE Sponsered | 01.08.2020             |
|    | materials (NTFM)                          | THE TE Sponsered                                |                        |
| 20 | One week short term training program      | Srinivasa Ramanujan Institute                   | 06.08.2020 to          |
|    | on Earthquake Analysis of Tall            | of Technology(Autonomous)                       | 12.08.2020             |
| 21 | Buildings Five day National level faculty | - AICTE Sponsered<br>Dept. of Chemical          | 21 to 25 Sept 2020     |
| •  | Development Program for Educators         | Engineering, JNTUA CEA,                         | to 10 20 20pt 1010     |
|    | of environmental studies                  | Anantapur                                       |                        |

# **Programes conducted:**

- 1. National level student symposium in 2008.
- 2. National level student symposium in 2011.
- 3. Two day workshop on "Water Resources in Rayalaseema Region" on 7<sup>th</sup> and 8<sup>th</sup> March 2018 as convenor.

- 4. One day workshop on "Bridge: Design, Analysis and fabrication" under TEQIP III on 28.03.2019 as convenor.
- 5. National level student symposium RACE 2k19 on 29.03.2019 as convenor.
- 6. One Day seminar on "Over view on Rehabilitation and Retrofitting of Concrete Structures" on 03.12.2021 for Civil engineering students by expert Dr.N.Venkata Ramana, Associate professor, Civil Engineering department, UBDT College of engineering, Davangere Karnataka in Seminar hall in the Department. For Photos <a href="https://photos.app.goo.gl/qjscTmiZ6N17VZWb9">https://photos.app.goo.gl/qjscTmiZ6N17VZWb9</a>
- 7. On line seminar on "GATE opportunities for CIVIL Engineering" on 08.12.2021 by R.I.C.E. (Rigorous Intensive Coaching for Engineers) Academy with link <a href="http://meet.google.com/kiz-tgxk-jci">http://meet.google.com/kiz-tgxk-jci</a>
- 8. One day workshop on Modern Building Materials by UltraTech on 05.05.2022 as convenor.
- 9. National level student symposium RACE 2k22 on 06.05.2022 as convenor.
- 10. Interaction programme on "Career opportunities after completion of bachelor degree." On 01/03/2023 as Co-ordinator.

NOTE: Two day workshop, sponsored by University Grants Commission, New Delhi On" Outcome Based Education Approach in Engineering Curriculum" organized by JNTUACEA during 26/08/14 & 27/08/14. http://ipindiaonline.gov.in/patentsearch/search/index.asp

#### **PhD Supervision:**

One student has been awarded Ph.D and Presently Guiding 7 students.