

## **CURRICULUM VITÆ**

**Dr. KOMAL KUMARI**

**Assistant Professor**

**BIT Sindri, Dhanbad**

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### **CAREER OBJECTIVE:**

To synergize my skills and experience with the objectives of the organization.

### **ACADEMIC QUALIFICATIONS:**

SI. NO.	QUALIFICATION	BOARD/COLLEGE	DIVISION	% / CGPA	YEAR
1.	Ph.D.	IIT KHARAGPUR	24-02-2022		
2.	M.Tech (Hydraulics and water resources engineering)	IIT KHARAGPUR	1 <sup>ST</sup>	9.13	2012
3.	B.E (Civil Engg)	M.I.T Muzaffarpur	1 <sup>ST</sup>	80.77	2010
4.	INTERMEDIATE	J.A.C Ranchi, Jharkhand	1 <sup>ST</sup>	67.22	2004
5.	MATRICULATION	J.S.E.B Ranchi, Jharkhand	1 <sup>ST</sup>	67.67	2002

### **RESEARCH AREAS:**

- Surface Water and Groundwater Interaction at Regional Scale
- Optimization in Water Resources Systems

### **RESEARCH PROJECTS COMPLETED:**

- Ph.D. Project on “Coupled Analytic Element-Finite Volume based Simulation of Groundwater-Surface Water Interaction for Canal Command Systems” under the guidance of Dr. Anirban Dhar, Associate Professor, IIT Kharagpur.

- Worked as SRF on Project “Efficiency Study of Damodar Left Bank Irrigation System” Sponsored by Ministry of Water Resources (MoWR).
- M.Tech Project Work on “Groundwater monitoring network design using Fuzzy Kalman Filtering Theory” under the guidance of Dr. Anirban Dhar, Associate Professor, IIT Kharagpur.

## WORKING EXPERIENCE:

### Total Work experience of Over 6 years in Academics

- Currently working as Assistant Professor (Regular) in B.I.T Sindri since 11-01-2022
- Worked as an Assistant Professor under **TEQIP III** Project (Funded by MHRD and World Bank) in Ramgarh Engineering College, Ramgarh, Jharkhand (from **04-01-2018** to **30-09-2021**).
- Worked as SRF in a Project Sponsored by Ministry of Water Resources (MoWR) at IIT Kharagpur from **10-05-2012** to **02-11-2014**

## LIST OF PUBLICATIONS

Journal Papers	<ul style="list-style-type: none"> <li>• “Space-Time Forecasting of groundwater level using hybrid soft computing Model”, 2016, Hydrological sciences Journal, 62(4). DOI: <a href="https://doi.org/10.1080/02626667.2016.1252986">https://doi.org/10.1080/02626667.2016.1252986</a></li> <li>• “Computationally Efficient Approach for identification of fuzzy dynamic groundwater sampling network”, 2019, Environmental Monitoring and Assessment,191(310). DOI: <a href="https://doi.org/10.1007/s10661-019-7467-3">https://doi.org/10.1007/s10661-019-7467-3</a></li> <li>• “Analytic Element-Finite Volume Based Coupled Groundwater-Surface Water Interaction model for Canal Command Systems”, 2023, Water Resources Management, DOI: <a href="https://doi.org/10.1007/s11269-023-03494-0">https://doi.org/10.1007/s11269-023-03494-0</a></li> </ul>
Book Chapter	<ul style="list-style-type: none"> <li>• “Groundwater Management using Coupled Analytic Element based Transient Groundwater flow and Optimization Model”, 2020, in book titled “Nature Inspired Methods for Metaheuristics Optimization” in Springer Nature. DOI: <a href="https://doi.org/10.1007/978-3-030-26458-1_8">https://doi.org/10.1007/978-3-030-26458-1_8</a></li> </ul>
Conference Papers	<ul style="list-style-type: none"> <li>• “Analytic Element based Regional Scale Groundwater Modeling and Management” in HYDRO 2015 held at IIT Roorkee.</li> <li>• “Regional Scale Groundwater Flow Modeling for Damodar Left Bank Canal Command Area” in HYDRO 2019 held at Osmania University, Hyderabad.</li> </ul>

### Accomplishments / Certifications:

- Qualified **GATE** 2010 with All India Rank 907 (in 4<sup>th</sup> year of Bachelor of Engineering).
- Awarded SRF fellowship by MoWR from 10-05-2012 to 02-11-2014.

