K. J. Somaiya College of Engineering
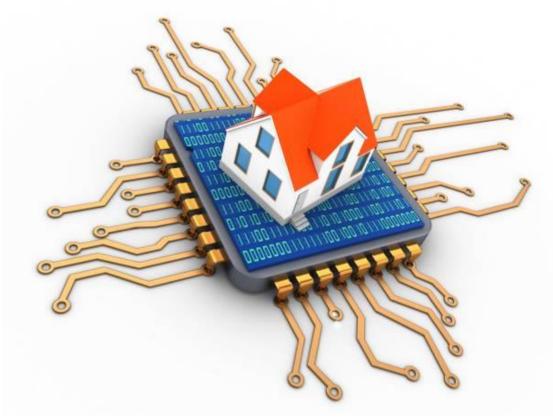(Autonomous College Affiliated to University Of Mumbai)
Department of Electronics Engineering

NEWSLETTER
January-June 2019

Editorial Committee
Dr. J.H. Nirmal (Chief Editor)
Head, Department of Electronics
Mrs. Megha Sharma(Editor)
Faculty, Department of Electronics

Thought from the HOD

We are pleased to present the departmental Newsletter for the term January-June 2019. This Newsletter will definitely help to showcase the activities that are happening in the department. It also helps in building up teamwork which is very much needed today in the world of competition. It provides a platform for exposing the merits and academic achievements of the faculty. This would definitely create an impact in the minds of readers, by way of providing larger visibility and dimension to the department.

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: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: 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.

PO3: Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations.

PO4: 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.

PO5: 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.

PO6: 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.

PO7: Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: 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.

PO12: 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

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:

- AICTE- ISTE Approved One Week STTP on "Linear Algebra, Statistics, Mathematical Modelling: Hands On" was organized from January 8-12, 2019 by the Department along with Department of Science and Humanities Engineering. This was coordinated by Mrs. Seema Talmale and Mrs. Bharati Khedkar.
- Python workshop was conducted by Mr. Pranav Phadke, Technical Program Manager and Mr. Chinmay Anaokar, Managing Director, Brain Floss Education Services Pvt. Ltd on January 12, 2019 in the department. Mrs. Sushma Kadge and Mr. Makarand Kulkarni coordinated the workshop.
- A Session on "Industrial Automation Using Multi loop Control" was conducted by Mr. Sanjay Pitale, Mr. Raul and Ms. Vipula. from Automate Process Control Pvt. Ltd. on January 30, 2019. This was coordinated by Prof. Makarand G. Kulkarni. Prof. Nilesh A. Lakade
- Lab sessions on LabVIEW was conducted on February 13,2019 by Mr Umer Shariff Starcom. This was coordinated by Ms. Lekha das.
- Degree Certificate Distribution ceremony was held in the department on February 16,2019
- "E-Yantra regional finals 2019" was organized by Mrs. Arati Phadke and Mrs. Parul Sindhwad on February 21,2019.
- LabVIEW session on Data-Acquisition Based experiment was conducted by Mr. U.P. Chhatre and Mr. Kiran Thale on March 9, 2019.
- A Workshop on LabVIEW and Its applications with case studies was Conducted by Prof Nilima Warke, Associate Professor, Department of Instrumentation, VESIT Chembur on March 20 ,2019. This was organized by Mrs. Sushma Kadge.
- Industrial visit to SMEC Automation Pvt LTD as a part of Industrial Application course for Sem II students was organized by Mr. Milind Marathe and Mr. Inderjit Singh Dhanjal on March 22, 2019.
- Hands on Workshop on "CDAO and CRIO" was conducted by Mr. Sivakumar S Senior Application Engineer on   . This was organized by Mrs. Sushma Kadge.
- Industrial visit to MTNL CETTM as a part of Industrial Application course for Sem II students was organized on April 27, 2019.
- One day workshop on "Active learning in Electronics and Power Electronics with simulation App" was conducted by Prof M.B Patil Professor, Department of

Electrical Engineering at IIT Bombay. This was arranged by Mrs. Amrita Naiksatam on May 13, 2019.

- AICTE- ISTE Approved One Week STTP on "Industrial IoT System Design from Sensing to Mitigation" was organized by Mrs. Sudha Gupta and Mrs. Amrita Naiksatam from June 10-14,2019.
- Departmental Open day was organized successfully on July, 2019.

Guest Lecture on VLSI

Guest lecture on Industrial Automation by Bharat Bijlee

Workshop on Sequel

STTP on Linear Algebra

Inauguration of STTP on Linear Algebra

Degree Distribution Ceremony

e-Yantra 2019

Industrial Visit to SMEC

Industrial Visit to Raviraj Process Control

FY Induction Program

Newsletter ETRX January-June 2019

Regional Finals eYIC 2019

Workshop on Java Programing

Projects During Academic Audit

Python Workshop

Visit to SAMEER IIT Bombay

Guest Lecture Automate Process Control

Newsletter ETRX January-June 2019

Visit to ISRO Bangalore

Visit to Raviraj Process Control

Industrial visit to Siemens

Visit to VESIT

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.

