

DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

E-Spectra' 18

News Letter

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About E-Spectra'18

DSEC, Department of Electronics & Communication Engineering is proud to publish its **NEWS LETTER 2018-19** (Volume-IV, Issue-I).

The objective of this News Letter is to keep our Students, Parents, Faculty and Industry informed about the activities happening in the Department.

With the help of our association, we release the e-copy of biannual newsletter, **E-Spectra'18** comprising the details of our student's activities and faculty activities.

It encloses the activities such as FEP, Professional Society activities, Conferences attended and paper published in International and National journals by staff members and competitions won by the students and innovative projects carried out by them.

I am sure the college will scale upto greater heights in the years to come and serve many more in the society.

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Dear Readers, Kindly send your feedback about E-Spectra'18 News letter to ecedsec@gmail.com

DEPARTMENT PROFILE

The department of Electronics and Communication Engineering was established in the year 2001 during which the undergraduate programme was introduced. Post graduate programme was established in the year 2007 and it offers communication systems.

Under the UG programme, the total sanctioned student strength is 60 and now it is increased 120 to 180 in the Academic Year (2012-2013). Under the PG programme, the total sanctioned student strength is 18 and now it is increased to 36. The department is accredited by NBA and received an AICTE fund of Rs: 1,25,000 in the academic year of 2009-2010 and Rs: 5,00,000 in the academic year of 2011-2012 for MODROBS.

The department has highly qualified, committed and research oriented faculty members and supported by trained technical non-teaching staff. The department enjoys the privilege of having spacious and well-equipped laboratories that provide students, the industrial environment much needed for real life training.

The department has very close interaction with many leading industries in the country and research laboratories. Guest lectures, workshops, Industrial Visits, In-plant training, seminars, symposia, in-house projects in collaboration with well-established companies and other personality development that cater to the quest of today's society as well as student professionals.

The department shares the mission and vision of the institution, in imparting high quality education to the students.

Vision

To be a centre of repute for higher learning and research to cater the knowledge in Electronics and Communication field to the ever growing needs of industries and to facilitate the transformation of students into good human beings.

Mission

- M1:** Develop life-long learning skills that allow them to be adaptive and responsive to changes in society, technology and the environment, as well as career demands
- M2:** Promote a research activity through constant interaction with research organizations and industries
- M3:** Instigate our students to become responsible citizens and competent professionals with high ethical values
- M4:** Enable students to develop skills to solve complex technological problems of time and also provide a framework for promoting collaborative and multidisciplinary activities

Program Educational Objectives (PEOs):

- PEO1:** An in-depth knowledge and demonstrations related to the core area of Electronics and Communication Engineering, starting from the basics to the level of analysis, synthesis and design of circuits and systems, in addition to the exposure on latest advancements in the field
- PEO2:** Knowledge of recent design trends and adapt to new technologies through lifelong learning
- PEO3:** Technical knowledge, ethical values for professional development of the student to solve complex problems and to work in multi-disciplinary ambience, whose solutions lead to significant societal benefits
- PEO4:** Motivation to pursue higher studies so that they can contribute to the teaching profession, research and development of Electronics and Communication Engineering

Program Specific Outcomes (PSOs):

- PSO1: Fabrication of Electronic Components:** Graduates of the program will design a hardware model in real time applications using embedded technology and fabricate electronic equipment used in communication industries
- PSO2: Usage of Tools:** Graduates can exploit tools like Xilinx, Tanner, IE3D, Labview, Matlab, ModelSim, Keil and OrCAD to meet desired specifications with realistic constraints such as manufacturability and sustainability

DECIBERTZ'18 National Level Technical Symposium 07th September 2018

OBJECTIVE:

To provide a forum for learners to present their state-of-the-art work. Students of Engineering Colleges are expected to participate in this symposium.

The Symposium was inaugurated in the presence of our Chairman **Shri.A.Srinivasan**, Principal **Dr.S.Durairaj**, Vice Principal **Dr.K.Velmurugan**, Dean Academics **Prof. J.Premalatha**, nearly at 10.00 a.m in Newton Hall. Our respected Chairman Sir, along with Principal, in person honored our chief guest.



The chief guest **Dr.K.Mahadevan**, Professor – PSNACET, Organizing Chair **Prof P.Rajeswari**, Organizing Secretaries **Prof.A.Yogeshwaran** and **Prof.K.Suganya**, were present on the dais. The function started with Invocation Song by **Achsah V Simon**, Joint Secretary of IV Year and **Vyshnavi N Nair** of IV Year, followed by the welcome speech given by Organizing Chair **Prof P.Rajeswari**.



Overview of DECIBERTZ'18 was delivered by **N.Karthikeyan** of 3rd semester.



The Hard copy of Symposium souvenir was released by the chief guest **Dr.K.Mahadevan**, and received by **Prof P.Rajeswari**. The Soft copy of symposium proceeding was released by the chief guest **Dr.K.Mahadevan** and received by **Prof.A.Yogeshwaran** and it is distributed among the dignitaries and the audience.



