

Department of Electrical & Electronics Engineering

Website: <https://bitswgl.ac.in/eee-department.php>

HOD's Message



Dr.S.Manikandan,
Associate Professor & HoD

It gives me great pleasure to congratulate students, teachers and staff of electrical and electronics department for the publication of newsletter. Newsletter is believed to be a focus of the inside activities i.e. academics, students and faculty achievement as well as innovation occurring in the department. In the era of engineering and technology this newsletter will motivate the teachers and students of sharing their creativity and new ideas with the world and will help in their overall development. As the demand of energy is raising day by day & hence the production has to increase now the time has come for all electrical engineers to come forward, join their hands for saving of electricity, using the renewable energy resources such as solar, biomass, wind for the fulfilment of demand of energy with this slogan "SAVE ENERGY, SAVE WORLD". I wish best of luck for all the team members for publication of newsletter.

VISION OF THE DEPARTMENT

The department of EEE is working on the vision, "To nurture excellence in the field of Electrical & Electronics Engineering by imparting core values to the learners and to mould the institution into a centre of academic excellence and advanced research"

MISSION OF THE DEPARTMENT

- To impart students with high technical knowledge to make globally adept to the new Technologies
- To create, disseminate and integrate knowledge of engineering, science and technology that expands the electrical engineering knowledge base towards research
- To provide the students with a platform for developing new products and systems that can help industry and society as a whole.

PROGRAM EDUCATIONAL OBJECTIVES

- To prepare students with solid foundation in Mathematics, Sciences and Basic Engineering to cover multi-disciplinary subjects enabling them to comprehend, analyze Electrical & Electronics Engineering problems and develop solutions.
- To design and develop an electrical system component or process to meet the needs of society and industry with in realistic constraints.
- To prepare students with technical competence to use advance techniques, skills and modern engineering tools that allow them to work effectively as electrical and electronics engineer.



Guest Lectures

- ✓ “Renewable Energy-DG, Online and Offline UPS” on 23rd August, 2017 for III-Year B.Tech students
- ✓ “Current Technologies in IoT” on 20th October, 2017 for IV-Year B.Tech students

Seminar:

- ✓ “3-D Electrical CAD Designing” on 3rd August, 2017 for II & III B.Tech students



Department of EEE organized a two week workshop on “Electric Power System” during 12th June, 2017 to 15th July, 2017 conducted by Indian Institute of Technology-Kharagpur through distance mode using the AVIEW technology and the internet under the National Mission on Education through ICT (NMEICT) sponsored by Ministry of Human Resources Development (MHRD), Government of India.



Faculty Publications:

| S · N o · | Name of the Faculty | Title of book/Papers published | Name of the publisher: National /International | National/International: I SBN/ISSN number of the proceedings | Name of the Journal |
|-----------------------|---------------------------|--|--|---|---|
| 1 | Dr.C.Rajalingam | Optimization of battery based multi-phase power conversion | International | -- | International Journal of Computer Science and Electronics Engineering |
| 2 | Mr.Singireddy Mallikarjun | IOT of things based remote sensing of low voltage grid parameters to cloud systems using ESP8266 and Arduino | International | ISSN 2348-6848 VOL-04,ISSUE-09 | IJR |
| | | Suppression of harmonic resonance in a distribution power system with resonant current control | International | VOL – 9, ISSUE – 2-48 | IJPRES |
| | | Control of ripple eliminators to improve the power quality of DC systems and reduce the usage of electrolytic capacitors | International | VOL – 6, ISSUE – 2-23 | IJPRES |
| | | A new multilevel DC-DC converter for renewable energy sources | International | ISSN 2456-5083 VOL–6, ISSUE – 9 | IJPRES |
| | | Design and analysis of inverter - based islanded microgrids based on V-I drop characteristics | International | -- | IJPRES |

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|---|----------------------|--|---------------|-------------------|--------|
| 3 | Mr.Singam Sridhar | An Islanding detection method for inverter based distributed generators based on the reactive power disturbances | International | --- | IJPRES |
| | | Open circuit fault - Tolerant control for outer switches of three level rectifiers in wind turbine systems | International | --- | IJPRES |
| 4 | Mr.M.Karthik Reddy | A single phase four switch rectifier with significantly reduced capacitance | --- | --- | IJPRES |
| | | Impact of SFCL on four types of HVDC circuit breaker by simulation | International | --- | IJPRES |
| 5 | Mrs.G Madhuri | A new cascaded switched - capacitor multi-level inverter based an improved series parallel conversion with less number of components | International | --- | IJPRES |
| 6 | Mr.R.Ranadheer Reddy | A predictive control scheme for a dual output indirect matrix converter | International | --- | IJPRES |
| | | Switching control of buck converter based on energy conservation principle | International | VOL-09, ISSUE -03 | IJPRES |
| | | Simulation and analysis of capacitor voltage balancing Method For NNPC inverter | International | VOL-09, ISSUE -03 | IJPRES |

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|---|------------------|---|---------------|------------------------------------|--------|
| 7 | Ms.R.Swathi | Implementation of space vector PWM for the hybrid D-STATCOM | International | ISSN 2348-6848 VOL-04, ISSUE - 117 | IJR |
| | | Modulation and control of transformer-less UPFC | International | Volume - 6, Issue 4 | IJPRES |
| | | Power and voltage balance control of a novel 3 ϕ solid state transformer using multi-level cascaded H-Bridge Inverters for micro grid applications | International | Volume - 9, Issue 3 | IJPRES |
| | | Cascade dual model predictive control of an active front end rectifier | International | Volume - 9, Issue 3 | IJPRES |
| 8 | Ms.S.Roda Vishal | Adaptive power system for managing large dynamic loads | International | Volume - 9, Issue 4 | IJPRES |
| | | Power quality improvement of PMSG based DG set feeding three phase loads | International | Volume - 9, Issue 3-23 | IJPRES |

Congratulation to the students selected in placements for different companies



D.Vijay Kumar
(14C31A0206)



K.Shirisha
(14C31A0218)



M.Vishnu
(14C31A0222)



P.Srujana
(14C31A0226)



V.Rohini
(14C31A0231)



N.Joseph Thambi
(15C35A0216)



B.Rakesh
(15C35A0202)



E.Sunaina
(15C35A0206)



G.Anusha
(14C31A0214)

**YOUR SUCCESS IS BECAUSE OF YOUR PARENTS,
TEACHERS AND FRIENDS DON'T FORGET TO
GIVE RESPECT TO THEM**



Healthy Tips

- 0- Hours of Television
- 1- Hour of Exercise
- 2- Cups of hot Green Tea
- 3- Litres of water
- 4- Short Mental breaks
- 5- Small meals
- 6- AM wake up time
- 7- Minutes of laughter
- 8- Hours of sleep (at least)
- 9- PM end of the day & off to bed
- 10- Prayers of Gratitude

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HOD, EEE

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