

Neethu V.S.

Assistant Professor

Department of Electrical and Electronics Engineering

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Education	<p>(Ph.D.) in Electrical and Electronics Engineering (2019-pursuing) Under VTU</p> <p>M. Tech in Power system and Power Electronics (2008-2010) UBDT college of Engineering, Davangere - 577 004 First class with Distinction</p> <p>B.E. in Electrical and Electronics Engineering (2002-2006) UBDT College of Engineering, Davangere - 577004 First class with Distinction</p> <p>Matriculation: SSLC St. Pauls convent, Davangere - 577004 Percentage: 86%</p>
Experience	<p>Assistant Professor, Department of E&E Engg., Malnad College of Engineering Salagame road, Hassan - 573 202. From 20 August 2015 - Present</p> <p>Assistant Professor, Department of E&C Engg., Government College of Engineering, Hassan - 573 202. From July 2014 - August 2015</p> <p>Guest faculty, Department of E&E Engg., Malnad College of Engineering Salagame road, Hassan - 573 202. From August 2010 to December 2011</p> <p>Guest faculty, Department of E&E Engg., UBDT College of Engineering Davangere - 577004. From January 2008 to June 2008</p>
Research Interest	Electric Vehicles, Power quality issues, Modern Power systems, Smart Grid Technologies
Technical Skills	<u>Languages & Software:</u> Knowledge of C, MATLAB/Simulink, PSPICE, MiPower

Projects

M.Tech - “An Artificial Neural Network Based Short Term Load Forecasting”

Electrical load forecasting is one of the major areas of research in electrical engineering. An artificial neural network based short term load forecasting is simple and more accurate with minimum error and can perform good prediction with minimum error. A multilayer feed forward neural network with 3 layers was selected and weights of this non linear model were estimated with back propagation algorithm.

B.E. - Availability based tariff in power grid systems.

Availability based tariff is a rational tariff structure for power supply for generating stations on a contract basis. It is a frequency linked tariff. It consists of 3 parts. 1) Capacity charge: Payment towards re-imburement of fixed cost of plant, linked to the plant capabilities to supply MW's

2) Energy charges: payment towards variable cost of generation. 3) Un-scheduled interchange cost: Payment towards deviations on average system frequency in each of 15 minutes time block. This tariff is introduced to bring grid discipline. i.e., to reduce wide fluctuations in grid frequencies.

Workshops Conducted

1. Five days FDP on “Computation and Real time analysis of systems using MATLAB & XILINX” held from 16th – 20th July 2018 sponsored by TEQIP-II at department of E&E Engg, MCE, Hassan.
2. Coordinated Two-day workshop on “Applications of Artificial Intelligence - Hands on Training” for students organized by TechNest.
3. Coordinated one day worksop on “ Applications of Mathematics in real world problems” for students held on 13th November 2019 sponsored by TEQIP-III and jointly organsied by Department of E&E Engg and Department of Mathematics at department of E&E Engg, MCE, Hassan.

Hobbies and interests

Listening to music, Reading book, Cooking and Gardening

Publications

Journals

1. Arjun G T, N. S. Jyothi, Mohanalakshmi J. and **Neethu V. S.** "*Simulation of Vector Controlled Adjustable Speed System of Doubly Fed Induction Machine*", International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 6, Issue 6, June 2018, pp. 236-240
2. Mohanalakshmi J., **Neethu V. S.**, Deeksha R and Raghvendraprasad Deshpande, "*Bus Clamped Modulation For Harmonic Minimization In Vector Control Of Induction Motor Drives*", International Journal of Advanced Research in Engineering and Technology, Vol. 12, Issue 1, January 2021, pp. 760-770, DOI: 10.34218/IJARET.12.1.2021.069 (Scopus Indexed).

Conferences

1. Neethu V. S., Jyothi N. S. and Raghvendraprasad Deshpande "Optimal EV Placement Using Particle Swarm Optimization Algorithm" **submitted to** 5th IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies & Optimization Techniques (ICEECCOT – 2021) scheduled to be held during 10th to 11th December at GSSS Institute of Engineering & Technology for Women, Mysuru.

