

**S.A. ENGINEERING COLLEGE, CHENNAI-77  
DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING**

**SWARAKSHA - 2K14**

Annual News Letter, Volume (1) Issue 1, JUNE 2014

**Our Vision:**

To achieve overall excellence in education by continuously upgrading the teaching learning process and incorporating latest technological advancements happening worldwide with ethical responsibilities.

**Our Mission:**

- To impart sound technical competency and quality education for students to enhance the employability and ethical values.
- To provide conducive environment for faculty and students with excellent facilities to improve research activity.

**Program Educational Objectives {PEOs}**

- I. Our graduate Engineers will have professional competency in Electronics and Communication Engineering with good foundation in Mathematics and basic sciences.
- II. Our graduates will possess lifelong learning process and augment their engineering skills for new challenges with sustainability.
- III. Our graduates will have effective communication skills and work in multidisciplinary team.
- IV. Our graduates will practice the profession with ethics, integrity, leadership and social responsibility.

**Program Outcomes {POs}**

- a. To apply **knowledge** of mathematics, science and engineering appropriate to ECE discipline.
- b. To formulate and analyze the complex engineering **problems** by using the principles of mathematics and engineering fundamentals.
- c. To **design and develop system** (or) process to meet the desired needs within the realistic constraints of the societal and environmental considerations.
- d. To **investigate complex problems** by conducting experiments, analyze interpret and synthesize the information to provide conclusions.
- e. To select and use appropriate **modern tools** for solving complex engineering problems.
- f. To apply **reasoning knowledge** for providing engineering solutions to societal needs with professional engineering practice.
- g. To demonstrate the knowledge of engineering for providing **environmental solutions** and **sustainable** development.
- h. To understand the **ethical principles** and professional responsibilities.
- i. To function effectively as a member (or) **a leader in multidisciplinary activity**.
- j. To deliver effective **presentations** and **communicate** at ease with the society.
- k. To be successful member (or) leader in diverse teams with enhanced **administrative skills** and **financial management**.
- l. To realize the need for **lifelong learning** and adopt themselves to technological changes.

**EVENTS ORGANISED BY ECE DEPARTMENT  
INTERNATIONAL CONFERENCE**

Our Department Conducted the International Conference (ICICES - 2014) on 27.02.2014 & 28.02.2014. It was inaugurated by the Chief Dr. K.ShantiSwarup, Professor, IIT Madras, Chennai.

**NATIONAL CONFERENCE**

Our Department Conducted the National Conference (SPECTRUM - 2014) on 20.02.2014. It was inaugurated by the Chief Mrs. RumaSelvam, Marketing Manager, Tech Mahindra, Chennai.

**TECHNICAL SYMPOSIUM**

Our Department Conducted the National level symposium (EXIMIUS- 2013) on 22.08.2013. It was inaugurated by the Chief Mr. R. Vijayarajeswaran, Managing Director, Vi-Micro system Pvt. Ltd., & Prof.(Dr)V.Vaidehi, HOD/IT, MIT Campus, Anna University, Chennai.

**GUEST LECTURES**



Guest lecture on "Digital Signal Processing" by Dr.K.Udayakumaron 12.07.13.



Guest lecture on "Data structures and oops" by Mr.P.T.Sharavanan, Project Engineer, Wipro Technologies, 23.09.13.

**EDITORIAL BOARD**

**Dr.V.BerlinHency**  
(Staff Affairs)

**Professor & HOD**

**Mr.B.R.TapasBabu**  
(Student Affairs)

**Associate Professor &  
HOD**

**Ms.P.Sasirekha**

**Assistant Professor**



Guest lecture on "Signals and system" by Dr.BhoopathyBagan on 05.08.13



Guest lecture on "Digital Image Processing" by Dr.S.Sudakar on 06.08.13



Guest lecture on "Women Health and Hygiene" by Ms.RaziyaSultaana, 14.2.14

#### INPLANT TRAINING/INTERSHIP

- ❖ 11 No of Students of II year were undergone for Inplant Training during DEC 2013.
- ❖ 11 No of Students of III year were undergone for Inplant Training during DEC 2013.
- ❖ 05 No of Students of III year were undergone for Intership during DEC 2013.
- ❖ 04 No of Students of III year were undergone for Intership during DEC 2013.

