



Dr. G K Viswanadh

B.E. (Civil Engineering), M.E. (Hydraulics), Ph.D. (Water Resources)

Senior Professor & Director, UGC-HRDC & Director IQAC JNTUH

FIE, MISTE, MIAH, MIWRS, MISRS, MJOSAH

Civil Engineering

Areas of Interest:

- â€¢ Integrated Water Resources Management
- â€¢ Watershed management
- â€¢ Rainwater harvesting
- â€¢ Management of Lift irrigation schemes
- â€¢ GIS applications in water resources management
- â€¢ Friction factor studies in pipes
- â€¢ Modeling techniques in water resources management

Dr. G.K. Viswanadh is presently working as Senior Professor of Civil Engineering and Director UGC-HRDC and Director, IQAC, JNTUH. He has vast experience in academics, research, consultancy, administration and examinations. He worked as the **Head of Civil Engineering** (2006-2008), **Director of Evaluation** (2008-2011) and **Director, Academic & Planning** (2011-2013), **OSD to Vice-Chancellor** (2014 to 2018) and presently the **Director UGC-HRDC** (2018 - till date). He worked as the Nodal Officer for the world bank project TEQIP-1 for JNTU College of Engineering Hyderabad during 2003-08. He worked as the Convener/Co-convener / Coordinator for various recruitment and admissions tests conducted by the university.

Dr.Viswanadh's research interests are in the areas of Integrated Water Resources Management, Watershed Management, Rainwater Harvesting, Management of Lift Irrigation Schemes and GIS Applications in Water Resources Management.

Dr.Viswanadh has published **226** well-researched scholarly papers at National and International journals and conferences, guided **14 Ph.D.** and **25 M.Tech** dissertations. At present, he is guiding **7 Ph.D.** scholars and a large number of M.Tech. students. He has organized **23 national conferences** and workshops besides being a member of organizing committees for several seminars and workshops at National and International levels. He has delivered **103** lectures at various Institutions/organizations.

Dr.Viswanadh has attended **34** national and **16** International seminars/conferences. He has been associated with several MHRD and AICTE R&D Projects. Dr.Viswanadh has completed **18 research & consultancy projects** and has been actively involved in several Industrial Consultancy Projects like Third Party Quality control of Irrigation projects, Comparative Evaluation of Minor irrigation Projects, NFFWP works, Fire safety for High rise hospitals, Design of mini hydel stations etc. He authored / edited **5 books** in his field of water resources engineering. He is the Technical Paper Reviewer for the Civil Engineering Journal published by Institution of Engineers, and Journal of Spatial Hydrology several. He is also a Fellow of Institution of Engineers and a member of **06** professional bodies and **16** advisory committees. He worked as the coordinator for AICTE faculty Development programs for the year 2019-20 to 2021-22. He received the **Young Engineer Award** in 1996, and the Kancha Reddy Memorial Award for the **Best Paper** published in IWWA in 2007. He received State Level **Best Teacher Award** from the Govt. of AP for the year 2010 and **Best Director Award** 2013 from Education Expo Academic Brilliance Awards, **Best research paper award** 2018 from the Research world and Lifetime Golden achievement award-2020 Bhrat Rattan publishing house.

Dr.Viswanadh visited several countries for dissemination of his research outputs and for exchange of ideas, to name a few - Omaha USA (2006), Hawaii USA (2007), Thailand (2009), Sri Lanka (2011), Hong Kong (2011), Urbana Champaign IL , USA (2012), AIT Bangkok (2013), US Flight Academy, Texas, USA (2013), San Francisco, USA (2014), New York, USA (2015), Florida, USA (2016), Washington, USA (2017), New York , USA(2018). He presented his research papers in the international conferences in all these countries.

As a Director of the UGC Human Resource Development Center in JNTU Hyderabad, he conducted several programs to train the faculty members across the country (10351 faculty members in four years of time 2018-22) and the center has been identified as the **High performing Training Center** during his period as Director among the 66 HRDCs across the country. Dr.Viswanadh has coordinated 9 Orientation programs of three/four week duration, 9 Faculty Induction Programs of one month duration, 4 Refresher courses of two/three weeks duration and 19 short term & Faculty Development programmes, 1 Entrepreneurship development program, 3 Professional Development Programme and 10 webinars for the faculty members across India and 6 training programs to the Metro water board engineers.

