



## **CURRICULAM VITAE**

**Name** : **Prof. M. GOPAL NAIK**

**Designation** : **Professor of Civil Engineering**

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

**Employment** : Department of Civil Engineering,  
University College of Engineering (Autonomous)  
Osmania University, Hyderabad-500007, India.  
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Website: <http://www.uceou.edu/civil/faculty/Naik.pdf>

**Date of Birth** : 08.05.1972

**Professional, Industrial & Consultancy Experience** : 20 years

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

**International visits** : Los Angeles (USA), London (UK), Venice (Italy), Kuala Lumpur (Malaysia), Singapore, Beijing (China), Bangkok (Thailand)

**Short-Term courses and Workshops** : 20

**Consultancy Experience** : GHMC, QQSUDA, HMWSSB, PMGSY, PR& RWS (I&CAD)

**Publications** : 65

**Awards/Achievements** : **Distinguished Faculty in Civil Engineering** awarded by Centre for Advanced Research and Design, Venus International Foundation, Chennai.

**Research Projects** : Awarded *DST Major Research Project Rs.15.15* Lakhs.  
**UGC Minor Research Project Rs. 5.0** Lakhs

**Research Guidance** : **M.E./M.Tech. : 50 ; Ph.D.: 07 (3 Awarded; 6 In Progress)**

**Research Area Work** : Water and Environmental Engineering, Urban Watershed Modelling, Geospatial Techniques (Remote Sensing, GIS & GPS) to Civil Engineering, Finite Element Method, Construction Planning and Scheduling, Project Cost and duration optimization, Soft Computing Techniques and Building Information Modeling,

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

**Professional Software** : AutoCAD, Primavira, ArcGIS and ERDAS Image Processing, InfoSWMM, EPANet, WaterGems, and MATLAB Softwares

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

### **Educational Qualifications:**

<b>Exam Passed</b>	<b>University/Institute</b>	<b>Year of Passing</b>	<b>Subject</b>	<b>Division</b>
B.E.	Osmania University	1995	Civil Engineering	First Division
M.E.	Osmania University	2001	Water Resources Engineering	First Division
Ph.D.	Indian Institute of Technology Bombay (IIT Bombay)	2009	Soil Erosion and Sediment Yield Modelling of Watershed Using Finite Element Method, Geographical Information System and Remotely Sensed Data	

### **Employment Details:**

<b>Position</b>	<b>Organization</b>	<b>Duration</b>	<b>Responsibilities</b>
Professor	University College of Engg., Osmania University	2012 onwards	Teaching, Administrative assignments, Research and Consultancy works, Nodal Officer, Centenary Celebrations, Nodal Officer RUSA, Nodal Officer (TEQIP-II&III), UCEOU, Director-Infrastructure, Osmania University, Hyderabad
Sr. Associate Professor	University College of Engg., Osmania University	2009-2012	Teaching, Administrative assignments, Research and Consultancy works, Special Officer(Infrastructure)OUCE.
Associate Professor	University College of Engg., Osmania University	2006-2009	Teaching, Administrative assignments, Research and Consultancy works, Special Officer(Infrastructure)OUCE
Sr. Assistant Professor	University College of Engg., Osmania University	2001-2006	Teaching, Research, Consultancy & Administrative works
Assistant Professor	University College of Engg., Osmania University	1998-2001	Teaching, Research and Administrative works
Associate Lecturer	G.M.R.Polytechnic,Srisailam, Kurnool, A.P.	1996-1998	Teaching and Examination works

### **Research Guidance for Ph.D. Scholars:**

<b>S.No</b>	<b>Name of the Scholars</b>	<b>Title of the Thesis</b>	<b>Year of completion</b>
1	B.Madhusudana Rao	Environmental Sustainability and Solid Waste Management	2015 Awarded
2	G. Rameshwar Rao	Evaluation of Distributed Water Supply Network System and District Metered Area Using Genetic Algorithms and Hydraulic Modelling	2018 Awarded
3	Qamar Sultana	Reservoir Optimization and Trap efficiency estimation using Geospatial Techniques: A case study of Sriramsagar	2018 Awarded
4	G. Srinivas	Urban watershed modelling using geospatial techniques and high resolution remotely sensed data	2010 In Progress
5	E. Mahesh Reddy	Estimation of Reference crop Evapotranspiration of Godavari River Basin Catchment	2012 (In Progress)
6	M. Aditya	BIM based Construction Modelling for Sustainable Development	2016 In Progress
7	G. Srikanth	Delay Analysis of Construction project using Soft computing techniques	2016 In Progress

