

CURRICULUM VITAE

Dr. H. RAMESH, M.Tech., PhD.

Associate Professor,
Dept. of Applied Mechanics & Hydraulics,
National Institute of Technology Karnataka
Surathkal, Mangalore-575025, India
Contact No. +91-9880173290
Email: ramesh.hgowda@gmail.com; hramesh@nitk.ac.in ,



EDUCATIONAL QUALIFICATION

A: ACADEMIC

Course studied	Institution	Year of passing
Ph.D. (Water Resources Engineering)	National Institute of Technology Karnataka, Surathkal, India	March 2008
M.Tech (Hydraulics)	The National Institute of Engineering, Mysore, India	Nov. 2002
B.E (Civil Engg)	Sir M.Viswesvaraya Institute of Technology, Bangalore, India	Aug. 1999
Diploma (H.R.D)	Institute of Health Care Administration, Chennai, India	Oct. 1997
PUC (12 th)	Vivekananda Junior College. Bangalore – 55, India	April- 1994
SSLC (10 th)	Sarvodaya High School, Bangalore – 21, India	April- 1992

B: SOFTWARE & Programming Skills

Programming language	Fortran77, C, C++, VC++
GUI	Visual Basic 6
Image processing software	ERDAS Imagine, Idrisi32
GIS software	Arc view GIS, Arc Info, SWAT, GPS

Experience:

- Associate Professor, NITK from 16th May 2018.
- Assistant Professor, NITK from 22nd April 2009.
- Visiting Assistant Professor, Water Engineering and Management, Asian Institute of Technology, Bangkok, Thailand, from January 2013 to April 2013.
- Assistant Professor, Nagarjuna College of Engineering & Technology, Bengaluru from 6th August 2007- 21st April 2009
- Research associate, CISED/ATREE, Bengaluru from 15th Feb. 2007 – 17th July 2007.
- Research scholar, NITK from 16th August 2003 – 14th Feb. 2007
- Engineer, DHV Consultants Pvt Ltd. New Delhi from 10th March 2003 to 31st August 2003.
- Trainee engineer, Enercon (India) Ltd, Daman (UT), from 10th Jan. 2000 to 31st August 2000.

The courses I teach are in line with my research interests - Surface Water hydrology, Groundwater hydrology, Fluid Mechanics & hydraulic machines, Introduction to GIS, Advanced GIS, Introduction to Remote sensing and Photogrammetry, Engineering Mechanics (Statics), Satellite Digital Image analysis.

Research Areas:

- Water resources engineering,
- Hydrological (surface water and groundwater) modeling,
- Application of remote sensing and GIS in urban and regional scale, hydrology, agriculture etc.,

Ph.D. / Research Title: “Development of Conjunctive use of Surface water and Groundwater model for sustainable development of Varada Basin, Karnataka”

Approach: Remote Sensing, GIS and Finite Element Method.

M.Tech project: Obtaining Curve Number for Lokapavani Catchment Using Remote Sensing and GIS.

Approach: Remote Sensing and GIS.

R & D Projects: Completed /Ongoing

1. Study of impact of land use and land cover change on stream flows of Western ghat (Forest), India. Funded by NITK, INR 5.0 Lakhs (0.5 Million), (PI; Completed).
2. DST-FIST project of Rs. 22 Million: Upgradation of remote sensing lab and development of random wave generating facility. (PI, Ongoing).
3. MoW-INCCC: Impact of climate change on water resources in river basins from Tadri to Kanyakumari. Rs. 70 Lakhs (7.0 Million) (Ongoing, Co-PI). With IIT Bombay, CWRDM.
4. NITK: Asset and Utility mapping for NITK. Rs. 5 Lakhs (0.5 Million) (Completed).
5. SERB-DST funded project "Conjunctive use of surface water and groundwater management: Anew framework for strategic decision making". Cost: Rs. 30.20 Lakhs- (3.02 Million) Ongoing.
6. IMPRINT-2, DST-MHRD: Impounding of River flood waters along Dakshina Kannada Coast: A sustainable strategy for water resource development. Rs. 111.00 Lakhs (11.10 Million) (PI, Ongoing).
7. NCESS-MoES funded 'Submarine Groundwater Discharge from Nethravathi river to Sitha river, Karnataka Coast', Cost Rs. 10.16 lakhs (1.016 Million) (PI, Ongoing).
8. DST- SPARC project on 'Coastal reservoirs as a sustainable strategy for Water Security'. Rs. 64 Lakhs, (6.4 Million) (PI, Ongoing), With University of Wollongong, Australia
9. DST-NRDMS funded-21 days training programme on "Geospatial Technologies" held from 11-31 July 2019) (Rs. 1.0 Million)

