DR. FARHANA FAYAZ

PhD in Electrical Engineering

CONTACT

farhanafayaz23@gmail.com,

farhanafayaz0786@gmail.com

https://www.linkedin.com/in/dr-farhana-fayaz-354147112/

+91 7006257701

SKILLS

MS Office (Word, Excel, Powepoint, Visio)

Report Writing, Editing and Publlishing

PSCAD

MATLAB

PSIM

Teaching

RELATED EXPERIENCE

- Currently working as Assistant Professor at Islamic University of Science and Technology, Awantipora.
- Experience of 6 months as Guest Faculty at National Institute of Technology Srinagar.

EDUCATION

Ph. D. - Electrical Engineering — **2017 - 2022**
NIT - Kurukshetra, Haryana (India)

Thesis Topic: "Reliability, Protection and Control Aspects in Power System"

Current Status: Degree Awarded

M. Tech. - Power System Engineering — **2014 - 2016**
Sharda University - Greater Noida, U.P. (India)

Passed with **9.8 CGPA**.
Dissertation work on "Development of ANN-based Relay Algorithm for the protection of SVC-Compensated Transmission Line".

B. Tech. - Electrical & Renewable Energy Engineering — **2010 - 2014**
Baba Ghulam Shah Badshah University, Rajouri, J&K (India)

Passed with **81.18**%

PUBLICATIONS

Robust Secondary Controller for Enhanced Frequency Regulation of Hybrid Integrated Power System — **SCIE**
World Electric Vehicle Journal 15, no. 10: 435. https://doi.org/10.3390/wevj15100435

Publisher: mdpi

Status: Published

Disturbance Rejection Based Controller for Frequency Control of Restructured Power System — **SCIE**
IETE Journal of Research . doi: 10.1080/03772063.2021.2021824

Publisher: Taylor & Francis

Status: Published

ACHIEVEMENTS

Recipient of INSPIRE Fellowship by

DST Govt. of India
Grant No.: IF170538

GOLD Medalist

Sharda University
for securing first position in the School of Engineering and Technology) in 2016

Recipient of Chancellor's Medal

for securing first position in Sharda University in 2016

Disturbance Rejection based Fractional Order PID controller for System Performance Improvement of Hybrid Power System — SCIE
Optimal Control Applications and Methods

Publisher: John Wiley and Sons Ltd

Status: Published

ANN-Based Relaying Algorithm for Protection of SVC- Compensated AC Transmission Line and Criticality Analysis of a Digital Relay" — SCOPUS
Recent Advances in Computer Science and Communications, (ISSN: 2666-2566) Vol 13, Issue 03, 2020

Publisher: Bentham Science publication

Status: Published

Reliability Evaluation, Criticality Analysis of SVC and Fast Protection Algorithm for SVC Compensated Transmission Line — SCOPUS
Suranaree Journal of Science and Technology (ISSN: 0858-849X)

Publisher: Suranaree University of Technology

Status: Published

Optimal control of hybrid power system integrated with distributed generation and electric vehicle — SCOPUS
Distributed Generation & Alternative Energy Journal (ISSN: 2156-6550)

Publisher: River Publishers

Status: Published

Effect of Voltage Stress on Reliability of the 3-Level ANPC Multilevel Inverter for Wind Turbines — SCOPUS
Suranaree University of Technology (ISSN: 0858-849X)

Publisher: Suranaree University of Technology

Status: Published

CONFERENCE PUBLICATIONS

Improved ANN-Based Algorithm for Detection and Classification of Faults on Transmission Lines — August, 2016
Proceedings of India International Conference on Information Processing (IICIP-2016), Technical Session – II on Soft and Evolutionary Computing, paper no. 395, New Delhi

Status: Published

Simulation of Various Faults on Transmission Line with Static VAR Compensator — January 2017
Proceedings of International Conference on Quality, Productivity, Reliability, Optimization & Modeling (ICQPROM)

Status: Published

Risk and Reliability Analysis of Wind Turbine System using Component Importance Measures — December 2017
ICET:EITM , NIT Hamirpur

Status: Published

Cost Based Importance Measures for Reliability Analysis of Wind Turbine System — 2018
2018 3 rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT) Bengaluru, India

Status: Published

Reliability Modeling and Criticality Ranking of Power Substation — 2019
2019 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, India

Status: Published

PROJECTS

Design of microcontroller 8051 based MHO relay — MTech
The project uses microcontroller 8051 to make a comparison between the operating quantity and restraining quantity in order to issue a trip signal in case of fault

Speed Checker to detect rash driving on highways — BTech
The Project uses two IR sensors to detect and calculates time between two set points which is proportional to the speed of the vehicle in order to determine the speed of the vehicle and issue an alarm in case of over speed.

EXTRACURRICULAR

- 4 weeks training on OPERATION & MAINTAINACE OF GENERATING STATION GAS TURBINE, PAMPORE as a part of industrial training.
- One week workshop on PCB designing using TINA software & PIC-MICROCONTROLLER.
- 2 days Workshop on “ROBOTICS” at Sharda University.
- One day workshop on VIRTUAL LABS at Sharda University with the support of IIT Roorkee.
- 2 days Short Term Course on RENEWABLE ENERGY: TECHNOLOGIES & TRANSITIONS at NIT Kurukshetra.
- 2 days workshop on ARTICLE AND THESIS WRITING WITH LaTeX at NIT Kurukshetra.

- One week Short Term Course on SIGNAL PROCESSING IN POWER SYSTEM PROTECTION AND CONTROL at NIT Kurukshetra
- One week GIAN course on, "RECENT TRENDS IN POWER SYSTEM RELIABILITY EVALUATION: MODELS, STATISTICAL METHODS AND APPLICATIONS" at Electrical Engg. Deptt., DTU from 9th Oct - 13th Oct 2017.
- 2 days workshop on WOMEN IN STEM ROADSHOW under the US department of state held in India (Delhi) during February 2018.
- Member of Gender Sensitization and Sexual Harassment Committee (GSCASH) at Sharda University for 2 years.
- Member of Student Advisory Committee (SAC) in NIT Kurukshetra for 2 years.
- Teaching Experience at NIT Kurukshetra for assisting in teaching and Lab work.