

Dr. RAJAT KUMAR PANDA

D.O.B – 01/08/1982

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Teaching Experience

1. Working as Research associate in the project LU/LC classification in “SAGE , (Mumbai)” since Feb 2021 till date.
2. Worked as an Assistant professor in Jigjiga University (Ethiopia), Water Resources and Irrigation Engineering since Sept-2019 to Oct- 2020.
3. Experience of 3 years as an Asst. Professor in Diredawa University (Ethiopia), Civil Engineering Department since Sept 2016-July 2019.
4. 10 months of experience as Asst. Professor in SB Patil college of Engineering, Indapur, Pune (India) in Civil Engineering department since Dec 2015- Sept 2016.

Research experience (completed)

- Dr. Rajat K. Panda, Tesfu Abebe, Uday Kumar (2020). “Assessment of Baseline Survey for reduction of water quantity of Elbahay Dam”. Funded by Water bureau , Jigjiga, conducted as part of Jigjiga University. (Estimated cost of -250,000 Birr).
- Improving the practice of solid waste management in Diredawa city, Ethiopia. (2019)
- Assessment of water supply in Diredawa city, Ethiopia.(2018)
- Worked on the preparation of Land use and Land cover change study on Sheila study area, India(2008)
- Worked for three months in a NRSA sponsored project entitled “Urban planning and Management in Salem City Corporation using Remote Sensing and GIS”.(2006)

Fellowships

ETH Swiss Federal Institute of Technology Zurich fellowship

International Winter School

Jan 3-27, 2015

Zurich, Switzerland

- Presented a project on water allocation for food and ecosystem health in the Yanqi basin in China,

IGCS (DAAD) fellowship

International Summer School

May 25-June 10, 2015

Kiel, Germany

- Prepared a project on “Sustainable water management in Rural Landscapes using SWAT”.

BSRS Fellowship

International Summer School

June 15-27, 2015

Bergen, Norway

- Participated in the course designed for “Future energy Landscapes” and gave a presentation on Hydro-power energy status in India.

Education

IIT Bombay

Doctorate of Philosophy (CGPA: 7.5/10)

Feb, 2016

- **Dissertation:** *Water availability and demand assessment of Ghataprabha river basin*

Bharathidasan University (Geohydroinformatics using GIS)

M.Tech (CGPA: 7.8/10)

Aug 31, 2006

Geology Department

Trichy, India (IIRS, Dehradun)

- **Thesis:** *Ground water prospecting in part of Giri Valley, Himachal Pradesh; A remote sensing and GIS approach.*

Berhampur University (Khallikote College)

M.Sc (Percentage 74.8/100)

Geology Department

Research Experience

Research Associate

¹ May--Nov, 2015. IIT Bombay

² Dec-2006-Mar 2010, IIT Bombay

- Water availability and Demand assessment of Ghataprabha river basin
- Development of drought vulnerable indices for preparedness and mitigation.

Workshop/ Training

- 1 day Virtual webinar on Earth Observation satellites for Social, Environmental and Economic Studies organized by Suresh Gyan Vihar University (26 Sep, 2020.)
- Three day's workshop on Introductory and advanced SWAT workshop organized at Indian Institute of Technology Madras (Dec 30,2013 to Jan 3,2014).
- One-week training program on basics of remote sensing and GIS with SWAT at NIH Roorkee (2013).

- Workshop on Aquifer mapping organized by Centre for Technology Alternatives for Rural Areas, IIT Bombay (2012)
- International conference on snow and Avalanche studies held in the Center of studies in Resources Engineering, IIT Bombay. (2008)
- National workshop on “Resource mapping using GIS, GPS and Remote Sensing “held in the Department of Geography (School of Earth Science), Bharathidasan University, Tiruchirappalli. (2006)
- Two days workshop on “NRDMS Related Spatial Technology for Development Planning “held in the department of Remote sensing, Bharathidasan University, Tiruchirappalli. (2006)

Research interest & Skills

Interests:

- Large scale hydrologic modelling
- Analysis of extreme events including droughts and floods
- Water security
- Application of Remote Sensing data and land surface models to understand the hydrologic changes
- Effect of urban growth on the streamflow.

Skills:

- Remote sensing data analysis using ERDAS Imagine and ENVI for multispectral data like LANDSAT and IRS
- Data analysis using ARCGIS
- Land surface hydrologic modelling with SWAT model.

Handled subjects (B.Sc)and M.Sc

- Applied Hydrology
- Remote sensing and GIS
- Groundwater Hydrology
- Environmental Engineering (water treatment)
- Open channel
- Hydraulics
- Geology
- Disaster Management (Drought, flood)

Publications

- ***Panda, R.K., Nagarajan, R. (2021) “Land use/ cover classification and accuracy assessment of Ghataprabha river basin using Remote sensing and GIS. International conference on geospatial science for digital earth observation (GSDEO), March 26-27.”***

- **Panda, R.K., Nagarajan, R. (2013)** “Prioritization of Sub basins of Ghataprabha River Using Morphometric Parameters”. *International Journal of Geomatics and Geosciences* (III)-3, ISSN 0976-4380, PP. 605-617.
- **Panda, R.K., Nagarajan, R. (2013)** “Sustainable water-based growth potential of Villages – a Geospatial Approach”. Proceedings - *Internal conference on Water, Waste water & Isotope Hydrology*. Bangalore University
- **Panda, R.K., Nagarajan, R.(2013)**”Evaluation of Rainfall trend in Ghataprabha River Basin” *International Scientific Conference on Engineering and Applied Sciences*”, Japan.

Reference

I.	Prof. R.Nagarajan	II.	Prof. G.Venkatraman	III.	Prof. M.V.Khire
	CSRE		CSRE		CSRE
	IIT Bombay		IIT Bombay		IIT Bombay
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