

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING



VISION

To produce globally competitive Electronics and Communication Engineers and Entrepreneurs with ethical values.

MISSION

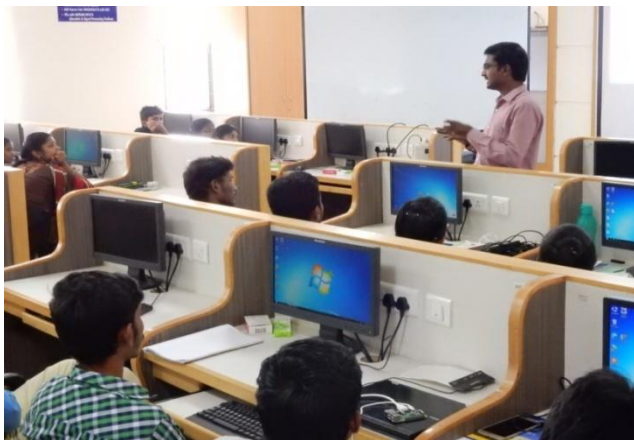
- DM1:** Impart quality education through student centric teaching and learning process.
- DM2:** Equip students with Industry driven skills by providing excellent Infrastructure and continuous interaction with academia and Industry.
- DM3:** Empower students towards research, entrepreneurship and lifelong learning to meet societal needs.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO 1: Core Competency :** Graduates will have strong foundation in Engineering, Science and Technology for a successful career in Electronics and Communication Engineering.
- PEO 2: Professionalism :** Graduates will have effective communication skills, interpersonal skills and ethical values to exhibit professionalism in multidisciplinary environment.
- PEO 3: Higher studies and Entrepreneurship :** Graduates will pursue professional development through higher studies and have entrepreneurial attitude to address technological changes and societal needs.

NATIONAL CONFERENCE

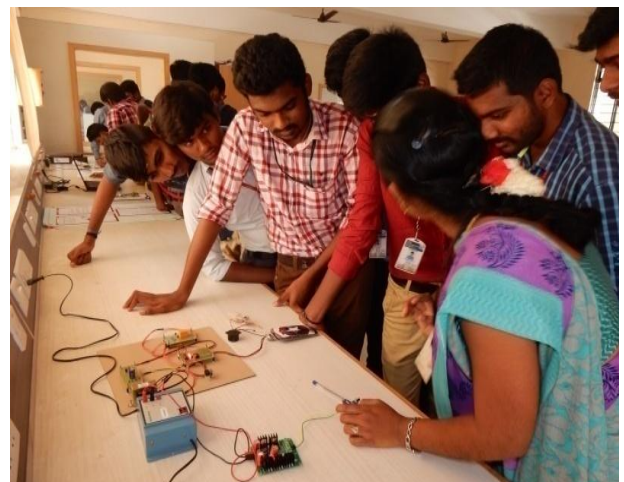
- National Conference on Recent trends in Engineering and Technology was conducted on 24.03.16



- Value added course on Front end design of Digital VLSI circuits using verilog HDL was conducted by Mr.Gowtham Raj & Mr.R.Tamilmani on 17.12.15 & 19.12.15.

EVENTS ORGANIZED BY THE DEPARTMENT

Two days Value added course on Java Networking was handled by Dhivya.J & and P.Premkumar on 17.12.15 & 19.12.15





One day workshop on “Project Based Learning in 8051 Microcontroller using KEIL & PROTEUS tool was conducted by Mr.Ramkumar,Mr.S.Boopathy & Mr.A.Prabakaran on 29.12.15& 9.3.16

Value added course on Industrial Exposure in Embedded Environment was conducted by Mr.A.Prabakaran, Ms.K.J.Uma,Ms.Vidhya &Mr.Karthik on 14.12.15,15.12.15&8.1.16



One day workshop on “ Mentor Graphics Tool” was conducted by Mr.Ramkumar,S.Boopathy,Mr.G.Gowthamraj on 25.2.16





Workshop on “Real Time Signal & Image Processing using Xilinx Vidado system generator” conducted by Mr.Ramkumar,S.Boopathy,Mr.G.Gowthamraj on 26.2.16

One day workshop on “Antenna design and analysis using CEM tool”was conducted by S.Deepak &S.Karthik on 18.3.16



One Day Work Shop on CMOS VLSI Design Using Microwind Tool &DSCH” was conducted by Mr.G.Gowthamraj,Mr.R.Tamilmani,Mr.K.Venkatachalam on 18.3.16



GUEST LECTURES AND KEYNOTE SPEECHES BY FACULTY

- ❖ **Mr.P.GOVIND RAJ** acts as a Resource person for the “INNOWIZ 2K15” titled “**GUIDELINES TO PROJECT COMPETITION**” at MUTHAYAMMAL POLYTECHNIC COLLEGE,RASIPURAM on 17/12/15.
- ❖ **Mr.G.Gowthamraj,AP/ECE** provides Guest lecture for the VLSI WORKSHOP titled “**VERILOG PROGRAMMING-XILINX DESIGN FLOW &FPGA**” at ENTHU TECHNOLOGY SOLUTION INDIA PVT LTD COIMBATORE on 15/12/15 to 17/12/15.
- ❖ **Prof.R.Nandhakumar,HOD/ECE** gives a Guest lecture for the TRAINING PROGRAMME titled “**PLACEMENT TRAINING**” at KSR College of Arts and Science for Women on 05/01/16.
- ❖ **Prof.R.Nandhakumar,HOD/ECE** gives a Guest lecture for the “Translational Engineering in Medicine:A Bridge to improve the Quality Of health Care” titled “**Cardiovascular and Respiratory System Engineering**” at **KSR College of Technology** on 15/04/16.

