

# Kamakshya Prasad Dash



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## EDUCATION

### Master of Technology, High Voltage Engineering

National Institute of Technology Calicut, Kerala

2024 - present

CGPA-7.6 (Third sem.)

### Bachelor of Technology In Electrical Engineering

INDIRA GANDHI INSTITUTE OF TECHNOLOGY ,SARANG, ODISHA

2019 - 2023

- CGPA: 7.98

## SKILLS

- Ansys Electronics , Comsol , ETAP, LT spice, FEA analysis, Matlab

## ACADEMIC SEMINARS

Extra High Voltage Cable Transmission ( design , materials), Insulation material for rotating machines, vacuum breakdown(use TiZrV coating as a precaution).

## ABOUT ME

Postgraduate student in High Voltage Engineering at National Institute of Technology, Calicut, with strong academic and practical exposure to high-voltage equipment insulation systems. Experienced in the study and testing of various insulation types, high-voltage equipment testing, and condition monitoring techniques, with a focused interest in insulation diagnostics and predictive maintenance.

## PROJECTS

### 1. Identification of Electrical Treeing in Rotating Machine Insulation Through Partial Discharge Measurement(On going)

- To identify and analyze the electrical treeing in rotating machines insulation using partial discharge(PD)measurement with epoxy as insulation material.
- Developed a novel methodology to estimate insulation treeing severity using partial discharge (PD) pulse analysis for predictive maintenance of high-voltage equipment and power cables..

### 2. Load Frequency Control In A hybrid Power System With Classical Controller

Investigated frequency stabilization in two configurations:

- Thermal power systems integrated with distributed generation (DG) resources (wind turbines, fuel cells, diesel generators, etc.).

Two-area interconnected systems with DG in one area and thermal systems in the other.

## EXPERIENCE

### National Aluminium Company , Angul

Internship Trainee at Captive Power Plant, NALCO

04/2022 - 05/2022

During my internship, I studied about thermal power plant briefly.

Gained hands-on experience in the operation and maintenance of a 1200 MW

(10X120MW) captive thermal power plant.

Analyzed power distribution mechanisms, including grid supply to the alumina refinery.

### Rourkela Steel Plant, Rourkela

- Internship Trainee

06/2022 - 07/2022

- Gain a brief knowledge of the operation of the Blast Furnace at RSP.

