

CURRICULUM VITAE

Updated Jan 2017

1. Name : **Dr. M.K.Nagaraj**

2. Date of Birth : 12.03.1959

3. Degree obtained

Degree	University / Institution	Year/ Semester	% of Marks	Division/Class/ Grades/ Credits
SSLC	Sharada Vilas High School, Mysore	June 1974	60.00	I Class
PUC	Sharada Vilas College, Mysore	June 1976	68.10	I Class
B.E. (Civil Engg.)	Mysore University (SJCE)	I Sem.(Dec.'76)	71.86	I Class with Distinction
		I Isem.(July' 77)	65.53	
		III Sem.(Dec.'77)	67.73	
		IV Sem.(July '78)	69.88	
		V Sem.(Dec.'78)	70.27	
		VI Sem.(Aug '79)	68.44	
		VII Sem.(Dec.'79)	73.07	
		VIII Sem.(Aug '80)	72.60	
		IX Sem.(Jan.'81)	78.10	
		X Sem.(Oct. '81)	92.80	
M.Tech. (H.W.R.E.)	IIT Kanpur	I Sem. (Dec. '85)	CPI = 8.00	
		II Sem. (May '86)	CPI = 9.33	
		III Sem (Jan. '87)	CPI = 8.55	
Ph.D. (Groundwater Engg.)	IISc., Bangalore	Sept. 1999	Thesis title : Parameter Estimation of Regional Groundwater Systems	

4. Present position : Professor

5. Present Address : Dept. of Applied Mechanics & Hydraulics
N.I.T.K. , Surathkal
P.O. Srinivasnagar – 575025,
Mangaluru , Karnataka, India
Ph : 0824-2473303(Off), 2474303 (Res), 09880981326(M)
Fax:0824-2474033 Email:rajumkn@yahoo.com

6. Total No. of years of experience after the first degree : 33 years

Period From To		Institution/ Organisation served	Position(s) held	Experience
Oct ' 81	Feb. '82	SJCE, Mysore	Part time Lecturer	5 months
Feb. '82	Nov. '82	TCE, Bangalore	Engineer Trainee	10 months
Nov. '82	Sep. '83	KREC, Surathkal	Asst. Lecturer	10 months
Sep. '83	Sep. '89	KREC, Surathkal	Lecturer	6 years
Sep. '89	Sep. '97	KREC, Surathkal	Senior Lecturer	8 years
Sep. 97	Oct. '2000	KREC, Surathkal	Sel. Grade Lecturer	3 years
Oct. 2000	Jan 2006	NITK, Surathkal	Asst Professor	7 years

Jan 2006 Sep 2007 NITK Surathkal Associate Professor
Sep 2007 March 2010 NITK Surathkal Professor
March 2010 March 2013 NITK Surathkal Professor and Head
March 2013 Til date NITK Surathkal Professor

Worked as a Visiting Faculty at AIT, Bangkok for 4 months (Jan –May , 2008)
 (This is an assignment on *deputation* by Faculty Secondment Program by the *Govt of India*)

Visited Flinders University , Adelaide, Australia for research interaction for one month (Nov – Dec 2008) in the area of Ground Water Engineering

Visited Kumamoto University, Japan to attend an International Engineering Symposium IES 2012 and presented the paper. (March 2012)

7. Subjects Taught :

Undergraduate

- i. Engineering Mechanics
- ii Strength of Materials
- iii Graphic Static's
- iv. Fluid Mechanics
- v. Hydrology and Water Power Engineering.
- vi. Irrigation Theory
- vii. Irrigation Design and Drawing
- viii. Groundwater Engineering (Elective)

- ix. Civil Engineering Systems Analysis (Elective)
- x. Open channel flow and sediment transport (Elective)
- xi. Water Resources Engineering
- xii. Engineering Optimization
- Xiii Disaster Management

Post Graduate

- i. Open channel flow and Sediment Transport
- ii. Advanced Fluid Mechanics/ Applied Hydro Mechanics
- iii. Advanced Hydrology
- iv. Advanced Irrigation and Drainage
- v. Groundwater Engineering
- vi. Water Resources Systems Design
- vii. Planning and Operational Management.

- viii. Analysis of Water Resources System
- ix. Environmental System Analysis
- x. Integrated River Basin Development
- xi. Environmental Management (Jointly with Prof Srihari)
- xii. Integrated river basin Development
- Xiii Systems Approach and Optimization Tech in WRE

8. No. of Research Publications

National Conferences

1. V.Lakshmi Narayana & **M.K.Nagaraj** (1987) Trade off between accuracy and grid sizes in a Ground Water Management model, National Conference on Hydrology, Roorkee, Dec. 1987.
2. **M.K.Nagaraj** (1991) Comparitive study of long range and short range planning in a Ground Water Management model. National Conference on Recent Trends in Water Resources Engg., I.I.T., Kanpur, Feb. 1991.
3. **M.K.Nagaraj** & V.Lakshmi Narayana, (1996) Effect of Anisotropy in GW Management Model, Hydro 96 IIT, Kanpur Dec.96.
4. M.Shekar, **M.K.Nagaraj**, P.V.N.Reddy & K.Sridharan (1996) Parameter Estimation of Hydraulic & Hydrologic Systems, Hydro 96, IIT, Kanpur, Dec.96.
5. Srihari & **M.K.Nagaraj** (1998) Use of Treated Effluent for irrigation, National Seminar, REC, Trichy 1998

