# K. J. SOMAIYA COLLEGE OF ENGINEERING
(AUTONOMOUS COLLEGE AFFILIATED TO UNIVERSITY OF MUMBAI)

DEPARTMENT OF ELECTRONICS ENGINEERING
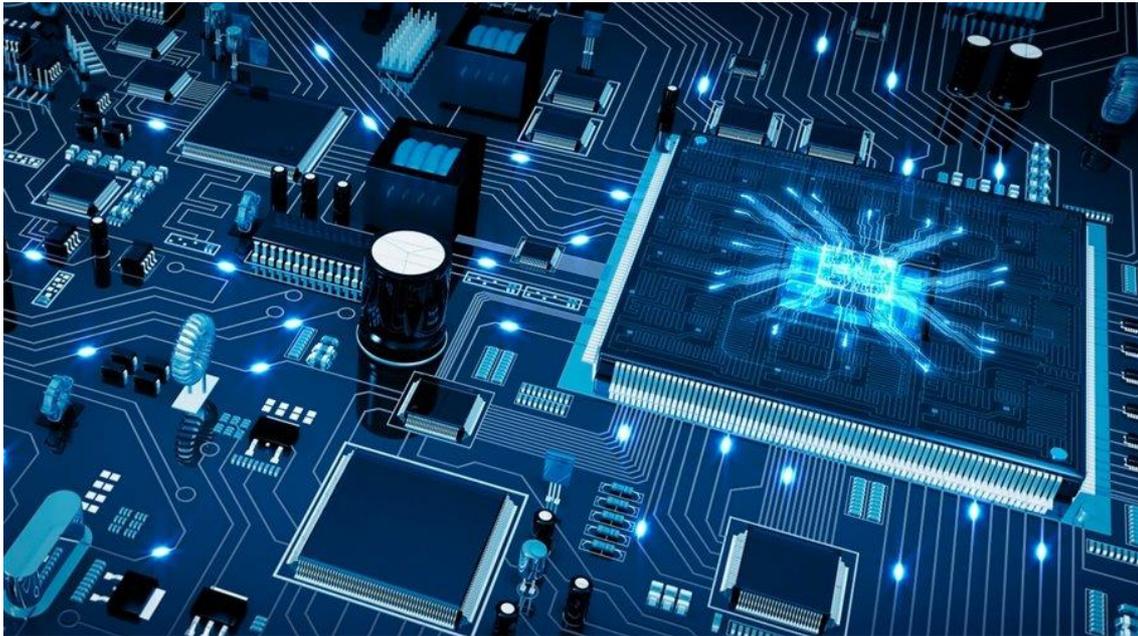
NEWSLETTER
JULY-DECEMBER 2018

Editorial Committee
Dr. J.H. Nirmal (Chief Editor)
Head, Department of Electronics
Prof Inderjit Singh Dhanjal (Editor)
Assistant Professor, Department of Electronics

Thought from the HOD

It is a matter of pride to present yet another edition of Newsletter from July-December 2018. The past semester was full of various activities by the students, faculty and supporting staff in academic, co-curricular, extra-curricular as well as research & developments. We provide opportunity for students to work as members of a team on multidisciplinary projects. We also promote student awareness for life-long learning and to introduce them to professional ethics and codes. As you read through the pages you will realize, that the Department had a particularly successful semester.

I would like to thank Principal, Management, colleagues and students for their support as Head of Department.

Dr. J.H. Nirmal
Professor & Head,
Dept. of Electronics Engineering,
K.J. Somaiya College of Engineering,
Vidyavihar (E), Mumbai – 77

Vision:

To impart excellent quality-education by keeping pace with rapidly changing technologies and to create technical manpower of global standards with ethical and social values.

Mission:

Efforts to impart quality and value based education to
- Raise satisfaction level of all stake-holders
- Create competent professionals
- Provide all possible support to promote research and development activities

Program Educational Objectives (PEOs):

A graduate of Electronics Engineering will

PEO1: Adapt to upcoming technologies to solve real life problems of society.

PEO2: Pursue higher education or research, demonstrate entrepreneurial qualities.

PEO3: Emerge as a leader with professional and ethical outlook, exhibit effective Communication, teamwork and multidisciplinary approach.

Program Outcomes (POs):

After successful completion of the program, graduate will be able to:

PO1: Apply fundamental knowledge of differential equations, vector calculus, complex Variables, matrix theory, physics, chemistry, network and EM field analysis electrical, Electronics and communication courses.

PO2: Analyze various analog and digital electronics systems.

PO3: Demonstrate the ability to formulate problems, interpret data and design electronic Systems for societal needs.

PO4: Investigate problems, design and conduct experiments for analog, digital electronics and communication systems.

PO5: Identify and use modern engineering tools, software / equipment's, in order to solve Electronics engineering problems.

