

CURRICULUM VITAE

Dr. RAHUL KUMAR

Assistant Professor

Department of Electrical Engineering

B.I.T Sindri

Dhanbad, Jharkhand, India

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OBJECTIVE:

To utilize my teaching skills towards a challenging career in growth oriented and leading edge that will provide mutual benefits and where from I can utilize my capabilities to the fullest benefits of the organization and society. I will try my best to make judgment to my work by putting my best effort into it.

ACADEMIC PROFILE

Course	Institution	Board/University	Year of Passing	Percentage /CGPA
Ph.D. (Power Electronics & Machine Drives)	IIT (ISM), Dhanbad Jharkhand	IIT(ISM), Dhanbad Jharkhand	November, 2020	NA
M. Tech. (Power System)	B.I.T, Sindri Jharkhand	Vinoba Bhave University, Hazaribag, Jharkhand	2014	8.55
B. Tech. (Electrical & Electronics Engg.)	R.V.S.C.E.T, Jamshedpur, Jharkhand	Ranchi University, Ranchi, Jharkhand	2010	8.1
12TH	Saraswati Vidya Mandir, Sindri	C.B.S.E	2004	71%
10th	Saraswati Vidya Mandir, Sindri	C.B.S.E	2001	81%

EXPERIENCE

- **Assistant Professor** in B.I.T Sindri, from December, 30th 2022 to till date.
- **Assistant Professor** in Dumka Engineering College, Dumka, Jharkhand, from October, 4th 2021 to December, 29th 2022.
- **Assistant Professor** in Bharat Institute of Engineering and Technology, Hyderabad, from June, 13th 2019 to July, 21st 2020.

PH.D. THESIS TOPIC

- Model Reference Adaptive System Based Sensorless Speed Control of Doubly-Fed Induction Machine Drive under Different Control Regimes.

M. TECH THESIS TOPIC

- Transient Stability of a Two Machine Transmission System with Static Var Compensator (SVC) And Power System Stabilizer(PSS) using MATLAB /Simulink.

RESEARCH AREA

- Power Electronics and Machine Drives.
- Renewable Energy.

PUBLICATIONS

International Journals Published

- MD Adil, Upendra Prasad, **Rahul Kumar** “Modified Bidirectional Grid Connected Single Power Conversion Converter with Hybrid Input Battery Voltage” *Design Engineering*, vol. 9, pp-17519- 17529, 2022.
- **R. Kumar** and S. Das “Model Reference Adaptive System Based Sensorless Speed Control of Grid-Connected Doubly-Fed Induction Generator in Wind Energy Conversion System,” *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*, vol.44, pp-129–140, 2020.
- Upendra Prasad, Ravindra Kumar Yadav, **Rahul Kumar** “Speed Control of Three-Phase Induction Motor Using Switching Table-Based Direct Torque Control Technique” *IJARET, IAEME Publication*, vol. 11, pp-296-304, 2020.

- **R. Kumar**, S. Das and A. Bhaumik, “Speed sensorless model predictive current control of doubly-fed induction machine drive using model reference adaptive system,” *ISA Transactions*, vol. 86, pp. 215-226, 2019.
- **R. Kumar** and S. Das, “MRAS-based speed estimation of grid connected doubly-fed induction machine drive,” *IET Power Electronics*, vol. 10, no. 7, pp. 726–737, Jan. 2017.
- **Rahul Kumar**, Shashi Minz “Transient Stability of a Two Machine Transmission System With Static Var Compensator (Svc) And Power System Stabilizer (Pss) Using Matlab Simulink” *VSRD International Journals*, vol.-3, pp- 379-382, 2013.

International Journal under Consideration

- **R. Kumar** and S. Das “Space-Vector Modulation based Sensorless Direct Torque Control Scheme for Doubly- Fed Induction Machine Drive,” *EPE Journal: European Power Electronics and Drives*, Under review.

International Conferences

- **R. Kumar**, S. Das, and M. Manohar “Sensorless Control of Grid-Connected Doubly-Fed Induction Machine Drive using Model Reference Adaptive Controller,” 2016 *IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics Engineering (UPCON)*, IIT(BHU), Varanasi, India, 09 -11, December, 2016.
- **R. Kumar**, and S. Das, “Sensorless DTC-SVM Strategy for Doubly-Fed Induction Machine Drive using Model Reference Adaptive System,” *14th IEEE India Council International Conference (INDICON)*, IIT Roorkee, India, 15- 17 December, 2017.
- M. Manohar, S. Das and **R. Kumar**, “A robust current sensor fault detection scheme for sensorless induction motor drive,” *IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC)*, Bangalore, India 08-10 November 2017.

SUBJECT TAUGHT

- Power Semiconductor Drive
- Power Electronics
- Electrical Machine
- Circuit Theory
- Utilization of Electrical Power

TRAININGS

- To study the generation & distribution of power at **Patratu Thermal Power Station**, Patratu, Jharkhand, India, from 16th Sep. 2009 to 15th Oct. 2009 (B. Tech level).
- To study the different equipment's used in **Grid operation division** at **Chandil**, Jharkhand, India, from 28th Dec. 2009 to 28th Jan. 2010 (B. Tech level).