#### STUDENT PARTICIPATION IN CO-CURRICULAR ACTIVITIES

1. **V.ELAKKIYA**, of IV Year Participated in National level Technical Symposium, held at **VELAMMAL ENGINEERING COLLEGE**, CHENNAI.
2. **K.KAMALA KANNAN**, of IV Year Participated in National level Technical Symposium, held at **SAI RAM ENGINEERING COLLEGE**, CHENNAI.
3. **K.KAMALA KANNAN**, of IV Year Participated in National level Technical Symposium, held at **SSN COLLEGE OF ENGINEERING**, CHENNAI.
4. **K.YESWANTH KUMAR**, of IV Year Participated in National level Technical Symposium, won II prize in Circuit Debugging, held at **JNN INSTITUTE OF ENGINEERING**, CHENNAI.
5. **V.SAI ANITHA**, of IV Year Participated in National level Technical Symposium, won I prize in Paper Presentation, held at **RMK COLLEGE OF ENGINEERING**, CHENNAI.
6. **V.SAI ANITHA**, of IV Year Participated in National level Technical Symposium, won I prize in Paper Presentation, held at **JNN INSTITUTE OF ENGINEERING**, CHENNAI.
7. **B.SUCHITRA**, of IV Year Participated in National level Technical Symposium, won I prize in Paper Presentation, held at **RMK COLLEGE OF ENGINEERING**, CHENNAI.
8. **P.REKHA**, of IV Year Participated in National level Technical Symposium, won I prize in Paper Presentation, held at **RMK COLLEGE OF ENGINEERING**, CHENNAI.
9. **C.UMAYAL**, of IV Year Participated in National level Technical Symposium, held at **ANAND INSTITUTE OF HIGHER TECHNOLOGY**, CHENNAI.
10. **R.SONIKA**, of IV Year Participated in National level Technical Symposium, held at **SRI RAMANUJAR ENGINEERING COLLEGE**, CHENNAI.
11. **R.SHANMUGHA ANAND**, of IV Year Participated in National level Technical Symposium, won II prize in Circuit Debugging held at **JNN INSTITUTE OF ENGINEERING**, CHENNAI.

#### INTERNATIONAL CONFERENCES

1. **A.ANGELIN** of II Year - M.E presented the paper at **VELS UNIVERSITY**.
2. **BONEY VARGHESE** of II Year - M.E presented the paper at **JAWAHAR ENGINEERING COLLEGE**.
3. **J.DHIVYA** of II Year - M.E presented the paper at **S.A.ENGINEERING COLLEGE**.
4. **T.GAYATHRI** of II Year - M.E presented the paper at **S.A.ENGINEERING COLLEGE**.

5. **G.S.GNANA JENI** of II Year - M.E presented the paper at **S.A.ENGINEERING COLLEGE**.
6. **V.JEBARAJ** of II Year - M.E presented the paper at **MOUNT ZION COLLEGE OF ENGINEERING AND TECHNOLOGY**.
7. **K.MURALI KRISHNA** of II Year - M.E presented the paper at **TAGORE ENGINEERING COLLEGE**.
8. **A.NITHYA** of II Year - M.E presented the paper at **S.A.ENGINEERING COLLEGE**.
9. **M.PARAMASIVAM** of II Year - M.E presented the paper at **EASA COLLEGE OF ENGINEERING AND TECHNOLOGY**.
10. **P.POONGUZHALI** of II Year - M.E presented the paper at **VELS UNIVERSITY**.
11. **T.PUSHPA** of II Year - M.E presented the paper at **S.A.ENGINEERING COLLEGE**.
12. **B.REVATHI** of II Year - M.E presented the paper at **S.A.ENGINEERING COLLEGE**.
13. **A.RAJAN** of II Year - M.E presented the paper at **S.A.ENGINEERING COLLEGE**.
14. **S.SATHIYALAKSHMI** of II Year - M.E presented the paper at **R.M.K. ENGINEERING COLLEGE**.
15. **S.N.SUBRAM** of II Year - M.E presented the paper at **JAWAHAR ENGINEERING COLLEGE**.

