

## Acedemic & Administration Details

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### TEACHING / RESEARCH EXPERIENCE:

Thirty-Two years (34) ..... Teaching Experience

Eight years (08) ..... Research Experience

### INTERNATIONAL JOURNAL PUBLISHED:

1. Preethi K, Sukrutha R, Chandrashekar Y.L, "Modelling and Simulation of Electric Vehicle using MATLAB/Simulink", Internal Journal of Engineering Research and Technology [IJERT], Volume 12, Volume 12, Issue 06 ISSN: 2278, June 2023.
2. Sukrutha R, Preethi K, Chaithra GD, Chandrashekar Y.L, "Design and Analysis of Solar-Wind fed Battery Charger for Electric Vehicles using MATLAB/Simulink", Internal Journal of Electronics and Communication Engineering and Technology [IJCET], Volume 14, Issue 01, April 2023.
3. C. Sunil Kumar, C. Puttamadappa, Chandrashekar Y.L, "Power Quality Improvement in Grid Integrated PV Systems with SOA Optimized Active and Reactive Power Control", Journal of Electrical Engineering & Technology, Published in SPRINGER, [Korean Institute of Electrical Engineers 2022], 23<sup>rd</sup> August 2022.
4. C. Sunil Kumar, C. Puttamadappa, Chandrashekar Y.L, "Bacterial Foraging and Seagull Optimization Algorithm based THD level Comparison for Flyback Converter in Grid-connected PV System", International Journal of Engineering Trends and Technology, ISSN:2231-5381, Volume 70, Issue 6, 379-394, June 2022.
5. Chaitra G D, Chandrashekar Y.L, "Comparative Analysis of Cascaded H-Bridge Multilevel Inverters in Reducing Harmonic Distortion by EPPWM and PDPWM Techniques", International Journal of Engineering Research & Technology [IJERT], ISSN: 2278-0181, Vol 10, Issue 06, June 2021.
6. ChandraShekar Y.L, P.S.Puttaswamy, "Design and Simulation of Improved DC-DC Convertors using Simulink for Grid Connected PV systems", International Journal of Electronics & Communication Engineering and Technology [IJCET], Vol. 8, Issue 6, ISSN 0976-6472, Jan 2018.
7. ChandraShekar Y.L, C.Ram Singla, "Reviewed Study on Improvement of Power Quality in Distribution System using PV with DVR", International Journal of Advances in Arts, Sciences and Engineering[IJAASE], Vol. 4, Issue 9, ISSN 2320-6144, September 2016.
8. ChandraShekar Y.L, C.Ram Singla, "Analytical Study of Power Quality Improvement in PV Grid using Active Filter", AIRO International Research Journal, Vol. VII, ISSN 2320-3174, March, 2016.

### PAPERS PRESENTED in NATIONAL / INTERNATIONAL CONFERENCE:

1. C. Sunil Kumar, C. Puttamadappa, Chandrashekar Y.L, "Power Quality Enhancement in Grid-connected PV System for Z Source Inverter with Seagull Optimization Algorithm", International Conference on Industrial Electronics, Mechanics, Electrical and Mechanical Power, [American Institute of Physics], IEMPOWER, July 2022.