Paper publication:

Refereed journals

1. Nalluri Ahalya and **H. Ramesh**. "A comparative study of radiometric corrections on multispectral and panchromatic images." *Asian Journal for Convergence in Technology (AJCT)* (2019).
2. Nitya R. Govind and **Ramesh H.**, (2019). The impact of spatio-temporal patterns of land use land cover and land surface temperature on an urban cool island: A case study of Bengaluru". *Journal of Environmental Monitoring and Assessment* (Accepted).
3. C. A. Rishikeshan and **H. Ramesh** (2018). An automated mathematical morphology driven algorithm for water body extraction from remotely sensed images. *ISPRS Journal Photogrammetry and Remote sensing*, Elsevier, (IF: 5.994).
4. Divya, S. Shrihari & **H. Ramesh**, (2018). Comparison of column and batch reactor for remediation of COD of leachate using iron nano particle. Accepted in International Journal of Engineering and Technology (UAE).
5. K. J. Sylus and **H. Ramesh**, (2018). Geo-statistical analysis of groundwater quality in an unconfined aquifer of Nethravathi and Gurpur river confluence, India. *Journal of Modeling Earth Systems and Environment*, <https://doi.org/10.1007/s40808-018-0488-z>
6. C. A. Rishikeshan & **H. Ramesh** (2017): A novel mathematical morphology based algorithm for shoreline extraction from satellite images, *Geo-spatial Information Science* (Taylor & Francis), DOI: 10.1080/10095020.2017.1403089
7. Rishikeshan and **Ramesh H.**, (2017). An ANN supported mathematical morphology based algorithm for lakes extraction from satellite images. *ISH Journal of Hydraulic Engineering* (Taylor & Francis), Accepted,
8. Ashwathi P Anil and **Ramesh H.**, 2017. Analysis of climate trend and effect of land use land cover change on Harangi streamflow, South India-A case study. *J. Sustainable Water Resources Management* (Springer), DOI: 10.1007/s40899-017-0088-5.
9. Rohith John, **Ramesh H.** Colour Based Segmentation of a Landsat Image Using K-Means Clustering Algorithm. *Journal of Image Processing & Pattern Recognition Progress*. 2017; 4(3): 31–38p.

