

## FACULTY PROFILE

Name of the faculty	Mrs. REKHA S.N.
Designation	ASSOCIATE PROFESSOR
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## Educational Qualification

Degree	Specialization	University	Year of Passing
Ph.D	WIND ENERGY CONVERSION SYSTEMS	KARE	IN PROGRESS
M.Tech	ELECTRICAL POWER SYSTEMS	KERALA UNIVERSITY	2004
B.E	ELECTRICAL & ELECTRONICS ENGG.	CALICUT UNIVERSITY	1998

## Work Experience

Teaching	Research	Industry
16.5		3.5

## Publications

National/International Journals	National/International Conferences	Books Authored/Edited
5	11	-

## Area of Interest

WIND ENERGY CONVERSION SYSTEMS	ARTIFICIAL NURAL NETWORKS
ELECTRICAL MACHINES	SUPPORT VECTOR MACHINE
NETWORK ANALYSIS	RELEVANCE VECTOR MACHINE
MACHINE LEARNING	HARDWARE SIMULATION

## Funded Proiects

## Patents

## Membership in Professional Bodies/University Bodies/Organization

- LMISTE

## Publications

### National/International Journals

1. S.N Rekha, "Multi objective genetic algorithm for optimal power flow including voltage stability", IJCTA, international science press,2016, p57-63, 0974-5572– **SCOPUS INDEXED**.
2. Rekha S. N., P. Aruna Jeyanthi, D. Devaraj, "Relevance vector machine-based fault classification in wind energy conversion system" International Journal of Electrical and Computer Engineering (IJECE) Vol. 9, No. 3, June 2019, ISSN: 2088-8708, DOI: 10.11591-**SCOPUS INDEXED**.
3. Rekha S. N., P. Aruna Jeyanthi, D. Devaraj, "MultiKernel Multiclass Relevance Vector Machine for Simultaneous Fault Detection in Bench Mark Model of Wind Generation Systems", Journal of Computational And Theoretical Nano Science(JCTN), ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online)- **SCOPUS INDEXED**.
4. P. Aruna Jeyanthi, Rekha S.N, D. Devaraj, "Fault Detection in Grid Connected Wind Energy Conversion Systems," International Journal of Recent Technology and Engineering (IJRTE),ISSN: 2277-3878, Volume-8 Issue-4S2, December 2019 - **SCOPUS INDEXED**.
5. Rekha S. N., P. Aruna Jeyanthi, D. Devaraj, "SVM and RVM FAULT MODEL FOR WIND ENERGY CONVERSION SYSTM," International Journal of Recent Technology and Engineering (IJRTE),ISSN: 2277-3878, Volume-8 Issue-4S2, December 2019 - **SCOPUS INDEXED**.

### National /International Conferences

1. Rekha S. N., P. Aruna Jeyanthi, D. Devaraj, "Wavelet Transform Based Open Circuit Fault Diagnosis in the Converter Used in Wind Energy Systems", IEEE International Conference on Intelligent Techniques in Control, Optimization & Signal Processing(INCOS-17),ISBN-978-15090-4778-9(IEEE Digital Library).
2. Rekha S. N., P. Aruna Jeyanthi, D. Devaraj, "Multinomial Logistic Regression for Fault Type Detection in Bench Mark Fault Model of Wind Energy Conversion System", IEEE International Conference on Intelligent Techniques in Control, Optimization & Signal Processing(INCOS-19)
3. Rekha S.N., Ganesh Rao S, "Fault Analysis Of Induction Motor" IEEE International Conference on Intelligent Techniques in Control, Optimization & Signal Processing(INCOS-19)
4. Pawan Kumar , Rekha S.N, Ravi, Sharath C , Vishal "Cross-Border Infiltration Detection and Protection System"IEEE International Conference on Intelligent Techniques in Control, Optimization & Signal Processing(INCOS-19)
5. Shanu, Rekha S.N ,Vinutha D, Nethra, Raggijaya , "Hand Gesture Recognition" 9<sup>th</sup> International Conference on Recent Engineering And Technology ,ICERT 2019
6. Rekha S.N. "Selective harmonic elimination using graphical analysis method in a 5 level inverter fed from equal and non equal DC source", Kalasilingam University, national conference on Sustainable Energy System, October 6<sup>th</sup> & 7<sup>th</sup> , 2016.
7. Rekha S.N. "Energy Storage System for wind energy conversion system", Kalasilingam University, Fourth national conference on Power and energy system, April 2016.
8. Rekha S.N, Mr.Mithun , "Integrated circuit design for ALH", Kalasilingam University, Fifth national conference on Power and energy system, NPES-18, 12<sup>th</sup> & 13<sup>th</sup> April 2018
9. Rekha S. N., P. Aruna Jeyanthi, D. Devaraj " Prediction model for wind energy conversion systems-A Neural Network Approach" IEEE International Conference on Sustainable Development December 2019

## Faculty Development Programme Participated

- Faculty Development Program conducted by Wipro-Mission 10x by Wipro Technology Ltd, feb 2012.
- Faculty Development Program on computer aided electrical drawing , Feb 2013.
- One day Faculty Development Program conducted by Sapthagiri College of Engineering on 22-01-2015
- Faculty Development Program on Modeling and control of renewable energy systems, march 2016.
- Three days Faculty Development Program on “Teacher Empowerment” conducted by Sapthagiri College of Engineering from 23-07-2018 to 25-07-2018.
- Faculty Development Program on Machine Learning and tools, January 2019.

### Organized and Participated

Two Days Faculty Development Program on computer aided electrical drawing , Feb 2013.

## Workshop Attended

1. 3 days' Workshop on ELECTRICAL CAD organized by M.S.Engineering college Dec 2012.
2. Two days workshop on Recent advances in power systems July 2012.
3. Three days workshop on Computer Aided Electrical drawing SIR MVIT January 2013.
4. Two day workshop on Essence Of Research works on pollution performance of Insulators & arresters organized by SCE January 2014.
5. Two days workshop on Modeling and simulation of solar PV system using MATLAB july 2016.
6. Two days workshop on Evolutionary Computation August 2017.
7. Three Days Workshop on “Digital Signal Processing Lab” organized by Acharya Institute of Technology from 29-01-2018 to 31-01-2018.

## Awards/Recognition/Achievement/Others

1. **Best Paper Award:** Selective harmonic elimination using graphical analysis method in a 5 level inverter fed from equal and unequal DC sources. National conference on power and energy system NPES-16 held on 1<sup>st</sup> & 2<sup>nd</sup> April 2016
2. Reviewer for Renewable energy Elsevier Journal