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IOT CLUB

About the Club:

The IoT Club represents an emerging hub for technological innovation, focusing on the Internet of Things (IoT) and its transformative impact on society. This dynamic technology is reshaping both our professional and personal lives, bringing about a significant paradigm shift. The club is a dedicated initiative aimed at empowering and nurturing students within the institute, fostering expertise in IoT and its related domains. The overarching goal is to instill new skills, facilitate knowledge acquisition, and cultivate a collaborative environment for peer-to-peer learning. By establishing and promoting a culture centered around IoT, the club endeavors to provide long-term benefits to students across current and future batches.

Objectives:

Develop students' proficiency in devices such as Node MCU, Arduino, Raspberry Pi, Automation sensors, and Actuators.

Conduct workshops within the institute to enhance skills and provide practical experience.

Organize talks by professors and experts, both internal and external, on specific topics of interest.

Participate in technical events hosted by various colleges and represent our institute through the club.

Identify research opportunities in IoT technology, applications, and services.

Undertake industry-level projects with potential applications for other organizations.

Vision:

The IoT Club serves as a vibrant community hub where students engage in discussions, learn, and collaborate on IoT-related projects. Members benefit from a diverse range of programs and activities, including seminars, workshops, short courses, certifications, hackathons, project competitions, and expositions. Supported by internal and external experts, the club guides students in strategizing and organizing activities to enhance their knowledge and skills in IoT. The overarching vision is to prepare students for successful professional careers in industries specializing in IoT.

Mission:

Focus on mastering skills through hands-on sessions and projects.

Raise awareness about modern IoT tools and methodologies.

Enhance students' proficiency in devices like Node MCU, Arduino, Raspberry Pi, Automation sensors, and Actuators.

Host skill development workshops within the institute.

Organize talks by professors and experts on specific topics of interest.

Identify research opportunities in IoT technology, applications, and services.

Talk show

Date: 25 -02-2023 **Duration:** 11:00 to 12:00 Noon

By: Nikky (Nik) Kumar Jha

Co-Founder at Saptkrishi (Sabjikothi), Shark Tank India, Solved Champion by United Nation and GOI, Climate Solver Award by WWF, Author of Miracle Minds, Vice-Chair (CS MGAB SYP) IEEE Global.

About

I am a seeker of social justice in the context of the environment and the fair share of rights that everyone has on the resources of the planet. An Electrical & Electronics Engineer and environmentalist by training, I am a round-the-clock-innovator with superior project management skills and a diverse technical background in cost-effective and green alternatives to existing electrical and electronics products. Expertise in renewable energy particularly solar, medical electronics, Internet of Things, Agri-Tech, Healthcare Tech, Machine Learning. Published multiple research paper, attended several International Conferences as keynote speaker. Recipient of many International Awards.

Saptkrishi@saptkrishi

SaptKrishi is a young Agri-Tech start-up, accelerated at SIIC, IITK & committed to work towards agricultural innovation and increasing the income of farmers.

Faculty Coordinator: Dr. Shailendra Singh

Total participants: 57

Gallery


SAPT KRISHI
20 UNITS SABJIKOTHI HAVE BEEN INSTALLED AT HAMIRPUR HIMACHAL PRADESH. WE HAVE DIRECTLY IMPACTED LIVES OF 10+ FARMERS WITH OUR COLLABORATION WITH ICICI FOUNDATION.

PSIT
Kanpur

PRANVEER SINGH INSTITUTE OF TECHNOLOGY

CERTIFICATE OF PARTICIPATION

Presented to

Aditya Singh

for participating in an Expert Talk on Start-ups, Entrepreneurial Journey

by Nikki Kumar Jha, Co-founder, Saptkrishi.

Organized by IoT CLUB, PSIT. | Saturday, February 25, 2023

Dr. Shailendra Singh
Coordinator - IOT Club

Prof. Raghvendra Singh
Head - ECE Department

Prof. Sanjeev Kumar Bhalla
Director

NIKKY KUMAR JHA

Research Scholar IIT Kanpur,
Vice-Chair (CS MGAB SYP) IEEE Global,
Featured on Shark Tank India, Josh talk, OMG,
Solved Champion by United Nation and GOI, Climate Solver
Award by WWF, Co-founder at Saptkrishi

"An Expert Talk on Start-ups, Entrepreneurial Journey and much more."

25 FEBRUARY, 2023
SATURDAY

ANKIT JHA
EVENT CO-ORDINATOR
7254930047

Robothon

Date: 24-02-2023 to 25 -02-2023 **Duration:** college hours

EVENT DESCRIPTION:

The way you make your entrance, the manner in which you navigate, and the speed at which you unveil your bot's capabilities come to life at the captivating "RoboRace" event. This competition offers you a dynamic track to unleash your enthusiasm, inviting you to engage in a thrilling race to victory with your robotic creations. Brace yourself for high speeds, tight turns, and exhilarating collisions as your hot wheels take center stage.

This event serves as the ultimate test for the efficiency, power, and skills of your droid or robot. Organized by PSIT KANPUR as part of the "Tech Fest IGNITIA 2023," it provides a platform for participants to race their bots to the finish line and earn well-deserved accolades.