6. **M.K.Nagaraj** (2000) Aquifer parameter estimation by inverse modelling, National Seminar by CGWB, Bangalore, Feb. 2000.
7. Subramanya, **M.K.Nagaraj** & Veerappa Devaru (2000) Drip Irrigation studies in mixed cropping system of arecaonut and cocoa, Geo Informatics Workshop, NIE, Mysore, April 2000.
8. **M.K.Nagaraj** (2000) Aquifer parameter convergence in inverse modelling of a regional groundwater system, Hydro 2000, REC, Kurukshetra, Oct. 2000.
9. **M.K.Nagaraj** & Srihari (2000) Effect of surface irrigation recharge factor on groundwater, Hydro 2000, REC, Kurukshetra, Oct. 2000.
10. **M.K.Nagaraj** & Gouse Peera (2000) Estimation of specific yield and rainfall recharge factor in a regional groundwater system Hydro 2000, REC, Kurukshetra, Oct. 2000.
11. Shrihari S. , **M.K.Nagaraj** and Subash C. Yaragal (2001), “Effect of lateritic soil on waste water disposal by land treatment systems”, IAEM Conference on Recent Advances in Water Management, ITBHU, Varanasi, Feb. 2001, 341-343 (Awarded Certificate of Appreciation).
12. Subash C. Yaragal, **Nagaraj M.K.** and Vijay Kumar S.V. (2001), ‘A Hybrid model for groundwater management policy options’, Hydro 2001, CWPRS-Pune, Dec. 2001, 62-68.
13. **Nagaraj M.K.** and Hariprasad (2001), “Sensitivity Analysis of Rainfall-Recharge Model”, Hydro 2001, CWPRS-Pune, Dec. 2001, 69-71.
14. Shrihari S. , Subash C. Yaragal and **Nagaraj M.K.**, (2001) “Groundwater quality monitoring – A Case Study” Hydro 2001, CWPRS-Pune, 2001, 142-145.
15. **Nagaraj M.K.** (2001), “Optimal experimental design in inverse modelling of regional groundwater system”, Hydro 2001, CWPRS-Pune, Dec. 2001, 240-244.
16. **Nagaraj M.K.**, Subash Yaragal (2002), ‘Optimisation model of a non homogeneous aquifer for groundwater management’, National Conference, HYDRO 2002, Dec. 2002, IIT, Mumbai.

17. **Nagaraj M.K.**, A.Mahesha and B.M.Dodamani (2002), “Spatial variability of aquifer parameter in a regional groundwater system”, National Conference on, Hydro 2002, Dec. 2002, IIT, Mumbai.
18. **Nagaraj M.K.** (2003), “Estimation of aquifer parameter by incorporating prior information”, ICWRPM, BITS Pilani, Oct. 2003.
19. **Nagaraj M.K.**, S.C. Yaragal (2003), “Effect of noise in parameter estimation of rainfall recharge model”, Hydro 2003, CWPRS, Pune, Dec. 2003.
20. B.M.Dodamani, **Nagraj M.K.** and Mahes A. (2003), “Aquifer zonation band on electric resistivity test” Hydro 2003, CWPRS, Pune, Dec. 2003.
21. **M.K.Nagaraj** and A.Vittal Hegde (2005), “Role of Remote Sensing in Port Planning”, Port and Ships Partners in Marine Transport, Institute of Engineers, Mangalore, Nov. 2005.
22. **Nagaraj M.K.** (2005), “Effect of noise in parameter estimation of rainfall recharge model by incorporating prior information”, Hydro 2005, SIT Tumkur, Dec. 2005.
23. Lakshman J. Pol, Shashidar K.C. and **Nagaraj M.K.** (2005), “A critical analysis of techno economic aspects of drip irrigation management practice” , Hydro 2005, SIT Tumkur, Dec. 2005.
24. Pradeep, Ramesh, R.Y.Putty and **M.K.Nagaraj** (2005), “Satellite image enhancement and classification for land cover area estimation”, HYDRO 2005, SITTUMKUR, Dec. 2005.
25. N.S.Srinivasa Rao, Srihari and **M.K.Nagaraj** (2005), “System analysis in water distribution network for small towns and villages”, National Conference on Synergic Solutions for Sustainable Development”, NITK Surathkal, Dec. 2005.
26. N.S.Srinivasa Rao, Srihari and **M.K.Nagaraj** (2006), “ Indirect identification of corrosion in water distribution network using sensitivity analysis”, National Congress on Corrossion Control, Mangalore Oct. 2006.
27. **M.K.Nagaraj** and S.C.Yaragal (2006), “Effect of noise in parameter estimation of rainfall recharge model by incorporating prior information”, National Conference, Hydro 2006, Barathi vidyapeeth University, Pune, Dec. 2006.
28. S.C.Yaragal and **M.K.Naragarj** (2006), “Relative sensitivity analysis of performance appraisal index parameters of major ports”, National Conference, Hydro 2006, Bharati Vidyapeeth University, Pune, Dec. 2006.

