



Aldel Education Trust's
St. John College of Engineering and Management, Palghar

(A Christian Religious Minority Institution)

Approved by AICTE and DTE, Affiliated to University of Mumbai/MSBTE
St. John Technical Campus, Vevoor, Manor Road, Palghar (E), Dist. Palghar, Maharashtra-401404

NAAC Accredited with Grade 'A+'



Seminars/conferences/workshops conducted by the institution during the year 23-24

INDEX

Sr.No.	Content
1	7 Days Workshop on "PCB Designing, CCTV Installation and IoT with Application"
2	Expert talk on "IoT, Robotics and Drones physics Expert talk"
3	Expert talk on "Hardware That Drives Innovation"
4	Expert Talk on "IoT in Health Care"
5	Expert Talk on "Computer Networks"
6	Expert Talk on "Exploring FPGA Design with Xilinx Software"



Workshop Proposal

TITLE : Electrifying IoT : A Hands-on workshop in Electronic Circuitry

DATE: 22nd Jan to 31st Jan 2024

VENUE: 2nd Floor, Analog Lab and SSL Lab, SJCEM, Palghar

Resource Persons:

CCTV Installation & Maintenance : Mr. Kaivalya Raut

IoT & Applications: Mr. Vishal Saroj

Workshop Organizer: Department of EXTC/ECS Engineering is organizing workshop under ASSET, SJCEM .

Events in-charge: Mr. Sachin Sase , Mrs. Oniza Shaikh, Mr. Sandip patil, Mrs. Meenal kate

Targeted Students: SE EXTC/ECS

Registration Fees: 50 Rs. Per student, *Expected participants 50*

Objectives:

The main objectives behind the workshop are:

- To design PCB in software
- To have practical knowledge of fabrication of PCB
- To make design and prototyping by self
- To enhance practical knowledge of CCTV installation
- To aware about IoT and get hands-on arduino board

Description:

A 7-days workshop on "PCB Designing, CCTV installation and IoT with application" is schedule to enhance practical skills of student.PCB (Printed Circuit Board) designing is an integral part of each electronics product. Intention of the workshop is to give students a glimpse about PCB designing process and steps and methods followed during the PCB Designing and familiar with software required for simulation and making PCB layout. This workshop will give students the knowledge about PCB Design with the motive to help the students to build not only academic projects but also to throw focus on the industrial opportunities present in this sector. Basically, this program is designed to make students capable to design their own projects PCB up to industrial grade.

CCTV course offers in-depth knowledge and practical training on the principles, technologies and best practices related to video surveillance systems. Students can learn about CCTV camera types, installation techniques, wiring, networking, video analytics and troubleshooting.

Internet of Things (IoT) refers to the network of interconnected devices, embedded with sensors and communication technologies, enabling them to collect and exchange data. This interconnected system allows for seamless communication and automation, enhancing efficiency and functionality in various domains, such as smart homes, healthcare, agriculture, and industry.



Approved by
Principal
18/11



Vishal Saroj
Principal

St. John College of Engg. & Mgmt
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 HOD
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Workshop Contents:

- PCB designing basics
- PCB Design Software Installation
- Introduction to the software required for PCB designing
- Understanding Board Layouts & Tools
- Etching process
- Soldering of components on PCB
- Dos and Don'ts while designing PCB
- Interactive QNA
- CCTV installation
- IoT and Applications

Learning Outcome:

- Students will be able to learn and use software required for PCB designing
- Students will be able to know the steps followed during PCB designing
- Students will get practical exposure of IoT
- Students will be able to know about the opportunities in the CCTV installation

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manoj
spatil
 Workshop Coordinators

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Workshop Schedule

Day 1: CCTV Installation

- Camera selection
- DVR/NVR setup
- Camera mounting
- Power connection
- Network setup
- Configuration
- Remote access

Day 2: Introduction to PCB designing concepts

- What is PCB
- Difference between PWB and PCB
- Types of PCBs-Single sided, Double sided, Multilayer
- PCB materials
- Steps involved in PCB fabrication
- Types of components
- Circuit introduction
- Mounting circuit on breadboard and their testing
- Circuit simulation using Proteus software
- Making PCB Layout using Express PCB software

Day 3: PCB Fabrication Process

- Printing the Design
- Transferring layout to PCB
- Etching
- Drilling
- Components mounting
- Soldering
- PCB hardware testing

Day 4: Introduction to IoT

- Different Types of Sensor
- Testing using Arduino Board

Day 5: Student presentations

Day 6: MCQ based Quiz

Day 7: Certificate distribution

K. Shah

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Hardware and Software Requirement

Software Requirement

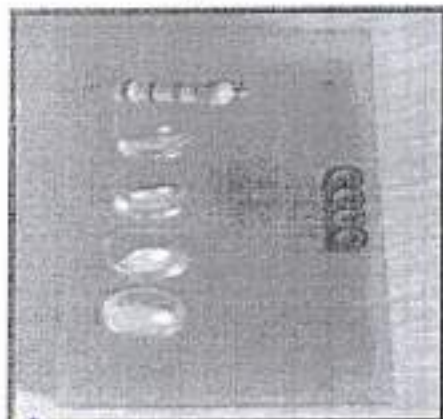
Sr. No.	Name Of Software	Description
1	Proteus	This software is primarily used to create schematics and electronic prints for manufacturing PCB. Using this software we can construct and simulate different electronic circuits.
2	Express PCB	This software is used to assemble the components of basic design and we can quickly change the design into schematics drawing and then into the PCB design layout.

Hardware Requirement

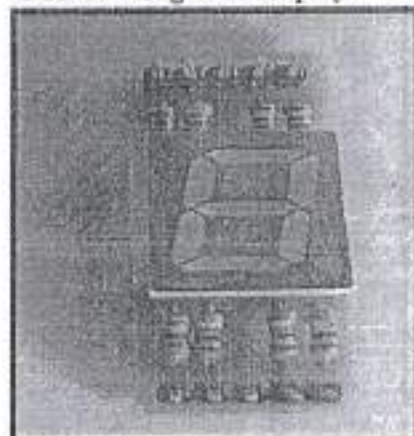
- Circuit: 1. LED kit for Logic Gates
2. BCD to 7-Segment Display

Sr. No.	Components	Quantity
1	Resistors(330 ohms)	50
2	Resistors(3.3 Kohm)	50
3	LEDs	50
4	7-Segment Display(Common Anode)	5
5	Soldering Gun and iron with desoldering pump	5
6	Copper Clad	1 Sheet
7	Etching Solution-FeCl3	1 packet(Powder)
8	Photopapers	1 Packet
9	Electric Iron	2
10	Cutter	2
11	Drill machine	1
12	Drill bit(0.5 & 0.8 mm)	2

LED kit for Logic Gates



BCD to 7-Segment Display



Kishali

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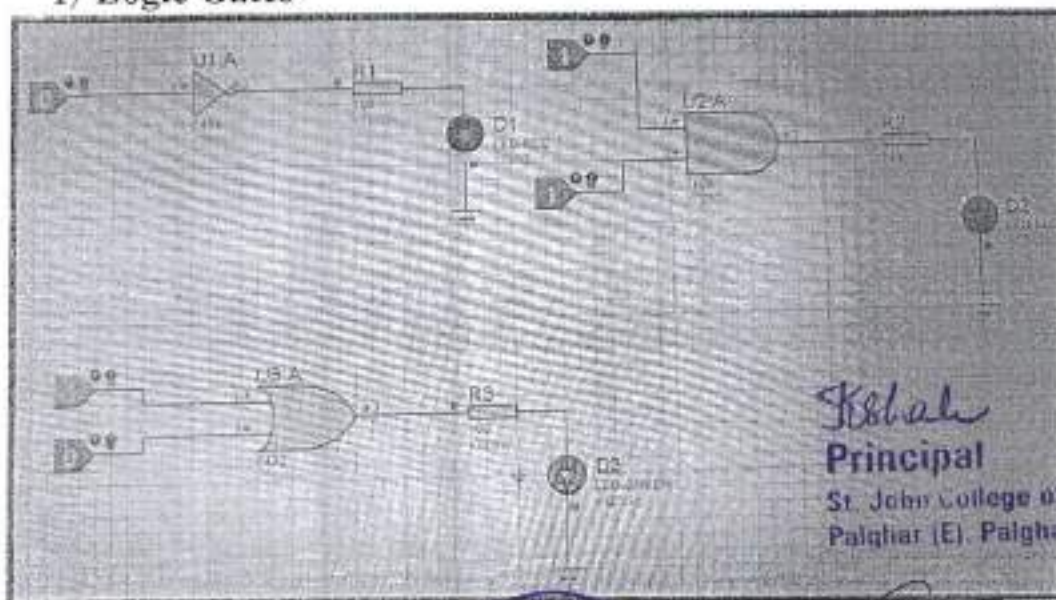
Guidelines for PCB layout Design

1. Create your board frame on a 0.05" grid. Make the lower left corner start at 0,0.
2. Usually the board frame is rectangular. For specific reasons you could also do other types of shapes such as polygons.
3. Stick parts on a 0.05" grid. You should not break this rule unless you have a very good reason.
4. Any LED should be labeled with its purpose (power, status, D4, Lock, etc).
5. Idem for connectors: e.g Vin, Port1, Batt, 5V, etc.
6. Idem for pins where applicable: e.g TX, Power, +, -, Charge, etc.
7. Idem for switches and switch states: eg. On, Off, USB etc.
8. When applicable, it is better to avoid having vias go through the silkscreen when adding labels.
9. Group components together. For example the resistors surrounding a transistor in your schematic will also be grouped together on the PCB.
10. Avoid 90 degree corners. Straight lines with 45 degree corners are preferable.
11. Use a GND symbol for all the GND connections.
12. Use appropriate power symbols for All VCC, 5V, 3.3V etc.