### **Improvement of Professional Competence: Short-Term Courses attended**

S.No.	Course – Title	Institute/ Organization	Sponsored Agency	Duration
1	Academic Leadership Program for TEQIP Institutions	IIM Kozhikode	TEQIP-II	30.07.2013 to 09.08.2013
2	MATLAB & Simulink for Engineering Education	MathWorks India. PARK Hotels,Hyderabad	MathWorks IndiaPvt. Ltd	31-08-2012
3	Faculty Development Programme on Geospatial Technologies	TATA Consultancy Services, Hyderabad	TATA Consultancy Services, Hyd	26-03-2012 to 27-03-2012
4	Global Positioning System & Its Applications in Atmospheric and Ionospheric Studies	Civil Engg. Dept., IIT Bombay	DST Short –Term Course	27-02-07 to 04-03-07
5	Advanced Techniques in Water Resources Management	Civil Engg. Dept., IIT Bombay	QIP Short –Term Course	13-11-06 to 17-11-06
6	Soft Computing Techniques	Civil Engg. Dept., IIT Bombay	QIP Short –Term Course	02-01-06 to 07-01-06
7	Methodology for Assessment of Reservoir Sedimentation	CWPRS Khadakwasla, Pune	Ministry of WaterResources, Govt. of India.	04-07-05 to 07-07-05
8	Integrated Water Resources Management using Numerical, Remote Sensing &GIS	Dept. Civil Engg., IIT Bombay	QIP Short –Term Course	22-01-04 to 26-11-04
9	Application of RS and GIS Tech. in Water Resources Development and Mangt.	NWA Khadakwasla Pune	ISRO & MHRD Bangalore	06-01-04 to 16-01-04
10	Digital Image Processing for Remote sensing	CSRE IIT Bombay	QIP Short -Term Course	08-12-03 to 12-12-03
11	Finite Element and Boundary Element methods with application in Civil Engg.	Civil Dept., IIT Bombay	QIP Short-term course	01-12-03 to 05-12-03
12	Spatial Information Technology	ASC, JNTU Hyderabad	UGC Refresher Course	02-05-02 to 22-05-02
13	Spatial Information Technology and water resources Management	ASC, JNTU Hyderabad	UGC Orientation Course	12-12-01 to 10-01-02
14	Training Programme for Young Faculty of Engineering Colleges	UCE (A), O.U. Hyderabad	SDP Programme	26-12-2000 to 13-01-2001
15	Short-term course on C++ Programming	Dept. of ECE, OUCE, OU.	IMPACT Project	07-06-99 to 07-07-99
16	Orientation course for degree College teachers	ASC O.U. HYD.	UGC Sponsored	30-11-98 to 22-12-98

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

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

## **Awards / Achievements:**

- ✓ Awarded: **Distinguished Faculty in Civil Engineering** awarded by Centre for Advanced Research and Design, Venus International Foundation, Chennai.
- ✓ Awarded **UGC Minor Research Project (Rs.5.0 lakhs): Surface Flow Measurement Using Large Scale Particle Image Velocimetry**. The duration of the project is two years from 2013-2015.
- ✓ Awarded **DST Major Project (Rs.15.15 lakhs): Urban Watershed Modelling Using Geospatial Technique**. The duration of the project is three years from 2012-2015.
- ✓ Appointed as one of the **Reviewer of reputed International Journals of Elsevier Publications. (J. Hydrology (JHYDROL), J. Hydro-Environment Research (JHER))**
- ✓ **Editorial Board Member:** International Conferences organized by Institute of Research Engineers and Doctors (IRED), USA at Malaysia-2014 and Turkey-2015.
- ✓ **Editorial Board Member:** International Journal of New Technologies in Science and Engineering (IJNTSE).
- ✓ Awarded, International Travel Grant fellowship sponsored by Government of India, University Grants Commission, UGC, New Delhi, in year 2010.
- ✓ Awarded, International Travel Grant fellowship sponsored by Government of India, Ministry of Science & Technology, DST, New Delhi, in year 2010.
- ✓ Awarded Ph. D. from Indian Institute of Technology Bombay, 2009.
- ✓ 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).
- ✓ Selected for International Travel grant sponsored by Indian Institute of Technology, Bombay in the 2007.