29. Pradeep M.P., Yadupati Putti and **M.K.Nagaraj** (2007), “Some thoughts on rainfall runoff relationship The case study of Netravathi river basin in Karnataka,” National Conference on “Water shed management”, JNTU, Hyderabad, Feb. 2007.
30. Pradeep M.P., Yadupati Putti and **M.K.Nagaraj** (2007), ”Catchment response simulated by two variable source area models in a western ghat catchment”, National Conference on “Watershed Management”, JNTU, Hyderabad, Feb. 2007.
31. Subash C Yaragal and **M.K.Nagaraj** (2007) “ Draft operation policy using optimization Model in a non homogeneous aquifer system”, INCHOE, NITK Surathkal , Dec 2007
32. **M.K.Nagaraj** and Subash C Yaragal (2007) “ Estimation of parameter uncertainty In the aquifer parameters in open wells determined by Marquardts Algorithim” INCHOE, NITK Surathkal, Dec 2007
33. Subash C yaragel, Prabhavati and **M. K .Nagaraj** (2007) “ Annual and monsoon monthly Rainfall frequency distribution for Karnataka” INCHOE, NITK Surathkal, Dec 2007
34. Subash C Yaragal, Prabhavathi and **M. K. Nagaraj** (2007) “ A note on storm surge and Wind induced disasters in India” , INCHOE, NITK Surathkal, Dec 2007
35. N S S Rao, Srihari and **M.K.Nagaraj** (2007) “ Role of peak factor on the hydraulic Performance of water distribution networks” HYDRO 2007, SVNIT Surath, Dec 2007
36. Palakshappa and **Nagaraj M K** (2007) “ Impact of Rainwater Harvesting Structures on Groundwater Recharge “ National Conference on Emerging Trends in Civil Engg, SSIT , Tumkur (May 2007)
37. Palakshappa and **Nagaraj M K** (2008) “ Estimation of GW recharge for Ranebennur Taluk In Haveri District” National Conference on Advances in Civil Engg , AEC, Bhatkal (Mar 2008)
38. Varadaraju S, **Nagaraj M K** And Subash C Yaragal (2010) “ Effect of soil and water Quality Parameter on growth of Shrimps in Brackishwater Ponds” National Conference on Sustainable Water Recourses Management, **SWaRM 2010**, NITK Surathkal (Jan 2010)
39. Palakshappa, **Nagaraj M K** and Anand Shivapur (2010) “ Assessment and Comparison of GW quality of Itagi Watershed” **SWaRM 2010**, NITK Surathkal (Jan 2010)

40. Neelavkumar, Yateesh, Pruthviraj and **Nagaraj M K** (2010) “ Study of Local Scour Around Bridge Pier “ *SWaRM 2010*, NITK Surathkal (Jan 2010)
41. Mahadeve Gowda S K and **Nagaraj M K** (2010) “ Groundwater Potential Assessment of Haladi River basin “ *SWaRM 2010* , NITK Suratkal, (Jan 2010)
42. Mahadevegowda S K and **Nagaraj M K** (2010). “ Infiltration Study of Haladi River Basin”
SWaRM 2010, NITK Surathkal (Jan 2010)
43. Prashanth , Sridevi, Pruthviraj, Subash C Yaragal and **Nagaraj M K** (2010) “ Use of Porous Fences in open storage Yard at Harbour “ *SWaRM2010*, NITK Surathkal (Jan 2010)
44. **Nagaraj M K** , Subash C Yaragal and Manjunath R (2010) “ Estimation of GW Recharge
In New Mangalore Port Area” *SWARM2010*, NITK Surathkal (Jan 2010)
45. Subash C Yaragal, **Nagaraj M K** and Manjunath R (2010) “ Aquifer Charecterization By Pumping and Electric Resistivity tests in NMPT Area” *SWaRM 2010*, NITK Surathkal
(Jan 2010)
46. **Nagaraj M K** , Subash C Yaragal and Vinay Kulkarni (2010) “Modelling of Multiple Well System” *SWaRM 2010*, NITK Surathkal, (Jan 2010)
47. **Nagaraj M K** (2011) “ Estimation of Aquifer Parameters using Inverse Modelling for Different Noise Levels” National Conference HYDRO 2011 , SVNIT, Surath (Dec 2011)
- 48 **Nagaraj M K** , Venkatesh B and Neeta Nambeesan (2013) “Parameter Trend Analysis of ARNO Rainfall- Runoff model for two river basins in Karnataka”
National Conf on Sustainable WR Management, BITS Pilani - Hyd Campus (April 2013)
- 49 Megha V , Bhojaraj B E, AmbaShetty and **Nagarqaj M K** (2014) Utility of HyperSpectral Data for Disease Detection in Arecanut Palm”
National Conference Furthring Aspects in Civil Engg, Govt College of Engg, Kannur
June 2014, (*Awarded The Best Paper Prize Presented by Ms Megha*)

International Conferences

1. **M.K.Nagaraj** (1992) Ground water management model using grid Refinement. VIII APD-IAHR Congress, CWPRS, PUNE, OCT. 1992.
2. **M.K.Nagaraj**, A.Mahesha, Shivananda K.M., Subramanya K. (2000), “Seawater intrusion in Gurgur river – A case study”, RUWATSS 2000, UOR, Roorkee, Oct. 2000, 159-172
3. **Nagaraj M.K.**, Sridharan K and Sekhar M. (2001) “Sequential estimation of aquifer parameters in a regional groundwater system”, ICCE, IISc, Bangalore, July 2001, 589-293.
4. **Nagaraj M.K.** (2002) “General and Sensitivity analysis of rainfall recharge model” International Conference on Advances in Civil Engineering, IIT-Kharagpur, Jan.2002
5. **Nagaraj M.K.**, Subash Yaragal and Rajashekar (2002), “Runoff estimation using GIS techniques” International Conference on Hydrology and Water shed management, Dec. 2002, JNTU, Hyderabad.
6. **Nagaraj M.K.**, Kiran G. Shirlal and Ganesh Baliga (2002), “Sensitivity analysis of design parameters for breakwater”, International Conference, SHOT 2002, Dec. 2002, IIT Karagpur.
7. **Nagaraj M.K.** (2003), “Role of zonation based on aquifer parameters in draft operation policy of a regional groundwater system”, International R&D Conference on Water and Energy, CBIP, Jan 2003, Aurangabad.
8. B.M.Dodamani , A.Mahesha and **M.K.Nagaraj** (2003), “Groundwater quality monitoring in aquifer management”, International conference on Water quality management, Feb. 2003, CBIP, New Delhi.
9. **Nagaraj M.K.** and Srihari (2004), Draft operation policy in a regional GW system based on transmissivity, International Conference AMTSMWR – NITW, Jan 2004.