- Ms. Sonia Joshi and Ms. Deepa Jain attended a one week AICTE-ISTE Approved STTP at KJSCE on "Linear Algebra, Statistics, Mathematical, Modeling :Hands On" in January 2019
- Ms. Rajashree Daryapurkar attended a one week STTP at D.J. Sanghavi College of Engineering, Mumbai on "Recent trends in Wireless Networks" in January 2019.
- Three days' workshop on "Advanced Topics in Embedded Systems and Robotics (Python & IoT)" was attended by Ms. Kirti Sawlani at IITB in February 2019.
- Ms. Arati Phadke attended "Examination reforms workshop" organized by AICTE, Western region in College of Engineering, Pune in February 2019.

- Ms. Amrita Naiksatam attended a one day workshop on "Lateral Thinking" at K. J. Somaiya college of Engineering in February 2019.
- Dr. J.H. Nirmal and Dr. Sudha Gupta attended a three day AICTE workshop on "Executive Leadership Program by Art of Living" in March 2019.
- Two day workshop on "Understanding the IMC RBNQA Criteria for Performance Excellence" by IMC Chamber of Commerce & Industry, Mumbai was attended by Ms. Annu Abraham in April 2019.
- Mr. Nilesh Lakde and Ms. Deepa Jain attended a one week AICTE-ISTE STTP on "Industrial IoT System Design from Sensing to Mitigation" in the month of June 2019.
- AICTE Sponsored One week (QIP)STTP on "Advance in Signal & Image Processing (ASIP)" by Ms. Sushma Kadge was attended at Shri Guru Gobind Singh Institute Of Engineering & Technology, Nanded in May 2019.

Expert Lecture Delivered:
- Dr. J.H. Nirmal conducted a session in 3rd International Conference on "Innovative and Advanced Technologies in Engineering (ICIATE19)" at Atharva College of Engineering, Malad in March 2019.
- Dr. J.H. Nirmal delivered a lecture as Keynote Speaker at K.C. College of engineering in Inauguration ceremony of IETE chapter.
- Dr. Sudha Gupta delivered a lecture in Global Summit on Power and energy Engineering, Dubai in February 2019.
- Mrs. Amrita Naiksatam conducted a FDP at Maharana Pratap Engineering College, Kanpur (UP) in June 2019 on Enhanced Teaching/Learning Pedagogy with ICT Tools And Active Learning Techniques.
- Dr. J.H. Nirmal conducted a session on "IOT and its Application" in AICTE- ISTE Approved One Week STTP on "Industrial IoT System Design from Sensing to Mitigation" in June 2019.
- Dr. J.H. Nirmal visited Govt. Poly-technique College and Thakur College of engineering as subject expert.
- Ms. Arati Phadke visited Fr CRCE , Bandra , Department of ELectronics Engineering as Academic audit expert in June 2019.

Guest Lectures:
- Expert session on Industrial automation was conducted by Mr Sandeep Sawant, Dy General manager- HR, Bharat Bijlee Limited and Mr Amogh Gharat, General Manager, Engineering & Product, Promotion (Drives and Automation), Bharat Bijlee Limited on January 16, 2019. This was coordinated by Mrs. Sushma Kadge and Mr. Nilesh Lakade.
- Expert lecture on Artificial Intelligence, Machine Learning and Speech Processing as a part of Industrial Application course for Semester II students was conducted by Dr. J.H Nirmal, Head Department of Electronics, K.J.S.C.E on January 18,2019. This

was coordinated by Mr. Milind Marathe and Mr. Inderjit Singh Dhanjal.

- Expert lecture on Power Electronics and drives as a part of Industrial Application course for Semester II students was conducted by Dr. S.D Joshi on January 25,2019. This was coordinated by Mr. Milind Marathe and Mr. Inderjit Singh Dhanjal.

- Expert lecture on IC Technology as a part of Industrial Application course for Semester II students was conducted by Dr. Nitin S Kale, PhD, Chief Technology Officer, Nano Sniff Technologies Pvt Ltd. On February 1,2019. Faculty coordinators were Mr. Milind Marathe and Mr. Inderjit Singh Dhanjal.

- Session on Overview of Siemens Industrial Automation division was conducted by Ms Minal Jadhav on February 1,2019 for..

- Expert session on Industrial Automation – Past, Present and Near Future was conducted by Mr. Shivaji Navtakke on February 9,2019. This was coordinated by Mrs. Ankita Modi.

- Expert lecture on Solar and Electronic based projects as a part of Industrial Application course for Semester II students was conducted by Mr. Girish Kulkarni Former Deputy Divisional Manager, Strategic Electronics Division, NELCO Limited on February 15, 2019. This was coordinated by Mr. Milind Marathe and Mr. Inderjit Singh Dhanjal.

- A session on "L&T Technologies work in VLSI Domain and their future ventures" was conducted by Mr Santosh and Mr Nikhil Patwardhan LTTS, Pune for all ETRX students. This was coordinated by Mrs. Amrita Naiksatam on February 20,2019.

