



# Department of Electrical and Electronics Engineering

# E-Waves

Newsletter - June 2018

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

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## 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

Tell me and I'll forget. Show me and I may remember. Involve me and I learn. - Benjamin Franklin

## 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.

## Sri. P.A.C. Ramasamy Raja Centenary Memorial Gold Medal

Selvan G. Kavimuthuraja of III Year Electrical and Electronics Engineering received this award, instituted by Shri. P.R. Ramasubrahmaneya Rajha, our former Chairman for the best outgoing student who excels in curricular, co-curricular and extra-curricular activities. We proudly say that our EEE department students received this award 11 times out of 25 times. The award was given by our beloved Governing Council Member, Shri. N. K. Ramasuwami Raja during the Awards Day function held on 15.03.2018.



## State Level Award - ISTE TN&P SECTION AWARD 2017

ISTE Chapter Best student award for the year 2017 was given to Selvan S. Kavimuthuraja, III Year EEE for his overall performance in academic, extracurricular and involvement in ISTE Chapter activities of our polytechnic college. He received this award at the 6<sup>th</sup> ISTE TN section annual polytechnic students convention, held at Thiagarajar Polytechnic College, Salem on 19.01.2018. The award is sponsored by the Tamilnadu section, Indian Society for Technical Education (ISTE), New Delhi.

## The Best Outgoing EEE Student of the Year 2017 - 2018

Selvan M. Muthuraj of III Year EEE received Thandal Janagaraja @ Krishnamaraja Vijayalakshmi Gold Medal for the Best outgoing EEE student of the year 2017 -2018. The award was given by our beloved Governing Council Member, Shri. N. K. Ramasuwami Raja during the Awards Day function held on 15.03.2018.



## Guest Lecture

- Mr. M. Rajalingam, Senior Drafting Officer, J.S.E Engineering, Dubai delivered a guest lecture for III year EEE students on "MEP Drawings using AutoCAD" on 06.02.2018.



- Mr. S. Narayanan M.E, Safety Engineer, L&T, Amaravathy delivered a guest lecture for III year EEE students on "Environment Wealth and Safety" on 23.02.2018.
- Mr. K. Ramesh Kumar, Engineer from Sine Wave Technologies, Sivakasi delivered a guest lecture and made a Demo of PLC, HMI and Drives Trainer Kit on 10.03.2018 to III Year EEE students.
- Mr. M. Vijayakumar, Service Engineer, JAYAM Electronics, Chennai delivered a guest lecture for III year EEE students on "Industrial Instrumentation" on 10.01.2018.
- Mr. P. Gurumoorthi, from Sri Vignesh Driving School, Rajapalayam delivered a guest lecture for III year EEE students on the topic "Traffic Awareness and Road Safety" on 19.02.2018.
- Mr. M. Vannamurugan, from Havells India Ltd, Madurai and our faculty Mr. M. Muthanatham gave a demo using Product Demo Vehicle – Wiring Accessories" on 22.02.2018 for all the EEE students.



## Value Added Programme through CIICP

- Dr. V.R. Velmurugan, Mr. G. Rajagopal and Mr. K. Karthikeyan, acted as resource persons for the value added course on "Sensor Technology" conducted for III year EEE students (14 nos.) from 24.02.2018 to 18.03.2018.
- Dr. V.R. Velmurugan, Mr. G. Rajagopal and Mr. K. Karthikeyan conducted the value added programme on "Sensor Technology" for III year Electronics and Communication Engineering students (40 no.s) from 20.01.2018 to 28.01.2018.
- Dr. V.R. Velmurugan, Mr. G. Rajagopal, Mr. M. Kalyanasundaram, Mr. K. Karthikeyan and Mr. J. Navaneethan conducted the value added course on "Sensor Technology" for II year Mechanical Engineering students (28 nos.) from 23.04.2018 to 28.04.2018.



- Mr. G. Rajagopal and Mr. M. Kalyanasundaram conducted the value added course on "Sensor Technology" for II Year Mechanical Engineering students (28 nos.) from 30.04.2018 to 05.05.2018.
- "Innovative Teaching-Learning Methods Workshop" was conducted in our polytechnic during 9<sup>th</sup> and 10<sup>th</sup> February, 2018, for the benefit of faculty members from selected CIICP polytechnic colleges. Dr. V.R. Velmurugan, Ms. J. Jeyabharathi and Mr. G. Rajagopal handled sessions on "Innovative Teaching Learning Methods followed in EEE Department".

