



SKN SINHAGAD COLLEGE OF ENGINEERING

E&TC Engineering Department

APRIL 2015

ELECTRONICS AND TELECOMMUNICATION ENGINEERING DEPARTMENT ORGANIZED TECHNICAL ACTIVITIES. STUDENTS PARTICIPATED IN THE ACTIVITIES WITH FULL SPIRIT. "WORKSHOP ON PCB LAYOUT DESIGN", "GUEST LECTURE ON ADVANCED WIRELESS COMMUNICATION AND SECURITY", "WAVES 2K15" WERE CONDUCTED IN DEPARTMENT

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TECHNICAL EVENT: WAVES 2K15

The major objective of Waves 2k15 is to identify the talented and qualified students before they complete their education. This process reduces the time for an industry to pick the candidates according to their need. It is a cumbersome activity and hence special efforts are required especially for the students from rural area. To achieve this, the departmental association - ETELSA under the guidance of Prof. S. V. Surwase came with Waves 2k15 arranged on 28/02/2015 (Saturday). There was a huge response not only from the college but also from other colleges in university too.



Waves 2k15 Managing Committee

The students participated in great number and with great poise and zeal.

All the students attended full day event which includes Circuit debugging, Micromaster, Poster presentation, Tech Planet, Virtual Campus etc. with passion and gusto. Many students do not understand the importance of placement training that is being imparted, whether it is an aptitude training or soft skills. They show the least interest in this due to various factors viz., projects, assignments or more of activities loaded by the colleges as part of their curriculum thinking that it is not useful. So, waves 2k15 proved to be a great source of the same.

Prof. Hussain Bhaladar, Prof. Joshi, Mr.

Burje from other academia and industry adjudicate the various events under Waves 2k15. The students of ETELSA under the leadership of faculty members of E&TC department took great efforts in bringing the event to be a great success. The day ends up with the prize distribution where the judges declares the prizes and gave the guidelines of corrective actions to be taken for the same. At the end, Mr. Ravikiran Lokhande treasurer, ETELSA express vote of thanks in the valedictory session.



Circuit Sudoku



Poster Presentation

A Guest Lecture on “Passive RFID Tag Design”

Wireless technology is one of the main areas of research in the world of communication systems today and a study of communication systems is incomplete without an understanding of the operation and fabrication of antennas. This was the main reason for arranging a guest lecture on “Passive RFID Tag Design” focusing on the field. The session was conducted by Dr. Shankar Nawale on 14/07/2014 for final year engineering students.

Dr. Shankar Nawale is a dedicated research scholar in the area of UHF RFID Passive Tag and its applications.

At present, he is doing Post-Doctoral and Doctoral Research at France and Italy respectively under Erasmus Mundus scholarship, funded by European Commission. He is always a highly motivated individual and endeavoring to learn and upgrade the skills.



In the first half of his session, he explained the basic concepts of RFID tag, its types: passive and Active and also explained the design parameters of RFID tag. In post lunch session, he added that Much greater level of expertise is required to choose the best performing tag design for a specific application (vs selecting a bar code)... but the benefits are much greater too and so the discussion continues with tradeoffs required to be considered. Continuing, he also explains some of his research work and results. The session was concluded at 5.00 pm with vote of thanks by Ms. Shruti Kadam in the valedictory function.

Project Based Learning

Project-based learning, is a dynamic approach to teaching in which students explore real-world problems and challenges, simultaneously developing cross-curriculum skills while working in small collaborative groups.

In the process of completing their projects, students also hone their organizational and research skills, develop better communication with their peers and adults, and often work within their community while seeing the positive eff-

-ect of their work.

Project-based learning is filled with active and engaged learning, it inspires students to obtain a deeper knowledge of the subjects they're studying. Research also indicates that students are more likely to retain the knowledge gained through this approach far more readily than through traditional textbook-centered learning. In addition, students develop confidence and self-direction as they move through both team-based and independent work.



“WORKSHOP : PCB LAYOUT DESIGN”



With full enthusiasm a one day workshop of IETE Student Forum was organized by Sinhgad College Of Engineering, Korti, Pandharpur on 1st Feb 2015. The function was presided over by Prof. A. B. Jagadale, Head of Department of E&TC SKNSCOE, Korti, Pandharpur.