10. Ramesh Adep, Amba Shetty, **Ramesh H**, 2017. EXhype: A tool for mineral classification using hyperspectral data. *ISPR J. of Photogrammetry and Remote Sensing*, 124, 106–118 (IF- 5.994).
11. Ramesh Adep, Vijayan P. Ashwin, Amba Shetty, **Ramesh H**, 2016. Performance evaluation of hyperspectral classification algorithms on AVIRIS mineral data, *Perspectives in Science* (Elsevier), 8, 722-726.
12. Ganasri, B.P., **Ramesh, H.**, 2015. Assessment of soil erosion by RUSLE model using remote sensing and GIS - A case study of Nethravathi Basin, *Geoscience Frontiers*, 7, 953-961; <http://dx.doi.org/10.1016/j.gsf.2015.10.007>; (Elsevier).
13. **Ramesh H.** and Rashma Jain R., 2015. Satellite data and geospatial technique based mapping of groundwater potential zones in Nethravathi basin: South India. *Journal of Geo Observateur, CRTS, N°22*, 49-59.
14. Konstantin J. Sylus and **H. Ramesh**, 2015. The study of seawater intrusion in coastal aquifer by electrical conductivity and total dissolved solid method in Gurpur and Nethravathi river basin. *Journal of Aquatic Proceedia (Proc. Of International Conf. on Water Resources, Coastal and Ocean Engineering-2015 (ICWRCOE'15))*, Elsevier, Vol. 4, 57-64.
15. Parvathy K G, **Ramesh H**, Noujas V, Thomas K V, 2015. Impact of mudbanks on coastal dynamics. *Journal of Aquatic Proceedia (Special Issue of Proc. Of International Conf. on Water Resources, Coastal and Ocean Engineering-2015 (ICWRCOE'15))*, Elsevier. Vol. 4, 1514 – 1521.
16. Babar, S., Shobhita, M. P. and **H. Ramesh** (2015). “Assessment of Hydropower Potential in Nethravathi River Basin Using SWAT model”. *International Journal of Earth Sciences and Engineering (IJEE)*, Vol. 8, No.2, 696-702.
17. Babar F Santosh and **Ramesh H.** 2015. Streamflow Response to Land use Land cover Change over the Nethravathi River Basin, India. *Journal of Hydrologic Engg., ASCE*, 05015002-1-11.
18. Bikas, G. S., **Ramesh, H** and Vijaykumar, H. 2014. Study on Performance of Savonius rotor type Wave Energy Converter used in conjunction with Conventional Rubble Mound Breakwater. *Journal of Ocean Engineering* (Elsevier), 89, 62-68. (IF: 1.337).
19. Santosh Babar and **H. Ramesh**, 2014. Analysis of monsoon onset trend and extreme rainfall events over Nethravathi river basin. *ISH Journal of Hydraulic Engineering*, 20(2), 202-212. (Taylor and Francis).
20. Sylus J. K., and **Ramesh H.**, 2014. Statistical analysis of water quality and water level of Nethravathi and Gurpur river basin, Mangalore, India, for non-monsoon season. *Journal of Environment research and development*, Vol. 8, pp 747-750. (F: 1.268).
21. Santosh Babar and **Ramesh H.** 2013. Analysis of southwest monsoon rainfall trend analysis using statistical techniques over Nethravathi basin. *International Journal of Advanced Technology in Civil Engineering*, ISSN: 2231 –5721, Volume-2, Issue-1, pp 130-136.
22. Vyshali, Mahesha, A. Lathasri U. and **Ramesh, H.**, 2012. Parameter estimation and vulnerability assessment of coastal unconfined aquifer to salt water intrusion: A case study. *Journal of Hydrologic Engineering, ASCE*, 17:933-943. (IF: 1.62).
23. VijayKumar Hindsageri, **Ramesh, H.** and Gourav. A., 2012. Effect of variation of wave height and ocean depth on the performance of Savonius rotors utilizing the orbital motion of ocean waves in shallow waters. *Journal of sustainable energy and environment*, 3, 53-57.
24. VijayKumar Hindsageri, **Ramesh, H.** and Kattimani, S.C. 2011. Performance of savonius rotors utilizing the orbital motion of ocean waves in shallow waters. *Journal of sustainable energy and environment*. Vol. 2, pp 117-119.
25. **Ramesh, H.**, Pradeepa, M.P., and Putty, Y., 2010. Generating and mapping of SCS curve numbers using remote sensing and GIS for Lokapavani catchment, Karnataka. *GIS Development Magazine Paper No. 213 (J. Geospatial world)*.
26. **Ramesh H** and Mahesha, A. 2009. Conjunctive use in India's Varada river basin. *J. American Water Works Association (AWWA)*, Vol. 101, No 11, pp 74-83. (IF: 0.86).

27. **Ramesh, H** and A.Mahesha, 2008. Simulation of Varada aquifer system for sustainable groundwater development, *J. Irrig. & Drain (ASCE)*. Volume 134, Issue 3, pp. 387-399. (IF: 1.09).
28. **Ramesh, H** and Mahesha A, 2006. An overview on planning and management of rural water supply- a case study. *ISH Journal of Hydraulic Engineering*, vol.12, No. 1, pp 61-72. (Taylor and Francis)
29. **Ramesh, H** and Mahesha A. 2005. Conjunctive use of surface water and groundwater – an over view. *NITK research bulletin*, vol.14, No. 2, pp 1-6.