- ▶ Educational & Professional

- ▶ Academic Qualifications

- ▶ Ph.D. in Water Resources, Jawaharlal Nehru Technological University (JNTU) (1991-1995)

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M.E. in Hydraulics, Mysore University, Mysore. with First Class with Distinction (1986-1988)

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B.Tech. in Civil Engineering, Nagarjuna University, A.P. with I Class with Distinction (1981-1985)

▶ Professional Experience

- ▶ Teaching Experience

- ▶ Lecturer, SVH CE, Machilipatnam (1985 - 1992-12-01)

- ▶ At JNTUH

- ▶ Senior Professor, JNTU Hyderabad (2016 - Till Date)

- ▶ Professor, JNTU Hyderabad (2003 - 2016)

- ▶ Assoc. Professor, JNTU Hyderabad (1998 - 2003)

- ▶ Assistant Professor, JNTU Hyderabad (1992 - 1998)

- ▶ Research

- ▶ Research Projects

- ▶ *Drinking Water Augmentation to Sc Communities in Fluoride Affected Areas of Nalgonda District Through Rainwater Conservation*, funded by NRDMS, Ministry of Science and Technology, Department of Science and Technology - Rs.5.52 Lakhs (2016 - 2018)

- ▶ *A novel approach for reduction of fluoride concentration in fluoride affected village with geo-textile as filter and direct recharge of surplus runoff into aquifers*, funded by TSCOST, Telangana state, Govt. of Telangana - Rs.8.50 lakhs (2016 - 2018)

- ▶ *Integrated Water Resources Management strategies for typical scanty rainfall area* “A case study of lower Krishna Basin”, funded by AICTE, Government of India - Rs.4.00 lakhs (2003 - 2007)

- ▶ *Descriptive and Prescriptive Models for Effective Management of Floods*, funded by AICTE, Government of India - Rs.3.00 lakhs (1998 - 2002)

- ▶ *Modernization of Fluid Mechanics and Hydraulics Laboratory*, funded by MHRD, Government of India - Rs.5.00 lakhs (1993 - 1996)

- ▶ **Books**

- ▶ G.K.Viswanadh, NV Ramana Rao, *Proceedings of the National Workshop on Mechanisation in High Rise Construction*, Proceedings of the National Workshop on Mechanisation in High Rise Construction , 2009
- ▶ G.K.Viswanadh, *Environmental Engineering Laboratory Manual*, 2007
- ▶ G.K.Viswanadh, *Fluid Mechanics and Hydraulic Machines laboratory manual*, 2007
- ▶ G.K.Viswanadh, M.V.S.S. Giridhar, *Proceedings of (ICRAMAV-2012) International conference on recent advances in design, development and operation of micro air vehicle*, ISBN: 978-81-7800-281-1, 2012
- ▶ G.K.Viswanadh, M.V.S.S. Giridhar, *Proceedings of the National Conference on Watershed Management and Impact of Environmental Changes on Water Resources*, ISBN: 81-7800-143-8, 2007
- ▶ G.K.Viswanadh, M.V.S.S. Giridhar, *Proceedings of the National Workshop on Watershed Management and Impact of Environmental Changes on Water Resources*, 2006

- ▶ **Administrative Positions Held**

- ▶ Director of UGC-HRDC, JNTUH, 01 Nov 2018 - Present
- ▶ OSD to Vice-Chancellor, JNTUH, 01 Oct 2014 - 01 Apr 2018
- ▶ Director, Academic and Planning, JNTUH, 01 Jun 2011 - 01 Feb 2013
- ▶ Director of evaluation, JNTUH, 01 Aug 2008 - 31 Jan 2011
- ▶ Head, Civil Engineering, JNTU College of Engineering, Hyderabad, 01 Nov 2006 - 31 Aug 2008
- ▶ Nodal Officer TEQIP, JNTU College of Engineering, Hyderabad, 01 Dec 2003 - 01 Feb 2008
- ▶ Officer In charge of Hydraulics Lab of Civil Engg., JNTUH, 01 Oct 1995 - 28 Feb 2006
- ▶ Officer in charge of Examinations, JNTUCE, Hyderabad, 01 Oct 1995 - 01 Jun 2003
- ▶ Officer In charge of Computer Laboratory of Civil Engg, JNTUH, 01 Mar 1995 - 30 Apr 1998

- ▶ **Countries/Foreign Universities**

- ▶ American Society of Civil Engineers(ASCE), Honolulu, Hawaii, USA Presenting a research paper in the international conference
- ▶ American Society of Civil Engineers(ASCE), Nebraska, USA Presenting a research paper in the international conference

- ▶ **Others**

Papers Published:

•81 Papers published in national and international conferences and journals.