PO6: Recognize the impact of engineering solutions on the society and contemporary issues.

PO7: Know the impact of electronics engineering solutions on society and environment for Sustainable development.

PO8: Apply knowledge of electronics engineering in profession with ethical responsibilities.

PO9: Function effectively both as an individual and as a member or a leader in a Multidisciplinary team.

PO10: Know how to communicate effectively in professional community and society.

PO11: Apply principles of engineering and management in projects as a member of a team.

PO12: Exhibit skills useful for life-long learning.

Program Specific Outcomes (PSOs):

PSO1: Develop applications in the areas of embedded systems, Communication, Control and Automation.

PSO2: Pursue higher studies in VLSI, Signal and Image processing.

Departmental Activities:

- Four-day workshop on "Problem solving and programming Basics" was conducted by Prof. Anagha Raich for 14 students from K J Somaiya Polytechnic from 3rd July, 2018 to 6th July, 2018.
- Departmental Open day was organized successfully on 3rd July,2018.
- Study Circle session was conducted by various faculties on 10th July 2018.
- Project Orientation with Rubrics, Design & Development was conducted by Faculty ETRX for LY B Tech Student from 16th July,2018 to 17th July 2018. This was attended by 88 students by LY B Tech students.
- FY B Tech orientation was conducted by Department of Electronics on 6th August 2018
- EESA inauguration and formation of new EESA council was organized by EESA council and Department of Electronics on 8th August 2018.
- One day Seminar on "How to Prepare for Coding Test in Placements" was conducted by Prof. Dipti Pawde, Prof. Avni Sakhapra on 8th August, 2018. This seminar was attended by 37 students from SY, TY and LY B Tech.
- One day hands on workshop on "Digital Design using Verilog" for TY B Tech and LY B Tech students on 11th August, 2018 was conducted by Prof. Pragya Gupta and Prof. Parul Sindhwad. This workshop was attended by 15 students from TY B.Tech and LY B.Tech
- Parent Proctor meeting for SY, TY and LY students was conducted in the department on 11th August 2018. This meeting was attended by 37 parents and 18 proctors.
- Guest lecture on importance of Coding was conducted by Ms. Akshya Nagrajan (Alumini of KJSCE) on 13th August, 2018. This session was attended by 53 students from SY, TY and LY B Tech Electronics.
- One day hand's on workshop on "LT Spice Simulation: Basic Electronics circuits 1" for SY B Tech students on 25th August, 2018 was conducted by Prof. Inderjit Singh Dhanjal. This workshop was attended by 10 students from SY B.Tech Electronics.
- M Tech Orientation was organized for M Tech students in the month of August 2018.
- Expert talk on "Fundamental of Quantum Theory" was conducted by Prof. Suren Patwardhan on 5th September, 2018.
- Faculty meeting on 12th September for discussion of Revised Curriculum for second year Electronics engineering.
- Teacher's day was celebrated in the department of Electronics on 22nd September, 2018. This event was organized by EESA council.
- Workshop on Arduino and 8051 was conducted by Prof. Yogesh Pingale on 22nd September, 2018. This workshop was organized by EESA council members.
- Guest Lecture on Instrumentation was conducted by Mr. Shivaji S Nawatake for electronics students on 26th September, 2018.
- Guest Lecture on "Opportunities in VLSI" was conducted by Dr Rajesh Advani on 1st October, 2018. This session was attended by 68 students from SY, TY, LY, M. Tech Electronics and Faculty ETRX. This event was organized by Prof. Amrita Naiksatam.
- One-day hand's on workshop on "LT Spice Simulation: Basic Electronics circuits 2" for SY B Tech students on 13th October, 2018 was conducted by Prof. Inderjit Singh Dhanjal. This workshop was attended by 15 students from SY B.Tech Electronics.
- Workshop on Meditation music for deep relaxation was conducted by Dr Sudha Gupta on 13th October, 2018. This workshop was attended by 32 KJSCE students, faculty and staff
- One-day visit to CEN Lab, IIT Bombay, Powai on 20th October, 2018 for LY B Tech students was organized by Prof. Amrita Naiksatam. 14 students from LY B. Tech attended the visit.
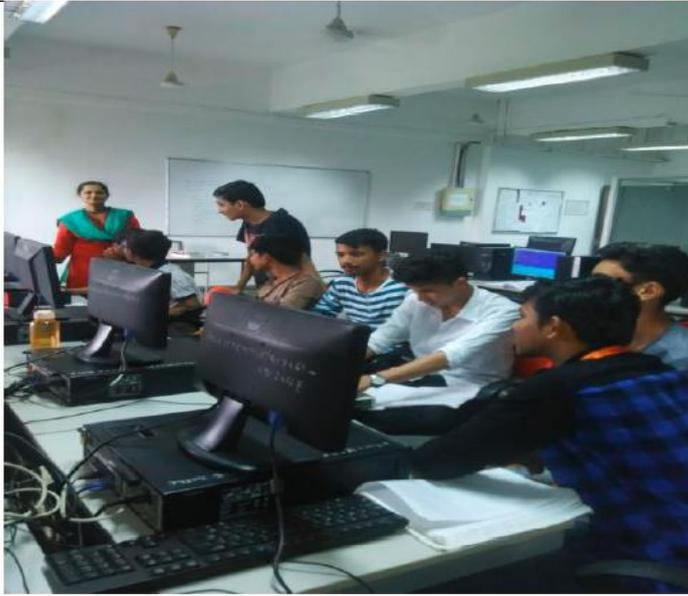
Workshop on Problem Solving and Programming

