Ankit Kumar Soni, *Ph.D.(Pursuing)*

Assistant Professor

School of Electrical Engineering
KIIT Deemed to be University, Bhubaneswar
Ankit.sonifel@kiit.ac.in

A BRIEF BIODATA

Ankit Kumar Soni completed his bachelor degree B.Tech from N.I.T. Raipur in 2013, after that he Joined Bajaj Thermal Power Plant Lalitpur-Jhansi as Assistant Engineer in 2014. He completed master degree M.Tech from IIT (ISM) Dhanbad in the year of 2017 with the specialization of Power system engineering. He joined KIIT Deemed to be a university in 2017 and currently working as Assistant Professor in the school of electrical engineering, he is also pursuing PhD degree from IIT(ISM) Dhanbad (with teaching assistant program).

His research interests include Renewable energy, Grid Connection of solar PV systems. Multilevel inverter, DC-DC converter topologies.

EDUCATION

IIT(ISM) Dhanbad - *Doctor of Philosophy (Pursuing)*

Aug 2019

IIT(ISM) Dhanbad - *Master of Technology*

JUL 2015 - JUN 2017

NIT, Raipur - *Bachelor of Engineering*

AUG 2009 - MAY 2013

EXPERIENCE

KIIT Deemed to be University, Bhubaneswar - *Assistant Professor*

JUL 2017 - PRESENT

Bajaj Thermal Electrical Power Plant lalitpur - *Assistant Engineer*

AUG 2014 - FEB 2015

ADMINISTRATIVE RESPONSIBILITY

- School level T&P member during Nov 2017-July 2019.

COURSES TAUGHT

- Electrical Machine and Power Electronics EE 2009
- Basic Electrical Engineering EE1003
- DC machine and Transformers EE2005
- Solar Power Technology EE3046
- Utilization of Electrical Power EE 3038
- Power System Operation Control EE3002
- Electrical Power Generation and Technology EE3040
- Solar Power Engineering EE4046

PROFESSIONAL & LEADERSHIP CONTRIBUTION

- Coordinate Solar GET Program with the collaboration industrial Experts during 2017 to 2019
- Coordinate High Voltage cable jointing program for Bhutan officers during 23-28 july 2018

SKILLS

- dSPACE
- Arduino programming with Matlab
- Matlab
- Typhoon HIL(RTI)

AWARDS

- NATIONAL BUDDING INNOVATOR AWARD – 2010": Won 1st Prize with award money of Rs. 1,00,000/- for designing "Self-Automated Solar Tracking Device" based on thermal gas expansion, in pertaining to green technology from National Research Development Corporation through Ministry of Science & Technology, Govt. of India.

PUBLICATIONS

PATENTS

1. Development of "Self-Automated Solar Tracking Device" based on thermal gas expansion, Patent application no. 1158/MUM/2012

JOURNALS

1. A. K. Soni, K. C. Jana, and D. K. Gupta, “Variable Step-size Adaptive Maximum Power Point Tracking Algorithm for Solar Cell Under Partial Shading Conditions,” *IETE J. Res.*, 2021, doi: 10.1080/03772063.2020.1871425.

2. D. K. Gupta *et al.*, “Hybrid gravitational-firefly algorithm-based load frequency control for hydrothermal two-area system,” *Mathematics*, vol. 9, no. 7, p. 712, Apr. 2021, doi: 10.3390/math9070712.