WORKSHOP, FACULTY DEVELOPMENT PROGRAM AND SEMINAR ATTENDED

- Workshop on “**Advanced Power Electronics and Drives**”, Department of Electrical Engineering, IIT (ISM), Dhanbad, India, 2010.
- Workshop on “**Professional Skill Development Program on MATLAB & Simulink for Engineering Application**”, Department of Electrical Engineering, IIT(ISM) Dhanbad, India, 2014.
- Workshop on “**Industrial Automation with Emphasis on PLC & SCADA**”, Department of Electrical and Electronics Engineering, BIET, Hyderabad, India, November, 2019.
- Participated in the AICTE Recognized **Faculty Development Programme On Climate Change and Disaster Management Conducted by Rural Development Department** from 10-02-20 to 14-02-20 (One Week) organized by **NITTTR**, Chandigarh.
- Participated in one week online FDP on “**SCILAB- An Open Source Substitute for MATLAB**” jointly organized by JNTUH College of Engineering, Sultanpur, and Spoken Tutorial Project, IIT, Bombay from 25th May, 2020 to 30th May, 2020.
- Participated in 5-day online FDP on “**NBA and NAAC Accreditation**” organized by Internal Quality Assurance Cell (IQAC), M S Ramaiah Institute of Technology under Margdarshan Scheme from 4th-8th June 2020.
- Participated in 5-day online FDP on “**Recent Innovations and Technologies in Electric Vehicles**” from 8th-12th June 2020, organized by GATES Institutes of Technology, Andhra Pradesh.
- Participated in one week online FDP on “**Course Structuring, Teaching and Evaluation in HEI as per OBE**” organized by Malla Reddy College of Engineering, Hyderabad in association with ISTE and MHRD from 11th -17th June 2020.
- Participated in One Day Webinar on “**Issues and Challenges in Wind Power Grid Integration**” on 30th June 2020 Organized by Siddhartha Institute of Engineering and Technology, Hyderabad.

- Participated in International webinar on “**How to get Research Grant for UGC, AICTE**” jointly hosted by MBITS and SMBS, Kerala, India.

EXTRA CURRICULAR ACTIVITIES:

- Worked as a **HOD** in Dumka Engineering College (ESTD. By Govt. of Jharkhand & Run By Techno India Under PPP) for **NBA & NAAC**.
- Worked as a **Lab In-charge** for the Network Theory Lab in Dumka Engineering College (ESTD. By Govt. Of Jharkhand & Run by Techno India Under PPP).
- **Coordinator** for conducting One day International Seminar (Online) in “**Performance and Economic Analysis of Hydrogen based Fuel Cell with Photovoltaic Tracking System**” on 14th February 2022, Organized by Department of Electrical Engineering, Dumka Engineering College (ESTD. By Govt. Of Jharkhand & Run by Techno India Under PPP).
- **Coordinator** for conducting Three-Day National Level Workshop on "**Cutting Edge Technologies for Electrical Engineering**" from 10th to 12th March, 2022. Organized by Department of Electrical Engineering, Dumka Engineering College (ESTD. By Govt. Of Jharkhand & Run by Techno India Under PPP).
- Worked as a **Lab In-charge** for the Network Theory Lab in Dumka Engineering College (ESTD. By Govt. Of Jharkhand & Run By Techno India Under PPP).
- Worked as an **Academic In-charge** for the department of EEE in Bharat Institute of Engineering and Technology, Hyderabad.
- Worked as a **Renewable Energy College Level In-charge** in Bharat Institute of Engineering and Technology, Hyderabad.
- Worked as a **Lab In-charge** for the Simulation Lab in Bharat Institute of Engineering and Technology, Hyderabad.
- Department level In-charge for Criterion-2 for **NAAC** assessment.
- **Convener** for conducting a One Week Online Faculty Development Program on **Challenges & Opportunities in Electrical Engineering - A Research Perspective** from 15th to 20th June - 2020 Organized by the **Department of Electrical and Electronics Engineering**, Bharat Institute of Engineering and Technology (**BIET**).
- **Convener** for conducting a One Week Online Faculty Development Program on **Recent Advances in Electrical Engineering** from 22nd to 27th June-2020, Organized by the **Department of Electrical and Electronics Engineering**, Bharat Institute of Engineering and Technology (**BIET**), Hyderabad.

- **Organized** a series of webinar on “Coal-Based Power Generation-The Future Scenario, Talk on EHV Circuit breakers & Electrical Engineering in Industry” in Bharat Institute of Engineering and Technology, Hyderabad on 25th, 27th and 29th June, 2020.

SKILLS

- Programming: C, C++, MATLAB, LATEX.
- Simulation Tools MATLAB, PSPICE, Proteus (PCB circuit design).
- Application of dSPACE for real-time code generation.

PERSONAL DETAILS

Date of Birth	: 05-09-1985
Mother's Name	: Binota Devi
Father's Name	: Gora Chand Mahto
Marital Status	: Married
Languages Known	: Hindi, English & Bangla
Address	: Vill- Chitahi, Post- Motinagar, Sindri, Dist.-Dhanbad, Jharkhand, Pin-828120.
Mob. No.	: 8936011950, 8789174259

REFERENCES

Prof (Dr.) Upendra Prasad

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Dr. Murli Manohar

Assistant Professor
Department of Electrical Engineering,
B.I.T, Sindri, Dhanbad
Email: murlimanohar2012@gmail.com

DECLARATION

I hereby declare that the above-mentioned particulars are true to the best of my knowledge and belief.

Date: January, 2023

Place: B.I.T Sindri, Dhanbad, Jharkhand


Rahul Kumar

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