



## **RESUME**

**Name** : **PROF. M. GOPAL NAIK**

**Designation** : **Professor**

**Education** : M.E.(O.U), Ph. D. (IIT-Bombay)

**Employment** : Department of Civil Engineering,  
University College of Engineering (A)  
Osmania University, Hyderabad-7, A.P.  
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**Professional Experiences** : 18 years

**Professional Memberships** : FIE, ASCE-IS, ISRS, IWRS, ISG & ISH

**International visits** : California, USA, Venice (Italy), Paris (France),  
Malaysia, Singapore, Beijing (China), Bangkok.

**Short-Term courses and Workshops (attended)** : 20

**Industrial & Consultancy Experience** : 18 years

**Publications** : 30

**Research Projects** : Awarded **DST Major Research Project Rs. 15.15 lakhs**

**Research Guidance** : **P.G.** Programme: **30** ; **Ph.D.:** **6** (In Progress)

**Ph. D Research Work** : Soil Erosion and Sediment yield Modelling of Watershed Using Finite Element Method, Geographical Information System and Remotely Sensed Data.

**Area of Interest** : Remote Sensing, GIS and GPS applications to Civil Engineering, watershed modelling, water resources and environmental engineering, urban and storm water management, and GIS and BIM applications in Construction Engineering and Management studies.

**Languages Known** : English, Hindi and Telugu

**Software** : Programming in C & C++, Origin, Excel

**Professional Software** : ArcGIS and ERDAS Image Processing, (Remote Sensing Software) and Statistical Softwares

**Educational Qualifications:**

- Ph.D. Indian Institute of Technology Bombay, January, 2008
- M.E. University College of Engineering, Osmania University, 2001
- B.E. University College of Engineering, Osmania University, 1995

**Memberships / Participation in Scientific and Professional Societies:**

- FIE (F-117551-5): Fellow Institute of Engineers India
- Affiliate Member AM.ASCE (444107): American Society of Civil Engineering
- Member IWRS (L-5590): Indian Water Resources Society
- Member ISRS (LM-2645): Indian Society of Remote Sensing
- Member ISH (L-563): Indian Society for Hydraulics
- Member ISG (L-678): Indian Society of Geomatics

**Awards / Achievements:**

- ✓ Awarded **DST Research Project with a worth of Rs.15.15 lakhs**
- ✓ Appointed as a Reviewer of reputed International Journal of Hydrology, Elsevier Publications.
- ✓ Appointed as a Reviewer of reputed International Journal of Hydro-Environment, Elsevier Publications.
- ✓ Awarded, International Travel Grant fellowship sponsored by Government of India, from UGC, DST, AICTE etc.
- ✓ Awarded Q.I.P. Scholarship as a Ph.D. Research Scholar at I.I.T Bombay for the period of three years during (2004-07).

**Participation in Corporate Life:****(a). Service to the Institution and University:**

- **Chairman, Board of Studies (BOS)**, Department of Civil Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad from November 2013 to till date.
- **Nodal Officer (Academic), TEQIP-II**: Appointed by Principal, University College of Engineering, Osmania University, Hyderabad, from 2012 to till date.
- **Co-Convener (PGECET-2011)**: Appointed by Chairmen PGECET and Vice-Chancellor, Osmania University, Hyderabad, Government of Andhra Pradesh, A.P.
- **Coordinator, Conduct of APCPDCL-2012 Jr. Asst. Recruitment Examination**: Appointed by Principal, University College of Engineering, Osmania University, Hyderabad.
- **Member (EAMCET-2011 Confidential Team)**: Appointed by Convener EAMCET-2011, JNT University, Hyderabad.
- **Departmental Committee Member (DCM)**: Department of Civil Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad from 2011 to till today.
- **Co-Convener (PGECET-2010)**: Appointed by Chairmen, Andhra Pradesh State Council for Higher Education (APSCHE), Government of Andhra Pradesh, Hyderabad, A.P.

