



Department of Electrical and Electronics Engineering

E-Waves

Department Newsletter
Dec 2018 to May 2019

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

VOLUME : 3 ISSUE : 2

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

The true sign of intelligence is not knowledge but imagination.

- Albert Einstein

Editor 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.

Industry Based Elective on "Vertical Transportation Systems"

Our Department has signed an MoU with M/s Johnson Lifts Pvt Ltd, Chennai for offering Industry Based Elective (IBE) titled "Vertical Transportation Systems" to our Final Year Electrical and Electronics Engineering students. Under CSR initiative, M/s Johnson Lifts Pvt Ltd has set up state-of-the-art workshops such as Electrical Lab – I, Maintenance Lab-II and Elevator shaft structure at our institute for conducting Theory and Practical classes for Elective courses. The above facility was inaugurated on 3rd December 2018 by our beloved Chairman Shri. P.R. Venketrama Raja, Mr. V. Jagannathan, Executive Director, Johnson Lifts Pvt Ltd and Mr. Yohan K. John, Director, Johnson Lifts Pvt Ltd at a grand inaugural function organised at our college premises. Mr. P. Sathiskumar Jha, Deputy General Manager, SHE and Training, Johnson Lifts Pvt Ltd, our Principal Dr. R. Venkatraj and faculty of EEE department will co-ordinate the scheme towards successful implementation in the years to come.



Inauguration of Industry Based Elective on "Vertical Transportation System"

MoU Signed for IBE on "Solar Photovoltaic Systems"

On 31.01.2019, Our Department signed an MoU with M/s VATIO Energy India Pvt Ltd, Chennai for offering industry based elective titled "Solar Photovoltaic Systems" to our Final Year Electrical and Electronics Engineering students.



Guest Lecture

- Prof. S. Sundara Mahalingam, Assistant Professor from Mepco Schlenk Engineering College, Sivakasi delivered a guest lecture on "Current Scenario in Indian Power System" on 22.02.2019.



- Mr. K. Ramesh Kumar, Engineer from Sine Wave Technologies, Sivakasi delivered a guest lecture and Demo on "Open Core Engineering with PLC & HMI Trainer Kit" on 18.03.2019.
- Mr. P. Rajganesh, Technical Associate from ITC Ltd, Bangalore delivered a Guest Lecture on "Roll of sensors in Food Processing Industries" on 21.03.2019.

Industrial Visit

- Two batches of II Year/IV Semester EEE students (99 Nos) visited the District Science Centre, Tirunelveli and M/s Ramco Windfarms Ltd, Aralvaimozhi on 04th & 21st Feb 2019.
- 54 students of II Year/IV Semester EEE department visited the M/s Ramco Packing Plant, Ramco Cements Ltd, Nagarcoil on 04.02.2019.



- 54 students of II Year EEE visited the M/s VVD Oil Mills Ltd, Tuticorin on 05.02.2019.
- 30 students of III Year/VI Semester EEE department visited the Solar Water Pump Plant, Rakkatchiamman Kovil, Rajapalayam on 01.03.2019.

In-Plant Training

II Year/IV Semester EEE students numbering 170, underwent one week unpaid In-Plant training to 25 industries in the month of May 2019. Reports will be submitted by the students after completing the training.

Value Added Programme through CIICP

"Robotics" course was conducted for II year EEE students (60 Nos) by our staff members Mr. G. Rajagopal, Mrs. M. Seetha, Mr. S. Shanmugaraj and Mr. B. Muthukumar during the period 29.04.2019 to 11.05.2019.



"Solar PV Systems" course was conducted for II year Mechanical students (19 Nos) by our staff members Mr. G. Rajagopal, Mr. M. Muthanantham and Mr. J. Navaneethan during the period 02.01.2019 to 15.02.2019.