Conferences :

Conferences Attended: 30 at national and international levels

Conferences/Seminars Organised: 06 at national level.

Member of Organizing Committee: 16 conferences at national and international level.

Advisory Members of Societies/Govt. Bodies

- Member of Advisory core committee for I & CAD Department, for e-governance, Govt. of A.P.
- Member of the governing body Kamala Nehru Polytechnic, Hyderabad.
- Member of academic development committee, SRTIST, Nalgonda, A.P.
- Member of Board of Studies, Dept of Civil Engg, JNTU College of Engineering, Hyderabad (Autonomous)
- Member of Board of Studies, Institute of Science & Technology, JNTU, Hyderabad
- Member of Board of Studies, Affiliated colleges, JNT University (Autonomous), Hyderabad.

Reviewer of Technical Journals: Institution of Engineers, Journal Spatial Hydrology

Present Areas of research: Water resources planning, design and management

Member of Evaluation of Committees for different universities like OU, AU, SKU, KU, NITW

Member of Professional Bodies: at national and international level like MIE, MIWRS, MJOSH, MISTE, MSWE, MISRS, MIAH

Member of Expert committees : Dept.of Medium irrigation, Govt.of A.P;
APTRIPCO, Govt.of AP.

Reviewer of Technical Journals: Institution of Engineers, Journal Spatial Hydrology

Present Areas of research: Water resources planning, design and management

Invited Lectures: Delivered invited lectures at different organizations on the themes of water resources management and development and personality development.

Research Projects Funded by Govt. of India: 03 worth more than Rs.31 Lakhs in the field of water resources funded by MHRD, AICTE and UGC.

Posts held: Started carrier in Oct 1985 at Machilipatnam and at present Professor and Head, Department of Civil Engineering, JNT University, Hyderabad.

- ▶ Downloads

- ▶ Water Resources Engineering-2 - Module-1 : Reservoirs- introduction
- ▶ Water Resources Engineering 2 Module-3 Mass curve analysis
- ▶ Water resources engineering 2 Module-4 reservoir sedimentation and life of reservoir
- ▶ Water Resources Engineering 2 Module-5 Types of dams
- ▶ Water Resources Engineering 2 Module-6 Dam selection
- ▶ Water Resources Engineering 2 Module-7 forces acting on Gravity Dams
- ▶ Water resources engineering 2 Module-8 stability analysis of Gravity dams
- ▶ Water resources engineering 2 Module-9 Elementary profile of Gravity dams
- ▶ Water Resources Engineering-2 Module- 10 drainage galleries and joints in Gravity Dams
- ▶ water resources Engineering-2. Module- 11 Zonal method of design of gravity dams
- ▶ water resources Engineering-2 Module- 12 Problems on stability of gravity dams
- ▶ Water Resources Engineering-2 Module- 13 Earth dams types - causes of failures
- ▶ water Resources Engineering-2 Module-14 earth dams seepage analysis
- ▶ Water Resources Engineering -2. Module-15 Earth dams - seepage control measures
- ▶ water Resources Engineering -2 Module-16 Spillways types ogee spillway
- ▶ water Resources Engineering -2 Module-17 Spillways types chute spillway, shaft, syphon
- ▶ water Resources Engineering 2 Module-19 Spillways Stilling basins gates
- ▶ water Resources Engineering 2 Module- 20 Diversion head works components and functions
- ▶ Water Resources Engineering-2 Module- 21 Causes of failures of weirs and slit control devices
- ▶ Water Resources Engineering 2... Module- 22 Bligh's creep theory
- ▶ Water Resources Engineering -2 Module-23 Khosla's theory
- ▶ Water Resources Engineering-2 Module24 Diversion headworks Problem on application of Khosla's theory
- ▶ Water Resources Engineering-. Module-25 Diversion headworks Design principles of vertical drop weir
- ▶ water resources engineering-2 Module- 28 Design principles of Sarda fall irrigation structures
- ▶ water resources engineering-2 Module 31 cross drainage works

Contact :

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