- Expert lecture on "Overview of VLSI Design Course" was conducted by Dr Rajesh Advani on February 2019. This was coordinated by Mrs. Amrita Naiksatam on February 20, 2019.

- Expert lecture on Embedded System as a part of Industrial Application course for Semester II students was conducted by Mrs. Arati Phadke on March 8,2019. This was coordinated by Mr. Milind Marathe and Mr. Inderjit Singh Dhanjal.

- Expert Session on Industrial Automation Workshop: Hazardous area: Classification and protection was conducted by Mr. Nikhil Kumar Sejpal, Team Leader – Instrumentation & Automation, BASF Chemicals Pvt Ltd Mr Gajanan Ramdasi Deputy Manager – Instrumentation, BASF Chemicals Pvt Ltd on March 9, 2019. This was coordinated by Mrs. Sushma Kadge.

- Expert lecture on Control and Automation as a part of Industrial Application course for Semester II students was conducted by Mr. Jayesh Chande, Manager, Larson & Toubro Ltd. Electrical and automation business (Metro and Solar) on March 15, 2019. This was coordinated by Mr. Milind Marathe and Mr. Inderjit Singh Dhanjal

- Expert lecture on Communications as a part of Industrial Application course for Semester II students was conducted by Mrs. Sudha Gupta on March 29, 2019. This was coordinated by Mr. Milind Marathe and Mr. Inderjit Singh Dhanjal.

- Expert lecture on Robotics, MEMS and Electronic Product Design as a part of Industrial Application course for Semester II students was conducted by Mr. Uday

Chhatre on April 5,2019.

Faculty Achievement:
- Mrs. Arati Phadke was appointed as Associate Editor for The Journal of Engineering Education Transformations (JEET) in February 2019.
- Mrs. Arati Phadke presented a paper in 9th International Conference on Technology for Education T4E 2018 , IIT Madras titled "Enriching Curriculum Through Laboratory Courses for Technology-Enhanced Learning" in January 2019.
- Mrs. Amrita Naiksatam presented a paper titled "Effective online assessment and evaluation through online laboratory work submission for technology enhanced learning" in 9th IEEE International Conference on Technology for Education (T4E 2018), IIT Madras.
- Ms. Ankita Modi contributed a paper on "Electromagnetic trajectory simulation using triaxial cage" in Journal of Magnetism and Magnetic Material in February 2019.
- Mr. Makarand Kulkarni contributed a paper on "Novel Coaxial Cable Implementation of Miniaturized Wilkinson Power Divider and Quadrature Hybrid Coupler for Vhf Applications" in a journal on Telecommunications and Radio Engineering.
- Ms. Ankita Modi contributed a paper in IEEE Transactions on Magnetics on Electromagnetic Signature Reduction of Ferromagnetic Vessels using Machine Learning Approach.
- Mr. Sandeep Hanumante completed a course on "IUCEE International Engineering Educators Certification Program Phase I & II" in May 2019.

Student Activity:
- Industrial Visit to ISRO Bangalore and JVS Electronics Pvt. Limited was arranged by Mr. Sandeep Hanumante and Ms. Lekha Das for Electronics students from January 20-23, 2019.
- Industrial visit to Siemens, Airoli was arranged for TY and LY students on February 6,2019.
- A visit to SAMEER IIT Bombay was organized on February 28, 2019.
- A visit to Instrumentation lab at VESIT Chembur was organized on March 6, 2019.
- Industrial visit to RaviRaj Process Control Pvt LTD as a part of Industrial Application course for Semester II students was arranged on April 23,2019.
- Visit to Renewable Energy lab set up & Computer Centre of department of Mechanical Engineering and Cisco lab of Department of Electronics & Telecommunication Engineering was arranged on February 26,2019.

Results:

S.Y B. Tech.
May – June 2019 Sem IV

- RANE YUKTA
- BILKHU HARMANJEET
- BOSE ANUBHAV

T.Y.B.Tech.
May –June 2019 Sem VI

- MULIK ASHAWAMI
- JOSHI AMOGH
- KHAN KAMRAN

L.Y. B.Tech
May –June 2019 Semester VIII

- KULKARNI SOHAM
- SHETTI SHUBHADA
- AUTI MAYURESH

FY M.Tech.
May –June 2019 Sem II

- KRITHIKA PADMANABHAN
- GUNDE SAKSHI
- PATIL HIMADRI

Placement:

We congratulate our students who got placed in many prestigious companies like Accenture, Capgemini, L & T Infotech, Oracle, TCS, Cartesian Consulting.

Student Internships:

Many students have successfully completed their external Internship from reputed companies like Mukund Ltd, Sankalp Technical Services, Reliance Jio, Career Launcher The Machine Learning Internship, etc. Some student also completed Internal internship offered by Faculty of KJSCE

Students Achievements:

Many of our students participate in many co-curricular and extra-curricular activities and get awards.

"Education is learning what you didn't even know you didn't know.

Daniel J. Boorstin