Placement Statistics

#	Name of the Company	No. of Students Placed	Salary in Rs.
1	Yamaha Motors, Chennai	1	Rs. 12,000 + Food
2	Zoho Corp, Tenkasi	1	Rs. 8,000 + Food + Accommodation
3	Igarashi Motors, Chennai	1	Rs. 12,000 + Food
4	Lucas TVS, Pondicherry	2	Rs. 12,000 + Food + Accommodation
5	Alstom Transports, Coimbatore	3	Rs. 19,300 + Food
6	JK Tyres, Chennai	13	Rs. 12,000 + Food
7	TSTS, Bangalore	3	Rs. 21,000 + Food
8	Tube Products of India, Chennai	8	Rs. 12,200 + Food
9	Sakura Auto Parts Pvt Ltd, Chennai	2	Rs. 14,200 + Food
10	Lucas TVS, Chennai	14	Rs. 11,500 + Food + Accommodation
11	Sens Edge Pvt Ltd, Bangalore	2	Rs. 16,500
12	Regen Power Tech Pvt Ltd., Chennai	5	Rs. 11,800 + Food + Accommodation
13	Saravana Automation Pvt Ltd, RJPM	3	Rs. 8,000
14	Ramco Industries Ltd, Chennai	2	Rs. 18,000
15	Johnson Lifts Pvt Ltd, Chennai	19	Rs. 17,618

Project Work

Our III year students have completed 27 projects in various technical areas such as PLC, Microcontroller, Arduino, Solar PV System, Robotics, Internet of Things (IoT) and Power Electronics. The project titled "Public Garden Automation" was selected as best project for the year 2018-2019.

Institution of Engineers (India)

- 41 No. of II and III Year students handled the class room seminars on different topics.
- Selvan G. Raghul and Selvan S. Sheik Mydeen Thanis of II Year EEE participated in the Model Making Contest on 25.02.2019.
- Selvan B. Harihara Sudhan and S. Arun Kumar of III Year EEE participated in the Model Making contest conducted on 01.03.2019.
- Selvan D. Somasundar, III year EEE, won the First Prize for class room seminar taken on 16.03.2019.
- Selvan G. Prakash Ganesan, III Year EEE won the II prize for class room seminar taken on 13.03.2019.
- G. Karthick Raja, M. Pragadeeswar and G. Sabarimuthuraja received the First Prize (II Year) and A. Kaliraj, G. Esakkikumar, M. Kalidass, A. Ayyanar and G. Ayyanar won the First Prize (III Year) in Technical Quiz conducted in class room on 22.01.2019 & 25.02.2019.
- 5 No. of II year and 15 No. of III year EEE have registered and submitted assignment with NPTEL On-Line course during the period Jan to April 2019.

ISTE Students' Chapter

- Selvan G. Prakash Ganesan of III Year EEE won the First prize in the paper presentation contest conducted at Lakshmi Ammal Polytechnic College, Kovilpatti.
- 10 No. of III Year students participated in the one day workshop on "Career Opportunities for Engineering Graduates" at Mepco Schlenk Engg. Collage, Sivakasi.

Awards & Scholarships

- Selvan G. Prakash Ganesan of III Year EEE received Thandal Jangaraja @ Krishnamaraja Vijayalakshmi Gold Medal for the Best outgoing EEE student of the year 2018 -2019.
- Selvan S.Puthiyaraj (II Year) and G. Harikesavan (III Year) received the Ramco scholarship for the year 2018 – 2019.
- Selvan M. Pragadeeswaran (II Year) and D. Harisankar (III Year) received Thandal Jangaraja @ Krishnamaraja Vijayalakshmi scholarship for the year 2018 -2019.

Other Activities

- Additional Lab Experiments using Arduino (Open Source Platform) was conducted in Digital Electronics and LIC Practical for II Year/IV Semester EEE students by our faculty Mrs. M. Seetha and Mrs. J. Jeyabharathi during the period Dec 2018 to March 2019.
- Hands on training on "Fabrication of Robotics Learner Kit using Arduino" was given to II Year/IV Semester students (06 Nos) by Mr. G. Rajagopal, JDO during the period Feb 2019 & April 2019.



