

# INSTRUZINIA'19

## *Department of Electronics and Instrumentation Engineering*



### **ERODE SENGUNTHAR ENGINEERING COLLEGE**

(Approved by AICTE, New Delhi, Permanently Affiliated to Anna University-Chennai  
& accredited by NAAC & National Board accreditation (NBA), New Delhi.)

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## Words from the Patrons



**THIRU.G. KAMALAMURUGAN,**

*President,*

Erode Sengunthar Educational Trust.

It is my pleasure and privilege to give my message in the Electronics and Instrumentation Department newsletter "**INSTRUZINIA'19**" and I would like to appreciate the team for their efforts to produce this high quality, important communication tool to talk about the activities of the EIE- Department.

In ever changing field of technical education, technology is moving at a very fast pace. *What was breakthrough yesterday is obsolete today.* This has made it imperative that future techno crafts must be familiar not only with technical skills but also with the technology of tomorrow. I wish the department of EIE students to bring more laurels and achievements in the future by creative thinking and inventions in the field of engineering. I wish them success in all their endeavors.



**THIRU .S.N. THANGARAJU,**

*Secretary,*

Erode Sengunthar Educational Trust.

I am fascinated to be a part of publishing the current edition "**INSTRUZINIA'19**" of the Department Electronics and Instrumentation Engineering of our college. I am so elated to see the active participation of the students, with the initiation of faculties to persist the issue of this newsletter for the academic year 2018-19.

I am blissful to admire the principal, HoD-EIE, staff and student of the department and the editorial board members for their endeavors taken towards this venture.

## Chief's Desk



Dr.V.Venkatachalam,  
*Principal*

I feel elated to wish the Department of Electronics and Instrumentation Engineering of our college for publishing the newsletter "**INSTRUZINIA'19**" for the academic year 2018-19.

Through this newsletter, the students, their parents and faculties observe complete transparency in our day to day programs, the quality of teaching-learning process we share, and the goal we have to excel in technical education. I wish the team best wishes for their hard work.

“If you can't explain it simply, you don't understand it well enough”

*~Albert Einstein*

## HoD's Desk



Dr.S,Saju,  
*HoD-EIE*

It's my pleasure to list the achievements of our Department's success in the previous year which reveals our giant progress. So am proud to declare this publishment of **"INSTRUZINIA'19"**. The newsletter has become an ideal platform to share the views and experience in the field of instrumentation. By this way it has attained the unique and distinction of its place. It symbolizes the achievements of our students and faculties, in and other institutions. They have prepared the great collection of high quality contribution.

It's my duty to thank my colleagues who had given their guidance to make the students' path as a splendid one. I encourage all of them who made this edition a grant success. I hope this newsletter will be a perfect launching pad for the edifice of inventive ideas. I would like to extend my deepest appreciation to all members of the editorial board.

We welcome feedback and suggestions for further upliftment. Essence us to [eseceiemagazine@gmail.com](mailto:eseceiemagazine@gmail.com).

# Editorial Column

It's our honor to place the inventive issue of our Department's newsletter "**INSTRUZINIA'18**" in your hands.

**"Education builds knowledge and intellectual property in the mind"** as the saying goes , this newsletter will support research and development of our faculty members along with the student will join them in the workplace , for making the technological world a better place.

This newsletter plots the platform to the excellence of our students with the relevant guidance of faculty members. It reflects the innovative ideas of our students and their contribution to raise the standard of our department.

Our alumni members are also helping us with necessary steps to make this edition a betterment one.

Appreciations to all the future techno crafts, who gave their scintillating and awesome articles to the excellence of this publishment.

We welcome all feedback and suggestion for further upliftment. Root us to [eseceiemagazine@gmail.com](mailto:eseceiemagazine@gmail.com)

## DEPARTMENT ACTIVITIES

### 1. Guest Lecture-I & Inauguration

ECLAT has conducted its association inaugural and guest lecture-I on the topic "The Industry 4.0: Revolution in Industrial Instrumentation & Control" on 06.07.2017. The chief guest for this function is Dr.R.Kiruba Shankar, Associate Professor, Department of Mechatronics Engineering, Kongu Engineering College, Erode..



### 2. Leaders Talk-I

Leaders Talk-I on the topic "Job openings in Instrumentation Field" on 21.07.2018. The chief guest for this function is Mr.N.M.Sanjay Krishna, Entrepreneur,NSK enterprises,Coimbatore.