Conferences:

National:

1. Pavithra B N and **Ramesh H**, 2015. "Evaluation of wind energy using GIS: A review" Proc. National symposium on Geomatics for Digital India. pp 263-264. December 16-18, JKLU, Jaipur, India.
2. Santosh Babar Fulaji., and **Ramesh, H**. 2012. Analysis of Monsoon onset Trend and Extreme Rainfall events over Nethravathi Basin. Proc. of National conferences on water resources and coastal engineering, HYDRO-2012, IIT, Bombay, 6-8, December 2012. India.
3. Sylus K. J. And **Ramesh, H**. 2012. Salinity mapping of Puducherry regional aquifer by chemical parameter ration method. Proc. of National conferences on water resources and coastal engineering, HYDRO-2012, IIT, Bombay, 6-8, December 2012. India.
4. **Ramesh, H** and Mahesha A, 2010. Estimation of Evapotranspiration and Crop Water Requirement in Semi Humid Region. Proc. of Nat. conf. on Sustainable water resources and management-SWaRM-2010, 7-9 Jan 2010, NITK, Mangalore, India.
5. **Ramesh, H** and Mahesha. A, 2005. Computation of aquifer parameters using step drawdown pumping test. Proc. National Conference HYDRO-2005, pp 171-179 December 7-8, SIT, Tumkur, INDIA.
6. **Ramesh, H**, Pradeep. M.P., and Putty R.Y, 2005. Satellite image enhancement and classification for land cover area estimation. Proc. National conference HYDRO-2005, pp 271-277. December 7-8, SIT, INDIA.
7. **Ramesh, H** and Mahesha A, 2004. 'The role of participatory rural appraisal in water supply project'. Proc. National symposium on Natural resources management for sustainable development, 3-4, Dec. 2004, UVCE, Bangalore, INDIA.

International:

1. Nitya R Govind and H. Ramesh, (2019). Comparison of different PAN sharpening techniques using Landsat 8 imagery. Proc. Of 5th int. conference for Convergence in technology 2019, IEEE Bombay Section., held from 29-31, March 2019.
2. Venkatesh K. and **H. Ramesh**, (2018). Impact of land use land cover change on runoff generation in Tungabhadra river basin. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume IV-5, 2018 ISPRS TC V Mid-term Symposium "Geospatial Technology – Pixel to People", 20–23 November 2018, Dehradun, India. Pp 367-374.
3. Divya, S. Shrihari & **H. Ramesh**, (2018). Modeling of the transport of leachate contaminant in a landfill site: A case study in Mangaluru. Proceedings of the international conference in emerging trends in engineering, science and technology (ICETEST 2018), January 18–20, 2018, Thrissur, Kerala, India, Published by CRC press, Taylor & Francis.
4. K. J. Sylus, and **Ramesh H**. (2018), Modelling of groundwater quality using bicarbonate chemical parameter in Netravathi and Gurpur river confluence, India, Published by the American Institute of Physics, AIP Conference Proceedings 1952, 020044 (2018); doi: 10.1063/1.5032006.
5. Vidya Ganesh R and **Ramesh H**. 2017. Effectiveness of Contrast Limited Adaptive Histogram Equalization Technique on Multispectral Satellite Imagery. *ICVIP 2017*, Proceedings of the International Conference on Video and Image Processing, December 27–29, 2017, Singapore, Singapore. Association for Computing Machinery-Digital Library. Pp 234-239. <https://doi.org/10.1145/3177404.3177409>