2. C. Sunil Kumar, C. Puttamadappa, Chandrashekar Y.L, "Power Quality Enhancement in Grid-connected PV system for Z Source Inverter with BFO & Seagull Optimization Algorithm", International Conference on Power, Control and Sustainable Energy Systems [SCOUPS], BMS College of Engineering, Beangaluru, December 2021.
3. C. Sunil Kumar, C. Puttamadappa, Chandrashekar Y.L, "Bacterial Foraging Optimization Based Maximum Power Point Tracking for Photovoltaic System under Partially Shaded Condition with Interleaved Resonant Fly-back Converter", International Conference on Recent Trends in Electrical, Electronics and Computer Science Engineering, Deokali, Uttar Pradesh, Test Engineering & Management, ISSN:0913-4120, Page No. 15776-15784, February 2020.
4. Recent Trends in Electrical, Electronics and Computer Science Engineering[**ICEECS 2020**]: **2 Day International Conference**, Organized by Sunrise Umar Nath Singh Institute of Engg & Technology, Deokali, Uttar Pradesh, on 10<sup>th</sup> & 11<sup>th</sup> January 2020.
5. Current Research in Emerging Trends of Engineering, Technology, Management, Arts, Sciences, Education, Pharmacy and Medical: **2 Day International Conference**, Organized by Sunrise University and Globus Education & Research Association, at Hyderabad, on 17<sup>th</sup> & 18<sup>th</sup> January 2016.
6. Current Research in Latest Trends of Management, Arts, Sciences, Technology and Pharmacy: **2 Day National Conference**, Organized by Sunrise University and Globus Education & Research Association, at Hyderabad, on 3<sup>rd</sup> & 4<sup>th</sup> October 2015.

#### **AWARDS & RECOGNITIONS:**

1. **Chaired the Session** in 5<sup>th</sup> International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2021) conducted in association with IEEE Bangalore Section and IEEE Mysore Sub Section, organized by GSSS Institute of Engineering & Technology for Women, Mysuru on 10<sup>th</sup> and 11<sup>th</sup> December 2021.
2. **Technical Review Committee Member** in 5<sup>th</sup> International Conference on "Electrical, Electronic Communication, Computer Technologies and Optimization Techniques" [ICEECCOT-2021] at GSSSIETW, Mysuru, Karnataka, India on 10<sup>th</sup> -11<sup>th</sup> December 2021.
3. **Journal Reviewer**, Editorial board of SSAHE Journal of Interdisciplinary Research, ISSN: 2582-9890 from 23<sup>rd</sup> April 2022 to 20<sup>th</sup> April 2028.
4. **Technical Review Committee Member** in 3<sup>rd</sup> International Conference on "Emerging Research in Electronics, Computer Science and Technology" [ICERECT-2018] at P.E.S. College of Engineering, Mandya, Karnataka, India on 23<sup>rd</sup> -24<sup>th</sup> August 2018.
5. **Chaired the Session** 3<sup>rd</sup> International Conference on "Emerging Research in Electronics, Computer Science and Technology" [ICERECT-2018] at P.E.S. College of Engineering, Mandya, Karnataka, India on 23<sup>rd</sup> -24<sup>th</sup> August 2018.
6. **Technical Review Committee Member** for National Conference on "Intelligent Energy Systems" NCIES-2018, at department of Electrical & Electronics Engineering, GSSS Institute of Engineering & Technology for Women, Metagalli, Mysuru, Karnataka, on 7<sup>th</sup> May 2018.

7. **Advisory Committee Member** for 5-day development program on “Embedded Controller Programming with ARM Cortex-M3”, at department of Electronics & Communication Engineering, BGS Institute of Technology, BG Nagar, Mandya, Karnataka, India from 29<sup>th</sup> Jan 2018 to 2<sup>nd</sup> Feb 2018.
8. **Chaired the Session** in 4<sup>th</sup> International Conference on “Dream Realization of Swachh Bharat Abhiyan through Innovative and Smart Technologies for Waste Management and Pollution Control”, at Department of Research, Sunrise University, Alwar, on 16<sup>th</sup> and 17<sup>th</sup> Dec 2017.
9. **Chaired the Session** in 4<sup>th</sup> International Conference on “EMERGING TRENDS IN ELECTRONICS and COMMUNICATION” NCETEC-2017 at Department of Electronics & Communication Engineering, BGS Institute of Technology, BG Nagar, Mandya, Karnataka, India on 18<sup>th</sup> May 2017.
10. **Evaluator** for the ViVaCious E-15, Organized by Department of Electronics & Communication Engineering, Vidyavardhaka College of Engineering, Mysore on 8<sup>th</sup> May 2015.
11. **Chaired the session** for the National Conference of “EMERGING TRENDS IN ELECTRONICS” at Department of Electronics & Communication engineering, BGS Institute of Technology, BG Nagar, Mandya, Karnataka, India on 5<sup>th</sup> May 2015.