FDPs and Workshops attended

1. One week workshop on "**FEEL Teacher**" held from 6th-11th June 2016, organized by MCE, Hassan.
2. One week FDP on "**Pedagogical Training programme**" held from 11th-15th July 2016, organized jointly by Malnad College of Engineering and SPFU, Karnataka.
3. AICTE recognized short term course on "**Technical Teachers Role, Self Esteem, Motivation & Professionalism Development Through ICT**" conducted by Media and continuing Education Centre from 28th November to 2nd December 2016 at Malnad college of Engineering.
4. TEQIP II sponsored two-day workshop on "**MATLAB & SIMULINK Application in Engineering**" organized by Department of E&E Engg. held during 18th and 19th March 2017 at Malnad college of Engineering, Hassan.
5. Three-day FDP on "**Digital Control System**" held from 23rd to 25th March 2017 Sponsored by TEQIP-II organized by department of E&E Engg, MCE, Hassan.
6. TEQIP II sponsored two-day workshop on "**Recent Trends in Solar Energy Applications**" organized by Department of E&E Engg. held during 27th and 28th March 2017 at Malnad college of Engineering, Hassan.
7. One day workshop on "**Professional & Academic quality in engineering courses (PAQ)**" held on April 23 ,2018 under TEQIP III organized by department of E&E Engg, MCE, Hassan.
8. One-week interdisciplinary FDP on "**Recent developments in Solar & Wind Energy system for On/Off Grid Applications**" held from 9th-13th July 2018 Sponsored by TEQIP-III organized by Department of E&E Engg, MCE, Hassan.
9. TEQIP III sponsored two-day workshop on "**Being a Great Teacher**" organized by Department of Mechanical Engg. held during 3rd and 4th November 2018 at Malnad college of Engineering, Hassan.
10. AICTE- ISTE sponsored one week Induction/Refresher programme on "**Recent advances in Smart Grid**" held from 21st to 26th January 2019 organised by Department of E&E Engg, University BDT college of Engineering Davangere, Karnataka.
11. TEQIP III sponsored one-day workshop on "**Training the Proctors for Effective Counselling**" organized by Women Security, Welfare and Grievance Redressal & Proctor system Committee, Hassan on 23rd March 2019.

12. AICTE sponsored one-week STTP course on “**Smart Grid and Smart City: Recent Trends (SmaRT-2019)**” organized by Department of E&E Engg. held during 8-13 July 2019 at Malnad college of Engineering, Hassan.
13. One-week STTP on “**Recent Developments in Renewable Energy sources and Conversion systems for On/Off Grid Applications**” held from 9th -14th December 2019 under TEQIP III organized by department of E&E Engg, MCE, Hassan.
14. Two-week Swayam course on “**Digital Transformation in Teaching Learning Process**”, during 6 to 22 April 2020, organized by IIT, Bombay, under TEQIP III.
15. National Level One Week Online Faculty Development Program On “**Contemporary Scenario in Power Systems**” organized by the Department of Electrical & Electronics Engineering, ATME College of Engineering, Mysuru held during 25th July 2020 to 30th July 2020.
16. IUCEE International Engineering Educator Certification Program Spring 2020, during December 2019 to August 2020, conducted by Indo Universal Collaboration for Engineering Education (IUCEE).
17. One-week online FDP on “**Research opportunities, challenges in Power Electronics for EV and its impact on Smart Grid**”, during 14th-20th December 2020 by NIT, Trichy.
18. One week ATAL sponsored online FDP on “**Electric Vehicles**” from 4-8 January 2021 at K S Rangasamy College of Technology.
19. One week Online Elementary FDP on “**Current Trends of Power Electronics Applications in Electric Vehicles**” from 7 to 11, June 2021 at Government Engineering College Valsad.
20. One week ATAL sponsored online FDP on “**Recent Trends in Power System Operation and Control**” from 4-8 January 2021 at K S Rangasamy College of Technology.
21. Participated & completed AICTE Training and Learning (ATAL) Academy **Online** FDP on “ **Trends and opportunities in E-vehicles**” organized by Center of Excellence – E-mobility, RV College of Engineering, Bengaluru from 2nd -7th May 2022.
22. Participated in & completed a workshop on “ **Recent Developments in Smart Grid and Applications** ” organized by GSSS Institute of technology for women, Mysuru from 5th -7th September 2022.