6. C. A. Rishikeshan, **H. Ramesh**, Anjaly Vijay, 2017. An mm based approach for glacial lakes extraction. 3rd International Conference on the Status and Future of the World's Large Rivers, 18-21 April 2017, New Delhi, India.
7. C. A. Rishikeshan, **H. Ramesh** and D. Ritiksha, 2016. A Mathematical Morphology Assisted Approach for Shoreline Extraction from Satellite Imageries. ISRS - ISG National Symposium on Recent Advances in Remote Sensing and GIS with Special Emphasis on Mountain Ecosystems December 7 - 9, 2016 Dehradun (India).
8. C.A. Rishikeshan, **H. Ramesh**, T.M. Sharannya, 2016. Comparison of delineated watersheds and its parameters derived from open source DEM datasets using geospatial tools. Proceedings of International Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro2016), CWPRS Pune, India 8th – 10th December 2016.
9. **Ramesh H.** and Chinthu V S. 2016. Extraction of Land Surface Temperature, NDVI, Land Use/Land Cover and Runoff from Satellite Images. 8th International Conference on Applied Research in Engineering and Management Sciences held on August 12 – 17, 2016, Kuala Lumpur, Malaysia
10. **Ramesh. H.** and Soorya P.P., 2016. Application of EO-1 hyperion Data for mapping and discrimination of agricultural crops. Proc. of Int. Conf. on Water, Environment, Energy and Society (ICWEES-2016) held on 15-18, March 2016, Bhopal, India
11. Parvathy K G, **Ramesh H**, Noujas V, Thomas K V, 2014. "A numerical modeling approach for study of mudbank impact on coastline," *Oceans - St. John's, 2014*, vol., no., pp.1, 5, 14-19 Sept. 2014 doi: 10.1109/OCEANS.2014.7003115, IEEE. (Canada).
12. Konstantin J. Sylus and **H. Ramesh**, 2013. The study of sea water intrusion in coastal aquifer by chemical parameter ratio method. Proc. of HYDRO 2013 International, 4-6 December 2013, IIT Madras, Chennai, India.
13. Babar Santosh Fulaji and **H. Ramesh**, 2013. Distribution of high streamflow and relative high precipitation event using directional statistics. Proc. of HYDRO 2013 International, 4-6 December 2013, IIT Madras, Chennai, India. Pp 1198-1203.
14. Kavyasee and **Ramesh H.** 2013. Wetland mapping and change detection using remote sensing and GIS. Proc. Int. conf. & exhibition on water, wastewater and isotope hydrology (ICE-WWISH 13), 25-27, July 2013. UVCE, Bangalore, India. Pp 187-191.
15. **Ramesh, H.** And Vani. 2012. Selection of Suitable sites for Small Hydropower generation using GIS and Remote Sensing. Proc. of international conference on water resources and environmental engineering, Asia Pacific young water professional conference -2012 (APYWP2012), IWA, 7-9, December, 2012, Tokyo, Japan
16. **Ramesh, H.**, Santhosh L. and Jagadeesha C. J., 2012. Simulation of hydraulic parameters in water distribution network using EPANET and GIS. Proc. of an International Conf. on Ecology, Environment and Biological Sciences (ICEEBS'2012), held during January 7-8, 2012, Dubai, UAE.
17. **Ramesh. H** and Mahesha A, 2011. Groundwater Modeling to Simulate Groundwater Levels Due to Interlinking of Rivers in Varada River Basin, India. 4th IEEE int. conf. on modeling, simulation and optimization, ICMSO-2011, 978-1-4577-0005-7 (19th -21st April 2011, Kuala Lumpur, Malaysia).
18. **Ramesh H** and Mahesha. A. 2006. Steady groundwater flow modeling of Varada basin, Karnataka. Proceedings of International Perspective on Environmental and Water Resources conference, EWRI, ASCE, New Delhi, India, December 18-20, 2006, CD-ROM.
19. **Ramesh, H** and Mahesha, A. 2005. Importance of Participatory Rural Appraisal in water supply and sanitation project. Proceedings of the Third Conference 5-9 March 2005 (Atlanta, Georgia USA) Publication Date 5 March 2005, 701P0105. Published by the American Society of Agricultural and Biological Engineers, St. Joseph, Michigan www.asabe.org.
20. **Ramesh. H** and Mahesha A, 2004. 'Watershed planning and management- an integrated approach'. Proc. International conference, LAKE 2004, 13-18, Dec. 2004, Bhubaneswar, INDIA.

Book/Chapter Publication:

1. Karthika B. S. and **Ramesh, H.**, 2011. Estimation of Evapotranspiration and water productivity- Using Remote sensing data. Lambert Academic Publishing, UK. ISBN 978-3-8465-4053-4, Pages 76.
2. **Ramesh H.** and Mahesha A., 2011. “Conjunctive use of surface water and groundwater for sustainable water management” a chapter contributed to a book “Sustainable Development- Energy, Engineering and Technologies – Manufacturing and Environment. Edited by *Chaouki Ghenai*, Intech Publications. Pp 173 - 208. ISBN 978-953-51-0165-9. Available online: <http://www.intechopen.com/articles/show/title/conjunctive-use-of-surface-water-and-groundwater-for-sustainable-water-management>
3. **Ramesh. H.** and Soorya P.P., 2017. Application of EO-1 hyperion Data for mapping and discrimination of agricultural crops. A chapter contributed to a book “Hydrologic Modeling”. Edited by V. P. Singh, Springer Publications.