- To enhance the students centric learning, Mentoring program was conducted by Dr.V.R. Velmurugan, Mr. R. Victor German and Mr. M. Kalyanasundaram during the month of May 2019 for II year/ IV Semester bright students.

Entrepreneurship Development

20 No. of III year students attended the Entrepreneurship Awareness Camp on 28th & 29th December 2018 at our polytechnic college.

Women in Development (WID)

- Selvi Mahalakshmi of II year EEE student participated in the Seminar on "Digital Literacy and ON Line safety" conducted on 13.12.2018 at our college.
- Selvi Mahalakshmi of II year EEE participated in the Eve's Fest Programme held at Arasan Ganesan Polytechnic College, Sivakasi on 05.01.2019.

Sports

- II year EEE students, Selvan P. Kartheeswaran, S. Bharath and R. Ramkumar participated in the IPPA-Tirunelveli Division Ball Badminton Tournament conducted at SCAD Polytechnic College, Cheranmahadevi on 19.12.2018.

Roll of Honour for the Batch 2015 - 2018

- Selvan L.S. Sunil Varma (First Rank in the academic performance of the Batch 2015 -2018) received Sri. S.K. Kandasamy Chettiar Award during the Annual day function held on 15.02.2019.

NPTEL On-Line Courses

The following staff members of our department has completed the NPTEL on Line courses during the period January to April 2019.

- ❖ Dr. V.R. Velmurugan: 12 week course on 1) Non-conventional Energy Sources and 2) Introduction to Industry 4.0 and Industrial Internet of Things (IIoT).
- ❖ Dr. G. Madasamy: 1) Fundamentals of Electronic Material and Devices (12 week) 2) Advanced Power Electronics and Control (12 week), 3) Electric Vehicles – Part I (4 week) and 4) Teaching and Learning in Engineering (TALE) (8 Week).
- ❖ Mr. S. Arunsankar: 12 week course on “Non-Conventional Energy Resources”.
- ❖ Mr. M. Victor German: 12 week course on Electrical Machines II.
- ❖ Mr. M. Kalyanasundaram: 12 Week course on “Introduction to Industry 4.0 and Industrial Internet of Things (IIoT)”.
- ❖ Mrs. M. Seetha: 1) Introduction to Internet of Things (IoT) (12 week) and 2) Digital Circuits (12 week).
- ❖ Mr. M. Muthanantham: 12 week course on Non-Conventional Energy Resources.
- ❖ Mr. S. Shanmugaraj: 12 week course on 1) Non-Conventional Energy Resources and 4 week course on 2) Electric Vehicle – Part I.
- ❖ Mr. G. Rajagopal: 12 weeks course on “Non-Conventional Energy Resources”.

Staff Achievement

- ❖ Mrs. M. Seetha, has scored 92% with Gold Medal in the NPTEL On Line exam on “Introduction to Internet of Things (IoT)” conducted during the month of April 2019.
- ❖ Mr. G. Rajagopal, has scored 80% with Silver Medal in the NPTEL On Line exam on “Non-Conventional Energy Resources” conducted during the month of April 2019.

New Faculty Joined

Mr. B. Muthukumar B.E, joined as a faculty in our department on 19.12.2018. We wish him all success in his career.

Faculty Development Programme

- Mr. M. Muthanantham and Mr. J. Isac Daniel attended an AICTE sponsored one week TEQIP on “Smart Supply Chain in Industry 4.0: Research Trends and Challenges” held at Thiagarajar College of Engineering, Madurai, during the period 18th to 24th March 2019.

