



**DHANALAKSHMI SRINIVASAN
ENGINEERING COLLEGE,
PERAMBALUR – 621212**

RESEARCH AND DEVELOPMENT

NEWSLETTER 2016-17

FROM THE EDITOR'S DESK

Dhanalakshmi Srinivasan Engineering College was established in the year, 2001 with the vision to be a world class nodal centre committed to advanced learning and research. A dedicated team of Research and Development cell is headed by Principal to provide a creative atmosphere and platform where research can thrive. It also promotes and manages Institute-Industry interaction, consultancy, extension activities and all externally funded projects. The objectives of R&D cell are to:

- Encourage faculty members to undertake projects including consultancy services.
- Support and conduct seminars / workshops / conferences / symposia for effective dissemination of knowledge.

Research and Development Newsletter is issued with the prime objective of showing the essence of research scenarios in the campus for the academic year 2016-17. The readers from other institutions of higher education and

industries can come together and convey their innovative ideas.

MESSAGE

Research and Development of our college is vibrant in executing the works in an effective manner. Research in current, new and especially emerging areas will ensure that the institution is prepared to meet its future challenges and needs. R&D cell provides necessary support and approach various national funding agencies for financial grants. I appreciate the efforts of the Research and Development cell in introducing this newsletter in the academic journey to enhance the knowledge of the reader.

RESEARCH ACTIVITIES

The Department of Electronics and Communication has organized guest lecture on RTOS by Mr C Ravichandran from AUC, Ariyalur.



The Department of Electrical and Electronics Engineering has organized a National Conference on “Emerging Investigations in Electrical Engineering” on 02/09/2016. **Dr.K.Kanagasabapathy**, General Manager, Electrical and Automation FLsmidth-Chennai presented the talk on recent trends in the development of electrical engineering field.



A seminar talk about IOT medical Devices was organized on 21.03.17. invited Chief Guest was **Dr.S.Mythili**, Professor, PSNA College of Engineering and Technology, gave a speech about importance of IOT Devices in Telemedicine and Tele health Technology. •

The Special lecture “Recent trends in Biomedical Engineering” was delivered by **Mr.A.Subramanian**, Senior Research Fellow, NIMHANS, Bengaluru, on 15.07.16 to expertise the students in Biomedical engineering advancements.

The Department of Electronics and Communication Engineering conducted one day “National Level Workshop on Embedded and Real Time Systems” in the college Auditorium. The Chief Guest **Mr.A.DINESH and Mr.A.SUNDAR**, Pantech Solutions discussed the developments in embedded systems and basics of Keil software. He also encouraged the students to do research works.



The **Department of Civil engineering** has organized for the FDTP on Revit Architecture aided by ICT Act from 23.05.2016 to 28.05.2016



The Department of **Electrical and Electronics Engineering** has conducted an International Workshop on “Emerging Trends in Power System Protection and Energy Management” in which Dr.Akthar Kalam of Victoria University, Melbourne and Dr.N.Stalin Anna University Trichy were the speakers heading the event. It was held on 25/01/2017