Open Day

Workshop on Arduino

Workshop on Java Programming

Project Orientation

FY Induction Program

EESA Inauguration

EESA Council 2018-2019

LT Spice hands-on workshop I

Java Seminar

Teachers Day

Parent Proctor Meeting

Importance of coding seminar

LT Spice hands-on workshop II

Visit to CEN Lab, IIT Bombay

Workshop on meditation music

Calculator Workshop

Subject Board Meeting

Faculty Activities:

Department encourages faculty to enhance the knowledge in their own interest areas. Faculty can apply through FDC for any relevant workshop, STTP or technical course throughout the semester.

- Prof. Rajashree Daryapurkar and Prof. Nilesh Lakade attended a course on "Soft Skills" conducted by College to corporate programme (IITBombauX) by IIT Bombay from 6th September 2018 to 4h October 2018.
- Prof. Rajashree Daryapurkar and Prof. Nilesh Lakade attended a course on "Workplace Communication" conducted by College to corporate programme (IITBombauX) by IIT Bombay from 4th October 2018 to 12th November 2018.
- Prof Rajashree Daryapurkar and Prof. Nilesh Lakade attended a course on "Effective use of IT for professional activities" conducted by College to corporate programme (IITBombauX) by IIT Bombay from 6th September 2018 to 11th November 2018.
- Prof. Lekha Das attended a course on "Designing Learner-Centric MOOC" conducted by (IITBombauX) by IIT Bombay from 2nd August, 2018 to 6th September 2018.
- Prof. Ankita Modi and Prof. Inderjit Singh Dhanjal attended a ISTE approved STTP on "Teaching Methodology for core electronics and telecommunication" conducted by Department of Electronics & Telecommunication at K.J Somaiya College of Engineering, Mumbai from 2nd July 2018 to 7th July 2018.
- One-week Teaching Learning workshop conducted by IQAC, KJSCE was attended by all Faculty of Electronics Engineering from 9th July to 14th July 2018.
- Dr. J.H. Nirmal, Dr. Sudha Gupta, Dr. Samidha Kulkarni, Prof. A S Thosar attended workshop on "Leadership Development Program for building Institutional Leadership" conducted by K J Somaiya College of Engineering (an initiative by Trascebder Services Pvt Ltd) from January 2018 to October 2018.
- FDP on "Machine Learning in Speech Processing" was attended by Dr. J.H. Nirmal at Electronics & ICT Academy National Institute of Technology Warangal from 12th November to 17th November 2018.
- Prof. Arati Phadke, Prof. S.A. Hanumante, Prof. Seema Talmale, Prof. Shila Dhande, Prof. Nilesh Lakade attended "IUCEE International Engineering Educator Workshop" conducted by Dr. Sohum Sohoni, Arizona State University IUCEE International Engineering Educator's Certification Program from 18th December 2018 to 20th December 2018.
- Prof. Rajashree Daryapurkar completed a NPTEL online certification course on Introduction to Smart Grid from August 2018 to September 2018.
- Prof. Arati Phadke completed a NPTEL online certification course on Hardware Modeling using Verilog course with 90% score (Elite + Gold) Certificate from August 2018 to October 2018.
- Prof. Shila Dhande completed a NPTEL online certification course on Op-Amp practical application: design, simulation and implementation from July 2018 to October 2018.
- Prof. Milind S Marathe completed "Magnetics for Power Electronic Converters", an online non-credit course authorized by University of Colorado Boulder and offered through Coursera from November 2018 to December 2018.

Expert Lecture Delivered:

- Dr. J.H. Nirmal delivered an expert talk at K.K. Wagh Institute of Engineering Education & Research, Nashik in the month of August 2018.
- Dr. J.H. Nirmal delivered an expert talk at K.C. College of Engineering & Management Studies & Research in the month of August 2018.
- Dr. Sudha Gupta delivered an expert talk at the "8th International conference on Electronics, Communication and networks", Bangkok, Thailand in the month of August 2018.
- Prof. Arati Phadke delivered an Expert talk on "Collaborator for First Year Engineering Experiences Cluster" at ICTIEE 2019 Conference, Malla Reddy Engineering College in the month of December 2018.
- Prof. Arati Phadke delivered an Expert talk on "CO-PO articulation and measurement" at K J Somaiya Science and Arts college, Vidyavihar, Mumbai in the month of December 2018.