One Day Seminar/Workshop

- Mr. R. Ramesh Kumar, Dr. V.R. Velmurugan, Dr. G. Madasamy, Mr. S. Arun Sankar and Mr. G. Rajagopal attended the one day program on “Preparation of NBA-SAR” for Outcome Based Accreditation on 23rd March 2019. Mr. Rajasekaran, HoD/Civil of Rajagopal Polytechnic College, Kudiyatham was the Resource Person.
- Mr. R. Ramesh Kumar, Dr. V.R.Velmurugan, Dr. G. Madasamy, and Mr. G. Rajagopal attended the NBA-SAR review meeting on 14.04.2019. NBA-SAR was reviewed by Dr. N. Alagumurthy, Professor, Chartered Engineer and Energy Manager, from Pondicherry Engineering College, Pondicherry.
- Mr. G. Rajagopal visited the Siemens Centre of Excellence at MIT Campus, Chennai on 15.04.2019.

Centre for High Skill Training & Research

Our Staff Members Dr. V.R.Velmurugan and Mr. G. Rajagopal acted as resource persons for conducting Value Added Programme and Workshop on “PLC Programming” at Vivekananda Engineering College for Women, Tiruchengodu, KSR Institute of Engineering and Technology, Tiruchengodu and Mahendra Engineering College, Mallasamuthiram during the period January 2019. Totally 178 engineering college students were benefitted through these value added programmes.

One day hands on training program on “Arduino Based Robotics” was conducted at Ramco Vidyalaya School (CBSE), R.R. Nagar for 8th standard students (80 Nos) by our staff members Mr. G. Rajagopal, Mrs. M. Seetha and Mr. J. Navaneethan on 15.03.2019.

Half a day awareness program on “Arduino Based Robotic”s was conducted at Chinmaya Vidyalaya P.A.C. Sethurammammatric Higher Secondary School, Rajapalayam for 8th standard students (80 Nos) by our staff members Mr. G. Rajagopal, Mrs. M. Seetha and Mr. J. Navaneethan on 04.04.2019.

Course Work by Industry

The following Industry Experts from M/s Johnson Lifts Pvt Ltd, handled the Theory and Practical classes of "Vertical Transportation Systems" for III year students (20 Nos). during the period Dec 2018 to April 2019.

- ❖ Mr. P. Satishkumar Jha, DGM; SHE & Training, JLPL, Chennai. Date: 05th Jan, 09th Feb, 08 & 09th March 2019
- ❖ Mr. S. Gopala krishnan, Assistant Manager, JLPL, Chennai. Date: 22nd & 29th Dec, 04th & 12th Jan 2019.



- ❖ Mr. George Varghese, Sr. Engineer - Training Center, JLPL, Cochin. Date: Dec 2018 to April 2019.
- ❖ Mr. S. Jayakumar, Senior Engineer-Safety JLPL, Chennai. Date: 15th Dec 2018, 04th & 05th Jan 2019.
- ❖ Mr. J.R.M. Ilaiya Pallavan, Design Dept., JLPL, Chennai. Date: 22nd Dec 2018.
- ❖ Mr. T. John Ravi, Inspection Engineer, JLPL, Chennai. Date: 19th Jan 2019 & 16th February 2019.
- ❖ Mr. N. Pon Ayyappan, Sr. Engineer – Operations, JLPL, Madurai. Date: 25th Jan 2019.
- ❖ Mr. D. Lakshmi Narayanan, Engineer – Operations, JLPL, Chennai. Date: 25th Jan 2019. & 02nd March 2019.
- ❖ Mr. M. Ilaiyaraja, Sr. Engineer/FED/HO Department, JLPL, Chennai. Date: 02nd & 09th February 2019.
- ❖ Mr. Sivasankar, Assistant Manager, JLPL, Bangalore. Date: 23rd February 2019 & 16th March 2019.
- ❖ Mr. Saravanan, Assistant Manager/Service, JLPL, Chennai. Date: 09th March 2019.
- ❖ Mr. S. Venkatesan: Foreman. FED Department, JLPL, Chennai. Date: 15th February 2019.
- ❖ Mr. B. Thangapandi, Erection Engineer, JLPL, Madurai. Date: Dec 2018 to April 2019.
- ❖ Mr. S. Ahilan, Erection Engineer, JLPL, Madurai. Date: Dec 2018 to April 2019.
- ❖ Mr. I. Ramesh, Erection Engineer, JLPL, Madurai. Date: 15th February 2019.