### 3. Leaders Talk-II

Leaders Talk-II on the topic "Necessary Skills for Engineer" on 10.08.2018. The chief guest for this function is Mr.S.Rubin Sukin, Technical Engineer, Byju's Learning app, Bangalore.



### 4. Symposium

A national Level Technical Symposium is organized on 30.08.2018 & 31.08.2018. The function was inaugurated by Dr.S.KALIRAJAN, M.Tech, Ph.D, General Manager & Head - Special Initiatives (Nuclear), L&T Construction, Chennai and Mr. M. PRABU, Manager, Hindustan Aeronautics Limited. The following events were conducted Paper Presentation, Project Presentation Technical Quiz & short film presentation. The jury for the events are Prof.Marimuthu Praveena, Department of E.E.E Sarnath College of Engineering, Thiruchy and Dr.J.Uma, Head of Dept. / E.I.E, M.Kumarasamy College of Engineering, Karur



## 5.Seminar-I

ECLAT has conducted a seminar on the topic "Recent Trends in Industrial Automation" on 11.01.19.The chief guest for this function is Er K.Ilanchezhian B.E.,Assistant Manager-Technical, Prolific Systems & Technologies Pvt.Ltd.,



## 6. Leaders Talk-III

Leaders Talk-III on the topic "Job openings in Instrumentation Industries" on 21.01.2019. The chief guest for this function is Mr. R.Nirmal Kumar,Site engineer,Toshniwal Hyvac private limited,Chennai.





## 7. Guest Lecture-II

ECLAT has conducted guest lecture-II on the topic "Instrumentation Role in Thermal Power Plant" on 02.02.19. The chief guest for this function is Mr.R.Balan, B.E., M.Tech., Assistant Executive Engineer, TANGEDCO LTD, Mettur Thermal Power Plant - II, Mettur Dam.



## 8. Leaders Talk-IV

Leaders Talk-IV on the topic "Job openings in the automation sectors" on 18.02.19. The chief guest for this function is Ms.B.Mythili, Technical Engineer, Evobi Automation private limited.



## 9. Valedictory & Guest lecture III

Valedictory & Guest Lecture -V on the topic "RECENT ADVANCEMENT IN PROCESS AUTOMATION" on 28.03.19. The chief guest for this function is S.Saivignesh, Business Development Engineer, AGIIT, Coimbatore.



## STUDENTS ACTIVITIES AND ACHIEVEMENTS

### Programme attended by Students

1. Pradeep.G of III year has participated in one day workshop on Android app development conducted by UNIQ technologies on 31.05.2018
2. Anandhi.S Kanmani.R Saraswathi.R, Sankaragomathi.M, Pradeep.G, Vignesh.M, Nirmalraj.N, Muthuraj.N, Bala Kumaran.R.M. of IV year has participated in "National Summit on Industry 4.0" organized by Sri Eshwar College of Engineering on 10.08.2018 & 11.08.2018.
3. Ajay.M of II year has participated in "DST-NIMAT PROJECT 2018-19 EDI, Ahmedabad sponsored Entrepreneurship Awareness Camp & IEEE Student Professional Awareness Conference conducted at Erode Sengunthar Engineering College on 20.9.2018.
4. Sathish.S,Vignesh.K has attended the one day national level workshop on "Embedded systems and its applications" on 05.10.18.
5. K.Sakthi vignesh of III year has participated in "Embedded systems" workshop during the national level technical symposium "Yuktaha 2k19" conducted by PSG institute of technology & applied research on 12.02.19,13.02.19.
6. M.Ajay, M.Chandru and T.Gomathi of II year has participated in "Embedded systems" workshop during the national level technical symposium "Yuktaha 2k19" conducted by PSG institute of technology & applied research on 12.02.19,13.02.19.
7. D.Jotheswaran and M.Mukesh of III year has participated in "Non destructive training" workshop during Mettle 2019,annual technical symposium at national institute of technology,Thiruchy.
8. D.Jotheswaran , M.Mukesh and C.Muthuselvam of III year has participated in one day national level workshop on "IoT" at K.S.Rangasamy College of technology on 16.02.19.

9. Kanmani.R Saraswathi.R, Sankaragomathi.M of IV year has attended one day national level workshop on "Development of IoT applications using CC3200" at Sri Ramakrishna Engineering College on 08.03.19.
10. D.Jotheswaran,K.Sakthi vignesh,R.Ravindhran of III year has attended one day national level workshop on "Development of IoT applications using CC3200" at Sri Ramakrishna Engineering College on 08.03.19.

