

ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

ELECTROVISION 2k19

Electronics and Communication Engineering
Newsletter

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Academic Year
2018-19

PALKULAM, KANYAKUMARI - 629401

From the Desk of the Chairman



Dear All, “Learning gives creativity, creativity leads to thinking, thinking provides knowledge, knowledge makes you great” - Dr.A.P.J.Abdul Kalam.

These words by - Dr.A.P.J.Abdul Kalam perfectly describe our aim at Rohini College of Engineering and Technology. Beyond providing a sound education, we wish to provide our students a holistic learning experience for life. Our aim is to teach students to LEARN, not just STUDY. Hence, we strive to travel beyond the boundaries of mere books. We have realized that the future is abstract and unknown but the youth in our hands are real and can be molded. Engineers play the most vital and important role in nation building. They create new inventions using best engineered technologies to make human life more comfortable, secure and productive.

In modern times, nations which have rich engineering and experienced technological domains are flourishing economically and are providing better lives to their people. We have excellent potential to grow in diversified areas and excel in Engineering and technological fields. We need enormous number of engineers and managers to write next story of success. We have identified the needs of modern engineering, technology for modern age students, with a vision and mission accompanying transparency, accountability and accessibility which keeps us abreast. I can proudly say that Rohini College of Engineering and Technology is the most modern and sophisticated multidisciplinary institution, imparting quality education and providing a wide and varied arena for the staff and students to showcase their academic and extracurricular talents. With relentless efforts, the college aspires to orchestrate the students' potential for the enrichment and progress of society by equipping them with technical expertise and soft skills. Students are encouraged to build their character through well disciplined training along with sports, physical and spiritual development activities. Students are also given ample opportunities to broaden their horizons academically. Teachers play a key role in the education and also in student's life. Our well qualified and experienced Teaching faculties guide the students to hone their talents to excel in this competitive world. I am proud to say that once our students step in; they step out with self-confidence and knowledge to face all future endeavors with full conviction. Fly in the plane of Ambition, Land in the Airport of Success, The luck is yours the wish is mine. May your future always shine, Good Luck.

Cordially,

Shri.K.NEELA MARTHANDAN

Chairman, Rohini Groups

Managing Director's Message



Dear All, Endorsing creativity and stirring innovation are two of the vital elements of a successful education and Newsletter is the perfect amalgamation of both. It harnesses the nifty energies of the academic community and refines the essence of their inspired imagination in the most brilliant way possible. Hence, I am delighted to know that Newsletter of ECE Department "Electro Vision" is ready for publication. I take this opportunity to congratulate the editorial board for bringing out this Newsletter, which in itself is an achievement considering the effort and time required. May all the students soar high in unexplored skies and bring glory to the world and their profession with the wings of education!

Best Wishes,

Dr.N.Neela Vishnu, D.Lit.,

Managing Director,

RCET.

Chief Financial Officer's Message



Dear All, It is a matter of great pride and satisfaction to bring out the News Letter "Electro Vision" released from the Department of ECE. I am confident that this issue of Department News Letter will send a positive signal to the staff, students and the person who are interested in the Technical education and Technology based activities. A News Letter is like a mirror which reflects the clear picture of all sorts of activities undertaken by the Department and develops writing skills among students in particular and teaching faculty in general. I congratulate the Editorial Board of this News Letter who have played wonderful role in accomplishing the task in stipulated time. Also my heartfelt Congratulations to staff members and Students for their fruitful effort.

With Best Wishes

Dr.V.M.BLESSY GEO, Ph.D.,

Chief Financial Officer

Principal's Message



Dear All, It gives me great pleasure, as a Principal of this college, to say a few words about Rohini College of Engineering and Technology. Any Institution, if it aims at reaching greater heights, needs to have clearly spelt Vision and Mission. Our college has set its Mission as to impart Quality Education to all the people, thereby developing the nation as a whole. Our long term vision being to achieve greater heights in the field of education by providing an opportunity to each and every individual to choose the right path, realize the value of education and achieve their goals by adding values through quality education. We give more emphasis to the overall molding of every student through quality education and In-plant training, right from the initial stage of education. The pleasing and peaceful environment in which the college is located, favors the students in focusing more on their studies. Well equipped laboratories and work shop with most modern and sophisticated instruments/machineries are provided to impart state-of-the-art education to the students. Ample opportunities are being provided to the students in Personality Development and other extracurricular activities. Well qualified and experienced teaching faculty is provided to impart quality education to the students. The placement cell has a vital role in placing the students in the reputed companies. With all these facilities in place and with the right attitude of the Management, The students who continue education in this esteemed Institution would be greatly benefited in future. Good Luck

Best Wishes,

Dr.R.RAJESH, M.E., Ph.D.