#### ACTIVITES INVOLVED:

1. Reviewer of editorial board, SSAHE Journal of Interdisciplinary Research- a unpaid peer-reviewed for the duration from 23<sup>rd</sup> April 2022 to 22<sup>nd</sup> April 2028.
2. Member of **LIC committee**, 2020, VTU, Belagavi.
3. Member Board of Examiner of E&E Engg, Sri Siddhartha Institute of Technology, Siddhartha University, Tumkur.
4. Member Board of Examiner of E&E Engg, department, Dr. AIT, Bangalore.
5. Former Board of Examiner of E&C Engg, department, PESCE, Mandya.
6. Deputy Chief Coordinator for VTU Theory Examination during May 2006, Dec 2006, May 2007 and Dec 2007, at SBMJCE, Bangalore.
7. **NBA Coordinator** at Ghousia College of Engineering, Ramanagram during 2003.
8. Member for Syllabus discussion of Electrical & Electronics Engineering, held at NIE, Mysuru, on 10<sup>th</sup> June 2002.

## **INVITIED EXPERT LECTURER DELIVERED at WORKSHOP/SEMINARS/TRAINING PROGRAMME:**

- **Resource Person** for a workshop on “LaTex for Report Writing and Research Outreach” held at department of Computer Science & Engineering at NIE Institute of Technology, Mysuru-18 on 20<sup>th</sup> April 2022.
- **A Talk Delivered on** “Applications of Power Controllers by MATLAB/SIMULINK” at department of Electronics and Communication Engineering, Mysuru Royal Institute of Technology, S R Patna, Mandya on 8<sup>th</sup> July 2021.
- **A Talk Delivered on** “Sensors and their applications” at department of Electronics and Communication Engineering, Mysuru Royal Institute of Technology, S R Patna, Mandya on 29<sup>th</sup> June 2021.
- **Resource Person** for a workshop on “Introduction to L<sup>A</sup>T<sub>E</sub>X” in the Faculty Development Program held at department of Electronics and Communication Engineering, at Mysuru Royal Institute of Technology, S R Patna, Mandya, on 1<sup>st</sup> Feb 2019.
- **Resource Person** for “MATLAB Application to Power Convertors” held at department of Electrical & Electronics Engineering, G Madegowda Institute of Technology [GMIT], Bharathi Nagar, Mandya, Karnataka, India, on 19<sup>th</sup> May 2017.
- **A Talk Delivered on** “MATLAB Application to Electric Circuit and Control Engineering”, at department of Electronics & Communication Engineering, BGS Institute of Technology, BG Nagar, Mandya, Karnataka, India on 16<sup>th</sup> October 2016.
- **A Talk Delivered on** “Recent Trends in Power Electronics and its Applications”, at department of E & C Engineering, Maharaja Institute of Technology,[MIT], Mysore on 22<sup>nd</sup> March 2010.
- **Resource Person** for “Concept of Control System & its applications”, Training Program held at Government Polytechnic College, Chanapatana, Bangalore, on 19<sup>th</sup> to 22<sup>nd</sup> August 2005.
- **A Talk Delivered on** “MATLAB Application to Control Systems”, at Department of E & E Engineering, PES College of Engineering, Mandya on 14<sup>th</sup> June 2005.
- **A Talk Delivered on** “Simulation Tools for Electrical & Electronics Engineering Applications”, at AICTE-ISTE, STTP on “Recent Trends in Power Electronics Circuits” held at NMAM Institute of Technology, NITTE, Mangalore on 4<sup>th</sup> March 2005.

## **WORKSHOP/TRAINING PROGRAM ORGANIZED:**

- **1 Day workshop** on “MATLAB Application to Control Engineering” at department of E & E Engineering, SBMJCE, Bangalore on 17<sup>th</sup> April 2009.
- **3 Day workshop** on “Basic Simulation Tools in Electrical & Electronics systems” , at Department of E & E Engineering, SBMJCE, Bangalore on 21<sup>st</sup> to 23<sup>rd</sup> August 2008.