The purpose of ISF is to give a platform for the student members to exchange ideas by organizing/participating technical programs and activities. They would get the benefit for technical visits / practical training / project work in R&D laboratories/ industries that increases their

spirit of self-reliance and professionalism.

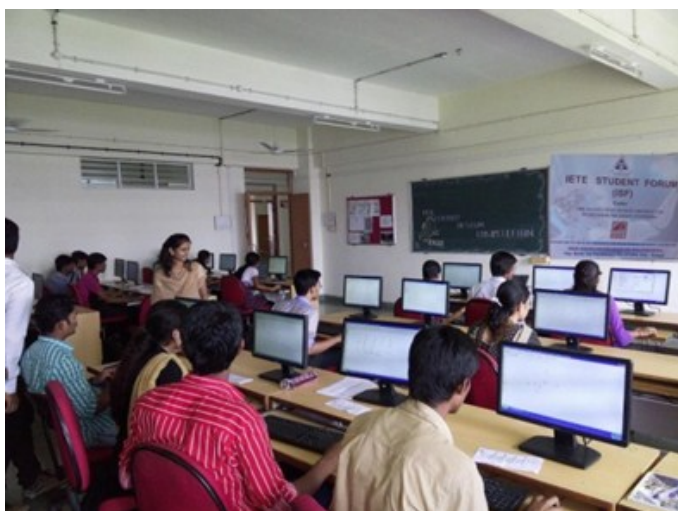
The department has opened the challenge to students for PCB Layout design. The aptitude test was taken for the same. The shortlisted candidates was entered in second round of PCB layout design in computer lab.

Ms. Shraddha More, student chairman of ISF expressed her views about the program.



Dr. K. J. Karande, Principal, SKNSCOE encouraged students for participation in such technical events and also to increase the student membership in professional bodies. He also encouraged students for broader vision in acquiring the technical knowledge.

The function was concluded with vote of thanks by Ms. Sharayu Phule and lot of promises and hope for future.



A GUEST LECTURE ON “ELECTRONIC PRODUCT DESIGN”

A Guest Lecture on “Electronic Product Design” is arranged on **06/02/2015**. Prof. Dr. V. L. Patil delivered an expert lecture on “**Electronic Product design**”. He explained the product design as a verb is to create a new product to be sold by a business to its customers. A very broad concept, it is essentially the efficient and effective generation and development of ideas through a process that leads to new products. He further added that due to the absence of a consensually accepted definition that reflects the breadth of the topic sufficiently, two discrete, yet interdependent, definitions are needed: one that explicitly defines product design in reference to the artifact, the other that defines the product design process in relation to this artifact.

The main purposes of the lecture were:

- To develop the student's practical knowledge of digital logic gates, circuits containing synchronous logic, and the use of microprocessors such as the PIC and Arduino.
- To gain further experience in the design, simulation, implementation and testing of electronic circuits.
- To develop the ability to work on a project as a member of a team.

The students of SE, TE and BE attended the lecture with full gusto. The session concluded with vote of thanks given by Mr. Akshay kangude.

GUEST LECTURE ON “ADVANCED WIRELESS COMMUNICATION AND SECURITY”

Dr. Sanjay Pawar is an eminent speaker invited to deliver a lecture on most interesting area in telecommunication dated 21/02/2015. He focused on the topic “Advanced Wireless Communication and Security”, and brought students thought on its importance.

Wireless communication is currently an astonishingly prosperous high-technology industry in the world. At present, very large productivity in this industry is needed and is in progress. Actually, the research and development in wireless communication has been quite flourishing, especially playing a leading role in many relevant cutting-edge academic researches.

He encouraged the students to focus on the following research topics, to promote wireless communication to the world-class level. The different topics are Wireless security, Cognitive Radio Systems, Cooperative and Secure Wireless Communications, Broadband Wireless Communications, Coding Theory and System Optimization, Communication IC. If these researches can be thoroughly studied and the research results can be advisably integrated in an optimal fashion, we will provide a great platform for training talented creative researchers and capable engineers to significantly promote the wireless communication industry.