- **Departmental Committee Member (DCM):** Department of Civil Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad from 2008 to 2010.
- **Special Officer (Infrastructure):** University College of Engineering (A), Osmania University, from 2008- 2012.
- **Coordinator, M.E. (CEM):** Construction and Management Engineering, Department of Civil Engineering, University College of Engineering, Osmania University, from 2008- till date.
- **B.O.S. Member (Autonomous):** Department of Civil Engineering, University College of Engineering (A), Osmania University from 2008-2010.
- **Convener Scrap Committee:** University College of Engineering (A), Osmania University, Hyderabad, from 2009-2012.
- **Member Purchase Committee:** University College of Engineering (A), Osmania University, Hyderabad, from 2009-2012.
- **In-charge Computer Laboratory:** Department of Civil Engineering, University College of Engineering (A), Osmania University, Hyderabad from 2007 to 2012.
- **Warden Ganga Hostel:** Osmania University from November 1998 to July 2004
- **In-charge Hydraulics Laboratory:** Department of Civil Engineering, University College of Engineering (A), Osmania University, Hyderabad from Aug. 2002-04.
- **Time-Table Coordinator:** Department of Civil Engineering, University College of Engineering (A), Osmania University, Hyderabad from 2002-04.

### **Expert Lectures Delivered:**

- Invited lecture delivered on “*Effect of Climate Change on Watershed Modeling Using Geospatial Techniques.*” Annual International Conference on “Climate Change and Sustainable Development in a Global Perspective”, Organized by Advanced Centre for American Studies, OUCIP, Osmania University, Hyderabad, from 17<sup>th</sup> -18<sup>th</sup> January, 2012.
- Invited lectures delivered on “*Rainfall-Runoff and Sediment yield Modelling of Watershed using GIS and Remotely Sensed Data.*” One day National Workshop on “Recent Advances in Climatic Modeling for Water Resources Planning and Management.” Organized by Centre of excellence in Water Resources Management, Department of Civil Engineering, BITS, Pillani-Hyderabad Campus on November 19, 2011.
- Expert Lectures delivered on “*Soil Erosion and Sediment Yield Modelling of Watershed using FEM, GIS and Remotely Sensed Data.*” AICTE sponsored Short-Term Training Programme organized by Centre for Water resources, IST, JNTU Hyderabad on August 9, 2011.
- Expert Lectures delivered on “*Applications of Remote Sensing and GIS techniques to Water resources Engineering.*” AICTE sponsored Short-Term Training Programme organized by Centre for Water resources, IST, JNTU Hyderabad on August 2, 2011.
- Expert Lectures delivered on “*Watershed modelling Using Remote Sensing and GIS techniques.*” TEQIP sponsored One-Day National Seminar on “Water and

- Nature-Issues and Challenges*” (in view of World Water Day), organized by Department of Civil Engineering, Osmania University and IST, JNTUH, Hyderabad, on March 22, 2009 at UCE, Osmania University, Hyderabad.
- Expert Lectures delivered on “*Introduction of Geospatial techniques to Civil Engineering Applications.*” TEQIP sponsored Two-Day Workshop on “*Geomatic Applications for Water Resources Management (GeoWarm-2009)*”, organized by Department of Civil Engineering, Osmania University and IST, JNTUH, Hyderabad, from March 16-17, 2009 at IST, JNTU, Hyderabad.

#### **Conferences, Seminars, Symposia and Workshops etc. Organized:**

1. **Organizing Secretary:** One-Day National seminar on World Water Day: “*Water and Food Security-Issues and Challenges*” organized by Department of Civil Engineering, Osmania University, Hyderabad to be held on 22<sup>nd</sup> March, 2012.
2. **Organizing Secretary & Coordinator:** A One-Day National seminar on World Water Day: “*Water and Nature-Needs & Challenges,*” organized by Department of Civil Engineering, Osmania University and IST, JNTU Hyderabad on 22<sup>nd</sup> March, 2009.
3. **Coordinator:** A Two-Day Workshop on “*Geomatic Applications for Water Resources Management (GeoWarm-2009)*”, organized by Department of Civil Engineering, Osmania University and IST, JNTUH, Hyderabad, from 16<sup>th</sup> and 17<sup>th</sup> March, 2009.