## In-Plant Training

II Year/IV Semester EEE students numbering 133, underwent a one week unpaid In-Plant training in 26 industries during the month of May 2018. Reports will be submitted by the students after completing the training.

## Industrial Visit

29 nos. of III Year/VI Semester EEE students visited the Solar Water Pump Plant, Rakkatchiamman Kovil, Rajapalayam on 22.01.2018.



## Workshop

- Mr. Rakesh Nair, Senior Project Engineer, Mr. S. Raja Ganapathy, Junior Project Engineer, and Mr. B. Ajith Kumar, Project Assistant from IIITDM, Khanchipuram conducted a 3 day workshop on "Arduino Programming" for III year EEE students from 07<sup>th</sup> February to 09<sup>th</sup> February 2018.



- Mr. J. Godwin Brabhu, Managing Director, from Crest LEDs Pvt Ltd, Nagarcoil conducted a one day workshop on "Assembling of 5W LED Light" for III year EEE students on 18.01.2018. 80 students actively participated in the workshop and assembled around 16 No. of 5W LED Lights. The materials for the workshop was supplied by the company free of cost for practice.

## Entrepreneurship Development Cell

20 nos. of III year EEE students participated in the two day Entrepreneurship Awareness Camp conducted at our polytechnic college from 02.02.2018 to 03.02.2018.

## The Best Project Award

III Year EEE students have completed 30 projects in various technical areas such as PLC, Microcontroller, Arduino, Solar PV System, Robotics and Power Electronics. The project titled "PLC based smart monitoring system for photovoltaic panel" was selected as the best project for the year 2017-2018.

## Placement Training

- Soft skill Training programme was conducted by M/s Mahindra Pride School, Naandi Team from Chennai for III Year EEE students from 23.04.2018 to 28.04.2018. 25 nos. of students got benefitted from this training program.



#	Name of the Industry	No of students placed	Salary in Rs.
1.	Igarashi Motors, Chennai	3	Rs. 10,000
2.	TVS Motors, Hosur	2	Rs.12,000
3.	Saint Gobain, Chennai	3+5	Rs. 9500
4.	TAKATA, Chennai	4	Rs.11500
5.	Delphi TVS, Chennai	3+1	Rs.12,000
6.	KEYSTONE Automation	2	Rs.10000
7.	LUCAS TVS, Chennai	15+18+3	Rs.9500
8.	Avalon Technologies	1+2+1	Rs.6350
9.	Royal Enfield, Chennai	1	Rs.16283
10.	Ashok Leyland	5+2	Rs.9235
11.	Regen Powertech, Chennai	4+6	Rs.11500
12.	Syrma Technologies	1	Rs.8500
13.	Blue Star, Chennai	1	Rs.21000
13.	PROTOL Controls Pvt Ltd,	1	Rs.11500
14.	Ramco Textile Division	1	Rs.8000
15.	Noble Software Solution,	2	Rs.7500
16.	TVS Logistics, Chennai	1	Rs.10000
	Yet to Placed	6	

## Other Activities

- Additional Lab Experiments using Arduino were conducted in "Digital Electronics and LIC Practical" for II Year/IV Semester EEE students by our faculty Mrs. M. Seetha and Mrs. J. Jeyabharathi from Dec 2017 to March 2018.
- Mentoring programme was conducted by Dr. V.R. Velmurugan and Mr. R. Victor German for 33 nos. of IV Semester EEE students from 19<sup>th</sup> April to 21<sup>st</sup> April 2018 and 18<sup>th</sup> April to 21<sup>st</sup> April 2018, respectively for the course "Control of Electrical Machines Practical".