Faculty Publications

- **Mr.S.Sathyamoorthy,**
Mrs.S.S.Sathya, “Novel approach for Embedding data in audio signal using “, Indo American Journal of Multidisciplinary power control acoustic OFDM Research and Review
- **Mrs.S.Vatchala,**”Datamining and privacy in big data” , QIMRJ, V-5, Issue -2
- **Mrs.M.Dhayalini, Ms.D.Sathyakala,** ”Novel approach for the design of low power 128 bit SORTCSLA design” International Journal of Computational Research and Development
- **Mr.T.Boopathy,Ms.K.Suganya,** “Design of blind channel and source estimation in MIMOOFDM System” International Journal of Computational Research and Development
- **Mrs.P.Rajeswari, Mr.V.Prabhakaran,** ” Design of compact micro-strip antenna for various mobile applications” ,International Journal of Advanced Trends in Engineering and Technology
- **Mr.V.Vijayakumar, Mrs.S.Nithya,** ”Design of scalable HEVC-DCT architecture for video coding Applications”, International Journal of Applied and Advanced Scientific Research
- **Mrs.S.S.Sathya, Ms.J.Maria Sofi Anusuya,** ”Monitoring and fault analysis in turbine using CAN bus, ”International Journal of Current Research and Modern Education
- **Mr.A.Yogeshwaran, Mr.P.Kannan,** ”Design and implementation of retinal and liver segment for medical diagnosis”, International Journal of Current Research and Modern Education
- **Mr.N.KhadarBasha,**
Mr.S.Sathyamoorthy, ”Survey of Classifiers using Medical Image Processing”,Indo American Journal of Research and Review.
- **Dr.K.Anbarasan,** “Arduino Based Human Health care Monitoring and Control System” IOSR Journal of Electrical and Electronics Engineering Vol 11, Issue 3 Ver I, pp 09-18
- **Dr.K.Anbarasan** ” Health monitoring and control system using wireless sensor network” Middle East Journal of Scientific Research (h-index=24) (impact factor =0.36) 59-64, ISSN 1990-9233
- **Dr.K.Anbarasan** “High gain step up converter using multilevel inverter for HVDC application” ” Middle East Journal of Scientific Research (h-index=24) (impact factor =0.36) 611- 618, ISSN 1990-9233

- **K.Preetha** “A new technique for fault detection in induction motor” APRN Journal of Engineering and Applied Sciences (h-index = 12) (impact factor =2.56)Vol. 11, No. 3, ISSN 1819-6608
- **K.Preetha** “Efficiency improvement in dual inverter fed open-end permanent magnet synchronous motor” APRN Journal of Engineering and Applied Sciences (h-index = 12) (impact factor =2.56) Vol. 11, No. 3, ISSN1819-6608
- **T.Lavanya** “High gain step up converter using multilevel inverter for HVDC application” Middle East Journal of Scientific Research (h-index=24) (impact factor=0.36) 611-618, ISSN 1990-9233 611-618, ISSN 1990-9233
- **M.Parameswari** “Arduino Based Human health Care Monitoring and control system” IOSR Journal of Electrical and Electronics Engineering (h-index = 3) (impact factor = 0.15) Vol. 11, Issue 3 VER.I pp 09-18
- **Chellappan.M Lingadurai. K** Effect of flux on microstructure and mechanical properties of super martensitic stainless steel using Activated Tungsten Inert Gas Welding process’. International Journal of Applied Engineering Research, ISSN 0973 – 4562 Volume 10, Number 22 P 2015.
- **M. Rajakumar** “Secure & Effective Collision Tolerant Scheduling For Underwater WSN Routing” , International Journal Of Engineering Research And Modern Education (IJERME) Volume I, Issue I, 2016
- **R. Selvakumar** “Li-Fi (Light Fidelity): Wireless Communication Using Led” International Journal Of Scientific Research And Modern Education (IJSRME) Volume I, Issue I, 2016
- **A. Anitha** “Online Knowledge Transfer Freelancer Portal” International Journal Of Scientific Research And Modern Education (IJSRME)Volume I, Issue I, 2016

Faculty participated in Conferences

- **S.Selvakumaran,**” Hybrid Energy for bidirectional CLLC resonant converter with PWAM control” ACTOPCCS-16
- **M.Parameswari** “Isolated Power system design using modified P&O technique” ICRTET
- **M.Parameswari** “Network based health monitoring and control” ICEEICA 16
- **J.Nagendran** “Equipment Identification Using Active RFID & WiFi IC for Internet of Things “National Conference on Research Trends in Communication and Information Technologies (NCRTCIT – 17)
- **A.Srilalitha** “Internet of Things based online ambient parameters ICCCET
- **T.Vishnu kumar** “Hybrid Energy for bidirectional CLLC resonant converter with PWAM control” ICRTES -16.