## **Selected Government Services:**

*Associate Lecturer (Govt. Poly Technical Colleges, A.P.)*

- Selected written and oral test conducted by Andhra Pradesh College Service Commission (APCSC), A.P., India

*Assistant Executive Engineer (1996)*

- Selected written and oral test conducted by APPSC, A.P., India

*Assistant Engineer(1996)*

- Selected written and oral test conducted by APSEB, A.P., India

*Trainee Engineer(1996)*

- Selected written test conducted by National Mineral Development Corporation (NMDC), India

## Participation in Corporate Life:

### (a). *Service to the Institution and University:*

- **Nodal Officer RUSA (Rashtriya Uchatat Shiksha Abhiyan):** Appointed by Registrar on approval of Vice Chancellor, Osmania University, Hyderabad for the period from January, 2018 to till date
- **Nodal Officer (Academic), TEQIP - III:** Appointed by Principal, University College of Engineering, Osmania University, Hyderabad, from 2018 to till date
- **Nodal Officer Centenary Celebrations, Osmania University:** Appointed by Registrar on approval of Vice Chancellor, Osmania University, Hyderabad for the centenary year from 26<sup>th</sup> April, 2017 to 25<sup>th</sup> April 2018.
- **Chairman, Board of Studies (BOS):** Appointed by Registrar on approval of Vice Chancellor, Osmania University for Department of Civil Engineering, Osmania University, Hyderabad from September 2015 to October, 2017
- **Director (Infrastructure), Osmania University:** Appointed by Vice Chancellor, Osmania University, Hyderabad from March 2015 to till date
- **Regional Coordinator TSLPRBT-FWE--2016 (Police) [Hyderabad Zone]:** Appointed by Coordinator conducted by Jawaharlal Nehru Technological University, Hyderabad, and Telangana State Level Police Recruitment Board Test, Government of Telangana conducted on 23, October, 2016.
- **Regional Coordinator EAMCET-III 2016 [Hyderabad Zone-C]:** Appointed by Convener with approval of Vice-Chancellor & conducted by Jawaharlal Nehru Technological University, Hyderabad, and Telangana State Council of Higher Education, Government of Telangana conducted on 9<sup>th</sup> July, 2016.
- **Regional Coordinator EAMCET-II 2016 [Hyderabad Zone-C]:** Appointed by Convener with approval of Vice-Chancellor & conducted by Jawaharlal Nehru Technological University, Hyderabad, and Telangana State Council of Higher Education, Government of Telangana conducted on 9<sup>th</sup> July, 2016.
- **Regional Coordinator EAMCET-I 2016 [Hyderabad Zone-V]:** Appointed by Convener with approval of Vice-Chancellor & conducted by Jawaharlal Nehru Technological University, Hyderabad, and Telangana State Council of Higher Education, Government of Telangana conducted on 15<sup>th</sup> May, 2016.
- **Regional Coordinator TSLPRBT-2016 (SI) [Hyderabad Zone-III]:** Appointed by Coordinator conducted by Jawaharlal Nehru Technological University, Hyderabad, and Telangana State Level Police Recruitment Board Test, Government of Telangana conducted on 17<sup>th</sup> April, 2016.
- **Regional Coordinator TSLPRBT-2016 (Police) [Hyderabad Zone-III]:** Appointed by Coordinator conducted by Jawaharlal Nehru Technological University, Hyderabad, and Telangana State Level Police Recruitment Board Test, Government of Telangana, conducted on 24<sup>th</sup> April, 2016.
- **Regional Coordinator EAMCET-2015 & ECET [FDH & B.Sc. (Maths) -2015 [Hyderabad Zone-V]:** Conducting by Jawaharlal Nehru Technological University, Hyderabad, Government of Telangana and Telangana State Council of Higher Education.
- **Regional Coordinator ICET -2015:** Conducting ICET-2015 entrance examination, Hyderabad Zone organized by Kakatiya University.
- **Expert Member:** (Selection Committee Coal India Limited) for recruitment of Trainee Engineers conducted during July 19-21, 2014.

