

# Dr. Subash Ranjan Kabat

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## PERMANENT ADDRESS:

**Subash Ranjan Kabat**  
S/O: Jagabandhu Kabat  
At: Bagurai  
Po- Madhab Nagar  
Dist: Bhadrak  
State: Odisha  
Pin: 756181



## CAREER OBJECTIVE:

To secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills. Secure a responsible career opportunity to fully utilize my training and skills, while making a significant contribution to the success of the organization.

## ACADEMIC QUALIFICATION:

Discipline	Institution	Board/University	Year of Passing	% of Marks/CGPA	Class
Ph.D. (Fault Ride Through Technique for Grid Connected Double Fed Induction Generator (DFIG))	School of Electrical Engineering, KIIT Deemed to be University, Bhubaneswar, Odisha	KIIT Deemed to be University, Bhubaneswar, Odisha	2022	-	-
M. Tech. (Power System)	Veer Surendra Sai University of Technology, Burla, Odisha	Veer Surendra Sai University of Technology, Burla, Odisha	2011	8.30	1 <sup>st</sup>
B. Tech. (Electrical Engineering)	Bhadrak Institute of Engineering and Technology, Bhadrak, Odisha	Biju Patnaik University of Technology, Rourkela, Odisha	2006	71.56	1 <sup>st</sup>

## WORK EXPERIENCE:

Employer	Designation	Period of Employment	
		From	To
RITE, Bhubaneswar	Assistant professor/HOD	Jan 2017	Cont...
Raajdhani Engg College, Bhubaneswar	Assistant Professor	July 2016	Jan 2017
Vikash Institute of Technology, Bargarh	Assistant Professor	Feb 2011	July 2016
PKACE, Bargarh	Lecturer	Aug 2006	July 2009

### **JOURNAL PUBLICATIONS/ CONFERENCE PROCEEDINGS:**

1. **Kabat, S. R.**, Panigrahi, C. K., & Ganthia, B. P. (2021). Fuzzy Logic Based Fault Current Prediction in Double Fed Induction Generator Based Wind Turbine System. *Materials Today: Proceedings*.
2. **Kabat, S. R.**, Jayashree, D., Venkatesan, K. G. S., & Venkata, H. B. (2021). Non-intrusive load monitoring technique using deep neural networks for energy disaggregation. *Materials Today: Proceedings*.
3. **Kabat, S. R.**, Panigrahi, C. K., & Kumar, A. (2021, February). Computationally Fast Particle Swarm Optimization Power System Stabilizer Design for Interconnected Multimachine Power System. In *2021 7th International Conference on Electrical Energy Systems (ICEES)* (pp. 496-501). IEEE.
4. **Kabat, S. R.**, & Chinmoy Kumar Panigrahi, B. (2021). Fuzzy Logic and Synchronous Reference Frame Controlled LVRT Capability Enhancement in Wind Energy System using DVR. *Turkish Journal of Computer and Mathematics Education (TURCOMAT)*, 12(6), 4899-4907.
5. Mohapatra, B. K., Gupta, D. K., Panigrahi, C. K., & **Kabat, S. R.** (2022). Congestion Management in the Deregulated Market: A Brief Survey. *Innovation in Electrical Power Engineering, Communication, and Computing Technology*, 1-10.
6. Jayakumar, N., Vighneshwari, B. D., Mohanty, M., **Kabat, S. R.**, Ganthia, B. P., Rani, N. C., & Kannan, L. V. (2021). Cascade H Bridge Multilevel Inverter with Pwm for Lower Thd, Emi & Rfi Reduction. *Annals of the Romanian Society for Cell Biology*, 25(6), 2972-2977.
7. **Kabat, S. R.**, Panigrahi, C. K., Ganthia, B. P., Barik, S. K., & Nayak, B. (2022). Implementation and Analysis of Mathematical Modeled Drive Train System in Type III Wind Turbines Using Computational Fluid Dynamics. *Advances in Science and Technology Research Journal*, 16(1), 180-189.
8. Banik, A., Ranga, J., Shrivastava, A., **Kabat, S. R.**, Marthanda, A. V. G. A., & Hemavathi, S. (2021, November). Novel Energy-Efficient Hybrid Green Energy Scheme for Future Sustainability. In *2021 International Conference on Technological Advancements and Innovations (ICTAI)* (pp. 428-433). IEEE.
9. **S. Kabat** and C. Panigrahi, "Power Quality and Low Voltage Ride Through Capability Enhancement in Wind Energy System Using Unified Power Quality Conditioner (UPQC)", *ECS Transactions*, vol. 107, no. 1, pp. 5655-5662, 2022. Available: 10.1149/10701.5655ecst.
10. **Kabat, S. R.**, & Panigrahi, C. K. (2021). Improvement of Low Voltage Ride through Using Power System Stabilizer for Wind Energy Conversion System-A Review. *Design Engineering*, 1485-1496.

