



# SKN SINHAGAD COLLEGE OF ENGINEERING

## E&TC Engineering Department

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ELECTRONICS AND TELECOMMUNICATION ENGINEERING DEPARTMENT ORGANIZED TECHNICAL ACTIVITIES .STUDENTS PARTICIPATED IN THE AC-

### INSIDE THIS ISSUE:

Webinar on, "VLSI Design using Verilog" 2

Guest Lecture on, "PLC Logic Development and application" 2

Guest Lecture on, "Programmable System on Chip" 2

A Seminar on, "Practical Aspects in Electronics Controller" 3

One day workshop on, "Introduction to Mechatronics" 3

Three days workshop on, "Image Processing Applications using Open CV" 4

Placed Students in Semester II 4

## Guest lecture on "New trends in Electronics- Electric Vehicle"

With full enthusiasm a guest lecture organized on "New trends in Electronics-Electric Vehicle" under the ETELSA student association was organized by Department of Electronics & Telecommunication Engineering, SKN Sinhgad College of Engineering, Korti, Pandharpur on 4<sup>th</sup> Feb 2020.



The function has started by the introduction of resource person. The Mr. Anand Thakkar was the resource person for the guest lecture. He also emphasized on benefits of students participation in such event to develop technical knowledge.



Electric vehicles (EVs) are growing in popularity and certainly in mind space. They are cleaner and more efficient, and even fun (think Tesla). Their growth, however, is still considered just a market problem: The end user should choose on the basis of what it costs to buy and run, or how it performs, etc. Markets

matter, but there is also a need for government and policy inputs. EVs, after all, operate within broader energy and transportation ecosystems with their own distortions. Unless we understand Indian-use cases, drivers (in both senses of the word), limitations and opportunities, we risk ambitious targets that remain aspirational. Dr. K. J. Karande, Principal, SKNSCOE encouraged students for participation in such technical events. He also encouraged students for broader vision in acquiring the technical knowledge.

## Webinar on “VLSI Design using Verilog HDL”



A seminar was organized under ETELSA on **22nd Aug. 2019**. Prof. P. B. Borole, from VJTI College Matunga Mumbai. Once an embedded hardware is programmed for a certain task, it is used forever for the same task. Changing the firmware afterwards is not possible. Such systems are limited in computational resources like memory, CPU processing speed, I/O facilities but are still capable of performing the task given to them very

### Guest Lecture on, “PLC logic Development and Application”

Guest Lecture was organized by Department of Electronics & Telecommunication Engineering, Sinhgad College of Engineering, Korti, Pandharpur on **31<sup>th</sup> Jan 2020**. The lecture was given by Mr. Yadnesh Basutkar, Saksham Medicare, Solapur Maharashtra and coordinated by Prof. A. B. Jagadale, Associate Professor Department of E&TC SKNSCOE Korti.

The function has started by the Introduction of guest and need of industrial automation by Mr. A.B.Jagadale. He emphasized on benefits to students by participation and training in such developments to excel technical knowledge.

The students have introduced with various fundamental elements of industrial automation, sensors, actuators and motors. He also presented and explained industrial project development process using PLC, SCADA and DCS.

### पंढरपूर सिंहगड मध्ये प्रोग्रॅमेबल सिस्टम-ऑन-चिप या विषयावर व्याख्यान



पंढरपूर सिंहगड मध्ये आयोजित करण्यात आलेल्या व्याख्यान प्रसंगी डॉ.लाडगावकर यांचा सत्कार करताना प्रा. अविनाश हराळे सोबत प्रा. अंजली पिसे आदी

पंढरपूर (प्रतिनिधी) : कोर्टी (ता. पंढरपूर) येथील एस. के. एन. सिंहगड कॉलेज ऑफ इंजिनिअरींग महाविद्यालयातील इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरींग विभागात चतुर्थ वर्षात अभियांत्रिकीचे शिक्षण घेत असलेल्या विद्यार्थ्यांसाठी महाविद्यालयाचे प्राचार्य डॉ. कैलाश करांडे सर यांच्या मार्गदर्शनाखाली प्रोग्रॅमेबल सिस्टम-ऑन-चिप या विषयावर डॉ. बी. पी. लाडगावकर यांचे व्याख्यान आयोजित करण्यात आले होते.

यावेळी बोलताना डॉ. लाडगावकर म्हणाले, प्रोग्रॅमेबल सिस्टम-ऑन-चिप स्वयंप्रेस्स सेमीकंडक्टर द्वारे मायक्रोकंट्रोलर इंटिग्रेटेड सर्किट्सचे एक कुटुंब आहे. या चिप्समध्ये सीपीयू कोर

आणि कॉन्फिगर करण्यायोग्य समाकलित अॅनलॉग आणि डिजिटल उपकरणे यांचे मिश्रित-सिग्नल अॅरे समाविष्ट आहेत. पीएसओसी इंटिग्रेटेड सर्किट कोर, कॉन्फिगर करण्यायोग्य एनालॉग आणि डिजिटल ब्लॉक्स आणि प्रोग्राम करण्यायोग्य मार्ग आणि इंटरकनेक्टद्वारे बनलेले आहे. पीएसओसीमधील कॉन्फिगर करण्यायोग्य ब्लॉक्स हे इतर मायक्रोकंट्रोलर्समधून सर्वात मोठा फरक आहे.