Principal , RCET.

From the ECE HOD's Desk



Dear all, At the outset, I would like to thank the Management and Principal for their continuous support and Guidance, Faculties and students for doing exemplary support and contributions in the department! It gives me immense pleasure to note that the editorial board brings out another edition of newsletter "Electro VSION". It is great to find students as winners and participants in co-curricular and extracurricular activities which certainly prove that our students are adequately equipped and possess necessary skill-sets to bring such laurels to the Institution and Department. The Department aims academic progression, skill development, inculcating research value, bringing out hidden talent of students as well as faculty members through activities like Guest lectures, Faculty Development Programmes, Research workshops, Technical Symposium, Mini-Project Expo etc., This newsletter is a medium to present the glimpse of such activities and achievements of the department in each semester to all the stakeholders. I am sure that by reading these pages you will get a bird's eye view about activities of ECE Department.

Best Wishes,

Dr.E.Sree Devi, M.E., Ph.D.

HOD / ECE, RCET.

From the Editor's Desk

It gives us great pleasure to bring you the first issue of "Electro Vision", the ECE department Newsletter of Rohini College of Engineering and Technology, Kanyakumari. The name and fame of an institute depends on the caliber and achievements of the students and teachers. The role of a teacher is to be a facilitator in nurturing the skills and talents of students. This magazine is a platform to exhibit the literary skills and innovative ideas of teachers and students "Electro Vision" presents the skills and innovative thinking of students and contributions of teachers. We would like to place on record our gratitude and heartfelt thanks to all those who have contributed to make this effort a success. We profusely thank the management for giving support and encouragement and a free hand in this endeavor. Last but not the least we are thankful to all the authors who have sent their articles. We truly hope that the pages that follow will make an interesting read.

Best Wishes,

Mr.P.BENESH SELVA NESAN, M.E., & Mr.C.K.MORARJI, M.E.,(Ph.D)

AP/ECE, RCET.

A Two day International Conference On RECENT INNOVATIONS IN COMPUTER AND COMMUNICATIONS

Department of Electronics and Communication Engineering and Computer Science and Engineering organized International Conference on Recent Innovations in Computer and Communications. The conference was presided by the Board of directors, Chief guest Dr. Kyung tae kim, Professor, Kalasalingam University, Academic Committee members, Guest of Honor Dr.Suresh Kumar, Senior Technical Engineer, Koodankulam, Nuclear Power Project, Heads of all Streams and the Students and Research Scholars. The International Conference aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Computer Science and Communication. Student of CSE presented the welcome address, Dr.E.Sree Devi, Head of Electronics and Communication Engineering and Prof. Sahila Devi, Head Dept of Computer Science introduced the Chief Guest, Dr.R.Rajesh, Principal of RCET addressed the participants about the importance of Compute-Communicate-Control to have the engineers tuned for tomorrow. The speech given by principal made students to know that life begins in the way we think and consider things instead of being trapped in matrix of thinking, also it portrayed the need of out-of-box thinking. In the august presence of the board of directors, Chief guest and the Heads of all streams, the CD Proceedings of the ICRICC'19 was released. The technical session was guided by Chief Guest Dr. Kyung tae kim, Professor, Kalasalingam University who gave an excellent presentation about the future technologies. This is an eye-opening for the students that make them to explore about new technologies. Several students and research scholars from other colleges participated and presented papers. This conference was executed with a cluster of events which includes 2 keynote sessions and paper presentation sessions. The valediction commenced with the feedback from the participants, followed by the brief description of conference report by Prof. Vahitha K Thangam, Coordinator of ICRICC'19. Then, The Principal of the college awarded the participants with certificates. Finally, the event was successfully completed with national anthem.

National Level Technical Symposium “RONIX 2K19”

The event started with the formal Inaugural function at 09.30 AM in The Grand Arena. The Board of Directors, Prof. Dr. T. Jeya Sree, Department of ECE, Govt. College of Engineering, Tirunelveli, Er. M. Rose Cyril Xavier, Sub Divisional Engineer, BSNL, Nagercoil were present on the dias. The function started with Invocation Song, followed by the welcome speech given by Jobin Jose, Final Year ECE. Association report was given by HOD of ECE, followed by presidential address given by Principal. Vote of thanks given by the student Ramalakshmi, Final Year ECE.

All technical and non technical events conducted in various rooms. Students from different colleges and from different departments participated. Total count of 150 students registered for different events and in particularly 13 students in Paper Presentation, 57 students for Technical Quiz, 7 students for Poster Design, 170 students for Gaming, 120 students for Connexion. All events were completed by 3pm with the winners list. Lunch was provided for all participants, co-coordinators and faculties.

