

Faculty Profile:

Name: Dr. NAGRAJ S. PATIL M.Tech., Ph.D (IIT Delhi)

Chairman

&

Associate Professor,

Dept. of Civil Engineering

Centre for P.G. Studies,

Visvesvaraya Technological University

Jnana Sangama, Machhe, Belagavi-590018

Karnataka, India



Email – nagrajspatil@yahoo.com

nspatil@vtu.ac.in / patil.nagraj@gmail.com

Faculty ID: 4016

Gender: Male

Date of Joinging: 09/12/2013

Area of Specialization: Environmental & Water Resources Engineering, Remote Sensing & Geographical Information System, Climate Change.

Appointment type: Permanent

Consultancy Project:

1. “Assessment of Climate Change Impact on Precipitation and Stream flow in sub basin of Krishna” Received from Ministry of Water Resources, Govt. of Karnataka

Research Project:

1. Establishment of Centre of Excellence in “Geospatial Technology”, Funded by Department of Department of Higher Education Govt. of Karnataka.
2. Establishment of Research HUB “Micro Irrigation” of Rs.50.00 Lakh. Under TEQIP 1.3
3. Research Project on “Framework for evaluation of Hydrological components in watershed under the scheme of Prime Minister Krishi Sinchayee Yojna (PMKSY)” Received from ISRO.
4. Research Project on “Clean and safe Drinking Water supply to rural community using River bank filtration technique in Hard Rock Regions of Krishna Basin, Karnataka, India” DST-WTI, Govt. of India.

5. Received a grant of 20 Lakhs from VGST, Ministry of IT & BT, Govt. of Karnataka. Proposal for Karnataka Fund for Improvement of Infrastructure in Science & Technology (K-FIST Level I) Entitled “Upgradation of Geospatial Science Laboratory”

Selected Journal Paper:

1. Reddy Nagendra, Nagraj S. Patil, M. Nataraja (2021) “Analysis of water balance components of a River Sub-basin under Future Climate Scenarios” , SPRINGER-Sustainable Water Resources Management (SWAM) 7:104 (doi:10.1007/s40899-021-00583-z)
2. Reddy, N., Patil, N. S., & Nataraja, M. (2021). Assessment of Climate Change Impacts on Precipitation and Temperature in the Ghataprabha Sub-basin Using CMIP5 Models. MA_PAN-Journal of Metrology Society of India. (doi:10.1007/s12647-021-00431-7)
3. Nagraj S. Patil, and Nataraja M. (2020) “Effect of land use land cover changes on runoff using hydrological model: a case study in Hiranyakeshi watershed” Modeling Earth Systems and Environment (Springer) (DOI:10.1007/s40808-020-00808-8) ISSN 2363-6203.
4. R. S. Laddimath & Nagraj S. Patil (2018) “Artificial Neural Network Technique for Statistical Downscaling of Global Climate Model”. Mapan - Journal of Metrology Society of India (Springer). ISSN:09703950 (DOI:10.1007/s12647-018-00299-0)
5. Nagraj S. Patil, Nataraja, M. and Omprakash, T. (2018) “Evaluation of Hydrological Components Using Hydrological Model SWAT for Malaprabha Subbasin” Journal Geological Society of India Vol.92, August 2018, Pp. ISSN: 00167622 Springer India.
6. Nagraj S. Patil & N. L. Chetan (2017) “Groundwater modeling of Hiranyakeshi watershed of Ghataprabha sub-basin” Journal of the Geological Society of India, September 2017, Volume 90, Issue 3, pp 357–361 ISSN: 00167622 Springer India.
7. Nagraj S. Patil, Santosh Dhungana and B. K. Purandara (2016), Assessment of groundwater in Ghataprabha subbasin using visual MODFLOW Flex. International Journal of Earth Sciences and Engineering. Volume 09 No. 04, pp. 1376-1382.
8. Suthar S., Bishnoi P., Singh S., Mutiyar P. K., Nema A. K., and Patil N. S. (2009) “Nitrate contamination in groundwater of some rural areas of Rajasthan, India.” Journal of Hazardous Materials (Elsevier), Volume 171, November 2009, Pages 189-199. ISSN: 0304-3894.

Selected Conference Paper:

1. Nataraj M. & Nagraj S. Patil “Assessment of Historical Climate Trend and Drought Events under Changing Climate in the Malaprabha Sub basin” in the 3 international Conference on Recent Research Emerging Trends in civil Engineering (ICRRETCE-2019) held on 12th & 13th July 2019 at Reva University.
2. Vijaya Kumar H. & Nagraj S. Patil “Comparative Study of RBF Well Yield and River Flow” in the 3 international Conference on Recent Research Emerging Trends in civil Engineering (ICRRETCE-2019) held on 12th & 13th July 2019 at Reva University.
3. N. B. Gowda, Nagraj S. Patil & Nataraja M (2018) “Multi-Site Calibration of the Ghataprabha Sub-Basin Using Soil & Water Assessment Tool” Hydro 2018 International Conference, held at National Institute of Technology Patna, during 19-21 December 2018.