Soldering Tips

- Only work in an environment that is well lit and ventilated.
- Always unplug the soldering iron when it is unattended.
- Be careful to keep clothes, hair, power cables and skin etc away from the soldering iron tip and the metal shaft.
- Be careful when returning the iron to its stand, make sure it is secure and does not falloff.
- Always handle the iron by the plastic handle.
- Never touch the element or tip of the soldering iron.
- Always return the soldering iron to its stand when not in use. Never put it down on your workbench.

1) Logic Gates

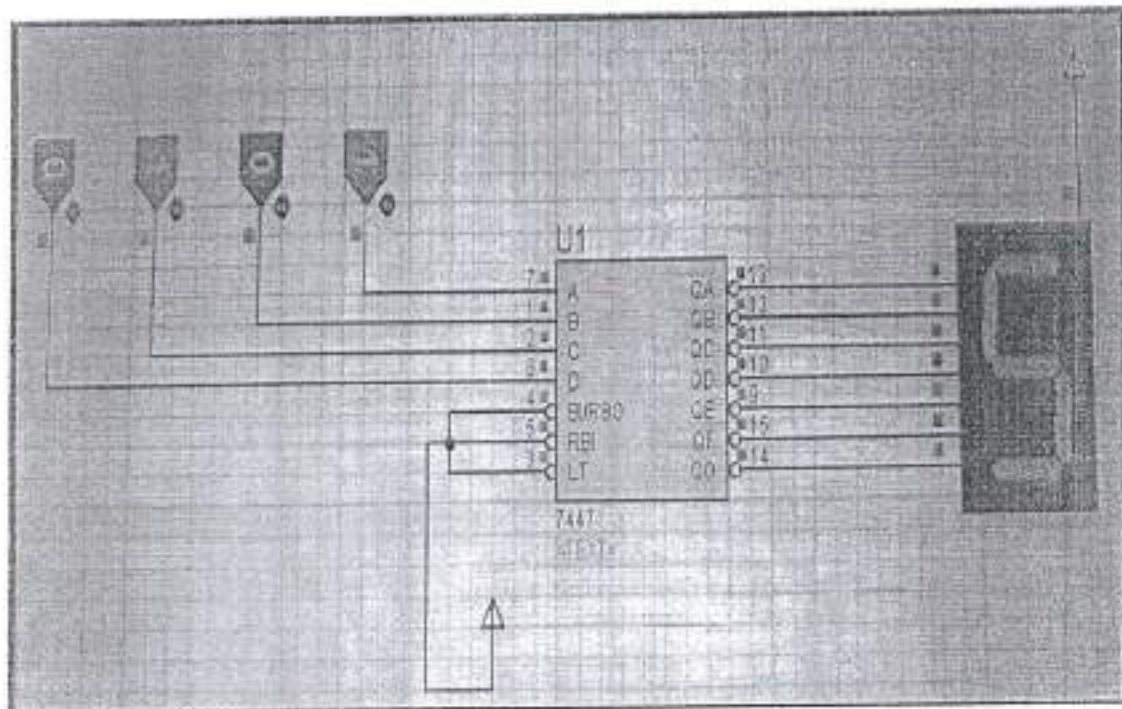


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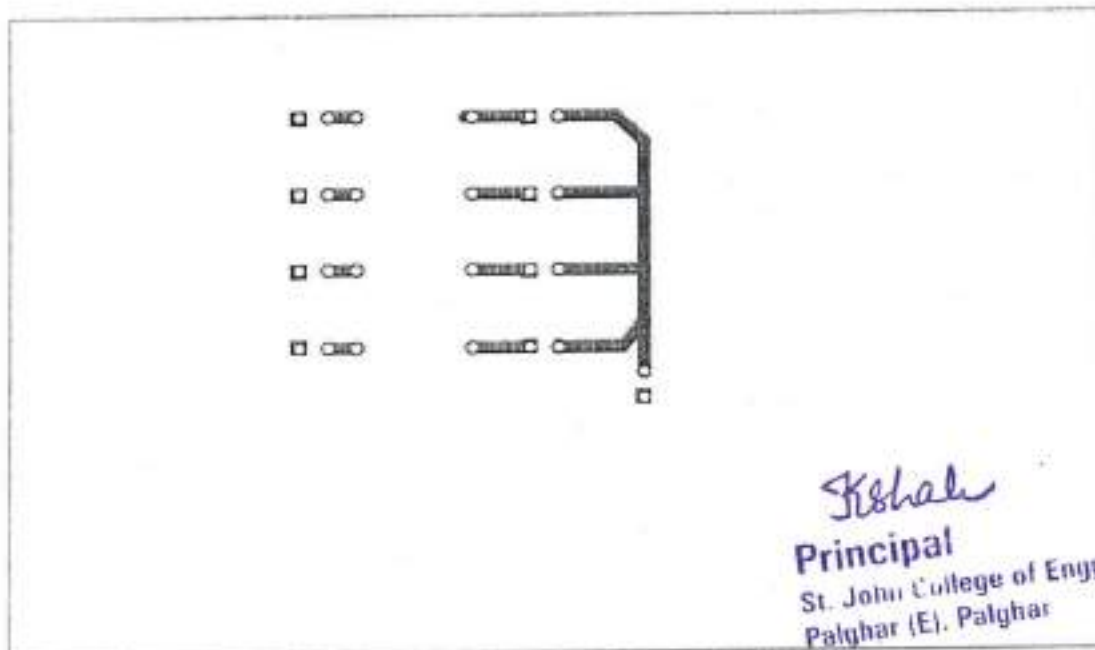
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2) BCD to 7-Segment Decoder



3) Led Kit Layout



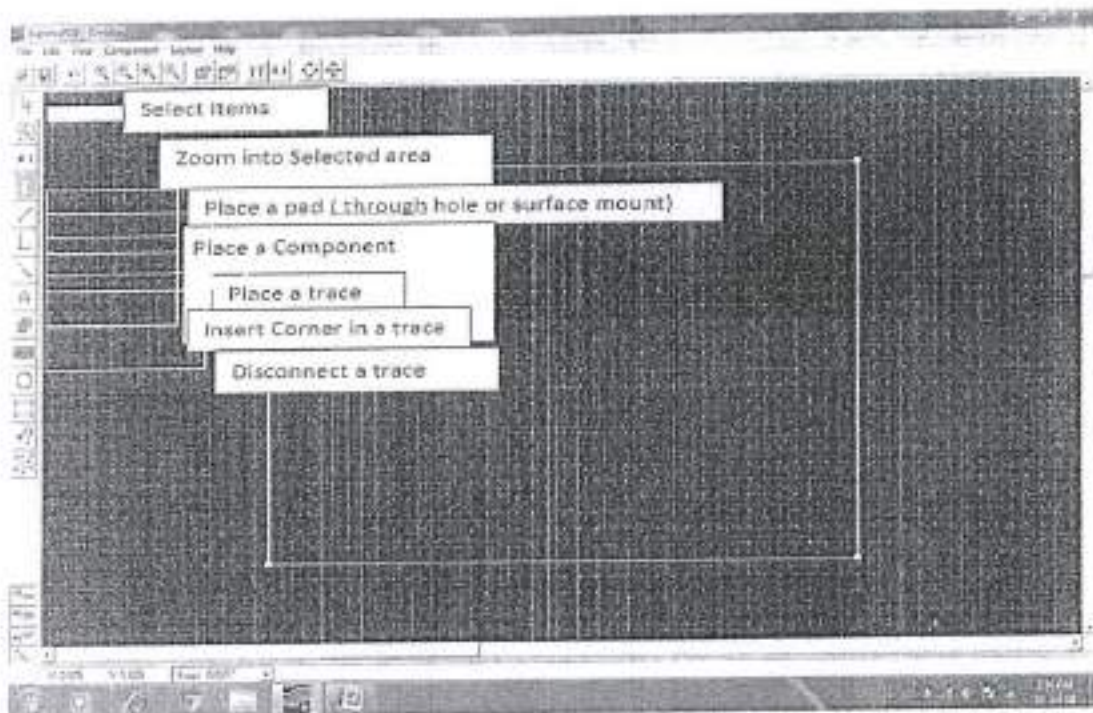
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Introduction to ExpressPCB



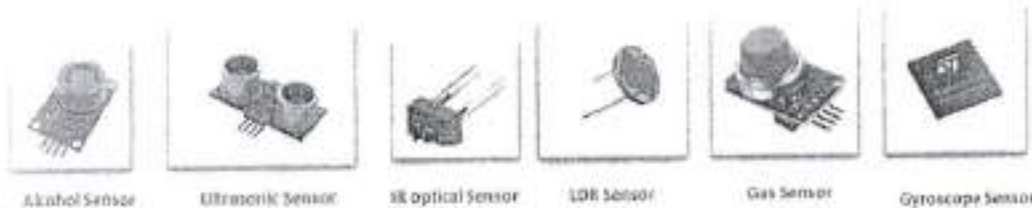
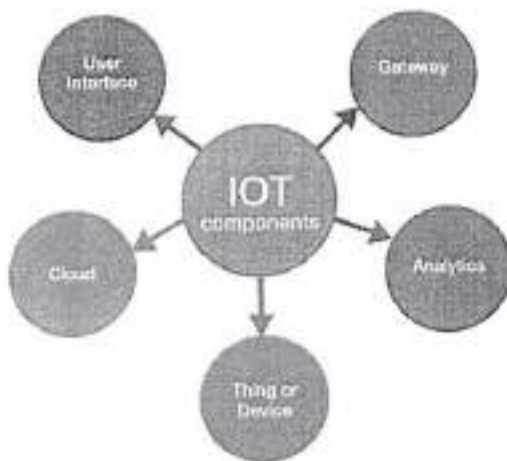

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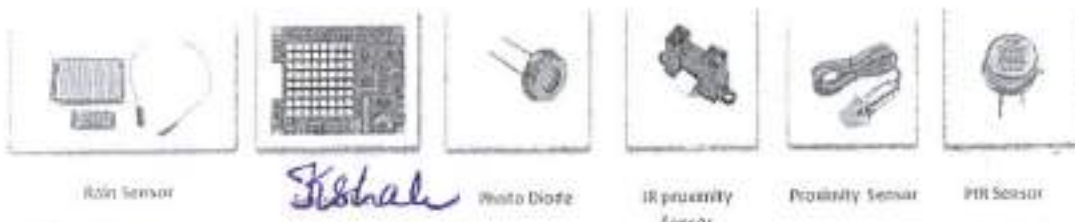
Internet of Things

The Internet of Things (IoT) describes the network of physical objects—“things”—that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet.