Valedictory function started at 3.30pm with Principal as a guest. Students from different colleges shared their experience about RONIX 2K19 followed by Prize Distribution for winner's. Cash Prize of 10000 for 1st prize and 8000 for 2nd prize for technical events and electronic gadgets for non technical events. The function was finally ended by thanking management, Principal, Head of the department, faculties, Non teaching staff, the Sponsors and all student coordinators who worked for this event to make this event a grand success.



Guest Lectures

- A Guest Lecture on “Properties of Fourier Series” by Mr.L.Arivazhagn, Junior Research Fellow, Karunya Institute Of Technology And Science on 08.08.2018.
- A Guest Lecture on “Digital Communicayion” by Dr.B.Perumal, Associate Professor, Kalasalingam University, Sriviliputhoor on 10.08.2018.
- A Guest Lecture on “Probability and Random Process” by Mr.Jegatheesh,Proprietor and Tutor, ALC Academy, Nagercoil. on 13.03.2019.
- A Guest Lecture on “Communication Theory” by Mr.G.Thiraviya Suayambu, Professor & Head, Sree Sastha College of Engineering on 15.04.2019.

Seminar

- A Technical Seminar on “Fundamentals of Nuclear Technology and Radiation Protection” by Smt.Lakshmi Gopidas, Senior Technical Audit Engineer, KKNPP, NPCIL on 01.09.2018.
- A Technical Seminar on “Fundamental and Design of Analog SMPS” by Mr. Arul Das, Managing Director, TECHLAB Electronics, Chennai. on 11.01.2019.

Workshop

- A two days Workshop on “Fundamentals of MATLAB and It's Applications” by Er.K.S.Kavin, R&D Engineer, AB Technologies, Tirunelveli on 14.12.2018 & 15.12.2018.
- A one day Workshop on “VLSI Tools Design using Xilinx with Hands on Training” by Er.G.N.VELKUMAR,Project Trainee, Qualcomm Pvt. Ltd., Bangalore. on 01.03.2019.

Hands on Training

- A one week hands on training on “MATLAB and IoT” by Dr.Ahilan, Team Head & Trainer, Mindworkz Technologies, Nagercoil.
- A one week hands on training on “Embedded and MATLAB” by Mr.S.Abishek Venkadesh, Chief Innovation Officer, Masha Innovation Centre, Nagercoil.



SPECTRA - 2018

“A Perfect Blend of Innovation, Inspiration, Creativity”

SPECTRA is the annual technical extravaganza organized every year by Rohini College of Engineering and Technology which is a creativity program, aims at bridging the gap between universities and industries. This year it was organised for a week from 31st August 2018 to 05th September 2018 that aid the student participants to exhibit their neoteric ideas and also allow them to demonstrate their renovated concepts in this modernized world. It is an apt platform for the budding inventors to hone their methodological skills. Projects are taken from a variety of fields to provide ample opportunities for students with varying talents to participate in whatever fields they choose. In addition to all this, Spectra will ensure the fulfillment of both company needs and student needs. With the motto of promoting technology, scientific thinking, and innovation, SPECTRA believe in creating an incomparable ambience of science and technology. In its labor to bestow a wide platform for the students to unveil their talents and skill sets in intense competitions SPECTRA strives for one and all to get inspired and look up to. There were diurnal variations of guest lectures, Mashups of Special Events like technical projects, gaming events each taking creativity at its best, signifying how to take innovation and technology to the next level. The Technical events were witnessed by the resource persons from various field.

Day 2 session was run by Dept.of Electronics and Communication Engineering and inaugurated by Ms. Karthikeyani, Sub - divisional Officer, BSNL. Nagercoil, Ms Lakshmi Gopidas, Senior Technical Audit Engineer, Nuclear Power Plant, Kudankulam. It is an endeavor to motivate the youth in the field of Electronics and Communication by providing a platform to the youth to showcase their talents and skills in fierce competitions, Students of ECE organized events like Papuryus Conferral, Ultra Idea Tools, Broadcasting Farmers, workshops and guest lecturers to impart technical expertise.

Taking part in such events will enable students to understand why the material learned in class was important and how it could be applied to the physical world. This often shed new light on concepts and their importance, increasing student’s motivation to learn concepts thoroughly. This leads way to problem solving and increased confidence in working with limited resources. This initiative to address the latest scenarios in this contemporary realm puts SPECTRA apart from any other college-festival and added a whole new dimension to this institution. The winner of every events are recognised and awarded at the end of the day. Great appreciation was given to all the souls behind the success of this events. The outcome of each event turned out to be great and cheerful, but no one knew the inner pain and troubles the organizers had to go through when planning the events and ensuring everything fell into place at the right time.

