

Ramesh Devarapalli

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RESEARCH INTERESTS

Renewable energy sources; Artificial intelligence and optimization algorithms; Hydrogen energy- Fuel cells

RESEARCH PROFILE/ PUBLICATIONS

 [Google Scholar](#)
 [ORCID](#)
 [Scopus ID](#)

EDUCATION

Indian Institute of Technology (ISM), Dhanbad, India
Doctor of Philosophy, PhD in Power Systems (Electrical Engg.)

2015 - 2022

Indian Institute of Technology (BHU), Varanasi, India
M.Tech in Power Systems (Electrical Engg) with CGPA 8.35/10

2010 - 2012

MVGR College of Engineering, JNTU Kakinada, India
B.Tech in Electrical & Electronics Engg with 63.79%

2005 - 2009

WORK HISTORY

PhD

2015 - 2022

Highlights:

- Worked on power system stabilizer design in a multi-area power system for the PS stability enhancement.
- Developed novel meta-heuristic optimization algorithms in Matlab environment.

M.Tech

2010 - 2012

Highlights:

- Worked on stabilization of multi-infeed HVDC system.
- Developed HVDC model in PSCAD environment using CIGRE benchmark model.

Research Project (Principal Investigator)

2019 - 2020

Highlights:

- P. I. for the project entitled "Controller Design For Interval-Modeled Reverol-Pilipovik Water Treatment Plant", under Collaborative Research Scheme sanctioned by AICTE, New Delhi, India.
- Developed model for water treatment plant and designed intervalled system model.

Research Project (Co-Principal Investigator)

2019 - 2020

Highlights:

- Co-P.I. for the project entitled "Solar Photovoltaic Module Parameter Extraction: An Application of Novel Hybrid Metaheuristic Techniques", under TEQIP III: Seed Project, BIT Sindri, Dhanbad.
- Proposed novel algorithms for the solar photovoltaic model and verified on different PV materials for its accuracy.

TEACHING EXPERIENCE

✚ **Associate Professor (L13A):** April 2022 to January 2023 in *LIET*, Vizianagaram, Andhra Pradesh.

✚ **Assistant Professor (L10):** January 2018 to March 2022 in *BIT Sindri*, Dhanbad, Jharkhand.

✚ **Assistant Professor (L11):** June 2016 to January 2018 in *ADAMAS University*, Kolkata, West Bengal.

✚ **Assistant Professor:** July 2012 to June 2016 in *GITAM University*, Visakhapatnam, Andhra Pradesh.