10. **Naragaj M.K.** (2004) Effect of noise in parameter estimation of a rainfall recharge model – A case study, International Conference, AMTSMWR-NITW, Jan. 2004.
11. Srihari, **Naragaj M.K.** and Prathviraj (2004), Groundwater contamination and prevention in lateritic soil, International Conference, AMTSMWR-NITW, Jan. 2004.
12. Srinivasa Rao, Srihari and **M.K.Naragaj** (2007), “Sensitivity analysis of water distribution networks”, 8th International CBIP R&D Conference, Lucknow Feb. 2007.
13. Palakshappa, **Naragaj M K** and Shivapur A V (2009) “ Impact of Watershed Development Programme on Crop Diversification a Case study of Itagi Watershed” International Conference INDEX 2009. Adhiyaman college of Engg , Hosur (Aug 2009)
14. Palakshappa, **Naragaj M K** and Shivapur A V (2010) “ Studies on ET Models for Ranibennur Region” International Conference on Hydrology and Watershed Management, JNTU Hyderabad (Feb 2010)
15. Palakshappa, **Naragaj M K** and Shivapur A V (2010) “ Peoples Participation towards Watershed Development Programme a Case Study “ International Conference on Hydrology and Watershed Management, JNTU, Hyderabad, (Feb 2010)
16. **Naragaj M K** ,Subash C Yaragal and V N Kulakarni (2010) “ Comparative Study of Concentrated and siffused pumping in a multiple well system” International Conference ICWPSH 2010 , Bangalore University (Oct 2010)
17. Subash C Yaragal, **Naragaj M. K** and R Manjunath (2010) “ Estimation of Aquifer Parameters by Pumping test and GEC Method in NMPT Area” International Conference ICWPSH 2010 , Bangalore University (Oct 2010)
18. **Naragaj M K** (2011) “ Estimation of Aquifer Parameters using Inverse Modeling by Incorporating Prior Information about Transmissivity and Specific yield as Constraints” International Conference AMTID 2011, NIT Calicut, Sep 2011
19. **Naragaj M K** (2012) “ Estimation of Aquifer Parameters using Inverse Modelling by Incorporating Prior Information about Rainfall-Recharge factor as Constraints” International engineering Symposium, IES 2012, *Kumamoto University, Japan, Mar 2012*
20. **Naragaj M K** and Subash C Yaragal (2013)” Estimation of Aquifer Parameters using Inverse Modelling by incorporating prior information about Specific yield” International conference on Integrated water Waste Water and Isotope Hydrology ICEWWISH, Bangalore University, Bangalore July25-27,2013

- 21 Srikanth N S **Nagaraj M K** and Prasadkrishna(2014) “Numerical Investigation of Heat Transfer and Fluidflow in Hexagonal Shaped Microchannel for Different Hydraulic Diameters”
International Conference on SET, VIT Vellore May 2014
- 22 Bhojaraj B E, Amba Shetty **and Nagaraj M K** (2014)“An Integrated Approach for Arecanut Crop Health Monitoring”
International Conference HYDRO 2014, MANIT Bhopal , Dec 2014
- 23 Bhojaraj B E, Gaurav Hegde, Pruthviraj U, Ambashetty and **Nagaraj M K** (2015)
“Mapping Age wise Discrimination of ARECANUT Crop Water Requirement Using Hyperspectral Remote Sensing”
International Conference ICWRCOE 2015, NITK Surathkal March 2015
(*This is published by ELSEVIER, as Aquatic Procedia 4 (2015) 1437-1444*)
- 24 Bhojaraj B E Amba Shetty and **Nagaraj M K** (2015)
“Assesment of Arecanut Crop Water Requirement using Hyperspectral data and PLSR “ Model” International Conference HYDRO 2015, IIT Roorkee (Dec 2015)
- 25 Harish Kumar and **Nagaraj M K** (2015)” Development of a Conceptual Model For Groundwater Flow in Netravati River Basin”
International Conference HYDRO 2015, IIT Roorkee (Dec 2015)
- 26 **Nagaraj M K** and Harishkumar (2015) “Estimation of Aquifer Parameters using Inverse Modelling by incorporating Prior Information about Transmissivity, Specific Yield and Rainfall Recharge Factor”
International Conference HYDRO2015, IIT Roorkee (Dec 2015)
- 27 **M K Nagaraj** (2016) “ Zonal draft Estimation using Inverse modelling in a Regional Groundwater Systems”
International Conference HYDRO 2016, CWPRS, Pune (Dec 2016)
- 28 Bhojaraj B E , Amba Shetty and **M K Nagaraj** (2016) “Age wise Arecanut Crop Water Requirement using SMLR and Hyperspectral Data”
International Conference HYDRO 2016, CWPRS, Pune (Dec 2016)
- 29 Kirankumar, Harishkumar and **M K Nagaraj** (2016) “ Prediction of Groundwater Flow For an increased Draft using MODFLOW “
International Conference HYDRO 2016, CWPRS, Pune (Dec 2016)