### **BOOK PUBLICATIONS**

1. **Subash Ranjan kabat**, et. al., "Self-Resilient Electricity Sector Sustainable Smart Grid" INSC International Publisher (IIP), 2021, ISBN- 9781956102796, published on 18/09/2020.
2. **Subash Ranjan kabat**, et. al., "Handbook on Installation Commissioning and Testing of Electrical Substation" Blue Hill Publication, 2021, ISBN- 9789392929250, published on 12/06/2021.

### **PATENTS:**

3. **Subash Ranjan kabat**, et. al., "IOT Integrated Water Purifier with Ozone Generator" Indian Patent Application Number 202031037257, published on 18/09/2020.
4. **Subash Ranjan kabat**, et. al., "Artificial Intelligence Based Fire Fighting Robot with Smart Sensors" Indian Patent Application Number 202031041836, published on 16/10/2020.
5. **Subash Ranjan kabat**, et. al., "IOT Enabled and timely Reminder Smart Medicine Box" Indian Patent Application Number 202031048659, published on 11/12/2020.

6. **Subash Ranjan kabat**, et. al., “A Novel Robotic Process Automated Patient Carrier for Operation Theatre” Indian Patent Application Number 202031050942, published on 11/12/2020.
7. **Subash Ranjan kabat**, et. al., “Wearable and Smart Phone Coupled Women Safety Device” Indian Patent Application Number 202031051817, published on 11/12/2020.
8. **Subash Ranjan kabat**, et. al., “Modified Rotor for Wind Turbine to Enhance the Efficiency” Indian Patent Application Number 202031056823, published on 05/02/2021.
9. **Subash Ranjan kabat**, et. al., “Fuzzy Logic Based Fault Current Prediction in Double Fed Induction Generator Wind Turbine” Indian Patent Application Number 202131007726, published on 12/03/2021.

**Seminar/ FDP/ Workshop/ Short Term Training Programme/ Conference:**

1. Attended FDP on “**Introduction to MATLAB and its application in Engineering**” held from 16th March to 18th March 2012 at Trident Academy of Technology, Bhubaneswar.
2. Attended FDP on “**Entrepreneurship Development**” held from 19th December to 30th December 2016 at Utkal University, Bhubaneswar.
3. Participated in a TEQIP-III Sponsored One Week Online Faculty Development Programme on “**Recent Advances in Renewable Energy Integration to Modern Power System (RAREIMPS-2020)**” held during the period of 30th September 2020 to 4th October 2020 Organized by Department of Electrical Engineering (NBA Accredited), Government College of Engineering Kalahandi, Bhawanipatna.
4. Participated in 4 Day Online Faculty Development Program on “**Challenges and Opportunities of Energy and Sensor Applications**”, during 23rd - 26th Sept., 2020, organised by Department of EEE, JNTUACEA under TEQIP – III.
5. Participated and successfully completed TEQIP-III sponsored one week Faculty Development Programme on “**IOT:Recent Advancements and Applications(IRAA-2020)**” organized by VSSUT, Burla from 15<sup>th</sup>-19<sup>th</sup> September 2020.
6. Participated in 4 Day Online Faculty Development Program on “**Challenges and Opportunities of Energy and Sensor Applications**”, during 23rd - 26th Sept., 2020, organised by Department of EEE, JNTUACEA under TEQIP – III.
7. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on “**Internet of Things (IoT)**” from 2020-9-7 to 2020-9-11 at Sri Sairam Institute of Technology.
8. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on “**Artificial Intelligence**” from 2020-9-14 to 2020-9-18 at Srinivasa Ramanujan Centre, SASTRA Deemed to be University.
9. Participated in the Two Days Faculty Development Programme on “**Transient Stability in Power System**” held from 11/09/2020 to 12/09/2020 at Jaipur Engineering College, Jaipur.
10. Participated in the one-week Faculty Development Programme on “**Green Energy: The Energy of Future (GEEF-2020)**” held from 07/09/2020 to 11/09/2020 at “Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur”.
11. Participated in the five day online faculty development programme on “**Mechatronics , Automation and Robotics**” organized by Department of Mechanical Engineering , SoE in association with IEEE Bombay section and AICRA during August 3-7 ,2020.
12. Participated in the five day online faculty development programme on “**Real Time Typhon HIL Simulation Applications for Power Systems Power Electronics based RES, Electric Vehicles & Microgrids**” organized by Department of Electrical and Electronics Engineering , Anurag University from 10<sup>th</sup> to 14<sup>th</sup> August ,2020.
13. Participated in two days’ workshop on “**Handling COVID-19 using AI/Machine Learning Techniques**” Organised by “Gandhi Institute for Education and Technology” Baniatangi, Bhubaneswar on 13th and 14th August 2020.