#### **Conferences, Seminars, Symposia and Workshops etc. Organized and Attended:**

1. Attended the two weeks workshop on “Management Development Programme on “*Academic Leadership Program for TEQIP Institutions*” Organized by Indian Institute of Management Kozhikode (IIMK), Kerala from July 30 to August 9, 2013.
2. Attended Three days workshop on “*Good Governance Practices*” organized by NPIU-TEQIP, at New Delhi from January 16-18, 2013.
3. Attended two workshop on “*Rainwater Harvesting Structures: Does Excreta Matters*” Organized by Centre for Science and Environment, New Delhi
4. Attended the two days workshop on “*Workshop on Establishment of Centers of Excellence.*” Organized by Andhra University College of Engineering, Visakhapatnam during November 29-30, 2012.
5. Attended the one day workshop on “*MATLAB & Simulink for Engineering Education.*” Organized by MathWorks India, at Park Hotels, Hyderabad on August 31, 2012.
6. Workshop on “*Recent Advances in Climatic Modeling for Water Resources Planning and Management.*” Organized by Centre of excellence in Water

- Resources Management, Department of Civil Engineering, BITS, Pillani-Hyderabad Campus on November 19, 2011.
7. First National Seminar on “*Advances in Flood & Cyclone Forecasting in India.*” Organized by Andhra Pradesh State Disaster Mitigation Society, Planning Department, A.P. Secretariat, Hyderabad, on November 10-11, 2011.
  8. “*Water Resources Development with Special Reference to Lift irrigation.*” Organized by The Institute of Engineers (India), Hyderabad, from July 15-16, 2008.
  9. “*ISH Symposium on Cities and Floods*” organized by Department of Civil Engineering, Indian Institute of Technology Bombay and Indian Society of Hydraulic (ISH) on November 17-18, 2006, Mumbai.
  10. “*Jal Sangrah Shibir*” organized by Indian Institute of Technology Bombay, Mumbai, December 6-7, 2003.
  11. “*National workshop on Research Methodologies and Report writing*”, organized by Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad, June 27 and 28, 2003.
  12. “*National Conference on Sports Management*” organized by Department of Physical education and University College of Engineering, Osmania University, Hyderabad, March 26-29, 2003.
  13. “*National Conference on University-Industry- R & D Organisations-scientific Bodies Interaction and Cooperation of Policy Perspectives*”, organized by National Institute of Research & Social Action(NIRSA), Centre for Policy Research (CPR) and University College of Engineering (Autonomous), Osmania University, Hyderabad, August 11-12, 2001.

## Research Contributions:

1. **M. Gopal Naik**, and M. Kumar. (2013). "Project Cost and Duration Optimization Using Soft Computing Techniques." *International Journal of Advanced Management Sciences, (JOAMS)*, Vol. 1 (3), Pp. 284-288.
2. **Gopal M. Naik**, Aditya M., Suman B. Naik. (2011). "GIS based 4D Model Development for Planning and Scheduling of a Construction Project." *International Journal of Innovation, Management and Technology, (IJIMT)*, Vol. 2 (6), Pp. 447-451.
3. **M. Gopal Naik**, and N. Sri Hari Rao. (2011). "Resource Optimization Using Artificial Neural Networks." *International journal of Civil Engineering Research, (IJCER)*, Vol. 2 (1), Pp. 63-78.
4. **M. Gopal Naik**, E.P.Rao and T.I.Eldho. (2009). "FEM and GIS based distributed model for soil erosion and sediment yield in a watershed." *Journal of Water Resources Management*, Vol.23 (3), Pp.553-579.
5. **M. Gopal Naik**, E.P.Rao and T.I.Eldho. (2009). "A kinematic wave based watershed model for soil erosion and sediment yield." *Catena*, Vol.77, Pp.256-265.
6. **Dr. M. Gopal Naik** and Vindhya Katarla (2014). "Performance Evaluation of Construction Project Using Multi Criteria Decision Making Methods." *Proc. of International Conference on Advances in Civil, Structural and Mechanical Engineering (ACSME-2014)*. organized by Institute of Research and Engineers and Doctors (IREDD) held at **Bangkok, Thailand** during January 4-5, 2014.
7. **Dr. M. Gopal Naik** and Dr. M. Kumar (2013). "Project Cost and Duration Optimization Using Soft Computing Techniques." *Proc. of 4<sup>th</sup> International Conference on Construction and Project Management (ICCPM-2013)* organized by International Economics Development Research Center (IEDRC) to be held at **Beijing, China** during September 1-3, 2013.
8. **Dr. M. Gopal Naik**, G. Rameshwar Rao and M. Sukanya (2013). "Development of Continuous Water Supply Network System Using District Metered Area Concept and Geographical Information System." *Proc. of International Conference & Exhibition on Water Wastewater and Isotope Hydrology (ICE-WWISH2013)*, organized by Bangalore University, **Bangalore** from July 25-27, 2013, Vol.2, Pp.70-79.
9. **Dr. M. Gopal Naik**, and Rokhsareh Badamahgan. (2013). "Development of Building Information model for Resource Optimization in Construction Project." *Proc. Fifth International Conference on Construction Engineering and Project Management (ICCEPM-2013)*, organized by The University of North Carolina at Charlotte from January 9-11, 2013, Los Angeles, **California, USA**.
10. **Dr. M. Gopal Naik** (2013). "GIS Based Sewer Network Analysis for Part of Greater Hyderabad City." *Proc. of National Conference on Sustainable Water Resources Planning, Management and Impact of Climate Change (NCSWRM-2013)*, Organized by **BITS-Pilani**, Hyderabad from April 5-6, 2013.

