



# Department of Electrical and Electronics Engineering

# E-Waves

Newsletter – Dec 2018

P.A.C. Ramasamy Raja Polytechnic College, Rajapalayam

VOLUME : 3 ISSUE : 1

## Vision

To be recognised as Centre of Excellence in preparing students job ready in the field of Electrical and Electronics Engineering.

## Mission

- ❖ To impart first-rate technical knowledge and skill by adopting best teaching practices with adequate infrastructure.
- ❖ To promote linkage with industry for offering industry supported electives and in-plant training.
- ❖ To encourage students' participation in co-curricular, extra-curricular activities and impart moral values.

## Words of Wisdom

I have not failed. I've just found 10,000 ways that won't work.  
- Thomas Alva Edison

## Editor's Desk

The department brings out the Newsletter for disseminating and sharing the major achievements/activities of the students and faculty members among the peers, academia and industries.

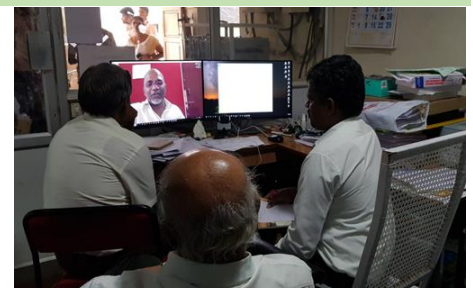
## Department Laboratory and Facilities Visited by Experts from M/s Johnson Lifts Pvt Ltd, Chennai

A meeting was arranged by our beloved Principal Dr. R. Venkatraj with the Experts of M/s Johnson Lifts Pvt Ltd, Chennai at Board room on 08.06.2018 to discuss the possibilities of conducting Industry based elective on Lift Technology. Mr. Wilfred Clarence, General Manager – Operations, Dr. Narayanamoorthi, HR – Manager, Mr. P. Satishkumar Jha, DGM, SHE & Training, and Mr. Jawahar, Manager from M/s Johnson Lifts Pvt Ltd Chennai attended the meeting. Mr. R. Ramesh kumar, Dr. V.R. Velmurugan and Mr. G. Rajagopal participated in the discussion. Our Principal explained the frame work, curriculum and success story of existing Industry Based Elective courses running at our institution. At the end of the meeting, it was decided to offer Industry Based Elective on "Vertical Transportation System" for 20 nos. of VI semester EEE students during the period - Dec 2018 to April 2019. The company experts agreed to establish "Johnson Centre of Excellence" at our Institution under CSR and to depute Technical experts from industry for content delivery for Theory and Practical Courses. They visited High Skill Training & Research Centre and all the EEE laboratories.



## Discussion via Skype Mode for Industry Based Elective

Our Principal Dr. R. Venkatraj and EEE department faculty had a discussion with Mr. Ganasa, Director, M/S Keystone Automation Solutions Pvt Ltd, Chennai through skype mode, regarding implementation of IBE titled "SIEMENS Based Control System" on 19.09.2018.



## Guest Lecture

- Mr. A. Murugan, Founder & Chairman, TeckSpert, Bangalore & Dr. G.S. Ayyappan, Senior Scientist/CSIR-CSIO, Chennai delivered a guest lecture for III year EEE on "Energy Efficient Technologies" on 27.06.2018.
- Mr. M. Manikandan @ Ayikudyin Selvan, Design Engineer, Salam Technologies, Qatar, delivered a guest lecture on "Structured Cabling System" for III Year EEE on 12.06.2018.



## Value Added Programme through CIICP

- Value added programme on "PLC Programming" at Noorul Islam Polytechnic College, Thiruvithamcode was organized for 42 students from 07.09.2018 to 08.09.2018. Dr. V.R.Velmurugan and Mr. G. Rajagopal were the resource persons.



- Mr. R. Victor German, Mr. M. Kalyanasundaram and Mr. M. Muthanatham were the resource persons for the Value added programme on "Control of Electrical Machines Practical" for II Year ECE students (33 nos.) organized at our polytechnic college from 26.11.2018 to 01.12.2018.