Components of IoT



Different types of Sensors



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Workshop Report

TITLE: Electrifying IoT: A Hands-on workshop in Electronic Circuitry

DATE: 23rd Jan to 1st Feb 2024

VENUE: 2nd Floor, Analog Lab and SSL Lab, SJCEM, Palghar

Resource Persons:

CCTV Installation & Maintenance: Mr. Kaivalya Raut

IoT & Applications: Mr. Vishal Saroj

Workshop Organizer: Department of EXTC/ECS Engineering under ASSET, SJCEM.

Workshop Coordinators: Mr. Sachin Sase, Mr. Sandip Patil, Mrs. Oniza Shaikh, Mrs. Meenal Kate

Targeted Students: SE EXTC/ECS

Registration Fees: 50 Rs. Per student

Objectives:

The main objectives behind the workshop were,

- To design PCB in software.
- To have practical knowledge of fabrication of PCB.
- To make design and prototyping byself.
- To enhance practical knowledge of CCTV installation.
- To aware about IoT and get hands- on arduino board.

Description:

A 7-days workshop on "Electrifying IoT: A Hands-on workshop in Electronic Circuitry" was scheduled to enhance practical skills of student. PCB (Printed Circuit Board) designing is an integral part of each electronics product. Intention of the workshop was to give students a glimpse about PCB designing process and steps and methods followed during the PCB Designing and familiar with software required for simulation and making PCB layout. This workshop gave students the knowledge about PCB Design with the motive to help the students to build not only academic projects but also to throw focus on the industrial opportunities present in this sector. Basically, this program was designed to make students capable to design their own projects PCB up to industrial grade.

CCTV course offered in-depth knowledge and practical training on the principles, technologies and best practices related to video surveillance systems. Students were able to learn about CCTV camera types, installation techniques, wiring, networking, video analytics and troubleshooting. Internet of Things (IoT) referred to the network of interconnected devices, embedded with sensors and communication technologies, enabling them to collect and exchange data. This interconnected system allowed for seamless communication and automation, enhancing efficiency and functionality in various domains, such as smart homes, healthcare, agriculture, and industry.



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Workshop Contents were:

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- Introduction to the software required for PCB designing.
- Understanding Board Layouts & Tools.
- Etching process.
- Soldering of components on PCB.
- Dos and Don'ts while designing PCB.
- CCTV installation
- IoT and Applications.
- Arduino hands on.

Learning Outcomes:

- Students were able to learn and use software required for PCB designing.
- Students were able to know the steps followed during PCB designing.
- Students got practical exposure of IoT.
- Students were able to know about the opportunities in the CCTV installation.

K. K. Kulkarni

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Branch : EXCS/EXTC

Sem : 4

workshop on, "Electrifying IoT: A Hands-On Workshop in Electronic Circuitry" on 23rd January to 01st february 2024.

Roll No	Student Name	Day 1(23/01/2024)	Day 2(23/01/2024)	Day 3(23/01/2024)	Day 4(23/01/2024)	Day 5(23/01/2024)	Day 6(23/01/2024)	Day 7(23/01/2024)
1	Adhikari Seham Sanjay							
2	Bai Ayush Akshaya Prapiti	Ayush Suyash	Ayush Suyash	Ayush Suyash	Ayush Suyash	Ayush Suyash	Ayush Suyash	
3	Bhanu Suyash Vijay Ranjma							
4	Bhool Dhanashree Ajoy Prati							
5	Bhaskar Niraj Sanosh Jaymala							
6	Chauthari Harsh Suryakant							
7	Chaudhari Sanakar Sanjay							
8	Das Pratikhar Pabir Nirmala							
9	Davane Yashraj Nagesh							
10	Dhanshaker Lamuch Ganesh							
11	Gajbhaye Ankit Sanjay							
12	Gawandi Manz Ayaz Fahmida							
13	Gowda Ashray Parmeshwar							
14	Gupta Kharshi Abhinav							
15	Iha Prayush Sanjay Anil							
16	Kale Deep Manish Sachal							
17	Khodke Tushar Eknath Mukta							
18	Lenka Sunam Suresh							
19	Ladania Arzam Imtiaz Farin							
20	Mahara Prakash Harshadhar							
21	Mahar Most Utam Umnila							
22	Mangale Souhin Anur Sangita							
23	Mohar Niyati Jayesh Roshni							
24	Molhan Ashutosh							
25	Mohar Kamal Arvind Anil Da							
26	Mohar Bhadrach Pravin							

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21	Georgina Chetan Vellam	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
24	Nagavakar Swyam Sanjay	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
29	Neve Yash Salish Mamtha	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
30	Prada Anil Kishore Santosh	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
31	Prathale Yashraj	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
32	Pratik Sanjeev Sanjay Pravin	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
33	Prati Dhruvika Samir Sripriya	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
34	Prati Handik Bhai Bhavika	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
35	Prati Hirathik Jain Janhavi	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
36	Prati Mohit Tukaram Tejasvi	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
37	Prati Piyush Hareeshwar Lalita	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
38	Prati Pranjali Kamalini Sangita	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
39	Prati Tejal Dinesh Darshana	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
40	Pratigale Karunya Prachant	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
41	Pratijay Omkar Sushashiv	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
42	Rama Vedant Ajay Kachasa	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
43	Ravi Anys Rupesh Sarika	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
44	Ravi Harsh Nilesh Anjali	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
45	Roy Ashutosh Kamsar	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
46	Saikh Arman Rizer Tabassum	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
47	Shamini Ayush Shikharprasad	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
48	Shamini Rohit Saritosh	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
49	Shamini Utkarsh Anurag	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
50	Singh Aditi Anni Bandana	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
51	Singh Prachi Divyashree Shivani	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
52	Sivani Vajranta Sanjay	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
53	Vade Maanavi Saandani Asha	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
54	Vadkar Ashwarya Anshika	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
55	Vadkar Atharva Anshika	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
56	Verna Puniti Ajay Maya	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
57	Wade Shreyas Harshkumar	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
58	Yadav Rohit Danishkumar	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
59	Yashraj Sapre J. M. Lalita	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek



Khalid
Principal

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Palghar (E).

60	Dhawanik Vedant Sajith	Rohini	S.D	S.D	S.D	S-D	
61	Dixra Sureshkumar Trayanam	S. V.	S.D	S.D	S.D	S-D	
62	Dubey Ankit Ramesh	Ankit	S.D	S.D	S.D	S-D	
63	Gangthade Vidhat Shivaji		S.D	S.D	S.D	S-D	
64	Ghude Karanishk Vinod Vinay	Karanishk	S.D	S.D	S.D	S-D	
65	Kasari Sudhendu Suresh	Sudhendu	S.D	S.D	S.D	S-D	
66	Medra Prince Kanhaiyalal	Prince	S.D	S.D	S.D	S-D	
67	Patil Om Vinayak Rajalaxee	Om	S.D	S.D	S.D	S-D	
68	Patil Tejas Ashok Sunanda	Tejas	S.D	S.D	S.D	S-D	
69	Parohit Shreepad Narottam	Shreepad	S.D	S.D	S.D	S-D	
70	Shaikh Bismah Rehan	Bismah	S.D	S.D	S.D	S-D	
71	Sonant Hrishavardhan	Hrishavardhan	S.D	S.D	S.D	S-D	
72	Vasantli Karanishk Ravindra	Karanishk	S.D	S.D	S.D	S-D	

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 HOD



Kishali
 Principal
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 Palghar (E), Palghar



Date: 28/08/2023

To,
The Principal,
SJCEM, Palghar.
Subject: Permission to engage auditorium.

Respected Sir,

On behalf of Electronics & Telecommunication and Electronics and Computer Science Department, we, the undersigned request you to kindly allow for organizing the Expert talk on "IOT, ROBOTICS AND DRONE PHYSICS" scheduled at 10:00 AM to 01:00 PM on the 29/08/2023.

The expert invited for expert talk is **Mr. Mohit Agrawal and Ehshan Khan, Co-founder, Careernova Technologies.**

The speaker will be joining offline and the targeted audience are students:

- ❖ FE (All Branches), SE, TE, BE, (EXTC), SE (ECS), TE(IT), TE(MECH), BE(IT),
- ❖ Diploma(TY – COMP and MECH)

The venue is Engg Auditorium hence we request your kind permission to engage the auditorium for the event as given below.

Total required chairs are 360 including faculties and students, projector, sound system, projector controller, 2-Mic wireless.

Venue: Engineering Auditorium

Date: 29/08/ 2023.

Time 10:00 AM to 01:00 PM

No. of students: 360

Thanking you in anticipation, kindly do the needful.
with regards

Kishali
Principal
St. John College of Engg. & Mgmt
Palghar (E), Palghar

Faculty Co-ordinator

Mrs. Oniza Shaikh,

Mr. Sandip Patil *Sandip Patil*

P.A. Ghonge
Dr. P.A. Ghonge

H.O.D.

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G.V. Mulgund

Dr. G.V. Mulgund

Principal





Department of Electronics and Telecommunication Engineering (EXTC)

& Electronics and Computer Science Engineering (ECS)

A Report on "IoT, Robotics and Drones Physics Expert talk"

Date: 29th August, 2023

Time: 11 AM to 12 PM

Venue: Engineering Auditorium, SJECM, Palghar

Resource person: Mr. Mohit Agarwal, Mr. Ehsan Khan

Event Organiser: ECS & EXTC Engineering Department

Targeted students: SE, TE & BE EXTC Students, SE ECS, BE & TE IT, TE Mechanical, TY Diploma Computer & Mechanical students

Number of students participated: 170

Description:

An Expert talk on "IoT, Robotics and Drone Physics" was conducted on 29th August, 2023 by Mr. Mohit Agarwal Co-founder and head educator of Careernova technologies Pvt I.J.P, Mumbai. He holds a BE degree in Mechanical Engg from University of Mumbai. Along with Mr. Ehsan Khan currently a Director & CTO at Indobionics. He has expertise in Machine Learning Operations, Data structures, Numpy, Deep Learning, etc.