#### FACULTY PARTICIPATION IN NATIONAL/INTERNATIONAL CONFERENCES

1. **Dr.T.Sasilatha** Prof., "Performance Analysis of Adaptive Keeper in Ultra Sub Micron Range" in the International Conference on Electrical, Electronics and Communication in April 24 2013, PP 9-10.
2. **Dr.P.Balasubramanian** Prof., "On The Error Resiliency of Combinational Logic Cells – Implications for Nano-Based Digital Design" in the 19<sup>th</sup> IEEE Pacific Rim International Symposium On Dependable Computing, Canada, in December 2013.
3. **Dr.P.Balasubramanian** Prof., "Mathematical Modeling of Timing Attributes of Self-Timed Carry Select Adders" in the Proc. of 4<sup>th</sup> European Conference of Circuits Technology and Devices, Paris, France, in October 2013.
4. **Dr.D.MohanaGeetha** Prof., "A Novel E-Shape Communication Antenna Design Using Particle Swarm Optimization (PSO)" in the International Conference on Communication and Electronics System Design (ICCESD-2013) in 28-30 January, 2013.
5. **Mrs.N.Anusha** Asst Prof., "Performance Analysis of Adaptive Keeper in Ultra Sub Micron Range" in the International Conference on Electrical, Electronics and Communication in April 24 2013, PP 9-10.

#### PUBLICATIONS BY FACULTY IN NATIONAL/INTERNATIONAL JOURNALS

1. **Dr. J.M.Mathana** Prof., "VLSI Architecture For High Performance 3GPP Interleaver/Deinterleaver For Turbo Codes" in the International Journal Of Computer, Communication And Control, April 2014 ISSN 1841-9836, Pp:140-153.
2. **Dr. J.M.Mathana** Prof., "VLSI Architecture Of Dual Standard Interleaver For Turbo Codes" in the Journal Of Theoretical And Applied Information Technology, ISSN 1817-3195/ ISSN 1992-8645 vol 60 No 2, E-, Pp.408-416.
3. **Dr. P.Balasubramanian** Prof., "On Deducing the Clique Potential of Nano Scale Combinational Circuits" In The Current Nano Science, August 2013 Vol.9, No 4 , PP. 514-520.
4. **Dr. V.BerlinHency** Prof., "Multicast Supported Fast Handover for Proxy Mobile Ipv6" in the Journal of Computer Science, 2013 Vol .9, No.3, PP . 368-376.
5. **Dr. D.Mohanageetha** Prof., "A New Compact Microstrip Integrated E-Array Patch Antenna with High Gain and High Aperture Efficiency" in the Wireless Personal Communications. Scopus Indexed, April 2014.
6. **Mr. V.Nagaraju** Associate Prof., "Performance Analysis of OFDM With Wiener Phase Noise" in the International Journal of Software & Hardware Research in Engineering, Vol 2, Issue 5, May 2014.
7. **Mr. C.Arunachalaperumal** Associate Prof., "Intelligent Beamforming To Enhance The Secondary User Performance" in the International Journal of Advanced Research in Computer and Communication Engineering, Vol 3, Issue 2 February 2014.
8. **Mr. C.Arunachalaperumal** Associate Prof., "Performance Improvement Using Adaptive Spatial Modulation" in the International Journal of Electronics and Communication, Vol 2, Issue 2, February 2014.
9. **Mrs. M.Vanithalakshmi** Associate Prof., "Delay Tolerant Networks An Emerging Communication Paradigm" in the International Journal Of Advanced Research In Computer And Communication Engineering, February 2014.