## In-Plant Training

II Year/IV Semester and III Year/V Semester EEE students numbering 292, underwent a one week unpaid In-Plant training in 62 industries during the month of Oct/Nov 2018.

## NSS

A blood donation camp was organised at our institution under NSS on 04.07.2018. II & III Year EEE (20 nos.) participated and donated their blood.

## Industrial Visit

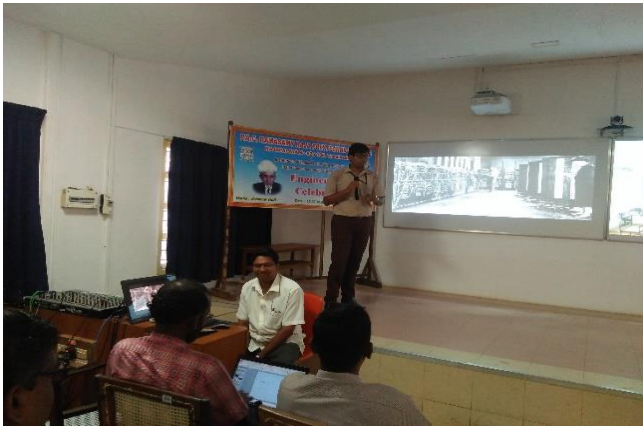
- Two batches of III Year/V Semester EEE students (107 nos.) visited the M/s Padmavahini Transformer, Coimbatore on 21<sup>st</sup> & 28<sup>th</sup> August 2018.
- Two batches of III Year/V Semester EEE students (107 nos.) visited the M/s Salzer Electronics, Coimbatore on 22<sup>nd</sup> & 29<sup>th</sup> August 2018.
- Two batches of III Year/V Semester EEE students (107 nos.) visited the M/s Doddapetta Tea Factory, Ooty on 23<sup>rd</sup> & 30<sup>th</sup> August 2018.
- Two batches of III Year/V Semester EEE students (107 nos.) visited the M/s Pykara Micro Hydrel Power Plant, Ooty on 24<sup>th</sup> & 31<sup>st</sup> August 2018.
- Mr. S. Arunsankar, Mr. R. Victor German, Mr. M. kalyanasundaram, Mr. V. Sureshkumar, Mr. G. Ravikumar and Mr. R. Mareesvaran went along with the students for Industrial visit.

## Placement Training



## Institution of Engineers (India)

- 15 nos. of III Year EEE students and 05 nos. of II Year EEE students hold the seminar on various topics in "Power System I", "Microcontroller" and "Electrical Machines I".
- Selvan P. Maharajan, Selvan J. Muthupandi, and Selvan R. Petchimuthu of II year EEE won the first prize in the Class room level Quiz programme conducted on 01.08.2018.
- Selvan G. Prakash Ganesan, Selvan D.Somasundar and Selvi D. Jeevajothi, III Year EEE participated in the paper presentation contest conducted during Engineers day celebration on 15.09.2018. Dr. V.R.Velmurugan was the Judge for this event.



## ISTE Students' Chapter

- Selvan G. Prakash Ganesan, III Year EEE participated in the paper presentation contest titled "Sustainability of Non-Conventional Energy" conducted at Sri Ramakrishna Polytechnic College, Coimbatore on 07.09.2018.
- Selvan M. Aarthi and Selvi D. Jeevajothi participated in the paper presentation contest titled "Recent Trends in Electrical Engineering" conducted at Sri Vidya Engineering, Virudhunagar on 01.09.2018.
- Selvan G. Saravanan and Selvan R. K. Rishiram, II Year EEE participated in the paper presentation contest titled "I Cloud" conducted at Periyar Centenary Polytechnic College, Vallam on 17.08.2018.
- Selvan M. Aarthi and Selvi D. Jeevajothi participated in the paper presentation contest titled "Wireless Battery Charger" conducted at SCAD Polytechnic College, Cheranmadevi on 31.08.2018.