- **State Quality Monitor (SQM):** Appointed by State Quality Coordinator Telangana State Rural Roads Development Agency(TSRRDA), under the scheme of Pradhan Mantri Gram Sadak Yojana (PMGSY), Ministry of Rural Development, Government of India, in the year 2014.
- **Member, Fact Finding Committee (FFC-JNTUH):** Appointed by Vice-Chancellor, Jawaharlal Nehru Technological University (JNTU) Hyderabad for Inspection of Telangana State Engineering Colleges in the year 2014.
- **Joint Director (Directorate of Academic Audit Cell, Osmania University):** Appointed by Vice-Chancellor, Osmania University, Hyderabad from July, 2014 to till date.
- **Expert Member:** (Selection Committee Coal India Limited) for recruitment of Trainee Engineers conducted during July 19-21, 2014.
- **Dy. Centre In charge CSAB\_2014 Admission:** CSAB-2014 NIT Admission Reporting Centre, University College of Engineering, Osmania University, Hyderabad from July 14-28, 2014.
- **Regional Coordinator ECET [FDH & B.Sc. (Maths) -2014 :** Conducting ECET [FDH & B.Sc. (Maths) -2014 entrance examination, Hyderabad Zone-II organized by JNTU Kakinada, A.P.
- **Student Advisor, NIRMAAN-2014,** National Level Technical Symposium, organized by Department of Civil Engineering, University College of Engineering, Osmania University, Hyderabad from March 14-16,2014.
- **Chairman, Board of Studies (BOS),** Department of Civil Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad from 2013 to 2015.
- **Nodal Officer (Academic), TEQIP - II:** Appointed by Principal, University College of Engineering, Osmania University, Hyderabad, from 2012 to 2017.
- **Coordinator:** Conduct of APCPDCL-2012 Jr. Asst. Recruitment Examination: Appointed by Principal, University College of Engineering, Osmania University, Hyderabad.
- **Co-Convener (PGE CET-2011):** Appointed by Chairmen PGE CET and Vice-Chancellor, Osmania University, Hyderabad, Government of Andhra Pradesh, A.P.
- **Member (EAMCET-2011 Confidential Team):** Appointed by Convener EAMCET-2011, JNT University, Hyderabad.
- **Departmental Committee Member (DCM):** Re-appointed as Departmental Committee Member, Department of Civil Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad from 2011 to till today.
- **Co-Convener (PGE CET-2010):** Appointed by Chairmen, Andhra Pradesh State Council for Higher Education (APSCHE), Government of Andhra Pradesh, Hyderabad, A.P.
- **Departmental Committee Member (DCM):** Appointed as Departmental Committee Member, 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 to 2012.
- **Coordinator, M.E. (CEM):** Construction and Management Engineering, Department of Civil Engineering, University College of Engineering, Osmania University, from 2008-2015.
- **B.O.S. Member (Autonomous):** Department of Civil Engineering, University College of Engineering (A), Osmania University from 2008 to 2010.

- **Convener Scrap Committee:** University College of Engineering (A), Osmania University, Hyderabad, from 2009 to 2012.
- **Member Purchase Committee:** University College of Engineering (A), Osmania University, Hyderabad, from 2009 to 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 2002 to 2004.
- **Time-Table Coordinator:** Department of Civil Engineering, University College of Engineering (A), Osmania University, Hyderabad from 2002 to 2004.
- **Coordinator IES Special Coaching for SC/ST students:** Civil Engineering Department, conducted by A.P. study circle, Govt. of A.P., Academic year 2003.
- **Assistant Regional Coordinator ECET [FDH & B.Sc. (Maths) -2003:** for conducting ECET [FDH & B.Sc. (Maths) -2003, entrance examination, Hyderabad zone-II.
- **Appointed Observer/Special Observer (ECET and EAMCET):** Appointed by respective Conveners every year wise examinations, A.P.
- **Involved confidential works of APPSC:** Appointed as Examiner for paper setter and valuation for competitive examinations, Govt. of Andhra Pradesh.
- **Involved confidential works of APSEB:** for conducting competitive examinations and valuation conducted by Andhra Pradesh State Electricity Board, Govt. of Andhra Pradesh.
- **In charge:** Attendance and Marks compilation for U.G. students, Department of Civil Engineering, University College of Engineering (A), Osmania University, Hyderabad, (1999 to 2003).
- **Involved:** Paper settings and valuations in U.G. and P.G. examinations in Osmania University and other Universities (Andhra University, Jawaharlal Nehru Technological Universities, REC Warangal, Kakatiya University, Sri Venkateswara University and JNT University Hyderabad, JNT University Ananthapur, JNT University Kakinada).

