

Curricula Vitae

Name : **Nanduri V Umamahesh**
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Date of Birth : 28.06.1963
Citizenship : Indian
Marital Status : Married and two children

Education:

- **Ph.D.** in Civil Engineering on *Optimal Planning and Operation of Irrigation Reservoirs under Multi Crop Environment* from Regional Engineering College (now National Institute of Technology), Warangal in 1995.
- **M.Tech.** in Water Resources Engineering from Indian Institute of Technology, Kharagpur, (1984-1986).
- **B.E.** in Civil Engineering from College of Engineering, Osmania University, Hyderabad 1980-1984. First Class with Distinction

Experience:

Lecturer in Civil Engineering, Regional Engineering College, Warangal 1987 – 1995
Assistant Professor in Civil Engineering, Regional Engineering College (National Institute of Technology since 2003) 1995 – 2004
Professor in Civil Engineering, National Institute of Technology, Warangal 2004 – 2018
Professor (HAG) since March 2018
Visiting Faculty at Asian Institute of Technology, Bangkok, August 2007 to December 2007

Areas of interest:

Reservoir Operation and Management, Hydrological Analysis and Modelling, Irrigation Management, Watershed Management, Water Resources Systems, Water Quality Modelling and Management, Remote Sensing and GIS Applications, Neuro-Fuzzy Applications in Water Resources

Subjects Taught:

Under Graduate

Fluid Mechanics, Engineering Hydrology, Irrigation Engineering, Systems Analysis in Civil Engineering

Graduate

Water Resources Systems Planning and Management, Engineering Hydrology and Hydrologic Systems, Computational Methods, Applications of Soft Computing Techniques, Stochastic Hydrology

Ph.D. Guidance: Completed – 11; Ongoing – 7

M.Tech Guidance: Guided more than 100 M.Tech Theses

Publications: 45 papers in International Journals, 5 in National Journals and 50 in National and International Conferences

Major Projects Undertaken/ Ongoing:

1. Short and Medium Range Flood Forecasting System for Godavari River Basin using Ensemble Weather Forecast (Ongoing), Sponsored by Indian Institute of Tropical Meteorology, Pune, Ministry of Earth Sciences, Government of India, sanctioned in August 2018. Duration of project is 3 years. Sanctioned amount – Rs. 54 lakhs
2. A Decision Support System for Climate Change Adaptation of Chain Tank Systems of Semi-Arid Region (Co-PI) (PI: Dr. K. Venkata Reddy), DST, Rs. 35.6 lakhs
3. Integrated Water Management Model for BIS Countries under Climate Change Scenarios, DST, Rs. 39 lakhs (Co-PI) (PI: Dr. K. Venkata Reddy)
4. Real Time Flood Forecasting using SWAT Model, MHRD, SPARC Programme, Rs. 81.76 lakhs (Co-PI), (PI: Dr. K. Venkata Reddy)
5. Integrated Urban Flood Management in India: Technology Driven Solutions (Ongoing), sponsored by Information Technology Research Academy (ITRA), The Department of Electronics & Information Technology, Ministry of Communication and Information Technology, Government of India, sanctioned in November 2013. Duration of the project – 4 years. Sanctioned amount – Rs. 67 lakhs, completed in December 2018
6. Developing Suitable Pedagogical Methods for various classes, Intellectual Calibres and Research in E-learning for Engineering Hydrology, sponsored by MHRD-NMEICT (Co-developer: Mr. V N Kameswara Rao) – Pilot Phase completed in March, 2011. Main phase in ongoing and in March, 2017.
7. Warangal Watershed Development Project (2000-2004) sponsored by Ministry of Rural Development, Government of India through District Water Management Agency, Warangal District – Implemented watershed development activities in six villages of Warangal District. As part of the project, several soil and water conservation works worth about Rs. 30 millions were implemented in the villages through public participation.

Organisation of Seminars/ Workshops and Short Term Courses:

Organised two International Conferences and 6 workshops/ short term courses

Administrative Responsibilities:

1. Chief Warden of NITW Hostels January, 2005 to December, 2006
2. Head, Department of Civil Engineering, NITW, July, 2008 to June, 2010
3. Dean, Students' Welfare, July 2012 to March 2013
4. Dean, Planning & Development, April 2013 to June 2014
5. Coordinator, TEQIP July 2015 – July 2017

Awards:

- Merit Certificate for the paper presented at the 2nd International R&D Session of CBIP held at New Delhi during October 1996
- State Level “Jalamitra” Award constituted by the Government of Andhra Pradesh for successful implementation of watershed project in March, 2003
- G.M. Nawathe award for best paper presented at National Conference on Hydraulics and Water Resources, HYDRO-2004, held at Nagpur, India in December, 2004
- Best Paper award for the paper presented in International Conference on Modelling Tools for Sustainable Water Resources Management held at IIT, Hyderabad in December 2014
- Best Engineering Faculty Award 2017 presented by National Institute of Technology, Warangal and NITW Alumni Association.