## Bright Students Activities

- Simulation of motor control circuits in Control of Electrical Machine practical was given as additional inputs to all the III year/IV Semester EEE using EKTS Simulator software by our faculty Dr. V. R. Velmurugan and Mr. M. Kalyanasundaram during the period - June 2018 to September 2018.
- Mentoring programme was conducted by Dr.V.R. Velmurugan for 18 nos. of V Semester EEE from 08<sup>th</sup> November to 10<sup>th</sup> November 2018 for the course "Programmable Logic Controller Practical".



- Mentoring programme was conducted by Mr. R. Victor German for 17 nos of IV Semester EEE from 19<sup>th</sup> November to 23 November 2018 for the course "Electrical Machines and Instrumentation Practical".



- Mentoring programme was conducted by Mr. M. Kalyanasundaram for 17 nos of V Semester EEE students during the month of May 2019 for the course "Programmable Logic Controller Practical".

## Student Union President

Selvan M. Sriram, III year EEE was selected as Student Union President and Selvan B. Hariharasudhan, III Year EEE was selected as ISTE Student chapter President for the year 2018 -2019 on 25.07.2018.

## Induction Program for I Year Students



Induction programme for first year students was organized at our assembly hall on 27.06.2018. EEE department Alumni Dr. G.S. Ayyappan, Senior Scientist/CSIR-CSIO, Chennai, our EEE department alumnus was one of the guest speakers who shared his experience in this institution.

## NPTEL On-Line Courses

NPTEL online courses completed by staff members during the period - July to November 2019.

- ❖ Dr. V.R. Velmurugan: 12 week course on Industrial Internet of Things (IIoT).
- ❖ Dr. G. Madasamy: 1) Design of Solar Photo Voltaic System and 2) Non-conventional Energy Sources (12 weeks), 3) Introduction to Smart Grid and 4) Electrical Distribution Systems Analysis (8 weeks).
- ❖ Mr. R. Victor German: 1) Design of Solar Photo Voltaic System (12 weeks) and 2) Introduction to Smart Grid (8 weeks)
- ❖ Mr. M. Kalyanasundaram: 1) Industrial Internet of Things (IIoT) (12 weeks) and 2) Introduction to Smart Grid (8 weeks).
- ❖ Mr. M. Muthukrishnan: 12 week course on MEMS based sensors: Clinical Perspective
- ❖ Mr. J. Isac Daniel: 12 week course on Control System.
- ❖ Mr. K. Karthikeyan: 8 week course on Introduction to Smart Grid.
- ❖ Mr. S. Shanmugaraj: 8 week course on Introduction to Smart Grid.
- ❖ Mr. G. Rajagopal: 1) Design of Solar Photo Voltaic System & 2) Fundamentals of Electrical Engineering (12 weeks), 3) Introduction to Smart Grid & 4) Electrical Distribution Systems Analysis (8 weeks).

## Staff Achievement

Mr. G. Rajagopal, has secured 75% of marks in the NPTEL online exam conducted in the month of November 2018 for the course "Electrical Distribution Systems Analysis". He was adjudged the Topper in Top 5% of certified candidates.

## Sports



Our college Basket Ball team won the Divisional Winner award. Selvan S. Jaipranav, III Year EEE received certificate from our Principal Dr. R. Venkatraj on 07.09.2018.

## New Faculty Joined

Mr. S. Shanmugaraj M.E, joined as a faculty in our department on 13.06.2018. We wish him all success in his career.

## Faculty Development Programme

- Dr. G. Madasamy attended an AICTE sponsored one week QIP on "Power Electronic Systems Design and Applications" held at CIT, Coimbatore during the period - 04<sup>th</sup> June to 10<sup>th</sup> June 2018.
- Dr. G. Madasamy attended a one week training programme on "NBA Accreditation based on OBE" conducted by NITTTR, Chennai during the period - 13<sup>th</sup> August to 18<sup>th</sup> August 2018.