## CONFERENCE/SEMINAR/SHORT-TERM COURSES ATTENDED:

- ❖ Emerging Trends on Smart Grid and Sustainable Energy Technology: Two week National Workshop, jointly organized by Department of CS, EC and EE, NIT Meghalaya, India from 3<sup>rd</sup> to 12<sup>th</sup> Sept 2021.
- ❖ Smart City: Recent Developments in Smart City (SMART-2020): AICTE Sponsored One Week, Online Short Term Training Programme, Organized by Department of Electrical and Electronics Engineering, at Sri Siddhartha Institute of Technology, Tumakuru, Karnataka, India, on 22<sup>nd</sup> to 27<sup>th</sup> February 2021.
- ❖ Control Engineering: Online Quiz program held by Department of Electronics & Communication Engineering, VVCE, Mysuru on 6<sup>th</sup> November 2020.
- ❖ Low-Power Design Techniques for Digital Circuits:, Webinar organized by IEEE Circuits and Systems (CAS) Society Bangalore Chapter in association with IEEE Bangalore Section held on 26<sup>th</sup> June, 2020.
- ❖ 5G Development Strategies: Webinar, organized by Electomotive Club, PESCE, Mandya, on 25<sup>th</sup> July 2020.
- ❖ Electrical & Electronics Measurement: National Level Online Quiz program organized by Department of Electrical & Electronics Engineering, Hirasugar Institute of Technology, Nidasoshi, on 23<sup>rd</sup> July 2020.
- ❖ Power Electronics: Online Quiz “Power BUG” program organized by Department of Electronics & Communication Engineering, GSSSIETW, Mysuru, on 28<sup>th</sup> to 30<sup>th</sup> June 2020.
- ❖ Power System: Online Quiz program organized by Department of Electrical & Electronics Engineering, Jain Institute of Technology, Davangere, on 25<sup>th</sup> June 2020.
- ❖ Analog Electronics Circuits: One Week FEP, at Department of Digital Electronics & Communication System [DECS], VTU Centre for Post Graduate Studies, Mysuru-570029, from 6<sup>th</sup> to 10<sup>th</sup> August 2018.
- ❖ Control Systems: 2 Week ISTE Workshop, held under the National Mission on Education through ICT (MHRD), at MIT, Mysuru, from 2<sup>nd</sup> Dec to 12<sup>th</sup> Dec 2014.
- ❖ Design and Modelling of Drives for Electric Machines: Five-Day Workshop, at department of Electrical and Electronics Engineering, Dr. AIT, Bangalore, from 26<sup>th</sup> Sep to 1<sup>st</sup> Oct 2013.
- ❖ PMU and WIDE Area Monitoring Applications: One-Day Seminar, at department of Electrical and Electronics Engineering, Dr. AIT, Bangalore, from 11<sup>th</sup> to 15<sup>th</sup> June 2013.
- ❖ Insulation and High Voltage engineering: One-Day FDP, at department of Electrical and Electronics Engineering, Dr. AIT, Bangalore, on 10<sup>th</sup> May 2013.
- ❖ Faculty Development Programme: 2-day Workshop, at PG Studies in Management Sciences, MIT, Mysuru, on 1<sup>st</sup> & 2<sup>nd</sup> Feb 2013.
- ❖ Role of Nanocomposites in Dielectrics and Devices: 2 Day Seminar, at Dept. of E&C Engineering, SJCE, Mysuru on 16<sup>th</sup> & 17<sup>th</sup> March 2012.

