

Academic Year: 2020-21

Activity No.	01: One day National webinar on “Current Trends in Electronics :IoT and its applications”.
Aim	One day National webinar on “Current Trends in Electronics: Internet of Things and it’s applications”.
Date of the event	30 Sept.2020
Participants	Staff ,research students all over India (Zoom link: 100 and Youtube link: 50) youtube link: https://youtu.be/TmWJepC3Etg
Objectives:	<ol style="list-style-type: none"> 1. To make awareness about IoT among students and society. 2. To create awareness among society how one can use this technology during pandemic
Evidences of success:	During pandemic situations students, researchers, academicians, scientists from various institutes all over India Participated in the event.
Context:	IoT mainly consists of smart devices with embedded processors, sensors, and communication to collect and send data from different environments. The devices connected to the IoT hub or gateway share the data that they collect and analyze locally. When separate devices are attached to the Internet, sending and receiving the data and sending the data to make things intelligent.
Report	<p>Dept. of Electronics, M.S.G. Arts, Science & Commerce College organized National Webinar on “Current Trends in Electronics: Internet of Things and it’s applications” on 30 Sept.2020. Around 150 participants from various institutes all over India had actively participated in the webinar. The Objective of this webinar is to make awareness about IoT among students and indirectly in society. IoT is emerging technology which is very helpful not only for students who are really working in Electronics or Computer Science but in every aspects of our life.</p> <p>Dr. Shashikant Sadistap, Chief Scientist, Head Societal Outreach, CPS, CEERI, Pilani, Rajasthan was resource person of this webinar.</p> <p>Dr. Sadistap explained what is IoT and its need in today’s world. He also explained various applications of IoT such as smart weather station, smart Garbage Can, Smart Sleep system, Transportation Management, Smart phone based Embedded plant monitoring System, Current method: Smart Agri precision farming.</p> <p>After lecture there was a question-answer session. Dr.D.F. Shirude (Principal, M.S.G. Arts, Science and Commerce College, Malegaon) presided over the event. In the beginning of event, Dr. S.C. Kulkarni (Head, Dept. of Electronic Science) delivered an introductory speech. She threw the light on aims and objectives behind the conduct of such event. She also introduced the resource person. Dr. D. K. Halwar anchored the event. Lastly, Miss V.T. Salunke expressed the vote of thanks.</p>
Photo Proof	<p>The photo proof section contains several images and text. On the left, there are two presentation slides from CSIR-CEERI, Pilani. The first slide, 'Embedded Systems for Agriculture', shows a diagram of a smart irrigation system with sensors and actuators. The second slide, 'Embedded Systems for Clean Water', shows various water treatment and monitoring equipment. On the right, there is a slide titled 'Embedded Systems & Cyber-Physical Systems' which includes the following text:</p> <p>Definition: [Peter Marwedel] Embedded systems are information processing systems embedded into a larger product.</p> <p>Definition: [Edward A. Lee]: Embedded software is software integrated with physical processes. The technical challenge is managing time and concurrency in computational systems.</p> <p>Definition: Cyber-Physical (cy-phy) Systems (CPS) are integrations of computation with physical processes [Edward Lee, 2006].</p>



Mahatma Gandhi Vidyamandir's
Maharaja Sayajirao Gaikwad Arts, Science and Commerce College
Malegaon Camp, Dist. Nashik (M.S.)
(Affiliated to Savitribai Phule Pune University, Pune)



National Webinar On
“Current Trends in Electronics: IoT and its Applications”
Organized by Department of Electronic Science

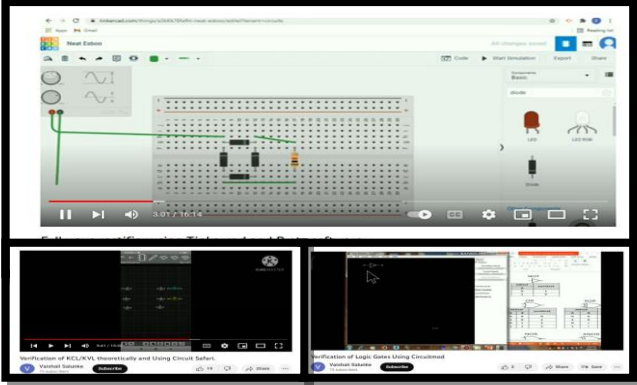
Certificate of Participation

This is to certify that..... of has participated in the national level webinar on “Current Trends in Electronics : IoT and its Application” organized by the Department of Electronic Science, held on 30 Sept 2020. His / Her active participation in the webinar is highly appreciated.