## Seminar/Workshop

- Mr. R. Rameshkumar, Dr. G. Madasamy and Mr. G. Rajagopal attended the ERP Product demo given by Ramco Systems, Chennai through video conferencing on 17.09.2019.
- Mrs. Madhumati Gharat, Team Leader Technical Support Mr. Sandip Ahire, Engineer, HILSCHER India Pvt Ltd, Pune, conducted a two day training programme on "Industrial Internet of Things (IIoT)" at HSTC on 28<sup>th</sup> and 29<sup>th</sup> September 2018. Dr. V.R.Velmurugan, Mr. M. Kalyansundaram and Mr. G. Rajagopal attended the training programme.



## Centre for High Skill Training & Research

- ❖ Value Added Programme on “Sensor Technology” was conducted at Ramco Institute of Technology, Rajapalayam from 08.06.2018 to 11.06.2018. Totally 44 BE (ECE) students got benefitted from this programme.
- ❖ A one day workshop on “Control of Electrical Motors” was conducted for 2 Non-Teaching faculty of Ramco Institute of Technology, Rajapalayam on 25.06.2018.
- ❖ A one day awareness programme on “PLC Programming” and “Sensor Technology” was conducted at Vivekananda Engineering College for Women, Tiruchengodu and Mahindra Engineering college, Mallasamuthiram on 13.09.2018. Dr. V.R.Velmurugan, Mr. M. Kalyansundaram and Mr. G. Rajagopal were the resource persons for the above programmes.



## Other Activities

- Dr. V.R. Velmurugan attended the “Programme Advisory Committee” Meeting at Periyar Centenary Polytechnic College, Vallam on 12.07.2018.
- On 14.07.2017, Mr. G. Rajagopal delivered a Guest Lecture on “Electronic Devices and Circuits” at Ammaippar Polytechnic College, Meenatchiyapuram.
- On 16.07.2017, Dr. V.R. Velmurugan delivered a Guest Lecture on “Programmable Logic Controller” at Ammaippar Polytechnic College, Meenatchiyapuram”.
- Dr. V.R. Velmurugan and Mr. G. Rajagopal attended a one day FlexThink! seminar titled “IoT” organized by c/mos processor at Chennai on 11.10.2018.

## Lab Visit by External Experts

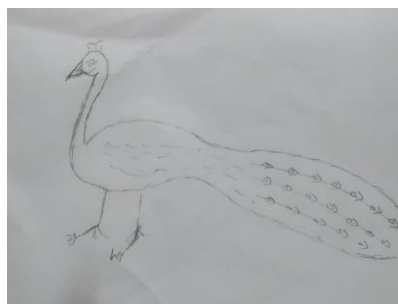
Dr. Kalaivani Ganesan, Joint Director (Innovation & Incubation), Entrepreneurship Development and Innovation Institute, (An autonomous society of the Government of Tamil Nadu), SIDCO Industrial Estate, Guindy, Chennai-600032, Dr Kaarthick- incubation expert from CIET, Coimbatore, Dr. R.B. Anand- Prof, NIT, Trichy visited our Centre for High Skill Training and Research, Electrical Engineering Lab I & II and Solar PV System Lab on 15.06.2018.



## Students' Corner



Selvan P. Kartheeswaran, II Year EEE



Selvan P. Ajithkumar, II Year EEE



Selvan J. Desingaprawin, II Year EEE

## Gallery



### Construction of Elevator Shaft Structure for Elective Course



### Industrial Visit

**Chief Editor:** Dr. R. Venkatraj, Principal

**Editors:**

- Mr. R. Ramesh Kumar, HOD/EEE,
- Mr. K. Karthikeyan, Lecturer/EEE,
- Mr. G. Rajagopal, JDO/EEE
- Selvan M. Sriram, III Year EEE
- Selvan. B. Hariharasudhan, III Year EEE

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