- ❖ MSP430 & Applications: One-day Workshop, at Ghousia College of Engineering, Ramanagram, on 31<sup>st</sup> Jan 2012.
- ❖ Current Trends in Signal Processing: 2-day National Workshop, at Jain University, on 26<sup>th</sup> & 27<sup>th</sup> August 2011.
- ❖ Wireless Communication –Past, Present, and Future: One-day Workshop, at GSSS Institute of Engineering & Technology for women, Mysuru on 5<sup>th</sup> Feb 2010.
- ❖ Introduction to Research Investigations in Recent Years in Electrical & Electronics Engineering: 1 Day Seminar, at BNMIT, Bangalore on 16<sup>th</sup> March 2009.
- ❖ Developments in FEM Applications in Mechanical Engineering: 1-week ISTE-AICTE Short Term Training Program at SBM Jain College of Engineering, Bangalore from 26<sup>th</sup> to 30<sup>th</sup> March 2007.
- ❖ Recent Trends in Power Electronics: 2-day TEQIP-SPFU, at Sri Siddhartha Institute of Technology, TUMKUR on 9<sup>th</sup> and 10<sup>th</sup> December 2005.
- ❖ PLD [FPGA/CPLD] Design flow: One-Day workshop at JVIT, Bidadi, on 4<sup>th</sup> May 2005.
- ❖ Digital System design with FPGA/CPLD using VHDL: One-day workshop at Ghousia college of Engg. Ramanagaram on 28<sup>th</sup> March 2005.
- ❖ Recent Trends on Power Electronics Circuits: 2-week STTP, at NMAM Institute of Technology, NITTE from 21<sup>st</sup> Feb to 5<sup>th</sup> March 2005.
- ❖ Automation through Document Processing and Image Processing: *2-Week Course* at P.E.S. College of Engineering, Mandya held on 10<sup>th</sup> January to 22<sup>nd</sup> January 2005.
- ❖ Computer Vision & Its Applications: 2-week course: at P.E.S. College of Engineering, Mandya from 12<sup>th</sup> July to 24<sup>th</sup> July 2004.
- ❖ Pedagogy-Science of Teaching: 2-week course at P.E.S. College of Engineering, Mandya from 23<sup>rd</sup> February to 6<sup>th</sup> March 2004.
- ❖ Recent Industrial Trends In Electric Drives: *One-Day Workshop* at M.S.Ramaiah Institute of Technology (MSRIT), Bangalore on 9<sup>th</sup> July 2003.
- ❖ Applications of AI and ANN to Electrical and Electronics Engg: 1-Day seminar at Ghousia College of Engineering, Ramanagaram on 03-05-2003.
- ❖ Simulation Tools for Electrical Engineering Applications: 3- Week Refresher course at Academic College staff, Jawarlal Neharu University (JNTU), Hyderabad on 09-02-03 to 01-03-2003.
- ❖ Digital Signal Processing: 3 Day Workshop at National Institute of Engineering, NIE, Mysore on 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> of December 1999.
- ❖ Document Analyses and Pattern Recognition: 2-Week Course at P.E.S. College of Engineering, Mandya on 15-7-2002 to 27-7-2002.
- ❖ Non- Conventional Energy Sources: 1-week course at P.E.S College of Engineering, mandya on 20-7-1998 to 25-7-1998.

- ❖ Computers in Biomedical Engineering: 2 Week course at P.E.S College of Engineering, Mandya on 24-4-1997 to 03-05-1997.

**SOFTWARE TOOLS FAMILIAR WITH:** LaTeX, MATLAB, PSPICE, PSIM, LABVIEW

**AREA OF INTEREST:** Network Analysis, Control Systems, Signals & Systems, Power Electronics, Industrial Drives, Modelling & Simulation.

**MAJOR SUBJECTS TAUGHT IN UG AND PG PROGRAM:**

Basic Electrical Engineering, Network Analysis, Analog Electronics Circuits, Electronics Instrumentation. Control Systems, Signal & Systems, Digital Signal Processing, Power Electronics, Industrial Drives, Sensors & Signal conditioning.

**LABORATORIES DEVELOPED:**

• Electronics Circuit Lab	• Logic design Lab
• Analog communication Lab	• DSP Lab
• Power Electronics Lab	• PSPICE and Measurement Lab
• Control System Lab	• Electrical Machines Labs
• Basic Electrical Engineering	• Microprocessor Lab



(Dr. YL. Chandrashekar)