Session started with the importance of IoT, Robotics and Drone Physics and its application in industries and how these skills can be developed in students to get them job ready in this domain.

Mr. Ehsan Khan threw focus on Designing, Programming, the working of a Robot and its importance in Robotics domain and how to develop these skills.

He made the session very interactive by conducting small quizzes and by encouraging students in QNA session

He later talked on about the various types of robots based their vast uses and how important it is to have sharp skills to survive in a competition in today's world.

Later on Mr. Mohit Agarwal threw focus on Drone physics. He made this session more interactive and interesting by asking us various questions and how really a Drone is useful in our day to day life. He also spoke about the various job opportunities we can grab by building and developing our knowledge in this domain and industry.



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Learning Outcome:

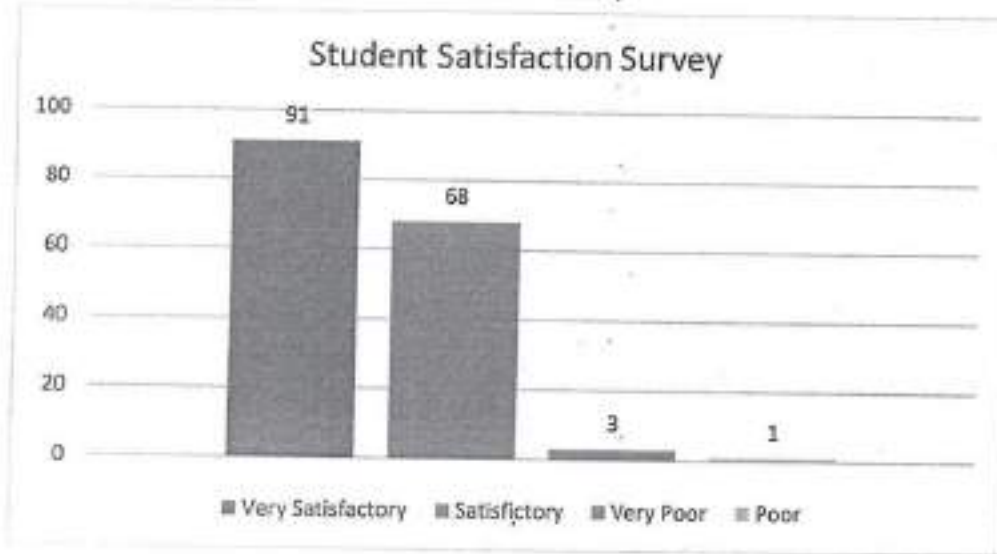
- Students got the knowledge about IoT, Robotics and Drone Physics.
- Students got the information about opportunities in industry in IoT and Robotics domain
- Students were enlightened about skill development to get them employable

Event Photos:



Kishal
Principal
St. John College of Engg. & Mgmt
Palghar (E), Palghar

Student Satisfaction Survey:



Mr. Mohit Agarwal

Mr. Ehsan Khan

Guest Speaker

Mrs. Oniza Shaikh

Faculty Co-ordinator

Mr. Sandeep Patil

Faculty Co-ordinator

Dr. Pandharinath Ghonge

HOD, EXTC Engineering



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Date:05/02/2024

Notice

The department of EXTC & ECS Engineering is going to organise the Expert Talk on "**Hardware That Drives Innovation**" was conducted on 7 February, 2024 by Mr. Prathamesh Patil, working in AMD INDIA PVT LTD, BANGALORE.

The speaker will be joining offline and Targeted audience are second year students of EXTC & ECS branch.

Venue: Class room 207(second floor)

Date: 07/02/2024

Time: 10:30am to 1:30pm

Faculty Co-ordinator

HOD of EXTC/ECS



Principal

St. John College of Engg. & Mgmt
Palghar (E), Palghar



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Recognised u/s 2(F) of UOE Act 1950

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A Report on "Hardware That Drives Innovation Expert Talk"

Date : 17th February 2024

Time : 10:00am to 12:00am

Venue : Classroom A-207, Second Floor

Resource person: Mr. Prathamesh Patil

Event Organiser : EXTC Engineering Department

Targeted students : SE ECS , SE EXTC, and TE EXTC Engineering Students

Description:

An Expert talk on "Hardware That Drives Innovation" was conducted on 17th February 2024 by Mr Prathamesh Patil , he is a Level 2 Technical Support Engineer, AMDINDIA PVT. LTD., Bangalore .

Session Started with the importance of Hardware and their Innovations and its application in industries and how these skills can be developed in students to get them job ready in this domain .

Mr Prathamesh threw focus on hardware like computer and its part like CPU, he explain every part of it that makes the session very interactive. He also explained its importance in hardware machines and how to develop these skills.

He made the session interactive by asking question to students and making the environment friendly. He also shared his personal experience that made the session more interesting. He later talk on importance of communication skills and how to be confident to survive in the competitive world to achieve your goals.

Learning Outcome :

- Students got the knowledge about hardware and their innovations in practical life.
- Students got the information about opportunities in industry in hardware machine and its domain.
- Students were enlightened about skill development to get them employable.



Sibhal
Principal

St. John College of Engg. & Mgmt
Palghar (E), Palghar

Event Photos:



Parul Jha

Vishakha Rane

D.P. A Ghonge

Faculty Co-ordinators : Mrs. Parul Jha & Mrs. Vishakha Rane

Student Co-ordinators : ECS and EXTC Department

HOD



Kishal

Principal

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**Department of Electronics & Telecommunication /
Electronics and Computer Science Engineering**

Academic Year : 2023-24

Expert Talk on

Hardware That Drives Innovation

Attendance Sheet

Roll No	Student Name	Signature
1	Ambhire Sarvesh Anil Latika	Sarvesh.A.
2	Dahiwale Vedanti Satish Anita	Vedanti
3	Deora Sureshkumar Toyaram Kamla	SD
4	Dubey Ankit Ramesh Sandhya	Ankit
5	Gangthade Vishal Shivaji Venubal	VG
6	Ghude Kaustubh Vinod Vidya	KGhude
7	Kaneri Sudhanshu Santosh Sanjana	Sudhanshu
8	Mishra Prince Kanhaiyalal Anamika	PMishra
9	Patil Om Vinayak Rajashree	Om Vinayak
10	Patil Tejas Ashok Sunanda	Tejas
11	Purohit Shreepad Narottam Shanti	SPurohit
12	Shaikh Bismah Rehan Ahmed Lubna	BShaikh
13	Sonone Harshawardhan Bhaskar Sujata	H.Sonone
14	Vanmali Kaustubh Ravindra	VK



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Palghar (E), Palghar



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Department of Electronics & Telecommunication /
Electronics and Computer Science Engineering
Academic Year : 2023-24
Expert Talk on
Hardware That Drives Innovation
Attendance Sheet

Roll No	Student Name	Signature
1	Adhikari Soham Sanjay Sanjivani	
2	Bal Ayush Akshaya Puspita	
3	Banate Suyash Vijay Ranjana	
4	Bhoir Dhanashree Ajay Priti	
5	Bhurki Niraj Santosh Jaymala	
6	Chaudhari Harsh Suryakant Nayana	
7	Chaudhari Sanskar Sanjay Yogita	
8	Das Prakhar Prabir Nirmala	
9	Gajbhiye Ankit Sanjay Mangala	
10	Gawandi Moiz Ayaz Fahmida	
11	Gowda Ashray Parmeshwar Usha	
12	Kale Deep Manish Snehal	
13	Lenka Suman Suresh Madhumita	
14	Lulania Ayaan Imtiyaz Farin	
15	Mangela Srushti Arun Sangita	
16	Meher Niyati Jayesh Rashmi	
17	Mishra Ashutosh Ayodhyanath Sunita	
18	Mohite Kautuk Arvind Ankita	
19	More Mrunmay Pramod Pooja	
20	Nagavkar Swayam Sanjay Shrutika	
21	Neve Yash Satish Manisha	
22	Patil Dhruvika Samir Supriya	
23	Patil Hardik Bhai Bhavika	
24	Patil Hrithik Jatin Janhavi	
25	Patil Mohit Tukaram Tejaswi	
26	Patil Piyush Hareshwar Lalita	
28	Rana Vedant Ajay Rachana	
29	Raut Arya Rupesh Sarika	



Kishal
Principal

St. John College of Engg. & Mgmt
Palghar (E), Palghar

30	Raut Harsh Nilesh Anjali	<u>Raut</u>
31	Ray Abhishek Kumar Shivbalak Neelamdevi	<u>Abhishek</u>
32	Shaikh Arman Riyaz Tabassum	← Absent →
33	Sharma Ayush Shitlaprasad Manju	<u>Sharma</u>
34	Sharma Rohit Santosh Mahalaxmi	<u>Rohit</u>
35	Sharma Utkarsh Anurag Chhaya	← Absent →
36	Singh Aditi Amit Bandana	<u>Singh</u>
37	Singh Prachi Dharendra Shweta	<u>Prachi</u>
38	Vade Manasvi Satendra Asha	<u>Vade</u>
39	Varekar Aishwarya Ankush	<u>Aishwarya</u>
40	Varekar Atharva Ankush Akanksha	<u>Atharva</u>
41	Verma Punit Ajay Maya	<u>Verma</u>
42	Wade Shreyas Hareshwar Harshada	<u>Wade</u>
43	Yadav Rohit Dayashankar Madhuri	<u>Rohit</u>
44	Davane Yashneil Nagesh Sushma	<u>Yashneil</u>
45	Dhanmeher Labhesh Ganesh Swati	<u>Labhesh</u>
46	Gupta Khushi Abhimanyu Prasad Rita	<u>Gupta</u>
47	Khodbe Tushar Eknath Mukta	<u>Khodbe</u>
48	Mahara Prakash Narbahadur Dharmadevi	<u>Prakash</u>
49	Malkar Meet Uttam Urmila	<u>Malkar</u>
50	Nagargoje Chetan Vishnu Manisha	<u>Nagargoje</u>
51	Panda Amit Kishore Santoshi	<u>Panda</u>
52	Panhale Yashashree Amar Amruta	<u>Panhale</u>
53	Pathak Sanjeev Sanjay Poonam	<u>Pathak</u>
54	Patil Pranjal Kantilal Sangita	<u>Patil</u>
55	Patil Tejal Dinesh Darshana	<u>Patil</u>
56	Poojary Omkar Sadashiv Poornima	<u>Poojary</u>
57	Swami Vaishnav Sanjay Minakshi	<u>Swami</u>

