



Department of Electrical and Electronics Engineering

E-Waves

Newsletter - Dec 2017

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

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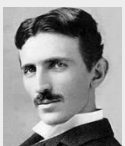
Vision

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



"Of all things, I liked books best."

— Nikola Tesla

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.

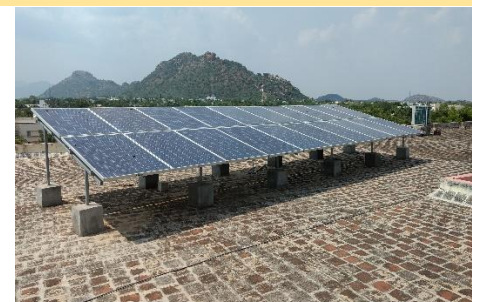
Personality Development Programme

Under CSR initiative, Mahindra Pride School, Naandi, Chennai conducted Personality Development Programme for EEE students (59 nos.) from 01.06.2017 to 08.06.2017. The students have benefitted from this programme.



Installation of On-Grid Solar Power Plant

In addition to existing 5KW solar power plant, a second unit of 5KW ON Grid solar power plant has been installed at our polytechnic college. This facility is also utilized to conduct practical for the Elective course "Solar Photovoltaic Systems"



Guest Lecture

Mr. K. Rahuman Basith and his team members, from Update Power Systems, Salem, delivered a guest lecture on the topic "Recent Trend in Switch Gear Protection" for III year/ V Semester Electrical and Electronics Engineering students on 11.09.2017.



Value Added Programme through CIICP

Value added course on "Sensorics" was conducted for III Year EEE students (74 nos.) from 06.11.2017 to 13.11.2017 (Batch I) and 27.11.2017 to 02.12.2017 (Batch II). Mr. G. Rajagopal and Mr. K. Karthikeyan handled the sessions.



Industrial Visit

- Two batches of III Year/V Semester EEE students (126 nos.) visited the M/s Padmavahini Transformer, Coimbatore on 09th & 22nd August 2017.
- Two batches of III Year/V Semester EEE students (126 nos.) visited the M/s Salzer Electronics, Coimbatore on 08th & 23rd August 2017.
- Two batches of III Year/V Semester EEE students (126 nos.) visited the M/s Doddapetta Tea Factory and M/s Pykara Micro Hydel Power Plant, Ooty on 07th & 25th August 2017.
- Two batches of III Year/V Semester EEE students (126 nos.) visited the M/s Radio Astronomy Centre, Ooty on 06th & 24th August 2017.
- Two batches of III Year/V Semester EEE students (126 nos.) visited the M/s S&T Workshop, Pothanoor on 08th & 23rd August 2017.
- II Year/III Semester EEE students (53 nos.) visited the M/s Tuticorin Thermal Power Plant (TTPS), Tuticorin on 01st September 2017.

In-Plant Training

II Year/III Semester and III Year/V Semester EEE students numbering 287, underwent a one week unpaid in-plant training in 60 industries such as TANGEDCO 110KV Substation, Saravana Textile Mills Pvt Ltd, Tamilnadu Corporation Ltd, Ramco Cements Ltd, Universal Control Automation, TPR Electricals, Sri Ram Automation, Gopi Electricals, Gowri house metal works, S&S Engineers, Subburaj Cotton Mills, Sri Vishnu Sankar Mills Ltd etc., during the month of Oct/Nov 2017.

Placement Training

- Mr. M. Uthandaraman, Technical Assistant, ISRO, Trivandrum conducted a Career Guidance Programme for 69 nos. of III Year students on 16.06.2017.
- Er. P. Kodanapani, TVS Eon Ltd, Chennai conducted a soft skill training Programme for 107 nos. of III Year students on 03.08.2017.



Induction Programme for I Year Students



Induction programme for all first year students was conducted at our assembly hall on 21.06.2018. EEE department Alumnus Mr. K. Karthikeyan, AE/SLDC/TNEB and other alumni of various departments shared their experience in this institution.