#### **In-Plant Training attended by students**

1. Pradeep.G of III year has undergone in plant training in UNIQ technologies, Chennai from 25.05.2018 to 31.05.2018.
2. Anandhi.S Kanmani.R Saraswathi.R, Nirmalraj.N, Muthuraj.N, Bala Kumaran.R.M. of III year has undergone In-plant training in NLC India Limited, Neyveli from 11.06.2018 to 18.06.2018.
3. M.Ajay, M.Chandru,R.Jayakumar,S.Loganathan and S.Nanthakumar has attended the training program on "Electro-pneumatic controls" at Foreman Training Institute,Bangalore.
4. Anandhi.S Kanmani.R Saraswathi.R, Muthuraj.N, Bala Kumaran.R.M. of IV year has attended the training program on "Advanced PLCs" at Foreman Training Institute,Bangalore.

#### **Paper Presented by Students:**

1. R.Shanmuganathan,S.Sasikumar of II year has presented a paper on the title" IoT" in national level inter-collegiate technical symposium Genesis 2K18 at Sri Ramakrishna Engineering College on 28.12.18

## **FACULTY ACTIVITIES AND ACHIEVEMENTS**

### **Program organized by faculty Member.**

1. Mr. T. Maris Murugan and Mr. E. Sathish has organized a one day National Level workshop on "Arduino controller" on 31.08.2018.

### **Programme attended by Faculty Members**

1. P. Suresh Kumar AP/EIE has attended one week induction programme on "Recent Technologies adopted in industries for health care, defence and space applications" at Sri Ramakrishna Engineering College from 11.06.2018 to 16.06.2018.
2. P. Suresh Kumar AP/EIE has attended three days national level workshop on "Matlab/Simulink based hands on training on power electronic converters based systems and their controllers" at Karpagam college of engineering from 27.11.2018 to 29.11.2018
3. Dr. Saju Subramaniam HoD/EIE has attended a two day International conference on Innovations in Engineering, Technology and Sciences at NIE Institute of Technology, Mysore.
4. Dr. Saju Subramaniam HoD/EIE has attended a one day Faculty Training at Ashok Leyland Driver Training Institute, Namakkal.
5. T. Maris murugan, AsP/EIE, E. Sathish, G. Revathy, AP/EIE, has attended a two day seminar on "Recent advances in biosensor development for the detection of cancer biomarkers" at Kongu Engineering College, Perundurai, on
6. Dr. S. Saju HoD/EIE has Attended training Programme at NIT-Trichy Titled as End User Meet-SIEMENS CoE on 16.02.2019.
7. T. Maris murugan, AsP/EIE, E. Sathish, AP/EIE, P. Suresh Kumar AP/EIE has attended one day national level workshop on "Development of IoT applications using CC3200" at Sri Ramakrishna Engineering College on 08.03.19.

### **Industrial Training attended by staff members**

1. T.Maris murugan,AsP/EIE,E.Sathish,AP/EIE,Dr.D.Sivanandakumar AP/EIE has undergone industrial training on thermal power generation at JSW energy center of excellence,JSW energy limited,Toranagallu,Bellari,Karnataka.

### **Paper publication by staff members**

1. Dr.Saju Subramaniam HoD/EIE, published a paper on "Discrete Controller for Zeta Converter", Journal of Applied Science and Computation, ISSN: 1076-5131 Volume: 03 Issue: 10.
2. T.Maris murugan,AsP/EIE,E.Sathish,G.Revathy,AP/EIE, published a paper on "Comparative study of performance in three mode controller tuning", Journal of Applied Science and Computation, ISSN: 1076-5131 Volume: 05 Issue: 11.
3. S.Saju, MarimuthuPraveena,Dr.Vijayalakshmi"Discrete Controller for Zeta Converter"Journal of Applied Science and Computations"JASC,ISSN 1076-5131,Volume V, Issue XI, November 2018.(UGC Approved)
4. S.Saju,G.Thirugnanam, "Metaheuristic Technique for Biomedical Image"International Conference on Innovations in Engineering, Technology and Sciences- (ICIETS) catalog "CFP18Q63-PRT-978-5386-7321-8" on Sep 20th and 21st 2018.
5. S.Saju,G.Thirugnanam, "Metaheuristic Technique for Biomedical Image"International Conference on Innovations in Engineering, Technology and Sciences- (ICIETS)organized byNIE Institute of Technology, Mysuru on Sep 20th and 21st 2018.