KNOWLEDGE UP GRADATION:**Seminar/FDP/SDP/Workshop/STTP etc attended by Faculty**

| S.No | Name Of The Faculty | Title Of The Programme | Type Of The Programme | Conducted By (Dept. And Institution) | Date |
|------|---------------------|---|-----------------------|---|---|
| 1. | S.Karthik | Seven Days Fdtp On "Ec6602-Antenna And Wave Propagation" | Fdtp | VCET Erode | 16 th To 22 nd Dec 2015 |
| 2. | S.Nandhakumar | Fdp On "Entrepreneurship" | Fdp | PSG College of Technology Coimbatore. | 7 th -18 th Dec 2015 |
| 3. | A.Prabhakaran | Mobile Application Development | Fdp | KSR Institute For Engineering & Technology Tiruchengode | 19/12/15 |
| 4. | P.Vidhya | | | | |
| 5. | B.Latha | | | | |
| 6. | K.Geetha | | | | |
| 7. | K.J.Uma | | | | |
| 8. | P.Premkumar | One Week Teqip Sponsored Workshop On "Semiconductor Devices: Theory & Practice" | Workshop | Thiyagarajar College Of Engineering Madurai | 30 th To 6 th Dec 2015 |
| 9. | T.Marthandan | Two Days Workshop On Antenna Design Using CEM Tool | Workshop | Anna University Regional Centre Coimbatore | 03 th To 4 th dec 2015 |
| 10. | H.Senthilkumar | | | | |
| 11. | B.Latha | Optimization Techniques For Engineering | Workshop | Kongu Engineering | 29 th Jan & 30 th Jan, |
| 12. | V.Praveen Kumar | | | | |

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|-----|---------------------------|---|----------------------|--|--|
| 13. | K.R.Gokulanand | Applications | | College, Erode | 2016 |
| 14. | K.R.Gokulanand Ap/Ece | Two Days Workshop On Cadence Tool | Workshop | Ece/Karunya University, Coimbatore | 7/4/16 & 8/4/16 |
| 15. | H.Senthil Kumar Ap/Ece | | | | |
| 16. | S.Nandhakumar Ap/Ece | National Workshop On Translational Engineering In Medicine :A Bridge To Improve The Quality Of Health Care | National Workshop | Ece/ K.S.Rangasamy College Of Technology, Tiruchengode | 15 th &16 th Apr 2016 |
| 17. | K.R.Gokulanand Ap/Ece | | | | |

Faculty presentations in National Conferences.

| S.No | Name Of The Author(S) | Title Of The Paper | Title Of The Conference | Conducted By (Dept. And College) | Date Of Conference |
|------|-----------------------|---|---|---|--|
| 1. | W.Devapriya Ap/Ece | “Advance Driver Assistance System” | “National Conference On Recent Trends In Engineering And Technology” | Ece/ Ksriet Tiruchengode | 24 /3/16 |
| 2. | W.Devapriya Ap/Ece | “Traffic Sign Detection & Recognition Using Support Vector Machines” (Svm) | “National Conference On Trends In Engineering Application And Management” | Ece/ Velalar College Engineering And Technology, Erode | 26/3/16 |
| 3 | P.Vidhya Ap/Ece | Fire Detection And Fire Signature Using Color Models For Security | Future Trends In Control Communication And Power Systems In Association With Indian Space Research Organization | Ece/ Excel College Of Engg And Tech | 1 st &2 nd Apr 2016 |

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|---|---------------------------|--|--|--|------------------------------|
| 4 | K.J.Uma Ap/Ece | Iot Based Home Automation For Elderly Care Using Embedded System | “Trends In Engineering Application And Management” | Ece/ Velalar College Of Engg &Tech Erode | Mar 26 th 2016 |
| 5 | K.R Gokul Anand Ap/Ece | Intensive Plant Growth Nursing And Disease Rectification | National Conference On Innovation In Applied Science ,Engineering& Technology 2016 | Arjun College Of Technology , Coimbatore. | Feb 26 th 2016 |

STUDENT ACHIVEMENT

CO-CURRICULAR ACTIVITIES – INTRA COLLEGE LEVEL

- ❖ 14 of our students have participated in the Value added Course on the topic Front end design of digital VLSI circuits using Verilog HDL.
- ❖ 20 of our students have attended Value added course on the topic Implementation of basic electronic circuits using Multisim

GALLERY





EDITORIAL BOARD

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Program Outcome for Electronics and Communication Engineering

PO 1: Engineering Knowledge: Apply knowledge of mathematics, science and engineering principles to solve problems in the domain of Electronics and Communication Engineering.

PO 2: Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO 3: Design/Development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess Societal, Health, Safety, Legal and Cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development.

PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: Project management and finance: Demonstrate Knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSO)

PSO1: Embedded system design: Graduates will be able to analyze, design, construct and test electronic and embedded systems for desired specification.

PSO2 : Simulation Tools: Graduates will be able to solve emerging real world problems using suitable hardware and software tools.