Faculty In-charge
Faculty In-charge

HOD
HOD



Sishale

Principal

St. John College of Engg. & Mgmt
Palghar (E), Palghar



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DTE Code : 3218 AICTE Permanent ID : 1-4790201



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Date: 20/02/2024

To,
The Principal,
SJCEM, Palghar

Subject: Permission to hold an expert talk on, "IOT IN HEALTHCARE" scheduled at 1:30 PM to 2:30 PM on 05/03/2024.

Respected Sir,

The department of Electronics & Telecommunication and Electronics and Computer Science is going to organize an Expert talk on "IOT IN HEALTHCARE" scheduled at 1:30 PM to 2:30 PM on 05/03/2024. The expert talk will be given by **Er. Manoj Kavedia**, a renowned expert in the field of IOT and **Founder of Kaizen Future Tech.** in offline mode for **SE ECS, SE EXTC, TE EXTC and BE MECH** students. The remuneration of Expert is Rs. 1500 / -

We believe that this expert talk will be a valuable learning experience for our students. We request you to consider the same.

Venue: MMS HALL
Date: 05/03/ 2024
Time 1:30 PM to 02:30 PM
No. of students: 150

Kshale
Principal

St. John College of Engg. & Mgmt
Palghar (E), Palghar

permitted
Amal

Sincerely,

Spatil
Mr. Sandip Patil, Mr. Sachin Sase
Faculty Coordinators



HOD
Dept of Electronics & Telecommunication
St. John College of Engineering
& Management Palghar 401404.

Dr. P.A. Ghonge
Dr. P.A. Ghonge
H.O.D.
EXTC, ECS



St. John College of Engineering and Management

(A Christian Religious Minority Institution)

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DTE Code : 3218 AICTE Permanent ID : 1-4790201



NAAC Accredited with Grade 'A+' Three Programs NBA Accredited

Notice

Date: 21/02/2024

The Department of Electronics & Telecommunication and Electronics and Computer Science is going to organize an Expert talk on "IOT IN HEALTHCARE" scheduled at 1:30 PM to 02:30 PM on the 05/03/2024.

The expert invited for expert talk is **Er. Manoj Kavedia, Founder, Kaizen Future Tech.**

The speaker will be joining offline and the targeted audience are students of:

- ❖ SE EXTC, SE ECS, TE EXTC and BE MECH

Venue: MMS HALL

Date: 05/03/ 2024.

Time 1:30 PM to 02:30 PM

No. of students: 150

Keshal
Principal

St. John College of Engg. & Mgmt
Palghar (E). Palghar

Faculty Co-ordinators

Mr. Sandip Patil, *Sandip Patil*

Mr. Sachin Sase, *Sachin Sase*

Dr. P.A. Ghonge

Dr. P.A. Ghonge

HOD

EXTC, ECS

Dr. G.V. Mulgund

Principal

HOD
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Dept of Electronics & Telecommunication
St. John College of Engineering
& Management Palghar 401404





A Report on "IoT in Healthcare"

Date: 05th March, 2024

Time: 1.30 PM to 2.30 PM

Venue: MMS HALL, SJECM, Palghar

Resource person: Er. Manoj Kavedia, Founder Kaizen Future Tech.

Event Organiser: EXTC and ECS Engineering Department

Targeted students: SE, TE EXTC Students, SE ECS, BE MECH students

Number of students participated: 150

Description:

An Expert talk on "IoT in Healthcare" was conducted on 05th March 2024 by Er. Manoj Kavedia. He is founder of Kaizen Future Tech. Session started with what is IoT, importance of IoT and its application in industries and how these skills can be developed in students to get them job ready in this domain. Er. Manoj threw focus on Arduino, Raspberry pi and ESP 32 and its importance in IoT domain and how to develop these skills. He made the session very interactive by conducting small quizzes and by encouraging students in QNA session. He later talked on Industrial Revolution 4.0 and how important it is to have sharp skills to survive in a competition in today's world.

Learning Outcome:

- Students got the knowledge about IoT, Arduino, Raspberry pi and ESP 32.
- Students got the information about opportunities in industry in IoT and Robotics domain.
- Students were enlightened about skill development to get them employable.



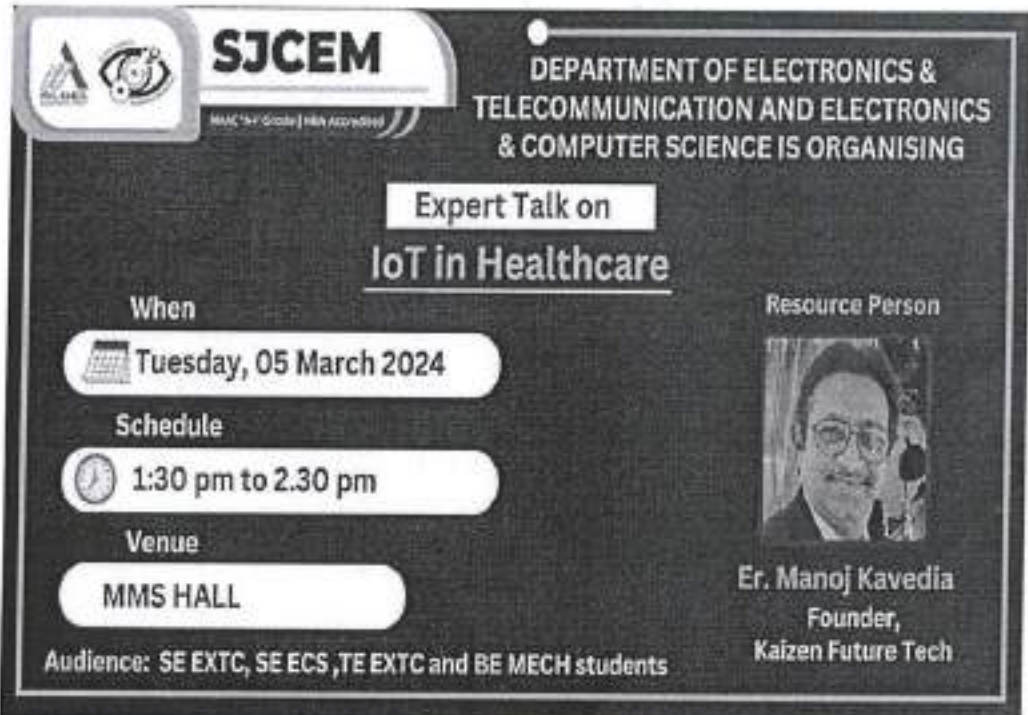
Kibhal

Principal

St. John College of Engg. & Mgmt
Palghar (E), Palghar



Event Photos:




SJCEM
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION AND ELECTRONICS & COMPUTER SCIENCE IS ORGANISING

Expert Talk on
IoT in Healthcare

When
Tuesday, 05 March 2024

Schedule
1:30 pm to 2.30 pm

Venue
MMS HALL

Resource Person

Er. Manoj Kavedia
Founder,
Kaizen Future Tech

Audience: SE EXTC, SE ECS, TE EXTC and BE MECH students



Kishal

Principal

St. John College of Enng. & Mgmt
Palghar (E), Palghar

Manojkavedia
Er. Manoj Kavdia

Guest Speaker

spatil

Mr. Sandip Patil
Faculty Co-ordinator

sms

Mr. Sachin Sase
Faculty Co-ordinator

P. A. Ghonge

Dr. P. A. Ghonge
HOD,
EXTC and ECS

Aidel Education Trust's

St. John College of Engineering and Management, Palghar

Branch : EXTC

Year :
2nd

Div : A

Session on : ~~Healthcare~~ ^{Healthcare} IOT in ~~Healthcare~~

Speaker: Er. Manoj Kavedia

Roll No	PID	Student Name	Signature
1	EU2223005	Ambhire Sarvesh Anil Latika	
2	EU2223002	Dahiwale Vedanti Satish Anita	
3	EU2223006	Deora Sureshkumar Toyaram Kamla	
4	EU1223002	Dubey Ankit Ramesh Sandhya	
5	EU2223008	Gangthade Vishal Shivaji Venubai	
6	FU2223001	Ghude Kaustubh Vinod Vidya	
7	EU1223004	Kaneri Sudhanshu Santosh Sanjana	
8	EU1223005	Mishra Prince Kanhaiyalal Anamika	
9	EU1223010	Patil Om Vinayak Rajashree	
10	EU2223004	Patil Tejas Ashok Sunanda	
11	EU2223003	Purohit Shreepad Narottam Shanti	
12	EU1223012	Shaikh Bismah Rehan Ahmed Lubna	
13	EU2223007	Sonone Harshawardhan Bhaskar Sujata	
14	EU1223001	Vanmali Kaustubh Ravindra	



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& Management Palghar 401404

Principal

St. John College of Engg. & Mgmt
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Aldel Education Trust's

St. John College of Engineering and Management, Palghar

Branch : EXCS

Year :
2nd

Div : A

Session on: IOT in Healthcare

Speaker: Er. Manoj Kavedia.

