



# SKN SINHAGAD COLLEGE OF ENGINEERING

## E&TC Engineering Department

OCTOBER 2014

ELECTRONICS AND TELECOMMUNICATION ENGINEERING DEPARTMENT ORGANIZED TECHNICAL ACTIVITIES .STUDENTS PARTICIPATED IN THE ACTIVITIES WITH FULL SPIRIT. "DESIGN OF LED EMERGENCY LIGHT","WORKSHOP ON INTRODUCTION TO VHDL", "WORKSHOP ON PROTEUS SOFTWARE WORKSHOP", "GUEST LECTURE ON MATLAB GRAPHIC USER INTERFACE AND DEPARTMENT WEBSITE INAUGURATION", "WORKSHOP ON WINDOWS APP DEVELOPMENT", "GUEST LECTURE ON IMAGE PROCESSING AND HISTOGRAM NORMALIZATION" WERE CONDUCTED IN DEPARTMENT .

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## WORKSHOP ON “WINDOWS APP DEVELOPMENT”

With full enthusiasm a two day workshop of IETE Student Forum was organized by Sinhgad College Of Engineering, Korti, Pandharpur on 3<sup>rd</sup> and 4<sup>th</sup> October, 2014. The function was presided over by Prof. N. M. Sawant.



**Windows App Development Workshop**  
Coordinator– Prof. A. C. Pise

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.

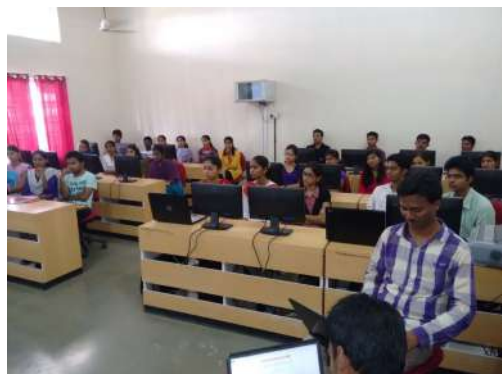
The function has started by the felicitation of Guests. Mr. Sanket Ghorpade was a trainer for the workshop from Manage Code Cultivate,

LLP. He also emphasized on benefits of students participation in such event to develop technical knowledge like windows application development. 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. Sayali Shinde and lot of promises and hope for future.





**Proteus software  
workshop**



## One Day Workshop on “Proteus Software”

Department of E&TC has arranged a “One Day Workshop on Proteus Software”, on 20<sup>th</sup> September, 2014 by IETE coordinator Prof. A. C. Pise.

The function has started in traditional way with Saraswati poojan and Saraswati vandana followed by the felicitation of Guests. Prof. N. M. Sawant appreciated students for organizing such

a most excellent workshop under IETE-ISF. He also emphasized on benefits of students participation in such event to develop technical knowledge.

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

The function was concluded with vote of thanks by Mr. Vikas Gurav and lot of promises and hope for future.

## “DESIGN OF LED EMERGENCY LIGHT”



The workshop is conducted by department on Design of LED emergency light system by Prof. Jagadale A. B. as an Extra Input to students on 14/07/2014. In first session Prof.

Jagadale introduced the student the need of emergency light. He made student aware the students about various feasible solution for emergency light. Then the session followed by problem and design procedure. The student participated by making calculation for design and understood proper design procedure. It is followed by selection of components and their introduction. He has covered vari-



ous points as Need of Emergency light, Difference possible solutions, Problem statement, Design procedure and calculation etc. In second session Prof. Jagadale briefed about the printed circuit board and general purpose board. He explained the component assembly, soldering, testing, demo and cost estimation of same.



Departmental Website Presentation

## Department Website Inauguration

On the occasion of Guest Lecture on Matlab Graphic User Interface held on 27 September 2014, E&TC Department has announced Departmental Website. HOD Prof. A. B. Jagdale and all staff of E&TC appreciated the efforts taken by Mr. Ravikiran Lokhande for this website preparation.

## Guest Lecture on “ Matlab Graphic User Interface”

The guest lecture is arranged under ETELSA by Prof. S. V. Surwase on 27/09/2014. The function was started with felicitation of Trainer Ms. Megha Gore, followed by practical training on Matlab GUI Software by the expertise.

The Principal Dr. K. J. Karande appreciated students for their keen involvement in such practical oriented guest lecture. Dr. Karande has given a speech on this occasion about usefulness of such events. He also emphasized on benefits of students participation in such event to develop technical knowledge.

GUIs (also known as graphical user interfaces or UIs) provide point-and-click control of software applications, eliminating the need to learn a language or type commands in order to run the application.

MATLAB apps are self-contained MATLAB programs with GUI front ends that automate a task or calculation. The GUI typically contains controls such as menus, toolbars, buttons, and sliders. Many MATLAB products, such as Curve Fitting

Toolbox, Signal Processing Toolbox, and Control System Toolbox include apps with custom user interfaces.

The first half of the GUI creation process: designing the GUI. Designing means everything you do before you start to write the code that results in a final working GUI.

Since GUI design is not a simple recipe, this session was itself divided into two parts: guiding principles for design, and a suggested process to follow for design.

The session was ended with the vote of thanks by Mr. Akshay Kangude.





# GUEST LECTURE ON “IMAGE PROCESSING AND HISTOGRAM NORMALIZATION”

Dr. Talbar is an eminent speaker, and a most enthusiastic personality. He has delivered a lecture on Image Processing and Histogram Normalization, dated 18/10/2014, which is used in the design of Image Processing based various applications.

Image processing is a method to convert an image into digital form and perform some operations on it, in order to get an enhanced image or to extract some useful information from it. It is a type of signal dispensation in which input is image, like video frame or photograph and output may be image or characteristics associated with that image. Usually Image Processing system includes treating images as two dimensional signals while applying already set signal processing methods to them. It is among rapidly growing technologies today, with its applications in various aspects of a business. Image Processing forms core research area within engineering and computer science disciplines too.

He focused on the various purposes of Image



that are not visible, Image sharpening and restoration - To create a better image, Image retrieval - Seek for the image of interest, Measurement of pattern – Measures various objects in an image, Image Recognition – Distinguish the objects in an image.

He also had given the idea of Histogram Equalization. This method usually increases the global contrast of many images, especially when the usable data of the image is represented by close contrast values. Through this adjustment, the intensities can be better distributed on the histogram. This allows for areas of lower local contrast to gain a higher contrast. Histogram equalization accomplishes this by effectively spreading out the most frequent intensity values.

The session was most interactive. Students enjoyed the interactive session. Also they found answers of their queries regarding Image Processing.

The session was concluded by vote of thanks by Mr. Gadekar Samadhan.

## ETELSA

### COORDINATOR



Today, the focus is not merely on enhancing the technical skills and also areas such as communicative English, Verbal and quantitative methods and interviewing techniques. So, ETELSA – students Association is formed hoping that our students will not only be confident of their academic qualifications but also their life skills.