14. Participated in the One Week Short Term Training Program (Phase-1) on “**Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector**” organized by Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology (Autonomous) during 03rd-08th August 2020.
15. Participated the IEEE Webinar titled “**Advances in Current Fed Power Electronics Systems**” by Prof. Akshay Kumar Rathore, Concordia University, Montreal, Canada on 18th August 2020.
16. Attended Five days International virtual FDP on “**Upskilling for the future: Technical Innovations & Research Opportunities in Power Engineering**” organized by Department of Electrical and Electronics Engineering, BNM Institute of Technology from 10th to 14 August 2020.
17. Participated and successfully completed TEQIP-III Sponsored Five days Faculty Development Program on “**RENEWABLE POWER GENERATION, CONTROL AND GRID INTEGRATION**” RPGCGI 2020 organized by Department of Electrical Engineering, IGIT Sarang during 10th to 14th August, 2020.
18. Participated in TEQIP-III sponsored online Faculty Development Program on “**Recent Advances in Electronics and Communication Engineering (RAECE-2020)**” organized by Department of Electrical Engineering, Government College of Engineering Kalahandi, in association with Government College of Engineering, Jalgaon, Maharashtra, India from 17th to 21st Aug, 2020.
19. participated in One Week Online Short Term Training Program on “LabVIEW Programming & Its Applications” Organized by Department of Electronics and Telecommunication Engineering,DIEMS from 24th August to 29th August 2020.
20. participated in Five Days International Virtual Faculty Development Program on “**Education and Research Opportunities Abroad**” Organized by the Department of Electrical and Electronics Engineering, Tontadarya College of Engineering, Gadag. from 29th August to 2nd September, 2020.

#### **SUBJECTS TAUGHT:**

- Basic Electrical Engineering, network Theory, Electrical and Electronics Measurement, Electrical Machine, Electrical Power Transmission and Distribution, Power electronics, Renewable Energy System, Power System Operation and Control, Power System Protection, Smart Grid, Industrial Instrumentation, Wireless Sensor Network, Soft Computing, Signal Processing, AI and ML, IOT.

#### **LABORATORIES UNDERTAKEN:**

- Basic Electrical Engineering, Electrical Machine, Power System, Power Electronics, Control System, Electrical Simulation.

#### **PROFESSIONAL MEMBERSHIP:**

- Life time Membership of Indian Society of Technical Education (ISTE)
- Member of Solar Energy Society of India (SESI).
- Member of International Association of Engineers.
- Professional Member of “Institute for Engineering Research and Publication (IFERP)
- Life time member of Institute of Scholars (InSc)

#### **ADDITIONAL RESPONSIBILITIES:**

- Coordinator from the Department of Electrical Engineering during NAAC accreditation work at Radhakrishna Institute of Technology and Engineering.
- Convener of NAAC SSR Committee at RITE, Bhubaneswar.
- Organized and coordinated different **Technical Activities** at **RITE, Bhubaneswar.**
- Member of **Internal Quality Assurance Cell (IQAC)** at **RITE, Bhubaneswar.**
- Member of **NBA-SAR** preparation committee at **RITE, Bhubaneswar.**
- Coordinator of **Edu-Skill** training program at RITE, Bhubaneswar.

- Faculty coordinator of **Virtual Lab-IIT, Kharagpur** remote center at **RITE, Bhubaneswar**.

### **TECHNICAL SKILLS:**

Area of skill	Skill
Designing Software	ETAP
MATLAB	PSO, GSA, Simulink Design
Operating systems	MS-DOS, Windows 95/98/2000/XP
Application Software	MS Office, Ubuntu
Programming Languages	C, C++, Python,

### **PERSONAL DATA:**

Father's Name : Jagabandhu Kabat  
 Mother's Name : Gourilata Kabi  
 Date of Birth : 7<sup>th</sup> June 1983  
 Sex : Male  
 Nationality : Indian  
 Marital Status : Married

### **DECLARATION:**

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

Place: Bhubaneswar

Date: 03-06-2022

  
**Subash Ranjan Kabat**

### **References**

**Prof. (Dr.) Chinmoy Kumar Panigrahi**  
 Professor, Director, IQAC  
 School of Electrical Engineering  
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 Odisha, India-751024  
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**Prof. (Dr.) Manoj Kumar Panda**  
 Associate Professor ,  
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