## Institution of Engineers (India)

- Winners of Intra-Collegiate Activities for the year 2017 -2018 (III Year EEE): First Prize in Class room Seminar: Selvan M. Muthuraj, Second Prize: Selvan M. Esakkiraja. First Prize in Quiz: Selvan P. Ponmurugan & Selvan S. Vijaykumar. First prize in Model Making Contest: Selvan M. Muthuraj. First prize in technical Demonstration: Selvan S. Kavimuthuraja.
- Winners of Intra-Collegiate Activities for the year 2017 -2018 (II Year EEE): First Prize in Class room Seminar: Selvan B. Jegadeesh, Second Prize: Selvan G. Harikesavan. First Prize in Quiz: Selvan K. Balmuruganan & Selvan A. Balamurugan. First prize in Model Making Contest: Selvan G. Prakash Ganesan. First prize in technical Demonstration: Selvan S. Mohamed Kamarudeen.
- 35 nos. of III Year/VI Semester EEE students handled the class room seminars on various topics in Electrical Machines II, Power System II, PLC and Power Electronics.
- 6 No. of II Year EEE students handled the class room seminars on various topics in "Digital Electronics".
- Selvan M. Palaniselvam and Selvan A. Boopathirajan, II year/IV Semester EEE Students won the First Prize in the Technical Quiz conducted in the topic "Digital Electronics" on 17.01.2018.
- Selvan S. Kavimuthuraja and Selvan M. Muthuraj, III year/VI Semester EEE Students won the First Prize in the Technical Quiz conducted in the topic "Power Electronics" on 23.02.2018.
- Selvan P. Ponmurugan and Selvan S. Vijay Kumar, III year/VI Semester EEE Students won the Second Prize in the Technical Quiz conducted in the topic "Power Electronics" on 23.02.2018.
- Winners of Intra-Collegiate Activities for the year 2017 -2018 (III Year EEE): First Prize in Class room Seminar: Selvan M. Sankarraj, Second Prize: Selvan P. Ganesan. First Prize in Quiz: Selvan S. Aathinarayanamoorthi & Selvan M. Dhanasekaran. First prize in Quiz (III Year EEE Shift): Selvan E. Nandeeswaran. First prize in Model Making Contest: Selvan M. Senthilkumar & Selvan T. Senthilkumar and M. Mageshkumar.
- Winners of Intra-Collegiate Activities for the year 2017 -2018 (II Year EEE): First Prize in Class room Seminar: Selvan G. Ayyanar, Second Prize: Selvan B. Hariharasudhan. First Prize in Quiz: Selvan M. Ananth & Selvan M. Vairamuthu. First prize in Quiz (II Year EEE Shift): S. Sathiyajothi. First prize in Model Making Contest: Selvan S. Hariharasudhan & S. Arunkumar.

### ISTE Students' Chapter

- Selvan S. Kavimuthuraja and Selvan M. Muthuraj III Year/VI Semester won the First Prize in the Model Making contest (Project Title : PLC based Smart Monitoring and Control System) conducted at Kalasalingam University, Krishnankovil. This programme was jointly organized by Madurai Productivity Council on 17.02.2018.

### Course Work By Industry

Mr. G. Rajaganesan Head-Technical Operations, VATIO Energy India Pvt Ltd (Solar Division), Chennai conducted the Industry Based Elective course on "Solar Photovoltaic Systems" for III Year students on 17.12.2017. During his lecture, he covered the topic "Various Configuration of Solar PV systems". III Year EEE students (29 nos.) got benefitted from this lecture.

### Real Timer Project done by the students'

Selvan S. Kavimuthuraja, M. Muthuraj and P. Ponmurugan of III year EEE students developed a Mini Project on "Arduino Based College Bell Control" for real time application under the guidance Mr. G. Rajagopal. This project is installed at Electrical Engineering Lab-II to ring the bell as per college timings and it is working properly. The same team of students also developed a Mini Project on "Arduino and RTC based street light controller" for real time application under the guidance of Mr. G. Rajagopal. This project is installed at our Hostel to save the electricity by automatically switching off the light during the day time.



## Seminar/Workshop

- Dr. V.R. Velmurugan, Mr. M. Muthukrishnan, Mr. K. Karthikeyan, Mrs. J. Jeyabharathi, Ms. G. Poornima and Mr. G. Rajagopal attended a one day workshop on "Assembling of 5W LED Light" sponsored by Crest LEDs Pvt Ltd, Nagarcoil. This workshop was conducted at our college on 18.01.2018.
- Dr. V.R. Velmurugan, Mr. S. Arun Sankar, Mrs. P.Sudhanthira, Mr. K. Karthikeyan and Mr. G. Rajagopal attended a one day training programme on "NI ELVIS II Circuit Design Board" sponsored by VI Solutions, Bangalore. This programme was conducted at our college on 16.12.2017.
- Mr. V. Sureshkumar, attended a one day workshop on "Recent Trends in Robotics and Automation" held at Arasan Ganesan Polytechnic College, Sivakasi on 10.01.2018.
- Mrs. J. Jeyabharathi attended a three day workshop on "Arduino" sponsored by IIITDM, Khanchipuram. This programme was organized at our college from 07.02.2018 to 09.02.2018.
- Dr. V.R.Velmurugan and Mr. G. Rajagopal along with our beloved Principal visited the Centre of Excellence established by the M/s Schneider at Institute of Electricity and Energy Management, Government ITI, Bangalore on 15.12.2017.