पी.एस.ओ.सी. प्लॅटफॉर्म आपल्याला अंतर्गत संवाद साधण्याच्या डिझाइनमध्ये बाह्य घटक जोडण्याची परवानगी देतो. जेव्हा आपण अधिक जटिल डिझाइन विकसित करीत असाल तर योजनाबद्ध आयटमची संख्या त्यास बनवू शकेल आपल्याला

पाहिजे असलेल्या कोणत्याही पिनच्या मिश्रणाशी अॅनलॉग पोर्ट घटकांना मार्ग करणे अशक्य आहे. पी एस परिस्थितीत प्रथम आपले घटक जोडणे आणि विशिष्ट पिनवर कोणतेही एनालॉग किंवा डिजिटल घटक लॉक न करता प्रकल्प तयार करणे चांगले.

पी एस ओ सी च्या माध्यमातून इलेक्ट्रॉनिक्स सेक्टर मध्ये भरपूर डेव्हलपमेंट होणार असल्याचे मत डॉ लाडगावकर यांनी बोलताना व्यक्त केले. यावेळी डॉ. बी. पी. लाडगावकर यांचे महाविद्यालयाचे वतीने प्रा. अविनाश हराळे सर यांनी पुष्पगुच्छ देऊन सन्मान केला, व्याख्यानाचे नियोजन प्रा. अंजली पिसे आणि प्रा. गणेश लिंगे यांनी केले. कार्यक्रम माचे सूत्रसंचालन व आभार प्रदर्शन कुमारी गिरीजा दामोदरे हिने केले.

## A Seminar on “Practical Aspects in Electronics” Controller”

A Seminar is scheduled under ETELSA on **13/01/2020**. Electronics is widely used in information processing, telecommunication, and signal processing. The ability of electronic devices to act as switches makes digital information-processing possible. Interconnection technologies such as circuit boards, electronics packaging technology, and other varied forms of communication infrastructure complete circuit functionality and transform the mixed electronic components into a regular working system, called an electronic system; examples are



computers or control systems. An electronic system may be a component of another engineered system or a standalone device. As of 2019 most electronic devices use semiconductor components to perform electron control. By millions of items. Physically, embedded systems range from portable consumer devices (such as MP3 players, PDA's, Mobile phones, gaming devices) to large Enterprise products (such as Enterprise routers, Networking switches and Industrial automation systems). From an engineering point of view embedded systems development is very different from an application development.

Dr. Ravi also informed student about how to select engineering project. For that he suggested to check problem from surrounding first. Then find different solutions that are unique, measurable and time bound. He also suggested students to go for techno societal projects that will help for wellbeing of society .

## One Day Workshop on “Introduction to Mechatronics”

With full enthusiasm a one day workshop was conducted on **17/02/2020**. Mechatronics is the synergistic integration of sensors, actuators, signal conditioning, power electronics, decision and control algorithms, and computer hardware and software to manage complexity, uncertainty, and communication in engineered systems. Mr. Swapnil introduced students basics of Mechatronics and also gave introduction to Programmable Logic Control device. In this workshop, 42 students from Diploma (E&TC & Mechanical), have participated.



Punyashloak Ahilydavi Holkar Solapur University, Solapur Sanctioned

# Three Days' Workshop on "Image Processing Applications using OpenCV"

held at SKN SINHGAD College of Engineering, Korti, Pandharpur  
from 07<sup>th</sup> Feb 2020 to 09<sup>th</sup> Feb 2020.

The function has started by the felicitation of Guests, Prof. (Dr.) S. D. Lokhande, Principal & Professor of SCOE, Vadagaon, Pune, Prof. (Dr.) Shailendra Badwaik, Professor of SCOE, Vadagaon, Pune and Er. Ravikiran Lokhande, Catalyst Technologies, Pandharpur.

In-depth introduction to Python, Image Processing and its application using OpenCV to design various simple projects was given. They have demonstrated the ideas by providing a foundation in Image analysis and various operations on image. Through a series of lectures, exercises, and

labs, students got a strong foundation in Python and OpenCV. All lectures contains numerous examples that show both syntax and coding style guidelines. Exercises provided immediate reinforcement of lecture materials. And Labs gave students hands-on experience writing code, analyzing images and many more. Students was very happy from the workshop.



## Heartiest Congratulations to Placed Students

Navale Sonia Da-  
dasaheb

Tech Mahindra (3.25 LPA)

Amazon (2.4 LPA)



Flash Electronics, Pune  
(1.68 LPA)

Kulkarni Aakash  
Jayprakash



Karale saurabh  
sambat



Kolekar Sachin  
Shankar