Institution of Engineers (India)

- 46 nos. of II & III Year students handled the class room seminars on various topics in "Electrical Machines I", "Electronic Devices and Circuits", "Power System I", "Microcontroller", "Control of Electrical Machines" and "Electrical Estimation and Energy Auditing".
- 26 nos. of II & III Year students actively participated in the Model Making contest on various topics in "Electrical Machines I" and "Control of Electrical Machines".
- 67 nos. of II and III Year students participated in the Class room level Technical Quiz contest on various topics in "Electrical Circuit Theory", "Electronic Devices and Circuits", "Power System I" and "Microcontroller".
- 04 nos. of III Year/V Semester students are actively participated in the Program Development in "Microcontroller".
- Selvan G. Harikesavan, II year EEE won the second prize in the Class room seminar held on 14.07.2017 on the topic Swinburn test.
- Selvan B. Jegadeesh, II year EEE won the first prize in the Class room seminar held on 26.07.2017 on the topic OC and SC test on Transformer.
- Selvan M. Muthuraj, III year EEE won the first prize in the Class room seminar held on 04.08.2017 on the topic Construction and working of SF6 CB.
- Selvan M. Esakkiraja, III year EEE won the second prize in the Class room seminar held on 29.06.2017 on the topic Power Controller for PM BLDC Motor.
- Selvan A. Balamurugan and K. Balamurugan, II Year/III Semester EEE, won the First Prize in the Technical Quiz conducted on the topic DC Motor on 06.07.2017.
- Selvan S. Kavimuthuraja and M. Muthuraj, III Year/V Semester EEE, won the First Prize in the Technical Quiz conducted in the topic Microcontroller on 11.07.2017.

Other Activities

- Simulation of motor control circuits in Control of Electrical Machine practical was given as additional inputs to all the III year/V Semester students using EKTS Simulator software by our faculty Dr. V. R. Velmurugan and Mr. M. Kalyanasundaram from June 2017 to September 2017.



- Mentoring programme was conducted by Mrs. M.Seetha for 14 nos. of II year students from 27.11.2017 to 01.12.2017 for the course "Digital Electronics and Linear Integrated Circuits Practical".
- Transformer Oil Purification – Demo was given by TANDEM Oil testing industry on 14.10.2017 during their visit to college for Transformer Oil purification work.

New Faculty Joined

Miss. J. Jeyabharathi DEEE, B.E joined as a faculty in our department on 01.06.2017. We wish him all success in his carrier.

NSS

Blood donation camp was organised at our institution under NSS on 05.07.2017. II and III Year EEE students (12 nos.) participated and donated their blood.



ISTE Students' Chapter Activities

Selvan L.S. Sunilvarma and Selvan S. Venkadeshan, III year/V Semester EEE, won the First Prize in the National Level Technical Symposium - Project titled "Distance Measurement using Ultrasonic Sensor" conducted at Sri Vidya Engineering College, Virudhunagar on 12.08.2017. The project was guided by Mr. M. kalyanasundaram, Lecturer/EEE.

FDP/Seminar/Workshop etc.,

- Our Principal Dr. R. Venkatraj, Dr. V.R. Velmurugan and Mr.G. Rajagopal attended a one day seminar "NI Products - Virtual Instruments" at NI Days – 2017 at Bangalore.
- Our Principal Dr. R. Venkatraj, Dr. V.R. Velmurugan and Mr.G. Rajagopal had a discussion with Dr. Narayanamoorthi, HR-Manager, Mr. Wilfred Clarence, General Manager and Mr. P. Satishkumar Jha, DGM, M/s Johnson Lifts Pvt Ltd, Anna Nagar, Chennai regarding Industry Based Elective on 20.06.2017.
- Mr. R. Rameshkumar, Dr.V.R. Velmurugan, Mr. S. Arunsankar, Mr. G. Rajagopal, Mr. M. Muthukrishnan, Mr. K .Karthikeyan, Mr. K. Senthikumar and Mr. M. Vanarajan attended a one day training programme on "NI ELVIS Kit, Quanser Mechatronics Sensor and Quanser Mechatronics Sensor Kit" sponsored by VI Solutions, Bangalore on 13.07.2017.
- Dr. G. Madasamy delivered a guest lecture on the topic "Energy Conservation and Energy Auditing" at ANJA Polytechnic College, Sivakasi on 11.07.2017 for III year EEE students.
- Dr. V.R.Velmurugan and Mr. G. Rajagopal attended a 5 day training programme on "LABVIEW Core 1 & Core 2" at National Instruments, Bangalore from 12.06.2017 to 16.06.2017.
- Dr. V.R.Velmurugan and Mr. G. Rajagopal attended a 4 day training programme on "TIA portal SIMATIC Programming Basic" at The Siemens Centre, Singapore and "Introduction to IoT" at Keystone Automation Pvt Ltd, Singapore from 04.07.2017 to 11.07.2017.