Inter National/National Journals/ Research Bulletin

1. Subash C. Yaragal & **M.K. Nagaraj** (2003), 'Estimation of specific yield in a regional groundwater system', NITK Research Bulletin 2(1), June 2003.
2. **Nagaraj M.K.** (2004), An article on Estimation of aquifer parameter using inverse modeling is published in the book titled "Integrated Water Resources Planning and Management", Published by Jain Brothers, New Delhi, Oct. 2004.
3. **M.K.Nagaraj**, S.C. Yaragal, Rajashekar (2005) "Application of GIS Technique to runoff estimation", NITK Research Bulletin, Vol. 14(2), Dec. 2005.
- 4 Laxman J. Pol, Sashidhar K.C. and **M.K.Ngaraj** (2006), "A Critical analysis of management behaviour of horticultural coop grower of D.K. Practicing micro irrigation systems", Journal of UAS, Dharwad Vol 19 (4), 883-887.
- 5.. Subash C. Yaragal & **Nagaraj M.K.** (2007), "Performance of major port using performance appraisal index", Journal of Institute of Engineers (I), Vol. 87, Jan. 2007.
6. Laxman J. Pol, Sashidhar K.C. and **M.K.Ngaraj** (2007), "A critical analysis of techno extension aspects of drip irrigation management practices", Journal of UAS, Dharwad Mysore JI of Agr Sciences, Vol 41 (1) 76-81, 2007
7. Subash C Yaragal and **M.K.Nagaraj** (2007) " Combined optimization simulation model For groundwater management policy options"
Journal of Institution of Engineers (I), Vol 88, Aug 2007
(*Awarded Best Paper Prize by Inst of Engineers, India at NIT Warangal, 2008*)
8. **M.K.Nagaraj**, Subash C Yaragal and Sakethnath (2008) " Sensitivity Analysis of Performance appraisal index parameters of major ports", IJED, Vol 11 , No 8,131-138, Fall 2008
9. **M.K.Nagaraj** and Subash C Yaragal (2008) " Sensitivity of Land Cover Parameter in runoff Estimation using GIS " JI Indian Society of Hydraulics, Vol 14 (1), 41-51, July 2008
10. Palakshappa, **Nagaraj M K** and Anand Shivapur (2010) " Impact Assesment of Watershed Development Programme a Case Study" International Journal of Earth Sciences and Engg Vol 3 (NO2) pp 224-232 (April 2010)

11. Pruthviraj, Prashanth, Subash C Yaragal and **M K Nagaraj**(2011) “ Study on Shelter Effects of Solid wind Fences” InterNational JI of Earth Sciences , Vol 4 (1) Feb 2011
- 12 Pruthviraj Subash C Yaragal and **Nagaraj M K**(2013) “ Numerical Prediction of AirFlow Through Perforated Plates on Flat Surface” Intl JI of InnovativeResearch In science and Technology, Vol 2, No 7 July 2013
- 13 Rohan Maxwel and **Nagaraj M K** (2013)
“ Risks in Construction Industry of Mangalore”National JI of Construction Engineering, Technology and Management Vol 3 (2) Aug2013
- 14 S K M Gowda and **M K Nagaraj** (2013) “ Groundwater Potential Assessment of Haladi River Basin in Western Ghats of Udipi District” International Journal of Earth Sciences and Engineering, Vol 6 (6) pp 1497-1504 Dec 2013
- 15 **M K Nagaraj** and Harish Kumar (2015) “ Sensitivity Analysis of Rainfall –Recharge Model for a Noisy Data” International JI of Research in Engg and Tecxhnology (eISSN 2319-1163, pISSN 2321-7308)
- 16 Bhojaraj B E ,Amba Shetty , **M K Nagaraj** and P Manju (2015) “ Age Based Classification of Arecanut Crops A case Study of Channagiri “
Geocarto International (International JI published by Taylor and Francis)
(DOI 10.1080/10106048.2015.1094528)

Worked as a **Guest Editor** on **Special Issue** on *Hydrology and Water Recourses Engineering of International Journal of Earth Sciences and Engineering (IJEE)* (ISSN 0974- 5904, Vol 6 No 5 Oct 2013)

9. M.Tech Thesis Guided

Sl. No.	Title of thesis	Student	Year	Co-guide
1.	A hybrid model for GW policy options	Vijay Kumar	1988	Dr. K.Ramamurthy
2.	An Optimization model of non homogeneous aquifer for GW Management	Shantakumar	1989	--
3.	Drip Irrigation System study in mixed cropping pattern	Veerappa Devaru	1990	--
4.	An evaluation of SCS model using satellite information input for Runoff estimation in Gurgur river basin	Ramesha	1991	--
5.	Run off estimation using GIS	Rajashekar	1992	--
6.	Parameter estimation of rainfall recharge model.	Vinod Kumar	1997	--
7.	Water quality analysis around MRPL site	Shivanand	1998	A.Mahesha
8.	Regional Groundwater simulation Model Using FEM	Srinvasa Rao	1999	--
9.	Estimation of specific yield and rainfall recharge factor in a regional groundwater system	Gause Peera	2000	--
10.	Sensitivity analysis for recharge model	Hari Prasad	2001	--
11.	Sensitivity analysis of design parameters for breakwater	G.P.Baliga	2001	Sri. K.G. Shirlal
12.	Modeling of multiple well system	Vinay Kulkarni	2002	--
13.	Development of a draft operation policy in a regional groundwater system using aquifer Parameter	Seema	2003	--
14.	Integrated digital database creation and groundwater assessment for Pondichery using RS & GIS	Vinod Kumar V.H.	2003	--
15.	Sensitivity analysis of WD system	Naga Priya	2004	--
16.	Modeling of urban water distribution using GIS	Bharadwaj	2004	Dr. S.G.Mayya
17.	Performance appraisal of major ports by NPI	Saketh nath	2005	--
18.	Determination of aquifer parameter by Marquardt Algorithm	Gourav	2005	--
19.	Prioritization of Micro water shed	Yoganand	2006	Mr. B.M.Dodamani
20.	Optimum Design of Ship hull	Praveen	2007	Dr KSBN
21.	Environmental Management plan for Chemical industry	Prakash	2008	Dr SCY
22.	Local Scour around Bridge Pier	Neelav	2008	Mr Pruthviraj