11. **Dr. M.Gopal Naik.** (2011). "Development of Property valuation Model Using Geospatial Techniques." *Proc. 12<sup>th</sup> ESRI India User Conference 2011* organized by NIIT GIS, Noida, **New Delhi**, from December 7-8, 2011.
12. **Dr. Gopal M. Naik,** Aditya M., and Suman B. Naik. (2011). "Integrated 4D Model Development for Planning and Scheduling of a Construction Project Using Geographical Information System." *Proc. 2<sup>nd</sup> International Conference on Construction and Project Management (ICCPM-2011)*, IPEDR, held at **Singapore** from September 16-18, 2011, Vol.15, Pp. 281-285.
13. **Dr. M.Gopal Naik.** (2011). "Soil Erosion and Sediment yield Modelling of Watershed Using FEM, Remote Sensing and GIS." 2011 World Environmental & Water Resources Congress: "Bearing Knowledge for Sustainability." Organized by *American Society of Civil Engineering (ASCE & EWRI)*, held at Palm Springs, California, **USA**, from May 22-26, 2011.
14. **Dr. Gopal M. Naik** and G. Srinivas. (2011). "Assessment of Irrigation Infrastructure and Potential Creation Using Geospatial Techniques." *Proc. National Conference on Sustainable Development of Water Resources and Environmental management 2011* organized by Sri Balaji College of Engineering & Technology, **Jaipur**, from February 24-25, 2011.
15. **Dr. M.Gopal Naik.** (2010). "GIS Based Modelling of Watershed for Rainfall-Runoff and Soil-Erosion using Remotely Sensed Data." *Proc. of 4<sup>th</sup> International Perspective on Water Resources and the Environment (IPWE-2011)* organized by National University of Singapore, **Singapore** from March 4-6, 2011.
16. **Dr. M.Gopal Naik.** (2010). "Diffusion Wave based Modeling of Watershed for Soil Erosion and Sediment Yield Using FEM, GIS and Remotely Sensed Data." EWRI Watershed Management 2010 International Conference: "Innovations in Watershed Management Under Land Use and Climate Change." Organized by American Society of Civil Engineering (ASCE & EWRI), held at Madison, Wisconsin, **USA**, from August 23-27, 2010.
17. **Dr. M.Gopal Naik.** (2010). "FEM and GIS Based Simulation Modelling of Watershed for Soil-Erosion and Sediment Yield." National Conference on Sustainable Water Resources Management and Impact of Climate Change, organized by BITS-Pilani **Hyderabad**, from March 5-6, 2010, Pp.280-291.
18. **Dr. M.Gopal Naik.** (2010). "Integrated Watershed Modelling for Soil-Erosion and Sediment Yield Using FEM, GIS and Remotely Sensed data." *Proc. 3<sup>rd</sup> International Conference on Hydrology and Watershed Management (ICHWM)* organized by Jawaharlal Nehru Technological University **Hyderabad**, from February 3-6, 2010, Pp.1047-1052.
19. **Dr. M.Gopal Naik.** (2009). "Watershed Modelling for Soil-Erosion and Sediment Yield Using GIS and Remotely Sensed data." *Proc. International Conference on Advances in Mechanical and Building Sciences in the 3<sup>rd</sup> Millennium (ICAMB)* organized by Vellore Institute of Technology held at Vellore, **Tamil Nadu**, from December 14-16, 2009.
20. **M.Gopal Naik.** (2007). "GIS based rainfall-runoff modelling for agricultural watershed." *Proc. The 28<sup>th</sup> Asian International Conference on Remote Sensing*

