



**SUMIYA SHAJIHAN**

**INDIA**

**Contact:** +91 9544316415

**Email:** [sumiyashajihan@gmail.com](mailto:sumiyashajihan@gmail.com)

---

## OBJECTIVE

To inculcate professional ethics, contribute effectively, meaningfully and productively towards quality services through meticulously planned hard work and keeping team spirit to achieve organizational goals.

**Expert in: Teaching, Training**

## EDUCATIONAL QUALAIFICATIONS

- **MTech Power Systems** from Saintgits College of Engineering, Kerala Technological university 2017
- **BTech Electrical and Electronics Engineering** from Mangalam College of Engineering ,Mahatma Gandhi University 2010

## TECHNICAL SKILLS

- Tools –AutoCAD and Electrical CAD
- Programming languages-C
- Technologies-Mat lab ,ETAP
- Packages-MS Word, Excel, Power Point, Access, Outlook

## WORK EXPERIENCE

Institution	Designations	Duration
MES College	Assistant Professor	August 2018 to till date
KSEB	Electrical Operator	February 2013 to August 2013

**Organization:** MES COLLEGE. Nedumkandam, Kerala

**Designation:** Assistant Professor

**Duration:** August 2018 – Till Date.

### Roles and Responsibilities:

- Teaching graduate and under graduate students.
- Preparation of monthly attendance reports.
- Develop and execute inventive instructional methods.
- Build up professional logistics which helps in improvising the performances of the student.
- Assess, supervise and mentor the academic progress in students.
- Manage and support all the teaching assistants.

- Take part in all activities of the department and college.
- Support and serve up for various functional activities conducted by departmental committees.
- Review, assess and evaluate the activities and progress of students.
- Lend a hand, support and aid the superior professors in their everyday functions and tasks.
- Grade papers and tests; prepare exercises, lessons and lab experiments for the student,

### **Courses Taught**

- Electronics Applications
- Communication Electronics
- Computational Physics
- Basic Principles of electronic components
- Optoelectronics
- Thermal Physics

### **Labs Supervised**

- Electronics Lab
- Communication Lab

**Organization:** Kerala State Electricity Board (KSEB) 66/11 KV Substation, Idukki, Kerala.

**Designation:** Electrical Operator

**Duration:** February 2013 to August 2013.

### **Roles and Responsibilities:**

- Supervised the operation of substation as per standing instructions
- Managed the issuing and cancellation of permit work on lines connected to substation as well as substation equipment's.
- Supervised the day to day task of taking the readings of instruments and posting them in to log sheet.
- Trouble shooting of power system equipment's and control cable testing.
- Control circuit maintenance
- Control wiring of TAP CHANGER
- Relay time setting.
- Oil filtering of transformer.
- 11kv Breaker testing( Trip & close time testing & IR value Testing)
- Meter Testing
- B.DV. test of Transformer
- Earth Resistance Measurements

## **ACADEMIC PROJECTS**

### **FAULT DETECTION IN TRANSMISSION LINES USING WI-FI**

4 months (DEC 2008 – MARCH 2009)

In this project we introduce an instantaneous fault alert system which alerts the control station, automatically when any fault occurs in the line. A fault is from the data obtained at the corresponding receiver after a wireless transmission through the noisy communication channel. The system displays the message before and after encryption and decryption at transmitter and receiver respectively.

### **REACTIVE POWER COMPENSATION AND HARMONICS SUPPRESSION USING ELECTRIC SPRINGS**

4 months (JAN 2017-APRIL 2017)

Electric springs can overcome all power quality and stability issues caused due to the incorporation of renewable energy sources. In this project electric spring is realized using current source inverters. This is achieved using hysteresis current control. Hysteresis current control has a disadvantage that it has high and variable switching frequency. In order to overcome this another control using proportional resonant and proportional controller is used. By using these control strategies the THD across the critical load could be reduced. The project also proposes incorporation of PV into the electric spring circuit. The proposed control strategies are simulated in MATLAB Simulink platform to obtain satisfactory results in different operating conditions.

## **PAPER PUBLICATIONS**

- **Improving system performance using electric springs with current source inverters** presented at International conference on Smart Grids, Power and Advanced control engineering, Bangalore (2017).
- **Reducing THD of critical loads using electric springs with current source inverters** accepted by International journal of engineering research and technology.

## **STRENGTHS**

- Faith in God and honesty
- Good communication capabilities and leadership skills
- Adaptable any sort of circumstances
- Straight forward, kind and dedicated
- Punctual, disciplined, sincere and trustworthy

## **PERSONAL DETAILS**

Date of Birth	: 8th December, 1988
Nationality	: Indian
Languages Known	: English, Hindi and Malayalam
Hobbies	: Reading, Browsing, Listening to music
Passport #	: N8315947