4. Veena H. T. & Nagraj S. Patil (2018) “Groundwater Modelling Using Coupled Model SWAT-Modflow in the Hiranyakeshi Sub Watershed”. Hydro 2018 International Conference, held at National Institute of Technology Patna, during 19-21 December 2018. **(Best paper Award)**
5. Nagraj S. Patil, A. N. B. Gowda “Runoff Prediction in the Ghataprabha Subbasin using Hydrological Model SWAT” 2018 International SWAT Conference held January 10-12 at the Indian Institute of Technology - Madras in Chennai, India.
6. Nagraj S. Patil, Mamatha K., Nataraja M. (2017), “Drought Assessment for The Bhima Subbasin”. International Conference on Hydraulic and Environmental Systems from 23rd – 25th March, KLEMSSCET, Belagavi.
7. Nagraj S. Patil, Manoj S, R. V. Raikar, Nataraja M. (2017), “Simulation of Runoff and Analysis of Climate Change Scenariosfor Bhima Sub-Basin by Using Swat Model”. International Conference on Hydraulic and Environmental Systems from 23rd – 25th March 2017, KLEMSSCET, Belagavi.
8. Rajashekar S. Ladimath & Nagraj S. Patil (2016), Statistical Downscaling of precipitation data using Artificial Neural Network, International conference on Sustainable Water, Wastewater & Energy Management from 17th – 19th August, 2016. held at IISc, Bengaluru.
9. Nagraj S. Patil, Nataraja M. & Vijaykumar H. (2016), Study of Land use Land cover changes on runoff using hydrological model SWAT, International conference on Sustainable Water, Wastewater & Energy Management from 17th – 19th August 2016, held at IISc, Bengaluru.
10. Dhung S., Patil N.S., Vijaykumar & Herimath C. G.(2014) “Sustainable Management of Groundwater in the Bhima River Sub-Basin under Climate Change Scenarios”. International conference on Modeling Tools for Sustainable Water Resource Management,(MTSWRM) 28-29 Dec., 2014. Organized by Dept. of Civil Engineering, IIT Hyderabad.

Invited Lectures:

1. Delivered lecture on “Remote Sensing & GIS for Water Resources Management” on 21-11-2019 during two days’ workshop “Challenges in Water Management and Modern Methodologies in Field Land under Irrigation Command Area” held during 21-22 November 2019. WALMI Dharwad.
2. Delivered lecture on “Geospatial Technology for Civil Engineering” on 20 August 2019, at Gandhi Institute For Technology (GIFT). Bhubaneswar, Odisha.
3. Delivered lecture on “Geospatial Laboratory” on 14th July 2019, during one-week faculty Development Program on “Laboratory Studies in Civil Engineering” held during 08th to 14th July 2019 at S. G. Balekundri Institute of Technology, Belagavi-590010.
4. Delivered special lecture on “Water Resources Information System” on 25/01/2019 during two days’ workshop “Bench marking of Irrigation Projects” held during 24-25 January 2019. WALMI Dharwad.
5. Invited lecture on “Application of GIS in Solid Waste Management” on 19/12/2018 at Department of Civil Engineering, SDM College of Engineering & Technology, Dharwad.

6. Delivered Technical talk on “Application of Geospatial Technology for Environmental Management” on 28/04/2019 during Environmental Management and Sustainable Development from 24th -28th July 2018 KLE, Hubli.
7. Delivered special lecture on “Water Resources Information System for Bench Marking of Irrigation Projects” on 27/07/2018 during two days’ workshop “Bench marking of Irrigation Projects” held during 26-27 July 2018. WALMI Dharward.
8. Delivered lecture on “Water Conservation” on 21/03/2018 at World Water Day and International day of Forest, at S. G. Balekundri Institute of Technology, Belagavi.
9. Special lecture on “Geographical Information System and Software” on 14/03/2018 at one Day Geographical Information System and Software workshop at Department of Geography, Lingaraj College, Belagavi.
10. Special lecture on “The Inter State River Disputes” on 07/02/2018, at the one day National Level symposium organized by the Department of Geography, Lingaraj College, Belagavi.

Organized workshop as a Coordinator:

1. One day International workshop on “Riverbank Filtration Projects in Southern India-Studies from Hard Rock Regions” on 29/05/2018, in association with The Energy Research Institute, University of Rhode Island USA, Monash Universtiy Austrila, NIH, Belagavi. Venue: Native By Chancery Hotel, Belagavi, India.
2. One week workshop on “Hydrology for Engineers” sponsored by,WRDO, Govt. of Karnataka, from 29/01/2018 to 03/02/2018 at VTU, Regional center, Kalaburgai.
3. Three days workshop on “Essential workflows on QGIS” held from 16-18 February 2017, at VTU Campus Belagavi, Sponsored by DST-NRDMS, Govt. of India, New Delhi
4. Three days workshop on “Essential workflows on ArcGIS Desktop” held from 8th-10 Nov 2016, at VTU Campus Belagavi in Association with ESRI INDIA.
5. One Day workshop on “Clean and Safe Drinking Water Supply to Rural Community Using River Bank Filtration Technique in Hard Rock Regions of Krishna Basin, Karnataka, India” dated: 01-07-2016, under DST Sponsored Project Organized by National Institute of Hydrology in collaboration with TERI (Bengaluru) & VTU (Belagavi).
6. One week training program on “ERDAS Image and Visual MODFLOW software”, at VTU – PG Centre Belagavi, 3rd to 8th August 2015.
7. One day workshop on “SWAT-Hydrological Modelling” at VTU –PG Centre Belagavi, on 21 August 2015.
8. One day workshop on “Rainwater Harvesting Interactive Techniques and Strategies” organised jointly by Karnataka State Council for Science and Technology and VTU, Belagavi on 2nd July 2015, held at VTU, Regional Centre, Kalaburagi.
9. One week workshop on “ Geospatial Technology for Planning & Management” at VTU, Belagavi. Partially Funded by KSCST, Bangalore & VTU Belgavai. September 16-20, 2014.