Conference/Symposium organized

1. One day national symposium on “outstanding issues for hydrological research in India” held on October 21, 2013 fully funded by Ministry of Earth Science, MoES, GoI. (Worked as Co-coordinator).
2. Three days international conference on “water resources, coastal and ocean engineering” held between March 12-15, 2015, (Worked as Treasurer).
3. Five days training workshop on “Design and management of lift irrigation schemes” organized for Karnataka state PWD and Irrigation Engineers, from 27/07/2015 to 31/07/2015 sponsored by Karnataka Engineering staff college, Mandya. India.
4. Five days training workshop on “flood forecasting, flood routing and emergency preparedness of reservoir” organized for Karnataka state PWD and Irrigation Engineers, from 19/09/2016 to 23/09/2016 sponsored by Karnataka Engineering staff college, Mandya. India
5. NRDMS-DST, Govt. of India funded “21 days training on Capacity Building and Training on Geo-Spatial Technologies” to be held from 11-31, July 2019, (PI).

Short term courses/Seminar attended:

Sl. No.	Nature of Programme	Period	Institution /Place	Remarks
1	DST sponsored Workshop on “Management of Stressed coastal aquifers”	18-22, June 2016	Pondicherry University, Pondicherry	One week
2	Monsoon School on “Urban floods”	4-9, July, 2014	IISc, Bangalore	One week
3	Workshop on International Water Law.	9-19, June 2014	University of Dundee, UK	Two weeks
4	Two day training on Surge Analysis Programme (SAP)	6-8 th Oct. 2013	IISc, Bengaluru	Two days

5	AICTE-MHRD, Fuzzy logic, genetic algorithm with wavelet transformation in civil engineering	27 th June - 1 st , July 2011	NITK, Surathkal	One week
6	DAAD sponsored “Eco-hydrological modeling in rural watersheds”	14 th -30 th Sept 2010	Kiel University, Germany	Two weeks
7	DST sponsored training for faculty development programme on entrepreneurship	19 th -30 th July 2010	STEP-NITK, Surathkal	Two Weeks
8	AICTE-MHRD sponsored Short term course on Soft computing techniques in Water Resources Engineering	5 th – 9 th July 2010	NITK-Surathkal	One week
9	WIPRO sponsored training programme on High Impact teaching Skills- A Dale Carnegie training	17-22, May 2010	NITK-Surathkal	One Week
10	AICTE-MHRD sponsored Short term course on Applied numerical methods for Scientists and Engineers	21-25, Dec. 2009	VNIT, Nagpur	One Week
11	TISS and GWA Sponsored, South Asian training programme on Gender, Water and Equity	20-24, October 2008	Goa	One week
12	AICTE-MHRD sponsored Short term course on Integrated Water Resources and Management	28 th July – 08 th Aug, 2008	NITK-Surathkal	Two weeks
13	5 th IHDP-APN International Human Dimensions Workshop on Institutional Dimensions of Global Environmental Change: Water, Trade and Environment	13-26, October, 2006	Chiang Mai, Thailand	Two weeks
14	DST (Govt. of INDIA) sponsored short term training on “groundwater flow and mass transport modeling for assessment and management of aquifers”	13- 30, , October, 2005	TNAU, Coimbatore	Three weeks
15	AICTE-ISTE sponsored short term course on “integrated water resources management using numerical models” like FEM, FDM, ANN, GA and RS &GIS	12 -20, Nov.2004	IIT-Bombay	Two weeks
16	“Winter school in essentials in ‘GIS and Limnology’	21 st -30 th Dec 2001.	IISc, Bangalore	Two weeks

Memberships:

1. Life time member of “Indian Society for Agriculture Information and Technology”, Dharwad, India (Membership No. 106).
2. Life member of Indian Society of Remote Sensing, Dehradun, India (L-3947).
3. Life member of Indian Society for Hydraulics (ISH), Pune, India (LM-809).
4. Member of International Association of Hydrology and Environment (IAHR).
5. Member in good standing of Environmental & Water Resources Institute of The ASCE, USA. Grade-Student.
6. Life Member of India Water Partnership-Global Water Partnership

Award and Fellowships:

1. National Doctoral Fellowship (**NDF**) from AICTE, Govt. of INDIA for PhD programme.
2. Global Water Partnership – University of Dundee International Water Law Scholarship 2014. For attending International water law course at University of Dundee, UK.