Congress/Conference/Seminar/Workshop attended by Faculty

S. No.	Name of the Faculty	Congress/Conference/Seminar /Workshop and Venue	Title	Period
1	Mr.P.Jeya Bright	IEEE Conference at Priyadharsini Engineering College, Vaniyambadi	Development of scalable coding of encrypted images using BTC	2 days
2	Mr.P.Jeya Bright	Faculty development program by Network systems, nagercoil	Big Data Analytics	1 Day
3	Mr.P.Jeya Bright	Workshop at Sriramakrishna Engineering College, Trichy	NPTEL	1 day
4	Mr.P.Benesh Selva Nesan	Faculty development program by Network systems, nagercoil	Big Data Analytics	1 Day
5	Mr.R.Venkatesh	Faculty development program by Network systems, nagercoil	Big Data Analytics	1 Day
6	Ms.Nivya K Suresh	FDTP at St.Thomas Engineering college , chenganoor, kerala	mechatronics	1 Day
7	Mr.R.V.Nagarajan	FDTP at Amrita College of Engineering, Nagercoil.	Data analytics	7 Days
8	Mr.C.K.Morarji	FDTP at Amrita College of Engineering, Nagercoil.	Data analytics	7 Days

Our Faculty as Resource Person

S. No.	Name of the Faculty	Role	Event	Title	Venue & Date
1	Mr.R.V.Nagarajan	Resource Person	Guest Lecture	Basic Electronics in Physics	Govt. Hr. Sec. School, Boothapandy
2	Mr.S.Soban	Trainer	Workshop	Hardware and Training Program	Govt. Engg. College, Tanjaore.
3	Mr.C.K.Morarji	Guest Faculty	Guest Lecture	Mechatronics	Department of Mechanical Engineering, RCET.

Achievements in Curricular Activities

- Third Year ECE Students G.Sridevi, C.MagiSahulin, S.Nisha, S.Uma, B.Priyahassini, and S.Bhagavathi got 1st Prize in the Kanyakumari District Skill Summit and selected for State Level Skill Summit by Department of Employment and Training, Tamilnadu.
- C Magi Shahulin of Third Year ECE got First Prize for Project Expo in RECTECH – FEST 18 held at Rajas Engineering College on 05.10.2018.
- S.Dayana Rose of Third Year ECE got Third Prize in paper presentation VV TECHNOZER 2K18 at VV College of Engineering.
- Uma.S, Magi Shahulin G, Bhagavathi and Bala Brintha R attended a workshop on Android training in UNIQ Technologies during 12.06.2018 to 14.06.2018.
- Melben Raj of Third Year ECE got First Prize for Photography in Techliga-18 held at Noorul Islam Centre for Higher Education on 27.03.2018.
- Melben Raj of Third Year ECE got Second Prize for Photography in Synergix 2k18 held at James College of Engineering & Technology on 17.03.2018.
- Ashisha H Jiji Sam & Abisha Darshini of Third Year ECE got Second Prize for Project Competition in ASPIRE-2k18 held at Annai Vailankanni Engineering College.

Achievements in Co-Curricular Activities

- Ahila S of Second Year ECE got Second Prize for 4X100m Relay in Anna University Zone 19 Sports Competition.
- Arockia Uma of Third Year ECE got Second Prize for 4X100m Relay in Anna University Zone 19 Sports Competition.
- Saraswathy of Second Year ECE got Third Prize for High Jump in Anna University Zone 19 Sports Competition.
- Sankari of Second Year ECE got First Prize for Javelin Throw in Anna University Zone 19 Sports Competition.
- Sankari of Second Year ECE got First Prize for Discus Throw in Anna University Zone 19 Sports Competition.
- Sindhu Priya of Third Year ECE got Third Prize for Heptathalon in Anna University Zone 19 Sports Competition.

An Industrial visit to “Kaynes Technology” Plot No:58, Sector 6, IMT, Manaser, Gurgaon – 122050, Haryana, Delhi, India was organized by the Electronics and Communication Engineering Department of Rohini College of Engineering & Technology on Thursday, 16th August 2018.



An Industrial visit to HAL Heritage Centre and Aerospace Museum, Bengaluru is a vital part in understanding the students the different models of aircraft models and working of aircraft engine. This will fill the gap between industry and academics. The students of 5th Semester ECE are taken for the HAL Museum. 50 students have learnt about the different aircraft models manufactured by India and how the different types of Engines work.



An Industrial visit to “TECHNO Electronics & Instruments.”, Coimbotore, Tamilnadu was organized by the Electronics and Communication engineering Department of Rohini College of Engineering & Technology, Palkulam on Friday, 17th September 2018. Thirty-Seven Electronics & Communication Engineering students and four faculties visited to TECHNO Electronics & Instruments to interact with the Electronics Industry to understand current market scenarios, latest most demanding technologies & criteria for selection etc.