## Faculty Development Programme

- Dr. V.R. Velmurugan and Mr. V. Sureshkumar, attended an AICTE sponsored one week TEQIP on "Research Opportunities and Challenges in Robotics" held at Thiagarajar College of Engineering, Madurai, from 19.02.2018 to 25.02.2018.
- Mr. G. Rajagopal attended a three day workshop on "Industrial Automation using PLC, HMI and Drives" held at Mepco Schlenk Engineering College sivakasi from 01.03.2018 to 03.03.2018.
- Mr. S. Arunsankar, and Mr. V. Sureshkumar, attended a three week "Faculty Induction Programme" held at IIITDM, Khanchipuram from 07.05.2018 to 31.05.2018.

## Department Lab Visit By Other College Students

70 nos of BE (ECE) students along with 5 faculty from Sri Vidya College of Engineering & Technology, Virudhunagar visited our Centre for High Skill Training & Research - Industrial Automation Laboratory, Solar PV System Lab and Electrical Engineering Lab I & II on 06.01.2018.

## Technical Event

- Paper presentation, Technical Quiz and Circuit Debugging contest were organized in the field of Power Electronics under ISTE Students chapter by Mrs. P. Sudhanthira and Mr. K. Karthikeyan for III Year EEE students on 23.02.2018.
- Winners of the Paper Presentation Contest: L. S. Sunil Varma & D. Tamilselvan won the I Prize and S. Arunjunai Karthick & P. Ponmurugan, won the Second Prize.
- Winners of Circuit Debugging Contest: R. Mariappan & S. Venkateshan, won the First Prize, P. Ponmurugan & G.Pongurusekar, won the Second Prize and V. Pandi Durai & T. Navaneethan won the Third Prize.



- Winners of Quiz Programme: Selvan M. Sankarraj & Selvan K. Hariprasath won the First Prize and Selvan S. Vignesh & Selvan P. Selvakumar, won the Second Prize.
- Mrs. A.S.Venkatramani, HOD In-Charge/ECE acted as judge for the Paper Presentation contest and our beloved Principal gave the awards to the winners of these events.

## Farewell Party to Retired Faculty



The Farewell party was conducted to Mr. S. Sundaram, AV Operator/EEE Department on 14.03.2018. Our Principal honoured Mr. S. Sundaram.



## Centre for High Skill Training & Research

Centre for High skill Training and Research was established in our institution. Dr. V.R.Velmurugan, Mr. G. Rajagopal and Mr. M. kalyanasundaram conducted the following Value Added Programmes:

- ❖ "PLC Programming" at Ramco Institute of Technology, Rajapalayam for 37 students from 04.12.2017 to 08.12.2017.
- ❖ "PLC Programming" at Kongunadu Polytechnic College, Thottiam for 108 students from 20.12.2017 to 24.12.2017.
- ❖ "Sensor Technology" at Ramco Institute of Technology, Rajapalayam for 30 students from 11.05.2018 to 16.05.2018.
- ❖ Dr. V.R.Velmurugan and Mr. G. Rajagopal acted as resource persons for the Value added programme (One Credit System) on "PLC Programming" conducted at KSR College of Technology, Tiruchengodu for 44 students from 22.12.2017 to 24.12.2017.



- ❖ Dr. V.R.Velmurugan and Mr. G. Rajagopal acted as resource persons for the Awareness Programme on "Sensor Technology" organized at KSR Institute of Engineering and Technology, Tiruchengodu for 42 students on 23.12.2017.

- ❖ Mr. G. Rajagopal, Mrs. M. Seetha and Mrs. J. Jeyabharathi acted as resource persons for the Value added program on "Arduino Programming" organized at Ramco Institute of Technology, Rajapalayam for 46 students from 29.05.2018 to 02.06.2018.

### Students' Corner



Selvan M. Muthuraj, III Year EEE



Selvan P. Ponmurugan, III Year EEE



Award Winners

**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. Esakki Raja, III Year EEE
- Selvan. J.K. Bharath Sugumar, III Year EEE

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