We express our sincere thanks to all the above industry experts for their content delivery in an effective manner for successful completion of First batch of the Elective course Vertical Transportation Systems".

Mr. G. Rajaganesan Head-Technical Operations from M/s VATIO Energy India Pvt Ltd (Solar Division), Chennai handled the sessions on "Solar Photovoltaic Systems" on 15th & 16th December 2018 for III Year students.



Mr. R. Shanmugaraman, Executive from Innovative Solar Energy System, Virudhunagar, handled the sessions on "Solar Photovoltaic Systems" on 23rd February 2019 for III Year students.

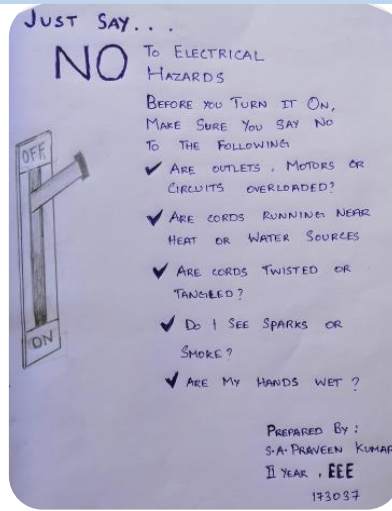
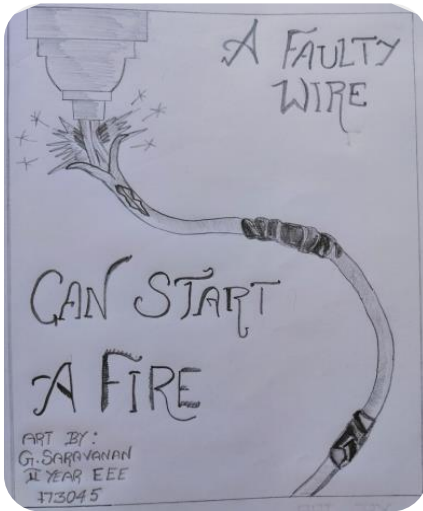
Department Lab Visit by External Experts

- ❖ Dr. Arularasu, Additional Director Polytechnic (Exam) and Dr. Sreerambabu, Additional Director Polytechnic (Planning) visited our Elevator Structure and Lift Simulators at Electrical Lab I (IBE) on 23.12.2018.



- ❖ Mr. G. Rajaganesan, Head-Technical from M/s VATIO Energy India Pvt Ltd , Chennai visited our Lab on 10.04.2019.
- ❖ Dr. Rajat Panigrahy, Dr. S.K. Das, Mr. Subhasis and Mr. Shashidhara (GM –Training & Industrial Partnership) from Odisha Skill Development Authority (OSDA), Odisha visited our Electrical Engg Lab I & II, PLC Lab, Sensor Lab, SPV Lab and Elevator Structure and Lift Simulators at Electrical Lab I (VTS-IBE) on 26.04.2019.
- ❖ Mr. A.P. Sivaraman, Director, Sinetec Technologies from Coimbatore visited our Electrical Engg Lab I & II, PLC Lab, Sensor Lab and Elevator Structure and Lift Simulators at Electrical Lab I (VTS-IBE) on 15.05.2019. During his visit, we discussed the possibility of exploring Industry Based Elective on "Power Quality".

Students' Corner



First Batch of VTS Elective students



New Facilities Created



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

website: www.pacrpolo.org

e-mail: pacreer@gmail.com