Prof.K.Suganya, Organizing Secretary introduced the chief guest to the audience.



Dr.K.Mahadevan, Professor, PSNA College of Engineering and Technology, Dindigul was the Chief Guest of the symposium. Students from various colleges participated in the symposium. He explained the importance of attending national level symposium to the UG students. He valued on the way in which symposium is organized, models and mini projects done by our department students.



He motivated the students and participants to enrich their knowledge by attending national level technical symposium and conference. Finally he thanked our Chairman sir and Principal for their honouring.

After a short tea break, the paper presentation was chaired by our **chief guest** along with **Prof.A.Yogeshwaran**.



26 technical papers have been presented which includes the following areas: Digital Image Processing, Wireless communication, Networking, Robotics, etc.

Prof. A. Yogeshwaran, Organizing Secretary delivered the Summary of DECIBERTZ'18. **Prof.P.Rajeswari**, Organizing Chair has distributed certificates and congratulated the winners and participants of various events. Finally **Mr.C.Leyander**, Vice President – IV Year has given the vote of thanks and the National level technical symposium was concluded with National Anthem.



Faculty Enrichment Programme (FEP)

FEP-1 on 28th July 2018



Microwave Engineering

Mr. A.Yogeshwaran



Organic Light Emitting Diode (OLED)

Mrs. S.S.Sathya

FEP-2 on 25th Aug 2018



Transmission theory

Mr. N.Khadar Basha



Long - Term Evolution (LTE) - An Overview

Ms. K.Suganya

FEP-3 on 27th Sep 2018



Realization of filter

Ms. K.Subitcha



Embedded System Design process

Mr. K.Richard

Faculty seminar on Quality Teachers

On 27th Oct 2018



Event chief guest G.Guru Bharathy, Professor, Medical Institute of Social Science, Guest of Honor Mr.Selvamani, Happy Schooling, Madurai, Principal and IQAC Coordinator were present on the dais.

The session starts with an interaction among the chief guest and faculty members.

Definition / Role of a teacher have been discussed in which thoughts of the faculty members varied in different aspects.

The juncture was surrounded with lots of positiveness and the morning session wind up in an interesting way.

After the lunch break, the session starts with a huge expectations and the same was fulfilled.

Finally the role of a teacher, expectations of faculty members on students and vice versa, character of a quality teacher were briefed by the chief guests in which it mesmerizes in such a way.

Wholeheartedly, a huge round of applause from the faculties was given as an appreciation and shared their feedback.



Professional Society Activities (IEI & IETE)

On 14th July 2018



Prof.P.Rajeswari gave speech about the importance of professional society membership in order to motivate the students to actively participate in such activities



Student from Second year ECE
Mr.Temidithapati Sivasankar gave a brief knowledge about the working system that is being progressed in our INDIAN DEFENCE



Circuit Debugging was conducted by the Students from Final year ECE **Ms. Rishya Sithiravel, Ms. Sahithiya Sithiravel** and **Ms. S.Swetha Shree**

Professional Society Activities (IEI & IETE)

On 11th Aug 2018

One day GATE Awareness Program



Professional Society activities



Student from IV ECE **Ms. Sharnika**,
conducted Jumble word Programme



Students from IV ECE **Ms. Swetha Shree**,
Ms. Sahithiya Sithiravel conducted
Jumble word and from II ECE **Ms. Kaviya**
conducted Technical Quiz Programme

Professional Society Activities (IEI & IETE)

On 08th Sep 2018



Student from III year ECE **Ms.Aarthi, Ms.A.Afrin Banu** conducted **Circuit Debugging** and **Spot speech** for III year ECE



Student from Final year ECE **Ms.Sharnika, Ms.N.Nandhini** and **Ms.Sumithra** conducted **pixelate (Photography Quiz)**



Jumbled word was conducted by the Students from Final year ECE **Ms.M.Sheeba, Ms.R.Mohana**

Training and Placement

MOCKATHON 2018

(Session I - On 5th Sep 2018, Session II - On 27th & 28th Sep 2018)



To create optimism to the students, the panel with ten members from Human Resource Development Cell (HRDC) and faculty members of various departments conducted **MOCKATHON 2018**.

The Interview panel assessed the technical, communication competence and personal skills of the students and gave them individual and group feedback on their performances.



Student from IV ECE **Ms.P.Akshayaa** got placed in **TCS** through off campus.

Faculty & Student Participation

Faculty as Resource Person

On 3rd Sep 2018



Mrs.B.Karthiga, ASP delivered a **Guest Lecture on Digital Image Processing (DIP)** in “Mahath Amma Institute of Engineering & Technology”, Ariyur

Student Participation in ROBOFEST 2018

On 13th Oct 2018



Our Department Students have participated in “**ROBOFEST 2018 – Inter department contest on ROBOTICS**” organized by the department of Information Technology and won the cash award.