23. Identification of Sensitive Activities In Construction Scheduling Sudeep 2010 -
- 24 Application of six thinking hat model for Construction of oil jetty at NMPT Rajataditya 2011
- 25 Estimation of Soil Parameters using GIS Shetty Jayaprakash 2011 Dr Amba
- 26 Planning and design of Gravity based WDS SanjayKumar 2011 Dr Subash Yaragal
- 27 Planning and Design of Pressurized WDS Prathviraj 2011 Dr Subash Yaragal
- 28 Impact of Risk Management on Total Cost Firosman A M 2011
- 29 Scheduling and Crashing of Project Duration Leeladhar Pammar 2011
- 30 Spatial and Temporal Change studies of Western Ghats Swetha D 2011
(Co Guide: Dr Amba Shetty)
- 31 Scheduling and Crashing of Project duration using Primavera Jayanhi 2012
- 32 Execution of last planner system for convention center Sanal 2012
- 33 Scheduling and crashing project duration using MS office Praveenkumar 2012
(Co guide- Prof Aravind ,BVBCE Hubli)
- 34 Modelling Rainfall Runoff under two different climatic regimes For rivers of western ghats of Karnataka Neeta Nambisan 2012
(Coguide- Dr B Venkatesh NIH Belgaum)
- 35 Rainfall infiltration triggered landslide prediction model Snjeev Gadad 2012
(Coguide- Dr M K Katra DRDO Delhi)
36. Utility of Hyperspectral data for disease detection in arecanut Megha 2013
(Coguide Dr Amba Shetty)
- 37 Hyperspectral RS for age detection for arecanut crops Manju 2013
(Coguide Dr Amba Shetty)
- 38 Risk Assesment and Management for Construction of Mangalore Airport Prakash 2013

39	Laying and delay of sewage pipeline and project management	Arjun	2013
40	Planning, Scheduling upgrading resource management	Abhaya	2013
41	Integrated watershed management programme A case study of NITK	Rahala	2013
42	Analysis of Changes in River Morphology due to Sand Mining (Co guide: Dr Mathew K Jose, NIH Belgaum)	Y Shantanu	2014
43	Prediction of Wave Reflection using SVM and PSO-SVM	Saneesh	2014
44	An overview of Cost Effective Construction using Precast Technology	Sailavan	2014
45	Evaluation of GRIHA- a Green Rating System for Built Environment	P Raju	2014
46	Hyperspectral RS Applications (Co Guide: Dr Amba Shetty) (<i>viva yet to complete</i>)	Prashanth	2014
47	Estimation of AET Using Landsat 8OLI/ TIRS Imagery Over Ghataprabha Basin	Shashank C Bangi	2015
48	Modelling Spatial and Temporal Pattern of Urban Growth In Metro Cities of India (Joint Guide: Prof T V Ramachandra, CES, IISc Bangalore)	Chandan M C	2015
49	Assessment of Green Rating Systems	Shivaraj S Managiri	2015
50	Planning and Design of a Multipurpose Berth at Beypore Port	Rameez Nazeem	2015
51	A Multicriterion Decision Making Approach for Landfill Site Selection (Joint Guide: Prof Subash C Yaragal, Civil Dept)	Ganaraj	2015
52	Assessment of Delay Factors in Barrage Construction Projects	A B Reddy	2016
53	Application of GIS in a water supply Project	P Koushal Hemanth	2016
54	Analysis and Evaluation of different factors affecting the productivity In a Water Supply Project	Iqbal V A	2016
55	Groundwater Flow Modeling using GMS and MODFLOW	Kiran Kumar	2016
56	Lake Ares Change Monitoring and Pollution detection using RS and GIS	Abhijath	2016
57	Identification of Suitable Sites for Solid Waste Management using RS and GIS	Arun R Nath	2016

58 Aquifer Parameter Estimation from Pumping Test Data Mohd Zakaria 2016

M Tech (by Research)

- | | | |
|---|-------------|------|
| 1 Studies on Drip Irrigation System | Shalini G B | 2014 |
| 2 Application of RS in Solid Waste Management
(Coguide : Prof A V Hegde) | Vishwanath | 2014 |
| 3 Numerical Modeling of Heat flow in Micro Channels
(Coguide: Prof Prasad Krisna, Mech Dept,) | Shrikanth | 2014 |

10. Ph.D. Guidance

(Name of the PhD scholar and broad area of PhD Topic is given below)

1. Mr. B.M.Dodamani, Groundwater Modeling and Draft Operation Policy
(Joint guide : Dr. A.Mahesha) ***Degree Awarded in Aug 2008***
2. Mr. Lakshman J. Pol, Drip Irrigation system study
(Coguide : Dr K C Shashidar, UAS, Bangalore)(***Degree Awarded in June 2009***)
3. Mr. Palakshappa, Groundwater resource management and aquifer parameter estimation
(***Degree Awarded June 2012***)
4. Mr. Srinivas Rao, Sensitivity analysis of pipe network (Joint guide : Dr. Srihari)
(***Degree Awarded in Oct 2009***)
5. Mr. Mahadeva Gowda, Water Resources Management
(***Degree Awarded in May 2016***)
6. Mr. Varadaraju, Optimum design of fish tanks (***Degree Awarded in Oct 2009***)
7. Mr. Pruthviraj, Flow characteristics and pollutant dispersion around buildings
(Joint-guide : Dr. Subhas C. Yaragal) (***Degree Awarded in Nov 2015***)

8. Mr. Pradeep, Runoff estimation in west flowing rivers (co guide: Dr Yadupati Putty)
(***Degree Awarded in May 2010***)
- 9 Mr Rohan Constrection scheduling Sensitivity (Thesis Submitted)