- A two day (13.07.2017 & 14.07.2017) hands on training programme was conducted at HSTC by Mr. Bharath from Bosch Rexroth on Hydraulics, Electro Hydraulics, Proportional Hydraulics and Sensor Trainer Kits. Mr. R. Rameshkumar, Dr. V.R.Velmurugan, Mr. S. Arunsankar, Mr. G. Rajagopal and Mr. M. Muthanantham attended the training programme.



- Department faculty attended a 2 hour session on "e-Attendance for students" conducted at the Teaching Aid Center by Mr. G. Ganesh Kumar, System Administrator on 19.06.2017.
- Orientation programme for Phase 18, Replication polytechnic colleges was organized under SPCU, DoTE & CIICP of our institution on 14th & 15th July 2017. Dr. V.R. Velmurugan and Mr.G. Rajagopal disseminated the contents of STTP attended at SIEMENS, Singapore.

- Mr. S. Arun Sankar, attended a one week STTP on "Circuit Simulation and PCB Design using Multisim" conducted by NITTTR, Chennai from 05.06.2017 to 09.06.2017.
- Mr. S. Arun Sankar and Mr. M. Muthanantham, attended a one day seminar on "Sensor Interfacing and Real time Applications" conducted by Kongu Engineering College, Erode on 12.08.2017.
- Mr. V. Sureshkumar acted as one of the resource persons for the in-house training programme on "Team Building" for our staff members on 05.08.2017.

Centre for High Skill Training and Research

Value Added Programme on "PLC Programming" was organised in the following Colleges. Dr. V.R. Velmurugan, Mr. G. Rajagopal and Mr. M. Kalyanasundaram acted as resource persons.

- KSR Institute of Engineering and Technology, Tiruchengodu from 07.08.2017 to 10.08.2017. 45 students from III year BE-EEE participated.



- Mahendra Engineering College for Women, Tiruchengodu from 21.08.2017 to 24.08.2017. 44 students from III year BE - ECE participated.
- Kongunadu Polytechnic College, Thottiyam and Kongunadu Polytechnic College, Cudalore from 19.08.2017 to 20.08.2017. 108 students of II & III Year EEE participated.
- Mahendra Engineering College for Women, Tiruchengodu from 06.09.2017 to 09.09.2017. 52 students from III year BE - ECE participated.



- Ramco Institute of Technology, Rajapalayam from 13.11.2017 to 17.11.2017. 48 students from III year BE - EEE participated.
- Awareness programme on PLC and Sensor Technology was conducted for the faculty of VPMM Engineering College, Krishnankoil, Sri Vidya Engineering College, Virudhunagar and PSR Engineering College, Sevalpatti on 02.11.2017 by Dr. V.R.Velmurugan and Mr. G. Rajagopal.

Gallery



Value Added Course on "Sensorics"

PEO	Key Words	Description
1	Employability skills	The technocrats will have strong knowledge in the fundamentals of Electrical and Electronics Engineering and will have enhanced employability skills.
2	Higher Studies	The students will become eminent engineer by pursuing higher studies.
3	Entrepreneurship	The technocrats will become entrepreneurs and solution providers to cater to the needs of industries
4	Professionalism	The technocrats will have good Professional background with ethical values and engage themselves in lifelong learning.

Programme Educational Objectives (PEOs)



Workshop on "Solid Waste Management"



Faculty in the seminar @ Kongu Engg. College, Erode

Students' Corner



Selvan M. Muthuraj, III Year EEE



Selvan S.Venkadaseshan, III Year EEE



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

website: www.pacrpolo.org

e-mail: pacreee@gmail.com