Roll No	PID	Student Name	Signature
1	EU2227003	Adhikari Soham Sanjay Sanjivani	
2	EU1227017	Bal Ayush Akshaya Puspita	
3	EU1227029	Banate Suyash Vijay Ranjana	
4	EU2227016	Bhoir Dhanashree Ajay Priti	
5	EU1227014	Bhurki Niraj Santosh Jaymala	
6	EU2227011	Chaudhari Harsh Suryakant Nayana	
7	EU2227008	Chaudhari Sanskar Sanjay Yogita	
8	EU1227006	Das Prakhar Prabir Nirmala	
9	EU1227033	Davane Yashnell Nagesh Sushma	
10	EU1227013	Dhanmeher Labhesh Ganesh Swati	
11	EU2227022	Gajbhiye Ankit Sanjay Mangala	
12	EU1227003	Gawandi Molz Ayaz Fahmida	
13	EU2227001	Gowda Ashray Parmeshwar Usha	
14	EU1227026	Gupta Khushi Abhimanyu Prasad Rita	
16	EU2227005	Kale Deep Manish Snehal	
17	EU2227018	Khodbe Tushar Eknath Mukta	
18	EU2227002	Lenka Suman Suresh Madhumita	
19	EU2227007	Lulania Ayaan Imtiyaz Farin	
20	EU1227005	Mahara Prakash Narbahadur Dharmadevi	
21	EU2227013	Malkar Meet Uttam Urmila	
22	EU2227004	Mangela Srushti Arun Sangita	
23	EU1227002	Meher Niyati Jayesh Rashmi	
24	EU1227043	Mishra Ashutosh Ayodhyanath Sunita	
25	EU2227017	Mohite Kautuk Arvind Ankita	
26	EU2227006	More Mrunmay Pramod Pooja	
27	EU1227019	Nagargoje Chetan Vishnu Manisha	
28	EU1227040	Nagavkar Swayam Sanjay Shrutika	
29	EU2227012	Neve Yash Satish Manisha	
30	EU1227008	Panda Amit Kishore Santoshi	
31	EU1227004	Panhale Yashashree Amar Amruta	
32	EU1227009	Pathak Sanjeev Sanjay Poonam	
33	EU1227010	Patil Dhruvika Samir Supriya	
34	EU1227051	Patil Hardik Bhal Bhavika	
35	EU1227024	Patil Hrithik Jatin Janhavi	
36	EU2227015	Patil Mohit Tukaram Tejaswi	
37	EU1227042	Patil Piyush Hareshwar Lalita	
38	EU1227052	Patil Pranjal Karan Sanjivita	



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39	EU1227046	Patil Tejal Dinesh Darshana	
40	EU2227020	Pimpale Kaivalya Prashant Priyanka	<i>Pimpale</i>
41	EU1227015	Poojary Omkar Sadashiv Poornima	<i>Poojary</i>
42	EU1227045	Rana Vedant Ajay Rachana	<i>Rana</i>
43	EU2227010	Raut Arya Rupesh Sarika	
44	EU1227023	Raut Harsh Nilesh Anjali	<i>Raut</i>
45	EU1227001	Ray Abhishek Kumar Shivbalak Neelamdevi	<i>Ray</i>
46	EU2227024	Shaikh Arman Riyaz Tabassum	
47	EU1227012	Sharma Ayush Shitlaprasad Manju	<i>Sharma</i>
48	EU2227023	Sharma Rohit Santosh Mahalaxmi	
49	EU1227036	Sharma Utkarsh Anurag Chhaya	<i>Sharma</i>
50	EU1227048	Singh Aditi Amit Bandana	<i>Singh</i>
51	EU1227053	Singh Prachi Dharendra Shweta	<i>Singh</i>
52	EU1227020	Swami Vaishnav Sanjay Minakshi	<i>Swami</i>
53	EU1227034	Vade Manasvi Satendra Asha	
54	EU1227037	Varekar Aishwarya Ankush	<i>Varekar</i>
55	EU1227038	Varekar Atharva Ankush Akanksha	<i>Varekar</i>
56	EU1227007	Verma Punit Ajay Maya	<i>Verma</i>
57	EU2227014	Wade Shreyas Hareshwar Harshada	<i>Wade</i>
58	EU2227021	Yadav Rohit Dayashankar Madhuri	<i>Yadav</i>



[Signature]

HOD

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St. John College of Engineering
& Management Palghar 401404

[Signature]
Principal

St. John College of Engg. & Mgmt
Palghar (E), Palghar

Aidel Education Trust's

St. John College of Engineering and Management, Palghar

Branch : EXTC

Year :
3rd

Div : A

Session on: *IOT in Healthcare* Speaker: *Er. Manoj Kavedia*

Roll No	PID	Student Name	Signature
1	EU2213005	Chaudhary Tanay Sanjay Pratibha	<i>[Signature]</i>
2	EU2213008	Gharat Chirag Dilip Swati	<i>[Signature]</i>
3	EU1213002	Keni Siddhesh Kishor Hemlata	<i>[Signature]</i>
4	EU1213005	More Kaustubh Pradeep Sushma	<i>[Signature]</i>
5	EU2213006	Nair Amal Harikumar Prameela	
6	EU2213007	Namkoda Gaurav Jaywant Jagruti	<i>[Signature]</i>
7	EU2213001	Patil Shubham Sunil Sunita	<i>[Signature]</i>
8	EU1213003	Patil Suraj Satish Sarika	<i>[Signature]</i>
9	EU2213003	Patil Yash Sanjay Sharda	<i>[Signature]</i>
10	EU2213004	Raut Omkar Nayan Nimisha	
11	EU2213002	Tare Manav Valbhav Sanyukta	
12	EU1213001	Yadav Ankur Banshbadur Anita	<i>[Signature]</i>



[Signature]

HOD
Dept of Electronics & Telecommunication
St. John College of Engineering
& Management Palghar 401404

[Signature]
Principal
St. John College of Engg. & Mgmt
Palghar (E). Palghar

AET'S St. John College of Engineering and Management, Palghar

Session on: FOT in Healthcare

By: Er. Manoj Kavedia

Year: BE Division: B Programme: Mechanical Engineering Date: 05/03/2024

Roll No.	PID Number	Name of the Student	Signature
2	EU2205050	Patel Vishrut Jayesh Yogita	
3	EU1205008	Patel Yash Rajesh Priti	<i>[Signature]</i>
4	EU2205001	Patil Ayush Kanchan Aparna	<i>[Signature]</i>
5	EU2205033	Patil Deep Mahendra Mansvi	<i>[Signature]</i>
6	EU2205040	Patil Dushyant Sudam Sarika	
8	EU2205012	Patil Shwetang Sandesh Sneha	
9	EU2205009	Patil Vaishnavi Pramod Seema	
10	EU2205055	Patil Varun Prabhakar Preeti	<i>[Signature]</i>
12	EU2205008	Pawar Bhaveshkumar Pravin Savita	<i>[Signature]</i>
15	EU2205039	Prasad Deepak Ranjan Shivkumari	<i>[Signature]</i>
16	EU2205028	Rasal Shubham Sachin Sonal	<i>[Signature]</i>
17	EU2205016	Rasal Vipul Sanjay Pratiksha	<i>[Signature]</i>
18	EU1205002	Raut Jeet Rajendra Krupali	<i>[Signature]</i>
21	EU2205030	Sankhe Bhavik Santosh Vandana	<i>[Signature]</i>
22	EU2205029	Sawant Abhishek Suhas Suchita	<i>[Signature]</i>
24	EU2205027	Seniyar Dhanesh Ganesan Geeta	<i>[Signature]</i>
25	EU2205048	Shaikh Salim Babu Ruksana	<i>[Signature]</i>
27	EU2205059	Shinde Shlok Tushar Urmila	
28	EU2205024	Singh Anubhav Subodhkumar Bineeta	<i>[Signature]</i>
29	EU2205057	Soni Shrey Dharmesh Beena	
30	EU2205005	Surti Aryan Arun Vaishali	<i>[Signature]</i>
32	EU2205011	Tambe Vivek Santosh Sapna	<i>[Signature]</i>
33	EU2205042	Thakare Shreyas Sanjay Sampada	
34	EU2205014	Thakare Yash Pramod Aditi	
35	EU1205001	Thakur Chinmay Ajit Aakansha	<i>[Signature]</i>
36	EU2205018	Thorat Dhanashree Sukhdev Anita	
37	EU1205014	Trivedi Umang Yogesh Trupti	
38	EU2205010	Vaity Vinmay Vishal Shubhangi	<i>[Signature]</i>
39	EU2205006	Vinayak Vinayak Vijayshri	<i>[Signature]</i>
40		Surendranath Arita	<i>[Signature]</i>



HOD
 Dept of Electronics & Telecommunication
 St. John College of Engineering
 Palghar

Principal

St. John College of Engg. & Mgmt

AET'S St. John College of Engineering and Management, Palghar

Session on: *IOT in Healthcare*

By: *Er. Manoj Kerkedia*

Year: BE Division: B Programme: Mechanical Engineering Date:

Roll No.	PID Number	Name of the Student	Signature
2	EU2205050	Patel Vishrut Jayesh Yogita	
3	EU1205008	Patel Yash Rajesh Priti	<i>Patel</i>
4	EU2205001	Patil Ayush Kanchan Aparna	<i>Patil</i>
5	EU2205033	Patil Deep Mahendra Mansvi	<i>Patil</i>
6	EU2205040	Patil Dushyant Sudam Sarika	
8	EU2205012	Patil Shwetang Sandesh Sneha	<i>Patil</i>
9	EU2205009	Patil Vaishnavi Pramod Seema	
10	EU2205055	Patil Varun Prabhakar Preeti	<i>Patil</i>
12	EU2205008	Pawar Bhaveshkumar Pravin Savita	<i>Pawar</i>
15	EU2205039	Prasad Deepak Ranjan Shivkumari	<i>Prasad</i>
16	EU2205028	Rasal Shubham Sachin Sonal	<i>Rasal</i>
17	EU2205016	Rasal Vipul Sanjay Pratiksha	<i>Rasal</i>
18	EU1205002	Raut Jeet Rajendra Krupali	<i>Raut</i>
21	EU2205030	Sankhe Bhavik Santosh Vandana	<i>Sankhe</i>
22	EU2205029	Sawant Abhishek Suhas Suchita	<i>Sawant</i>
24	EU2205027	Seniyar Dhanesh Ganesan Geeta	<i>Seniyar</i>
25	EU2205048	Shaikh Salim Babu Ruksana	<i>Shaikh</i>
27	EU2205059	Shinde Shlok Tushar Urmila	
28	EU2205024	Singh Anubhav Subodhkumar Bineeta	<i>Singh</i>
29	EU2205057	Soni Shrey Dharmesh Beena	
30	EU2205005	Surti Aryan Arun Vaishali	<i>Surti</i>
32	EU2205011	Tambe Vivek Santosh Sapna	<i>Tambe</i>
33	EU2205042	Thakare Shreyas Sanjay Sampada	
34	EU2205014	Thakare Yash Pramod Aditi	
35	EU1205001	Thakur Chinmay Ajit Aakansha	<i>Thakur</i>
36	EU2205018	Thorat Dhanashree Sukhdev Anita	
37	EU1205014	Trivedi Umang Yogesh Trupti	
38	EU2205010	Vaity Vinmay Vishal Shubhangi	<i>Vaity</i>
39	EU2205006	Yadav Omkar Vinayak Vijayshri	<i>Yadav</i>
40	EU2205006	Yadav Pravinkumar Subendranath Arita	<i>Yadav</i>



HOD
 Dept of Electronics & Telecommunication
 St. John College of Engineering
 & Management Palghar 401404

Kerkedia
Principal

St. John College of Engg. & Mgmt



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Date:05/03/2024

Notice

The department of EXTC Engineering is going to organise the Expert Talk on Computer Networks” was conducted on 7th March, 2024 by Mr. Gautam Jha, network administrator of SJCEM.

The speaker will be joining offline and Targeted audience are Third year and Final year students of EXTC branch.

Venue: Computer lab A-111 (First Floor)

Date: 07/03/2024

Time: 1:30pm to 4:30pm

Faculty Co-ordinator

HOD of EXTC/ECS



Principal

St. John College of Engg. & Mgmt
Palghar (E), Palghar



A Report on "Expert Talk on Computer Networks"

Date: 07/03/2024

Time: 1:30pm to 4:30pm

Venue: Computer lab A-111 (First Floor)

Resource Person: Mr. Gautam Jha.

Event Organizer: EXTC Engineering Department

Targeted Students: TE EXTC and BE EXTC Engineering Students

Description:

As part of curriculum, EXTC classes had the opportunity to visit the server room of our college. This visit aimed to provide students with a hands-on understanding of computer networking concepts and a glimpse into the infrastructure that supports our college's digital operations. Upon entering the server room, they were struck by the rows of humming servers, routers, and switches that lined the walls. Our guide Mr. Gautam Jha, the college's network administrator, explained the functions of each device and how they work together to form the backbone of the college's network.

The visit to the server room was an enriching experience that helped students connect theoretical concepts to real-world applications. They gained a deeper appreciation for the complexity and importance of computer networking in supporting our college's digital infrastructure. This hands-on learning experience will undoubtedly benefit them in their future studies and careers in the field of computer science.

Thanks to Gautam sir and Principal sir for giving us permission to visit the cyber room.

Learning Outcome:

- Students got the knowledge about hardware and their uses.
- Students got the information about opportunities in that domain.
- Students learned about the different types of servers, including web servers, database servers, and file servers, and how they manage and store data.
- Students saw firsthand how routers and switches connect devices and facilitate communication between them.
- Students gained insight into network security measures, such as firewalls and access controls, that protect the college's network from cyber threats.
- Students understood the importance of network redundancy and backup systems in ensuring uninterrupted services.



Kishan

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Event Photos:



Kishal

Principal

St. John College of Engg. & Mgmt
Palghar (E), Palghar



Hiral Patel

Faculty Co-ordinator
Mrs. Hiral Patel




Pandharinath Ghonge
HOD of EXTC
Dr. Pandharinath Ghonge



Kishali
Principal
St. John College of Engg. & Mgmt
Palghar (E), Palghar

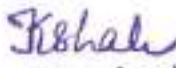
Attendance

Sr. No.	Name	Sign
BE		
1	Bhavar Bhagyashree Sanjay Sugandha	B
2	Jadhav Siddhi Tanaji Vidya	S
3	Jha Anshul Akhilesh Kiran	Anshul
4	Kamble Mihir Dipak Bharati	Mihir
5	More Shreyas Nilesh Varsha	AB
6	Pimple Mayank Sanjeev Susmita	Mayank
7	Patil Sakshi Santosh Supriya	AB
8	Raul Srushti Rajesh Ruchita	S
9	Save Prachit Leelakant Suvama	Prachit
10	Tandel Vibhav Sudhir Shubhangi	Vibhav
11	Thakur Sumit Shambhu Sulekha	Sumit
12	Vadu Abhijit Prakash Savita	AB
13	Yadav Pushpa Subash Sunita	Yadav
TE		
14	Chaudhary Tanay Sanjay Pratibha	Chandry
15	Gharat Chirag Dilip Swati	Chirag
16	Keni Siddhesh Kishor Hemlata	Siddhesh
17	More Kaustubh Pradeep Sushma	Kaustubh
18	Nair Amal Harikumar Prameela	Amal
19	Namkoda Gaurav Jaywant Jagruti	Gaurav
20	Patil Shubham Sunil Sunita	Shubham
21	Patil Suraj Satish Sarika	Suraj
22	Patil Yash Sanjay Sharda	Yash
23	Raut Omkar Nayan Nimisha	Omkar
24	Tare Manav Vaibhav Sanyukta	Manav
25	Yadav Ankur Banshbadhur Anita	Yadav


 faculty Co-ordinator
 Mrs. Hiral Patel



Principal
 Dept of Elect. & Telecommunication
 St. John's College of Engineering
 & Management Palghar - 401444


 Principal
 St. John's College of Engg. & Mgmt
 Palghar (E), Palghar



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Notice

The department of EXTC & ECS Engineering going to organise the Expert talk on **"Exploring FPGA Design with Xilinx Software"** was conducted on 13th March, 2024 by Mrs. Khanam Shahista Ansari, she is Assistant professor, IETE ISF in-charge VCET and Texas Instruments Innovation Lab in-charge.

The speaker will be joining offline and targeted audience are students:

- All SE and TE EXTC and SE ECS students.

Venue: ECS Classroom

Date: 13th March, 2024

Time: 11:00AM to 12:00PM

Number of students participated: 82

Mrs. Oniza Shaikh
Faculty Co-ordinator

Dr. Pandharinath Ghonge
HOD, EXTC & ECS Engineering



Kishor
Principal

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To,

Date: 07/03/2024

The Principal,

SJCEM, Palghar.

Subject: Permission to engage auditorium.

Respected Sir,

On behalf of Electronics & Telecommunication and Electronics and Computer Science Department, I, the undersigned request you to kindly allow for organizing the Expert talk on "FPGA WITH XILINX SOFTWARE" Scheduled at 11:00 AM to 12:00 PM on the 13th of March, 2024.

The expert invited for expert talk is Mrs. Khanam Shahista Ansari, Texas Instruments Innovation Lab and VCET IETE ISF Incharge.

The speaker will be joining offline and the targeted audience are students :

- ❖ Electronics And Telecommunication SE, TE and BE and Electronics and Computer Science SE

The venue is Engg Auditorium hence we request your kind permission to engage the auditorium for the event as given below.

Total required 95 chairs are including faculties and students, projector, sound system, projector controller, 2-Mic wireless.

Venue: Engineering Auditorium

Date: 13th of March, 2024.

Time 11:00 AM to 12:00 PM

No. of students: 95

Thanking you in anticipation, Kindly do the needful.

with regards

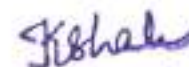

Prof. Oniza Shaikh

Asst. Prof., EXTC



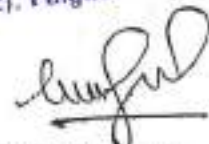
Dr. Pandharinath Ghonge

HoD, EXTC



Principal

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Dr. G. V. Mulgund

Principal





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A REPORT ON "EXPLORING FPGA DESIGN WITH XILINX SOFTWARE" EXPERT TALK

Date: 13th March, 2024

Time: 11 AM to 12 PM

Venue: Second floor ECS Classroom Department of ECS & EXTC, SJECM, Palghar

Resource person: Mrs. Khanam Shahista Ansari

Event Organiser: ASSET (EXTC & ECS Engineering Department)

Targeted students: SE, TE EXTC Students & SE ECS students

Number of students participated: 82

Description:

An Expert talk on "Exploring FPGA Design with Xilinx Software" was conducted on 13th March, 2024 by Mrs. Khanam Shahista Ansari, she is Assistant professor, IETE ISF in-charge VCET and Texas Instruments Innovation Lab in-charge.

Session started with the importance of FPGA and its application in industries and how these skills can be developed in students to get them job ready in this domain.

Mrs. Khanam threw focus on

1. Introduction to FPGA Technology:

Overview of FPGA architecture and its advantages over traditional ASICs (Application-Specific Integrated Circuits). Discussion on the reconfigurable nature of FPGAs and their suitability for rapid prototyping and customization.

2. Xilinx Software Ecosystem:

Introduction to Xilinx software tools, including Vivado Design Suite and ISE Design Suite. Exploration of key features and capabilities of Xilinx tools for FPGA design, synthesis, implementation, and verification.

3. FPGA Design Methodologies:

Overview of hardware description languages (HDLs) such as VHDL and Verilog for FPGA design. Discussion on the design flow, from specification and synthesis to place-and-route and bit stream generation.