- 10 Mr Binod Watershed Modelling (ongoing)
- 11 Mr Bhojaraj Remotesensing applications in crop monitoring
(Joint guide- Dr Amba Shetty) (**Degree Awarded in May 2016**)
- 12 Mr Harish Kumar Groundwater modeling (ongoing)
- 13 Mr Palani Kumar Wear Analysis in Marine Structures (ongoing)
(Joint Guide: Dr Jnanasekharan, Mech Dept)
- 14 Mr Murugan Fracture Analysis in Submarine Pipe Line
(Joint Guide Dr Vadivuchzliyan)

11. Summer Schools/Winter Schools/Refresher courses/ Training /Conferences

i) Organised

:

1. Hydrology for Engineers - One week Course for PWD Engineers Sponsored by KERS Mysore, 2000.
2. Engineering Applications of RS & GIS – AICTE-ISTE & ISRO Sponsored course for 15 days, Dec. 2002.
3. Conducted 3 day Workshop on Course Curriculum for I B.Tech in NITK, Surathkal Dec. 2004. *
4. Conducted 3 day workshop on B.Tech Curriculum at NITK, Jan. 2005. *
5. Conducted one day workshop on Grading in Credit Ssystem at NITK, Nov. 2005. *
6. Conducted one week Refresher course for PWD Engineers “Environmental Impact Assessment for Water Resources Project” , Jan. 2006.
7. Conducted one day workshop on challenges in ‘Water Resources Development’ at NITK, Surathkal, March 2006

8. Conducted 5 day ***INSPIRE*** programme for class XII students (29 Dec 2009-2 Jan 2010)
(This was sponsored by DST, GOI, New Delhi)
- 9 Conducted 5 day ***NURTURANCE*** programme for class IX Students (15-19, Feb,2010)
(This was sponsored by NCERT, New Delhi)
- 10 Conducted a **National Conference on *Sustainable Water Resources Management SWaRM 2010 as Organizing Secretary (7-9, January, 2010)***
- 11 Conducted a one day **National workshop on *Recent Trends in Systems Applications As Applied to Civil Engineering*** as one of the **Organising Secretary (9 Jan 2015)**
(Other organizing Secretary : Dr Manu, App Mech Dept)
This workshop was sponsored by TEQIP II , NITK

ii) Participated

1. Irrigation Water Management, Patna, 3 weeks, (1984).
2. Soil Plant Water Relationship, Anantapur, 1 week, (1984).
3. Remote Sensing Application to Water Resources, Madras, 3 weeks, (1985).
4. Construction Management, Surathkal, 2 weeks, (1984).
5. Water Quality Assessment in Rivers, Mysore, 2 weeks (1988).
6. Modelling and Design of Foundations, Kanpur, 2 weeks, (1988).
7. Hydrology of Urban Areas, Madras, 2 weeks, (1989).
8. Behaviour of Piles under Complex load, Howrah, 2 weeks, (1990).
9. Ground contamination from waste disposal activities and their solutions, Calicut, 2 weeks, (1992).
10. 3 months training at NRSA, Hyderabad (Remote Sensing Applications to Water Resources Engg), (1990).
11. Quality assurance in Engineering Education, 1 week , KREC Surathkal, (1997).
12. Site Investigation for Civil Engg. Construction, Two weeks, KREC Surathkal (1998).

13. RS & GIS for Resource Management, Two weeks, KREC Surathkal, (2002).
14. Linear Algebra and applications, Two weeks, KREC Surathkal, (2002)
15. Planning, Development and Management of Model Urban Core Infrastructure, Two weeks, NITK Surathkal, (2004).
16. Attended one week training course on GIS at RRSSC, Bangalore, (2000).
17. Attended one week course on AIDS awareness at Bangalore, (1997).
18. Attended one week course on Groundwater modeling at IIT, Roorkee, (2005).
19. Attended 3 day course on Water retaining structure at Bangalore, (2004). *
20. Attended 5 day course on Modern trends in mapping at SOI, Hyderabad, (2005). *
21. Attended 5 day course on Urban storm water management, IIT Mumbai, (2005). *
22. Attended 3 day Workshop on Energy Audit at NITK, Surathkal (Dec. 2005).

23. Attended One day Seminar on Energy Audit on Capital and Maintenance dredging in major ports of India” at NMPT, Mangalore (Dec. 2005).
24. Attended two day workshop on “*The UC Berkeley-Intel Entrepreneur Curriculum Workshop*” at Mumbai (March 2006).

25. Attended one week workshop on ‘*Leadership skills for excellence*’ at MDI, Gurgaon, May 2006. *
26. Attended 3 day EDUSAT Users meet at Hyderabad, March 2006.

27. Attended a 2 day workshop on “Change Leadership to promote Teaching and Learning” *This is jointly organized by AIT Bangkok and University of Southern Queensland at AIT, Bangkok, (April 2008)*

28. Attended a Two day workshop on **Academic Quality Management** at NIT Calicut, July 2008 (sponsored by TEQIP)

- 29 Attended a Two day **INDO JAPAN** Theme Meeting on *Disaster Risk Reduction* at CPRI Bangalore , Aug 2008 (Sponsored by TEQIP)
30. Attended DAAD- KIT GAWN International Seminar on “ *Water and Biodiversity*” at Bangalore (2-5, Nov 2009) and delivered a special invited lecture .
- 31 Attended 3 day meeting at on **Research potential in Plasma Research**, under BRFST programme at IPR, Ahmedabad (July 8-10, 2010)
32. Attended 5 day training on “ **Training Need Analysis and Impact Evaluation**” at ESCI, Hyderabad (Aug 9-13, 2010) *Sponsored by TEQIP –II*
- 33 Attended 2 days workshop on *Tsunami Threat and its Mitigation along Indian Coast* At NITK Surathkal (Nov 2015)
- 34 Attended 2 days UNESCO REGIONAL CAPACITY workshop on *Ensuring Water Security* at IIT Mumbai (Nov 2015)