Dept. work: worked as Secretary in Dept Undergraduate committee (DUGC), Dept Post Graduate Committee (DPGC) and Doctoral Research Progress Committee (DRPC)

Projects Guided:

Sl. No.	Project Title	UG/PG Course	Status
1.	Design of rainwater harvesting technique for NCET campus, Bangalore	BE.(Civil Engg), 2008	Completed
2.	Planning and design of rainwater harvesting technique for proposed buildings.	BE. (Civil Engg), 2009	Completed
3.	Estimation of evapotranspiration and water productivity using remote sensing data (Mr. Karthik)	M.Tech. (2009)	Completed
4.	Development of Tourism Information System for Karnataka State using GIS, India. (Mr. Savali)	M.Tech. (2010)	Completed
5.	Mapping the potential hydropower sites in Sitha river basin using remote sensing and GIS (Mrs. Vani)	M.Tech (2010)	Completed
6.	Simulation of hydraulic parameters in water supply network using GIS and EPANET (Mr. Santhosh, L. G.)	M.Tech (2010)	Completed
7.	Potential hydropower estimation in Nethravathi River basin (Ms. Shobitha M. Prasad)	M.Tech. (2011)	Completed
8.	Assessment of soil erosion in Nethravathi river basin using GIS and remote sensing (Ms. Ganasree)	M.Tech. (2011)	Completed
9	Dynamic change analysis of Sunderban estuary using Remote sensing and GIS (Mr. Kiran)	M.Tech. (2011)	Completed
10	Groundwater potential mapping using remote sensing and GIS (Mrs. Rashma R Jain)	M.Tech (2013)	Completed
11	Groundwater quality analysis and mapping of Dakshina Kannada district adopting RS and GIS (Mr. Hemanth)	M.Tech (2013)	Completed
12	Evaluating the impact of canal irrigation on land use land cover and its after effects (Ms. Chintu)	M.Tech (2013)	Completed
13	Mapping and characterization of wetland using remote sensing and GIS (Ms. Kavyasree)	M.Tech (2013)	Completed
14	Study of impact of wave energy converter on conventional rubble mound breakwater(Mr. Bikas)	M.Tech (2013)	Completed
15	Evaluating the suitability of EO-1 Hyperion data from mapping agricultural crops (Ms. Soorya)	M.Tech (2014)	Completed
16	Development of web-based GIS application using open source (Mr. Bhanu Mogatra)	M.Tech (2014)	Completed
17	Study of mud banks (Ms. Parvathy, K. G.)	M.Tech (2014)	Completed
18	Effect of land use land cover change on Harangi Streamflow, (Aswathi P Anil)	M.Tech (2015)	Completed