Dr. Mrs. S.C. Kulkarni
Coordinator

Dr. D.F. Shirude
Principal

Certificate

Activity No.	02 : Online Simulation software training (Tinkercad Autodesk, Proto, Circuit mod, Proteus, Circuit Safari)
Aim	Online Simulation software training (Tinkercad Autodesk, Proto, Circuit mod, Proteus, Circuit Safari)
Date of the event	26/05/2021 to 01/06/2021
Participants	UG students (40 students)
Objectives:	<p>The objective of Simulation laboratory is</p> <ul style="list-style-type: none"> ➤ To convey hands on experience in verification of circuit laws and theorems. ➤ Measurement of circuit parameters, study of circuit characteristics. ➤ It also gives practical exposure to the usage of different circuits with different conditions like variation in the components
Evidences of success:	Students go through simulation before doing actual circuit connection. It is easy to understand the characteristics of the circuit as well as to see the effect on the result by changing the components.
Context:	<p>The student is expected to gain the following skills:</p> <ul style="list-style-type: none"> • Familiar with the basic circuit components and know how to connect them to make an any electrical circuit • Know the basic electrical measurement instruments and understand how to use them to make different types of measurements • Able to verify the laws and principles of electrical circuits, understand the relationships and differences between theory and practice • Able to gain practical experience related to electrical circuits, stimulate more interest and motivation for further studies of electrical circuits • Be able to carefully and thoroughly document and analyze experimental work
Report:	<p>Simulation is a field that involves simulating a real-world issue or theoretical idea and watching the results in a synthetic or artificial setting, such a computer. In the subject of electronic science application, simulation is crucial because it allows electronic science students to validate their theories, models, or both before using them to produce something practically.</p> <p>Students will become familiar with these simulation software tools so they can use them to solve their own problems and conduct research to help create or modify these software tools further.</p>
Photo Proof:	

**List of the
Participants:**

Sr. No.	Name of the Student	Sr. No.	Name of the Student
1	SAMIKSHA SAMADHAN AHIRE	21	DHANASHREE BALU PAWAR
2	KAMINI SHARAD BACHHAV	22	SHAILESH VALMIK PAWAR
3	AMOL GOKUL KOTE	23	RAJASHRI GOKUL SAGAR
4	MAYURI BHARAT BACHHAV	24	SWAPNIL BHAUSAHEB SAGAR
5	NIRAJ VIJAY BHAMARE	25	NIKITA PRAKASH SAWANT
6	RUPESH PANDIT BHOYE	26	GAURAV VIJAY SAWANT
7	HIMANI SOPAN BORSE	27	SNEHAL NEMICHAND SHELAR
8	KALYANI PRABHAKAR BORSE	28	VAIBHAV SHIRISH SHERMALE
9	SHITAL BHAUSAHEB DAITKAR	29	MRUNALI GORAKH SHEWALE
10	CHETANA SAMADHAN DEORE	30	PRATIKSHA SHANKAR SHEWALE
11	SAYALI NANA DEORE	31	KARAN RAJENDRA SHINDE
12	SHUBHAM ARUNRAO HIRAY	32	PRAMOD SHARAD SONAWANE
13	BHAGYASHRI CHANDRAKANT KADNOR	33	RUTUJA SANJAY SURYAWANSHI
14	PRIYANKA SANJAY KAPASE	34	SANKET SUDHAKAR THAKUR
15	PRANITA SUBHASH KHAIRNAR	35	JAYASHRI MUKUND VETAL
16	MRUNALI PRASHANT MALPURE	36	NANDINI GANESH WADGE
17	PRAMOD RAVINDRA MHASADE	37	YASH VINAYAK WAGH
18	LALIT BAPU MORE	38	VISHAL VILAS WAGH
19	PRERNA RAVINDRA PATIL	39	LEENA SAMADHAN YALIJ
20	RUTIK RATILAL PAWAR	40	PATIL AVISHKAR SHASHIKANT