12. R & D Projects :

1. Worked as Chief Investigator for an R & D project in the area of Groundwater Engineering (cost 7.5 Lakhs financed by NMPT) Completed
2. Worked as Co-ordinator for MODROB of Fluid Mechanics Lab. (cost Rs. 8 Lakhs financed by MHRD) Completed
3. Worked as a co-ordinator for MODROB Project of Hydraulic Machinery Laboratory (cost Rs. 9.00 lakhs granted by MHRD) Completed
4. Worked as a team member on R&D project on Diffusion study of pollution using wind tunnel (Rs. 15.00 Lakhs, financed by DST) Ongoing
5. Working as a team member on R &D Project “ Flow Charecteristics and pollutant Dispersion around buildings “ (Rs 18 Lakhs , financed by BRNS) Ongoing

2. Worked as **Executive Committee** member for 3 day National Conference on ‘Synergic Solutions for Sustainable Development at NITK, Surathkal (Dec. 2005).
3. Worked as **QIP Co-ordinator** of NITK, Surathkal for 3 years.
4. Working as **Team Member** in EDUSAT Programme of NITK, Surathkal.
5. Worked as **Secretary, DRPC** of Applied Mechanics Department, NITK Surathkal.
6. Served as **Chairman, Co-Chairman** in Technical Sessions at National & International Conferences.
7. Worked as **Presiding Officer**, JMET 2004 & 2005, Deputy Presiding Officer JMET, 2006
8. Worked as **Presiding Officer**, GATE 2006, Deputy Presiding Officer, GATE 2007.
9. Worked as **Presiding Officer**, JEE 2006, JEE 2007.
10. Served as **Warden of the K.R.E.C. Student's Hostel** for two years
11. Actively involved in the Mangalore University Engineering Examinations works such as tabulation and valuation.
12. Served as a member of staff council.
13. Actively worked in various committees for organising the conferences and workshops held at K.R.E.C. like ISTAM'84, DHEC'89, SPIC-MACAY Annual convention'90, Do-it Yourself exhibition.
14. Served as a committee member for the selection of students for M.Tech course of the Department of Applied Mechanics and Hydraulics and selection of U.G. students for other REC's.
15. Served as an **Executive Committee Member** of Staff Club and KRECTA, KREC, Surathkal.
16. Served as a **Treasurer** of Staff Club, K.R.E.C., Surathkal.
17. Served as **Secretary** of KRECTA for two years.
18. Worked as **NSS programme officer** of the college for two years.

19. Worked as member, Board of Examinations of Mangalore university , Bangalore University and Mysore university
20. Worked as **Chairman**, Board of Examinations of Mangalore university
21. Actively involved in curriculum development, student counselling, co-curriculum activities at Institute and Inter University level.
22. Delivered Guest Lectures in various Summer schools, Refresher courses, Institution of Engineers and in training courses at different places like Mangalore, Calicut, Hyderabad, Warangal, Hubli, Mysore etc.
- 23 Served as **Faculty Advisor** – Kannada Vedike, SPIC-MACAY, MUSIC CLUB, Artist forum, Management forum of NITK
- 24 Worked as **Chairman**, Reception and Registration committee for 24 Indian Engineering Congress (*IEC*) held at NITK Surathkal (10-13, Dec 2009)
- 25 Worked as **Chairman** Reception and registration committee for **39 ISTE Annual Convention** held at NITK Surathkal (18-20, Dec 2009)
- 26 Served as an **invited member** for Research Advisory Board at NITK (2009-2010)
- 27 Served as **Member** Editorial board of NITK Research Bulletin (2009-2010)
- 28 Served as **Chairman** , Civil Engineering Association (2009-2010)
- 29 Served as an **Expert Member** for confidential works at AICTE
- 30 Invited as an expert member for confidential work at UGC
- 31 Worked as a reviewer for Journals (IJEE)
- 32 **Guest Editor** of **International Journal of Earth Sciences and Engineering** (Special Edition on Water Resources Engineering- Sep 2013)
- 33 Member, BOS , Central University of Karnataka, Gulbarga
- 34 BOS Member (VTU Nominee), RV CE Bangalore
- 35 Invited as an Expert for Confidential work at UPSC, NewDelhi

- 36 DC member for PhD students at VTU,Karnataka, Karunya University, Coimbatoor,
- 37 Expert Member for Curriculum Revision at COE, Tiruvananthapuram
- 38 Member, Technical Advisory Committee, International Conference HYDRO 2014 (Held at MANIT, Bhopal, Dec 2014) (chaired Technical Sessions)
- 39 Member, Technical Advisory Committee, International Conference HYDRO 2015 (Held at IIT Roorkee, Dec 2015) (chaired Technical Sessions)
- 40 **Member, Estimation Review Committee**, Karnataka Irrigation Corporation Ltd (A **High Power Committee** constituted by KNNL, Govt of Karnataka)
- 41 Delivered “**Er BALEKUNDRI MEMORIAL LECTUTRE**” at Institution of Engineers Belagavi on 8 Jan 2014
Topic: Coping with Water Scarcity”
- 42 Worked as **Resident Engineer (i/c) at NITK for 1 year (Jul 2014- Aug2015)**

Presently Member , Board of Governors of NITK
(*Nominated by NITK Senate for a two year term Nov 2016-2018*)

Contact M K Nagaraj
Professor
Applied Mechanics Department
NITK Surathkal PO Srinivasanagar 575025
Mangaluru, Karnataka India

Ph Off 91824 2473303, Res 91824 2451303

Mob 09880981326

Email rajumkn@ yahoo.com, mkn@nitk.ac.in

***** 1