4. Advanced Techniques and Optimization:



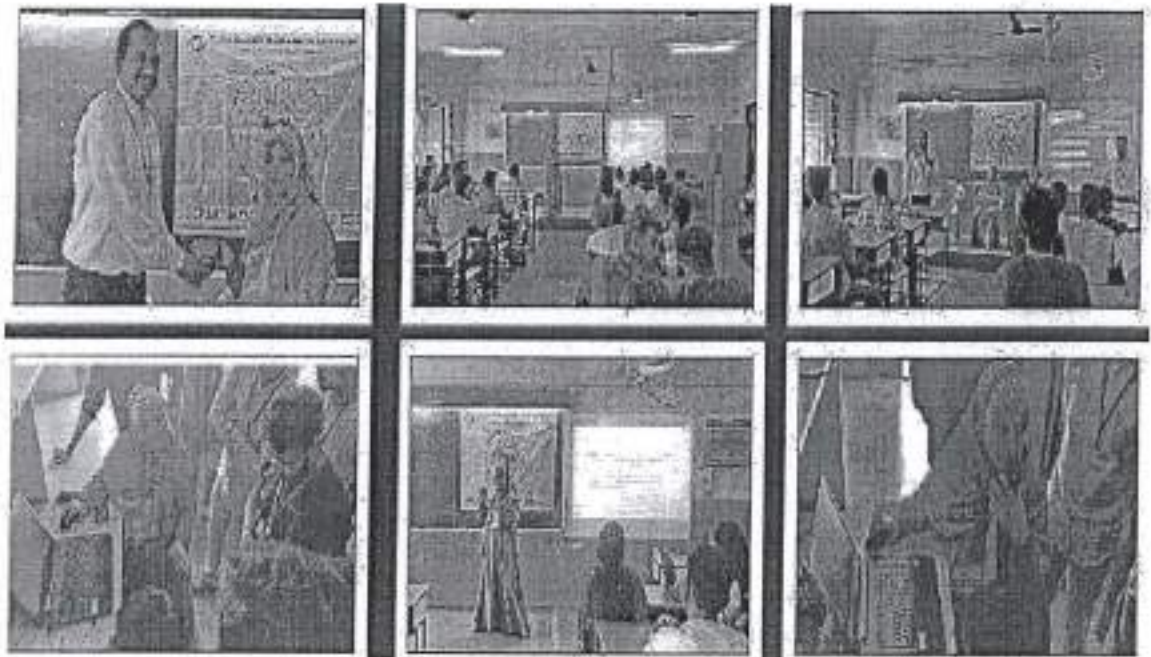
Kishali

Principal

St. John College of Engg. & Mgmt
Palghar, Palghar



Event Photos:



Mrs. Oniza Shaikh
Faculty Co-ordinator

Dr. Pandharinath Ghonge
HOD, EXTC & ECS Engineering



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Deep dive into optimization techniques for improving FPGA performance, area utilization, and power efficiency. Introduction to high-level synthesis (HLS) tools such as Vivado HLS for converting C/C++ code into RTL (Register Transfer Level) descriptions.

5. Real-World Applications:

Case studies and examples of FPGA-based projects in diverse fields such as digital signal processing, communications, image processing, cryptography, and robotics. Examination of how FPGAs are revolutionizing industries and driving innovation in areas such as machine learning, edge computing, and autonomous vehicles.

6. Future Directions and Challenges:

Exploration of emerging trends and future directions in FPGA technology, including the integration of FPGAs with other computing platforms such as CPUs and GPUs. Discussion on challenges and opportunities in FPGA development, including the growing complexity of designs and the need for enhanced design productivity tools.

7. Conclusion and Recommendations:

Recap of key insights and takeaways from the expert talk. Recommendations for further exploration and learning in FPGA development, including resources, online communities, and training programs.

Learning Outcome:

Students got the knowledge about FPGA Architecture:

- The internal structure and components of an FPGA, including logic blocks, routing resources, and I/O elements.
- FPGA Design Flow: Learn the step-by-step process of designing and implementing FPGA-based systems, including synthesis, placement and routing, and bit stream generation.
- VHDL or Verilog Programming: Acquire proficiency in hardware description languages (HDLs) such as VHDL or Verilog for designing digital circuits and systems on FPGAs.
- Xilinx Tool chain Mastery: Familiarize yourself with Xilinx software tools such as Vivado Design Suite or ISE Design Suite for FPGA development, including project creation, simulation, and analysis.
- FPGA Implementation Techniques: Explore various optimization techniques and strategies for improving the performance, area utilization, and power efficiency of FPGA designs.
- Real-world Applications: Gain hands-on experience by implementing FPGA-based projects in areas such as digital signal processing, communications, image processing, cryptography, and robotics.
- Project Management: Practice project planning, organization, and documentation skills through the development of complex FPGA-based projects, from initial concept to final implementation.
- Collaboration and Communication: Enhance teamwork and communication abilities by working on group projects and presenting findings and results to peers or stakeholders.



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Attendance Sheet "Exploring FPGA Design with Xilinx Software" on
13th March 2024

Sr.No.	Name of students	Branch	Semester	Signature
1.	Tomy S. Gaudhaly	EXTC	6 th	
2.	Uday ghawar	EXTC	6 th	
3.	Siddhesh K. Keni	EXTC	6 th	
4.	Kaustubh P. More	EXTC	6 th	
5.	Amal H. Nair	EXTC	6 th	
6.	Gaurav J. Narnkade	EXTC	6 th	
7.	Shubham S. Patil	EXTC	6 th	
8.	Sury S. Patil	EXTC	6 th	
9.	Yash S. Patil	EXTC	6 th	
10.	Onkar N. Raut	EXTC	6 th	
11.	Manav V. Tare	EXTC	6 th	
12.				

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SR.No	Name of Student	Branch	Semester	Signature
1	Suresh Ambhise	EXTC	IV	<u>Suresh</u>
2	Vedanti Dalvi	EXTC	IV	<u>Vedanti</u>
3	Suresh Kumar Deora	EXTC	IV	<u>S.K. Deora</u>
4	Aniket R. Dubey	EXTC	IV	<u>Aniket Dubey</u>
5	Vishal S. Ghanghade	EXTC	IV	<u>Vishal</u>
6	Kaustubh Vinod ghude	EXTC	IV	<u>Kaustubh</u>
7	Sudhanshu Konevi	EXTC	IV	<u>S.Konevi</u>
8	Prince Mishra	EXTC	IV	<u>Prince Mishra</u>
9				
10	Tejas A. Patil	EXTC	IV	<u>Tejas Patil</u>
11	Shreyas Purshot	EXTC	IV	<u>Shreyas</u>
12	Shaikh Bismah	EXTC	IV	<u>Shaikh</u>
13	Hrushikesh Sonone	EXTC	IV	<u>Hrushikesh</u>
14	Kaustubh B. Vannadi	EXTC	IV	<u>Kaustubh</u>

S. Bhat
Principal

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Sr.No	Name of student	Branch	Semester	Signature
1	Soham Adhakar	ECS	IV	Soham
2				
3	Smash Banate	ECS	IV	Smash
4	Dhanashree Bhoir	ECS	IV	Dhanashree
5	Nitaj Bhuaki	ECS	IV	Nitaj
6	Harsh S. Chandhar	ECS	IV	Harsh
7				
8	Prakhar Das	ECS	IV	Prakhar
9				
10	Labhesh G. Dhanmehar	ECS	IV	Labhesh
11	Ankit Gajbhiye	ECS	IV	Ankit
12	Moiz Gawdanti	ECS	IV	Moiz
13	Ashray Gowda	ECS	IV	Ashray

Sibhal
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Sr No	Name of student	Branch	Semester	Signature
14	Khushi Gupta	ECS	IV	<u>Khushi</u>
15				
16				
17	Tushar E. Khodbe	ECS	IV	<u>Khodbe</u>
18	Suman S. Lenka	ECS	4	<u>S Lenka</u>
19	Ayasha Wani'a	ECS	4	<u>Ayasha</u>
20	Prakash N. Mahara	ECS	IV	<u>Prakash</u>
21	Meet. v. Malkar	ECS	IV	<u>Meet</u>
22	Sushri Parada	ECS	IV	<u>Sushri</u>
23	Niyot. J. Mphes	ECS	04	<u>Niyot</u>
24				
25	Kantuk Mohite	ECS	IV	<u>Kantuk</u>
26	Mrunmay More	ECS	IV th	<u>Mrunmay</u>
27	Chetan V. Nagarkar	ECS	4	<u>Chetan</u>



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Sr.No	Name of student	Branch	Semester	Signature
28				
29	Yash.S.Neve	ECS	IV	
30	Amit K. Panda	ECS	IV	
31	Yashashree Panhale	ECS	IV	
32	Sanjeev Pathak	ECS	IV	
33	Dhruvika Potil	ECS	IV	
34	Hardik Patil	ECS	IV	
35	Hrithik Patil	ECS	IV	
36	Mohit Patil	ECS	IV	
37	Piyush H. Patil	ECS	IV	
38	Pranjal Patil	ECS	IV	
39				
40	Kaivalya Pimpale	ECS	IV	
41				



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Sr. No	Name of student	Branch	Semester	Signature
42	Vedant Rana	ECS	IV	VARANS
43	Anya Raut	ECS	IV	Signature
44	Harsh Raut	ECS	IV	Harsh Raut
45	Abhishek Ray	ECS	IV	Abhishek Ray
46				
47	Ayush Sharma	ECS	IV	Ayush
48				
49	Utkarsh Sharma	ECS	IV	Utkarsh
50	ADITI SINGH	ECS	IV	Aditi
51	PRACHI SINGH	ECS	IV	Prachi
52	Vaishnav Swami	ECS	IV	Signature
53	Manasvi Uade	ECS	IV	Manasvi
54	Aishwarya Vardekar	ECS	IV	Aishwarya
55				



Kohala

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