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

1. **Organizing Secretary:** One-Day National seminar on World Water Day: “*Wastewater*” organized by Department of Civil Engineering, Osmania University, Hyderabad held on 22<sup>nd</sup> March, 2017.
2. **Faculty Coordinator and Student Advisor:** *NIRMAAN-2014 “13<sup>th</sup> National Level Technical Symposium.”* Organized by Department of Civil Engineering, Osmania University, Hyderabad from March 14-16, 2014.
3. **Organizing Secretary:** One-Day National seminar on World Water Day: “*The Nexus of Water and Energy*” organized by Department of Civil Engineering, Osmania University, Hyderabad held on 22<sup>nd</sup> March, 2014.
4. **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 held on 22<sup>nd</sup> March, 2012.
5. **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.
6. **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.
7. Attended and Member of Organizing Committee: 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.
8. Attended: 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.
9. Attended: “*Hyderabad City Dialogue on Air Quality and Transportation Challenges: An Agenda for Action.*” Organized by Centre for Science (CSE) and Environment and Andhra Pradesh Pollution Control Board (APPCB), Hyderabad on 7<sup>th</sup> October, 2010.
10. Attended And Member of Organizing Committee: “*53<sup>rd</sup> Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM-2008)*: Organized by University College of Engineering (Autonomous), Osmania University, Hyderabad, from 27<sup>th</sup> -30<sup>th</sup> Dec.,2008.
11. Attended: “*Water Resources Development with Special Reference to Lift irrigation.*” Organized by The Institute of Engineers (India),Hyderabad, from July 15-16, 2008.
12. Attended: “*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.
13. Attended: “*Jal Sangrah Shibir*” organized by Indian Institute of Technology Bombay, Mumbai, December 6-7, 2003.
14. Attended: “*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.
15. Attended and Member of Organizing Committee: “*National Conference on Sports Management*” organized by Department of Physical education and University College of Engineering, Osmania University, Hyderabad, March 26-29, 2003.



## 16. Expert Lectures Delivered:

1. Expert Lecture delivered on "*Urban storm water management and watershed modelling*" during Three day residential training programme on "*Rainwater Harvesting in Urban Areas*" organized by Andhra Pradesh Human Resource Development Institute (APHRDI) on 22<sup>nd</sup> November, 2017.
2. Expert Lecture delivered on "*Geospatial applications for watershed modelling and development*" during (13<sup>th</sup> -25<sup>th</sup> November, 2017) Two week Faculty Development programme (FDP) organized by Centre for Water resources , IST, JNTU Hyderabad on 17<sup>th</sup> November, 2017.
3. Expert Lecture delivered on "*Urban Watershed modelling using Geospatial Techniques*" during Three week workshop organized by UGC-HRDC, JNTU Hyderabad on 26<sup>th</sup> November, 2016.
4. Keynote Lecture delivered in view of World Water Day 2016 on *Water and Jobs* at Institute of Engineers India (IEI) Hyderabad organized by Institute of Engineers Hyderabad Chapter, Khairatabad on 22<sup>nd</sup> March, 2016.
5. Expert Lectures delivered on "*Overview of Geographical Information System and its Applications to Town Planning and Development.*" at Short-Term training programme for Municipal Engineer, organized by ESCI Gachibouli , Hyderabad, on 9<sup>th</sup> February, 2015.
6. Expert Lectures delivered on "*Urban Water Supply Distribution Network System .*" at two day Training programme for Municipal Engineer, organized by Regional Centre for Urban and Environment Studies, Osmania University, Hyderabad, from November 6-7, 2014.
7. Expert Lectures delivered on "*Applications of Geospatial Techniques in Civil engineering.*" At two day workshop on Engineering Research Methodology, organized by Department of Civil Engineering, University College of Engineering (A), Osmania University, Hyderabad, from 12-13 September, 2014.
8. Expert Lectures delivered on "*CAD and Advanced Techniques like GPRS, GIS and Remote Sensing for Polytechnic Teachers.*" at ISTE-Short Term |Training Programme organized by Jawaharlal Government Polytechnic, Ramanthapur, Hyderabad on July 3, 2014.
9. Expert Lectures delivered on "*FEM Base Rainfall-Runoff and Sediment yiled modelling GIS and Remotely Sensed Data.*" at Department of Civil Engineering, BITS-Pilani Hyderabad on February 16, 2014
10. Expert Lectures delivered on "*Urban Watershed Modelling Using Geospatial Techniques.*" AICTE sponsored Short-Term Training Programme organized by Centre for Water Resources Division, IST, JNTU Hyderabad on January 10, 2014.
11. Invited Lecture delivered on "*Effect of Climate Change on Watershed Modelling 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.
12. 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.
13. 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.
  14. 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.
  15. 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.
  16. 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.
  17. Presentation given at QIP short-term course on “*Remote Sensing and GIS Applications to Watershed Modelling of Soil Erosion and Sediment Yield - Case Studies*”, organized by Prof. T.I. Eldho and Prof. V. Jothiprakash, Department of Civil Engineering, Indian Institute of Technology Bombay, on November 13-17, 2006, Mumbai.
  18. Presentation given at short term DST-Sponsored training course, on “*Mathematical Modelling of Soil Erosion and Sediment yield using Remote Sensing and GIS Techniques.*” organized by Prof. Madhav N. Kulkarni, Department of Civil Engineering, Indian Institute of Technology Bombay, during February 27 to March 04, 2007, Mumbai.
  19. Conducted Engineering Mechanics tutorials for First year B. Tech. students at IIT Bombay, academic years 2005-07.