19	Ambient air quality monitoring of south Indian cities using remote sensing (Abid Parari)	M.Tech (2015)	Completed
20	Cyclone track monitoring using hwrp model over north Indian ocean (H. Hitheshkumar)	M.Tech (2015)	Completed
21	Automatic histogram Based Fuzzy C-Means Clustering of Satellite Imagery (Mr. Mohammad Fasil)	M.Tech (2015)	Completed
22	Effect of Inter-basin water transfer on stream flow regime of Nethravathi river (Mr. Sachin Ramesh VV)	M.Tech (2016)	Completed
23	Color based segmentation of a Landsat image using K-Means clustering (Mr. Rohith John)	M.Tech (2016)	Completed
24	Experimental studies on core replaced by geotextile sand containers for rubble mound breakwater (Mr. Udayakumar P V)	M.Tech (2016)	Completed
25	Expert system for mineral classification using hyperspectral data (Mr. Ramesh N.A)	M.Tech. by Research (2016)	Completed
26	Windfarm site selection and evaluation of wind energy potential using GIS (Ms. Pavithra B. N.)	M.Tech. by Research (2016)	Completed
27	Reservoir storage simulation using ANN (Mr. Satish Peddinti)	M.Tech (2017)	Completed
28	Asset and utility mapping	M.Tech (2017)	Completed
29	Drought assessment modelling	M.Tech (2017)	Completed
30	Land surface ET modelling	M.Tech (2017)	Completed
31	Identifying groundwater recharge potential sites using satellite images	M.Tech (2018)	Completed
32	Extraction of reservoir water level elevation through sentinel data	M.Tech (2018)	Completed
33	Assessment and modeling sediment erosion in Hemavathi river basin	M.Tech (2018)	Completed
34	Derivation of bathymetry information from high resolution satellite images	M.Tech (2018)	Completed
35	Modelling soil erosion in Tungabhadra river basin using SWAT model	M.Tech (2018)	Completed
36	Identification Submarine Groundwater Discharge (SGD) through thermal remote sensing	M.Tech (2019)	Ongoing
37	Flood mapping using GIS and remote sensing	M.Tech (2019)	Ongoing
38	Modelling land use and land cover change over Mangalore city using high resolution satellite images	M.Tech (2019)	Ongoing
PhD Thesis			
1.	Study of streamflow response to land use land cover over Nethravathi river basin	PhD (2015)	Completed

2	Feature Extraction Strategies Based on Mathematical Morphology for the Analysis of Remotely Sensed Imagery	PhD	Completed
3.	A framework for groundwater quality modelling in the coastal aquifer of Nethravathi and Gurpur river confluence	PhD	Thesis submitted
4.	Groundwater contaminant modelling in and around land fill sites	PhD	Thesis submitted
5.	Impact of land use land cover change due to urbanization on Land surface temperature	PhD	Ongoing
6.	Short term and long term climate impacts on hydrologic regime of Upper Cauvery river basin, India	PhD	Ongoing
7	Modelling Conjunctive use of surface water and groundwater strategies for sustainable water resources management	PhD	Ongoing
8	A conceptual framework study of coastal reservoir as strategy for sustainable water security	PhD	Ongoing

Reviewer for the journal:

1. Irrigation and Drainage ASCE,
2. Sustainable Water Resources Management

Countries visited: Canada, Dubai (UAE), Germany Japan, Malaysia, Singapore, South Africa, Thailand, the UK., for research interactions, conferences and workshops,

PERSONAL DETAILS

Name : RAMESH H
 Father's name : Honnasiddaiah
 Date of birth : 20th July 1976
 Address (Permanent) : Yaganahalli, Byalakere post, Magadi Taluk, Ramanagar District, Pin-562127.
 Contact address : Associate Professor,
 Dept. of Applied Mechanics and Hydraulics,
 National Institute of Technology Karnataka,
 Surathkal, Mangalore 575025, India
 Contact No. +91-9880173290
 E-mail : ramesh.hgowda@gmail.com, hramesh@nitk.ac.in
 Research Interest: Groundwater/ Surface water modelling, Numerical Modelling, Hydrology,
 Water Resources Engineering, EIA, Energy and GIS & RS.

Referees **1. Prof. A. MAHESHA,**
 Professor, (My PhD Guide)
 Dept. Applied Mechanics and Hydraulics.
 National Institute of Technology Karnataka, Surathkal
 Karnataka, INDIA- 575025
 Phone No. +91-0824-2474000 Extn. 3306, Fax: +91-0824-2474033
 Email: maheshamai@yahoo.com Website: www.nitk.ac.in

2.Prof. Shuqing Yang,

School. of Civil, Mining and Environmental Engineering,
University of Wollongong, NSW 2522, Australia
Email: shuqing@uow.edu.au
Ph: +61 2 42213070

3. Prof. Amba Shetty

Professor ,
Dept. Applied Mechanics and Hydraulics.
National Institute of Technology Karnataka, Surathkal
Karnataka, INDIA- 575025
Email: dwaraki.gs@gmail.com

4.Prof. T. G. Sitaram,

Professor, Dept. Of Civil Engineering, Indian Institute of Science,
Bangalore 560012, India
Contact No. : +918023602261,
Email: sitharam@civil.iisc.ernet.in

Place: Mangalore, India



(H.RAMESH)