

## Dr. Rohit Kumar

Assistant Professor,  
Electrical Engineering Department,  
National Institute of Technology, Uttarakhand  
Email: rohitkumarnit3010@gmail.com, rohit.kumar@nituk.ac.in



### Professional Background

Organization	Duration	Total Years	Designation
NIT Uttarakhand	12 <sup>th</sup> Oct 2021-Present	2 Years 4 months	Assistant Professor
NIT Uttarakhand	3 <sup>rd</sup> July 2015-11 <sup>th</sup> Oct 2021	6 Years 3 months 8 days	Trainee Teacher

### Academic Details

Degree	Year	Institute	University/Board	Pointers/Percentage
Ph.D.	2017-2021	Indian Institute of Technology, Roorkee	Indian Institute of Technology, Roorkee	-
M.Tech.	2015-2017	Indian Institute of Technology, Roorkee	Indian Institute of Technology, Roorkee	8.01
B.Tech.	2011-2015	National Institute of Technology, Patna	National Institute of Technology Patna.	9.10
12 <sup>th</sup> Board	2011	Anugrah Narayan College, Patna	B.S.E.B.	70.4%
10 <sup>th</sup> Board	2009	A.V.N. English School, Patna	C.B.S.E.	90.4%

### Hobbies

Playing Chess, watching movies and listening to music.

### Central Administrative Duties

S.N.	Duty	Duration
1.	Assistant Registrar, Research and Consultancy Section	Feb 2023-till date
2.	2 <sup>nd</sup> Convocation (Member)	2021
3.	Training and Placement cell (Member)	1 Year 4 months (July 2019- Nov 2020) and (2 <sup>nd</sup> Nov. 2021-Present)
4.	MHRD Related and Technical Activities, Satellite Campus (Member)	4 Months (June 2020-Nov 2020)

5.	Technical Club, Satellite Campus (Coordinator)	Technical Club, Satellite Campus (Coordinator)
6.	Security and Outsource Manpower, Satellite Campus (Member)	1 year (June 2019-June 2020)
7.	Technical Club (Member)	2 years (Aug 2016-Aug 2018)

### Deaprtmental Duties

S.N.	Duty	Duration
1.	Faculty Advisor (B.Tech. 2021 Batch)	Dec 2021-Present
2.	Faculty Advisor (B.Tech. 2016 Batch)	1.5 Years (Jan 2019- July 2020)
3.	Faculty Advisor (M.Tech. 2017 Batch)	1.5 Years (July 2017-Dec 2018)
4.	Lab-Incharge (Electrical Machine Lab)	Jan 2021- Present
5.	Grade Moderation Committee	July 2021- Present
6.	TR verification (Member)	July 2018-July 2019 July 2021-Present
7.	B.Tech. Degree Committee (Member)	July 2019-July 2020
8.	Examination In-charge (Coordinator, Satellite Campus)	July 2019-July 2020
9.	Committee for Literature Review Paper Writing (Member)	July 2018- July2020
10.	Committee for B.Tech. Project (Member)	July 2018-July 2020
11.	Lab-Incharge (Electrical Workshop Lab)	July 2017-July2018

### List of Publications

1. Rohit Kumar and Mukesh K. Pathak, "Distributed droop control of dc microgrid for improved voltage regulation and current sharing", IET Renewable Power Generation, Volume 14, Issue 13, 05 October 2020, p. 2499 – 2506, <https://doi.org/10.1049/iet-rpg.2019.0983> (Journal).
2. Rohit Kumar and Mukesh K. Pathak, "Bidirectional PWM Converter to Interface AC Part to DC Microgrid with Neutral Potential Balancing", IETE Journal of Research, 2024, DOI: 10.1080/03772063.2023.2299671 (Journal)
3. Rohit Kumar, "The Distributed Secondary Controller for DC Microgrid with Energy Storage System", Iranian Journal of Science and Technology, Transactions of Electrical Engineering. (Journal, Under Review)
4. Rohit Kumar and Mukesh K. Pathak, "Control of DC Microgrid for Improved Current Sharing and Voltage Regulation," 2020 3rd International Conference on Energy, Power and

*Environment: Towards Clean Energy Technologies*, 2021, pp. 1-4, doi: 10.1109/ICEPE50861.2021.9404421 (Conference).

5. Jayant Kumar, Rahul Kumar and Rohit Kumar, "Grid Interfacing for DC Microgrid using Three Level Diode Clamped Inverter by SVPWM Technique," *2022 2nd International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET)*, Patna, India, 2022, pp. 1-6, doi: 10.1109/ICEFEET51821.2022.9848053 (Conference).
6. Rajendra K. Prajapati, Rahul Kumar and Rohit Kumar, "Investigation on Photovoltaic Cells with Battery Integration," *2023 International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3)*, Srinagar Garhwal, India, 2023, pp. 1-6, doi: 10.1109/IC2E357697.2023.10262532 (Conference).
7. Rohit Kumar, "The DC Microgrid with Energy Storage System," *2023 IEEE Workshop on Power Electronics and Power Quality Applications (PEPQA)*, Cali, Colombia, 2023, pp. 1-6, doi: 10.1109/PEPQA59611.2023.10325769 (Conference).

#### **Reviewer in a professional body**

- Mathematical Problems in Engineering, Hindawi (International Journal)
- IETE Journal of Research, Taylor and Francis (International Journal)
- IET Electrical Systems in Transportation (International Journal)

#### **Declaration**

I hereby declare that above-mentioned information is correct to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

**Dr. Rohit Kumar**