# Research Publications

## *International and National Journals Publications*

1. Srinivas,G., and **Gopal M Naik**. (2017). “Hydrological Modeling of Musi River Basin India and Sensitive Parameterisation of Stream Flow using SWAT CUP model.” *Journal of Hydrogeology and Hydraulic Engineering (JHHE)*, Vol. 6(2),Pp.1-10.
2. Srinivas,G., and **Gopal M Naik**. (2017). “Hydrological Modeling of Musi River Basin and Impact Assessment of Land Use Change on Urban Runoff.” *International Journal of Engineering Research and Technology (IJERT)*,ISSN:2278-0181, July, 2017, Vol. 6(7),Pp.305-312.
3. Qamar Sultana and **M. Gopal Naik**. (2017). “Useful Life of a Reservoir and its Dependency on Watershed Activities.” *Journal of Agricultural Research and and Technology*, ISSN: 2471-6774, Vol.8(5), Pp.01-09. July,2017.
4. Qamar Sultana and **M. Gopal Naik**. (2016). “Forecast of Reservoir Sediment Trap Efficiency using Artificial Neural Networks Techniques.” *International Journal of Research in Engineering and Technology*, eISSN: 2319-1163, Vol.5(2), Pp.1-5. Feb.2016
5. Madhusudhan Rao, and **M. Gopal Naik** and Aadhi Naresh. (2015). “Experimental Study on Characterization and Pollution Potential of Contaminated Chromium Hazardous Waste.” *International Journal of Research in Engineering and Technology*, Vol.4(11), Pp.93-99.
6. Qamar Sultana and **M. Gopal Naik**. (2015). “Estimation of Trap Efficiency of Sriramsagar Reservoir.” *International Journal of Research in Engineering and Technology*, Vol.4(11), Pp.116-122.
7. Mahammed Sami Mahdi and **M. Gopal Naik**. (2014). “Development of Green Building Information Model Using Revit Software and Tally Applications.” *Global Journal of Engineering Research and Technology (GJERT)*, Vol.4 (1), Pp. 57-64.
8. **M. Gopal Naik** and Poojitha, P.B. (2014). “Cash Flow Analysis of Construction Project Using Artificial Neural Network.” *International Journal of Advances in Computer Science and Its Applications (IJCSIA)*, Vol.4 (3), Pp. 118-122.
9. **M. Gopal Naik** and Vindhya Katarla (2014). “Performance Evaluation of Construction Project Using Multi Criteria Decision Making Methods.” *International Journal of Civil & Structural Engineering (IJCSE)*, Vol.1 (2), Pp. 46-50.
10. **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.
11. **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.
12. **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.
13. **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.
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