Guest Lectures:

- A guest lecture on Importance of Coding was conducted by Ms. Akshya Nagrajan (Alumini of KJSCE) on 13th August, 2018. This session was attended by 53 students from SY, TY and LY B Tech Electronics.
- Guest Lecture on Instrumentation was conducted by Mr. Shivaji S Nawatake for Electronics Students on 26th September 2018.
- Guest Lecture on "Opportunities in VLSI" was conducted by Dr. Rajesh Advani on 1st October, 2018. This session was attended by 68 students from SY, TY, LY and M. Tech Electronics. This event was organized by Prof. Amrita Naiksatam.

Faculty Achievements:

- Dr. Sudha Gupta presented a paper in IUCEE sponsored Fifth International Conference on Transformations in Engineering Education titled "Blackout Prediction on smart power transmission system using machine learning technique" at Bangkok, Thailand.
- Dr. Sudha Gupta published a paper in UGC Approved) Global Journal of Engineering science and research, titled "Autonomous RC Car using optimize neural network".
- Dr. Sudha Gupta presented a paper in IEEE International conference on new trends in engineering & Technology titled "Offline text reader for visually impaired people using digital eye" at Pune, India.

- Prof. Arati Phadke presented a paper in International Conference on Transformations in Engineering Education - Imparting Futuristic Skills (APICTIEE 2018) titled "Effective Model for Assessment of Learning Skills of Graduate Engineer" at SRM University Amaravati, July 2018.
- Prof. Arati Phadke presented a paper in 9th IEEE International Conference on Technology for Education (T4E 2018) titled "Enriching Curriculum Through Laboratory Courses for Technology-Enhanced Learning".
- Prof. Arati Phadke presented a paper in International Conference on Transformation in Engineering Education (ICTIEE 2019) titled "G-Suit Based Application for Calculation of Course and Program Outcome Attainment".
- Prof. Lekha Das presented a paper in International Conference on Transformation Engineering Education- Imparting Futuristic Skills titled "Experiential Learning Approach in Teaching Methodology".
- Prof. Megha Sharma presented a paper in International Conference on Transformation Engineering Education- Imparting Futuristic Skills titled "Experiential Learning Approach in Teaching Methodology".
- Prof. Amrita Naiksatam presented a paper in 2018 IEEE Ninth International Conference on Technology for Education (T4E) titled "Effective online assessment and evaluation though online laboratory work submission for Technology Enhanced Learning".

Student Activities:
- One-day visit to CEN Lab, IIT Bombay, Powai on 20th October, 2018 for LY B Tech students was organized by Prof. Amrita Naiksatam. 14 students from LY B. Tech attended the visit.
- The EESA Council conducted and organized Calculator workshop on 21st August, 2018.
- The EESA Council conducted and organized an event "Abhiyantriki" on 5th and 6th October, 2018.

Students Achievements:

Many of our students participated in many co-curricular and extra-curricular activities:
Our two UG students were placed in Amadeus lab with CTC of 8.35 lacs/annum and one UG student was placed in Think & Learn (Byjus') with CTC of 10 lacs/annum.

Student Internships:

Many students have successfully completed their Internship from reputed companies like Doordarshan Sahyadri, Blankabots Robotics Lab, ACG Group, Siemens Ltd, and Reliance Jio.

Results:

F.Y B. Tech.
May- June 2018 Semester II

1. RANE YUKTA

2. BILKHU HARMANJEET SINGH

3. AHER SAEESH

S.Y B. Tech.
May- June 2018 Semester IV

1. JOSHI AMOGH

2. REGOTI SHARAD

3. DHURI EKTA

T.Y B. Tech.
May- June 2018 Semester VI

1. KULKARNI SOHAM

2. AUTI MAYURESH

3. BENKE HARSHADA

L.Y B. Tech.
May- June 2018 Semester VII

1. DHARAP ROHIT

2. MARATHE POOJA

3. PATEL NIDHI

F.Y M. Tech.
May- June 2018 Semester II

1. MUNVAR NIRMOL

2. MULEY PRIYANKA

3. KURUP VARUN

Placements:

We congratulate our students who got placed in many prestigious companies like L&T InfoTech, Colgate-Palmolive, Accenture, Amadeus Lab, Capgemini, Majesco, Performics Convonix, Puretech Internet Pvt. Ltd, Tata Communications, Godrej & Boyce, Vodafone, Saint Gobain, Deloitte and Think & Learn (Byju's).

> "An investment in knowledge pays the best interest"