### Workshop/Seminar/FDP/PDT Attended:

Sl. No.	Workshop /Training/ FDP /PDT	Topic	Place	Duration	
1.	Workshop	Mining Projects with Geosynthetics	CED, BIT Sindri, Dhanbad	10.04.24-10.04.24	01 day
2.	Workshop	State Level Interactive Workshop to Improve Research Ecosystem in Technical Higher Education Institutions of Jharkhand	Ranchi, Jharkhand	01.02.24- 02.02.24	02 days
3.	FDP	Faculty Development Training on Entrepreneurship	BIT Sindri, Dhanbad	05.07.23- 15.07.23	10 days
4.	FDP	Data Science and Machine Learning using Python for Beginners	BIT Sindri and NIT Patna	19.09.22- 28.09.22	10 days
5.	FDP	Service regulations for employees	BIT Sindri, Dhanbad	15.02.22- 19.02.22	05 days
6.	PDT	7th Professional Development Training Program under TEQIP-III	IIM Kashipur	23.09.19- 27.09.19	05 days
7.	Training	Summer Training Program on Advanced Pedagogy	IIT Gandhinagar	10.06.19- 14.06.19	05 days
8.	Workshop	TEQIP-III Faculty Induction Workshop	IIT Kharagpur	06.02.18- 10.02.18	05 days

## Workshops/Events Co-ordinated

Sl. No.	Workshop /Training/ FDP /PDT	Topic	Organizer	Duration	
1.	Workshop	Mining Projects with Geosynthetics	CED, BIT Sindri, Dhanbad	10.04.24-10.04.24	01 day
2.	Workshop	State Level Interactive Workshop to Improve Research Ecosystem in Technical Higher Education Institutions of Jharkhand	DHTE, Jharkhand	01.02.24- 02.02.24	02 days
3.	FDP	Faculty Development Training on Entrepreneurship	BIT Sindri, Dhanbad	05.07.23- 15.07.23	10 days

## Details M. Tech Projects Guided:

Sl. No.	Name of Student	Title of Project	Status	Year
1.	Vikash Kumar Saurav	Stabilization Of Soil Using Coir Fiber	Completed	2023
2.	Ashutosh Kumar Roy	Concrete Mix Design By Partial Replacement Of Cement With Rice Husk Ash	Completed	2023
3.	Irfan Hussain	Effect of Nano Silica On compressive Strength of Concrete	Ongoing	Expected to complete by July 2024
4.	Sudhanshu Kumar Anand	Stabilization of Clay Soil with Aluminium Foil	Ongoing	Expected to complete by July 2024

## Soft Skills:

- C, Python, MATLAB
- AUTO CAD, Solid works, ArcGIS, Surfer
- GMS (Groundwater Modeling Software)

## REFERENCES:

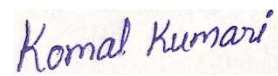
1. **Dr. Anirban Dhar**, Associate Professor, Department of Civil Engineering, IIT Kharagpur, Kharagpur (721302), Email- [anirban@civil.iitkgp.ernet.in](mailto:anirban@civil.iitkgp.ernet.in), Ph- 9434147950.
2. **Dr. R. P. Sharma**, Professor (Ramgarh Engineering College, Ramgarh), Ex-Director (BIT Sindri, Dhanbad), Email: [rpsharma99@gmail.com](mailto:rpsharma99@gmail.com), Ph- 9431123439.

### **Declaration**

*I hereby declare that the above information furnished is true to the best of my knowledge.*

Date: 20.06.2024

Place: Sindri, Dhanbad



**Komal Kumari**