- (ACRS-2007), organized by Malaysian Centre for Remote Sensing (MACRES), held at **Kuala Lumpur, Malaysia**, from November 12-16, 2007, pp109.
21. **M. Gopal Naik**, E.P.Rao and T.I.Eldho (2007). "Watershed Modelling for Soil Erosion and Sediment yield Processes." *Proc. "International Workshop on Complex Systems in Fluid Flows and Sedimentation Processes (IWCSFFSP-07)"*, organized by Indian Statistical Institute, **Kolkata**, from August 27-30, 2007.
  22. **M.Gopal Naik**, E.P.Rao and T.I.Eldho. (2007). "Soil Erosion and Sediment yield Modelling of Watershed Using FEM, Remote Sensing and GIS." Proc. 32<sup>nd</sup> Congress of IAHR on "*Harmonizing the Demands of Art and Nature in Hydraulics*" organised by the International Association of Hydraulic Engineering & Research (IAHR) and COPRI-ASCE Coastal Structures 2007 held at **Venice, Italy**, from July 1-5, 2007, Vol.1, 417(pp. 435).
  23. **M.Gopal Naik**, E.P.Rao and T.I.Eldho. (2007). "Simulation of Soil Erosion and Sediment yield Using Remotely Sensed data and GIS Techniques." Proc. 6<sup>th</sup> R & D International conference on "*Sustainable Development of Water and Energy Resources - Needs and Challenges*," organized by CBIP from 13-16 February, 2007, **Lucknow**, U.P., India, Vol. I, 557-567.
  24. **M.Gopal Naik**, E.P.Rao, T.I. Eldho and K. Venkata Reddy. (2006). "Modelling of Soil Erosion and Sediment yield Using Finite Element Method and Geographical Information Systems." Proc. 2<sup>nd</sup> International conference on "*Hydrology and Watershed management (ICHWAM)*", December 5-8, 2006, organized by Centre for Water Resources, JNTU Institute of Science and Technology, **Hyderabad**, India, Vol. I, 584-591.
  25. **Gopal Naik, M.**, Rao, E.P., Eldho, T.I. and Venkata Reddy, K. (2006). "FEM and GIS based modelling of watershed for soil erosion and sediment yield." Proc. "*15<sup>th</sup> Congress of Asia and Pacific Division of International Association of Hydraulic Engineering and Research (APD-IAHR)*", August 7-10, 2006, organized by Indian Institute of Technology Madras, **Chennai**, India, Vol. 1, 676-691.
  26. **M.Gopal Naik** and G.K.Sudha. (2006). "GIS and Remote Sensing techniques to groundwater fluctuations." Proc. of National Conference on "*Civil Engineering Systems*", organized by Department of Civil Engineering, University College of Engineering, Osmania University, **Hyderabad**, India, June 1-3, 2006.
  27. G.K.Sudha, **M.Gopal Naik** and S.Madhav Rao. (2003). "A study on groundwater monitoring using GIS and Remote Sensing", Proc., *Sixth Annual User Conference*, organized by ESRI India, **New Delhi**, April 23-24, 2003.