ROBOT SPECIFICATIONS:

- Ensure your robot's maximum dimensions do not exceed 25cm x 25cm x 25cm (length x width x height).
- Robots may be either wired or wireless.
- For wired bots, the length of the wire should cover the entire track, remaining slack throughout the run.
- The maximum weight must not surpass 5 kg.
- Note that ready-made toys, cars, and Lego bots are strictly prohibited.
- Get ready to immerse yourself in the excitement of RoboRace and showcase the prowess of your robotic creation!

Total Participation: 12 teams

Winner 1st : 10K Rs, Winner 2 : 5K

Gallery


PSIT
Kanpur
SPICES
ignitia'23
PSIT IoT Club
Aarohan
1st
10000
2
5000
ROBO HURDLE RACE
VENUE : IN FRONT OF R BLOCK
DATE : 24 FEB , 25 FEB TIME : 11:45 AM - 4 PM
CONTACT US:
HARSHIT : 9336892064
PRATEEK:8388018796
VIDUSHI: 80900685
robothon_2k23

Webinar

on

IoT based lead autopilot for flight controlling systems

Date: 10-02-2023 **Duration:** 6:00 to 7:00 PM Online

Venue: Via Online Zoom meeting mode **by: Rahul Yadav**

Objective:

1: Roles and responsibilities include research and development of flight control system

2: Adding new sensors and flight modes in the flight controllers

3. Development of communication system for UAVs

4. Optimization and validation including proxies (like satellite, 4G/5G cellular network).

Event Overview: This event focuses on a multifaceted approach to advancing unmanned aerial technology, with key objectives encompassing research and development initiatives. The agenda includes the enhancement of the flight control system through dedicated studies. Additionally, there will be a strategic integration of cutting-edge sensors and flight modes into existing controllers. A pivotal aspect of the event involves the design and development of a specialized communication system meticulously tailored to meet the unique needs of Unmanned Aerial Vehicles (UAVs). The program culminates in optimization and validation processes, incorporating diverse proxies such as satellite connections and the robust 4G/5G cellular networks. Join us for an immersive exploration into the future of UAV technology and its pivotal role in the aviation landscape.

Volunteers:

Prateek Singh/ Vidushi

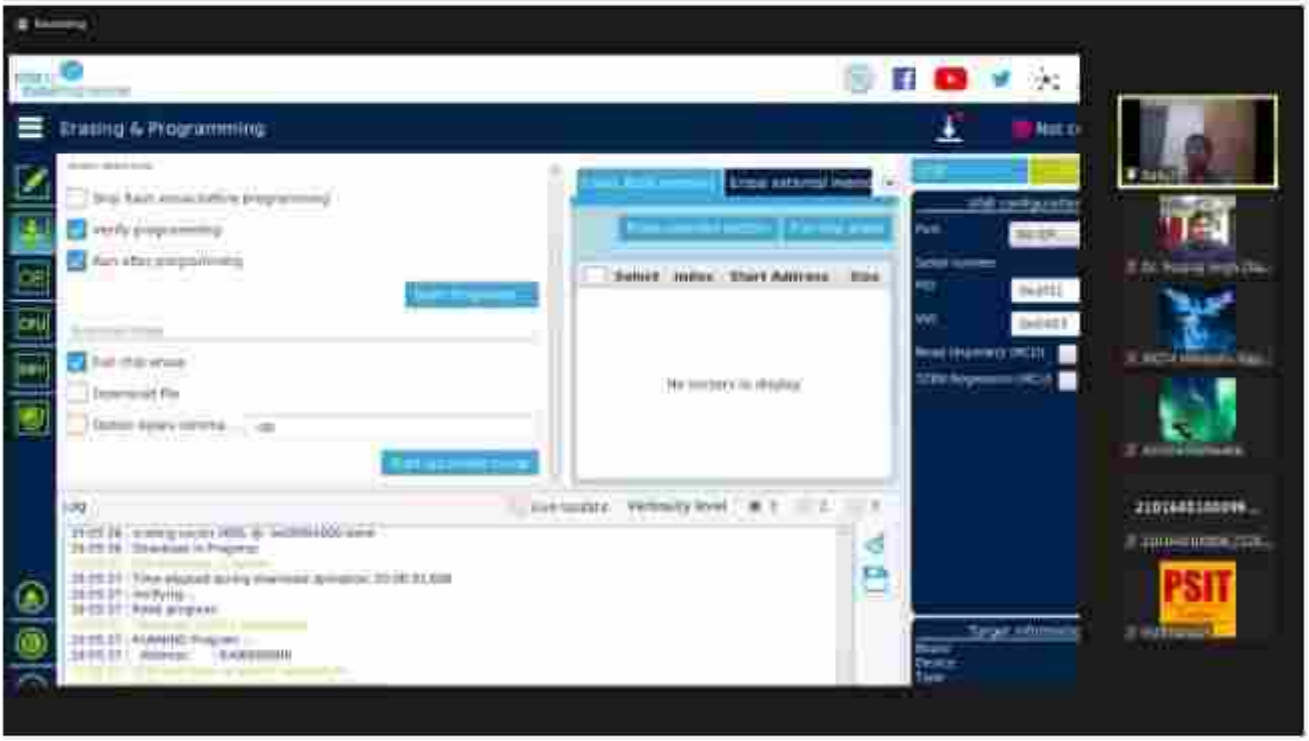
Ankit kumar Jha/Shanu Ahmad

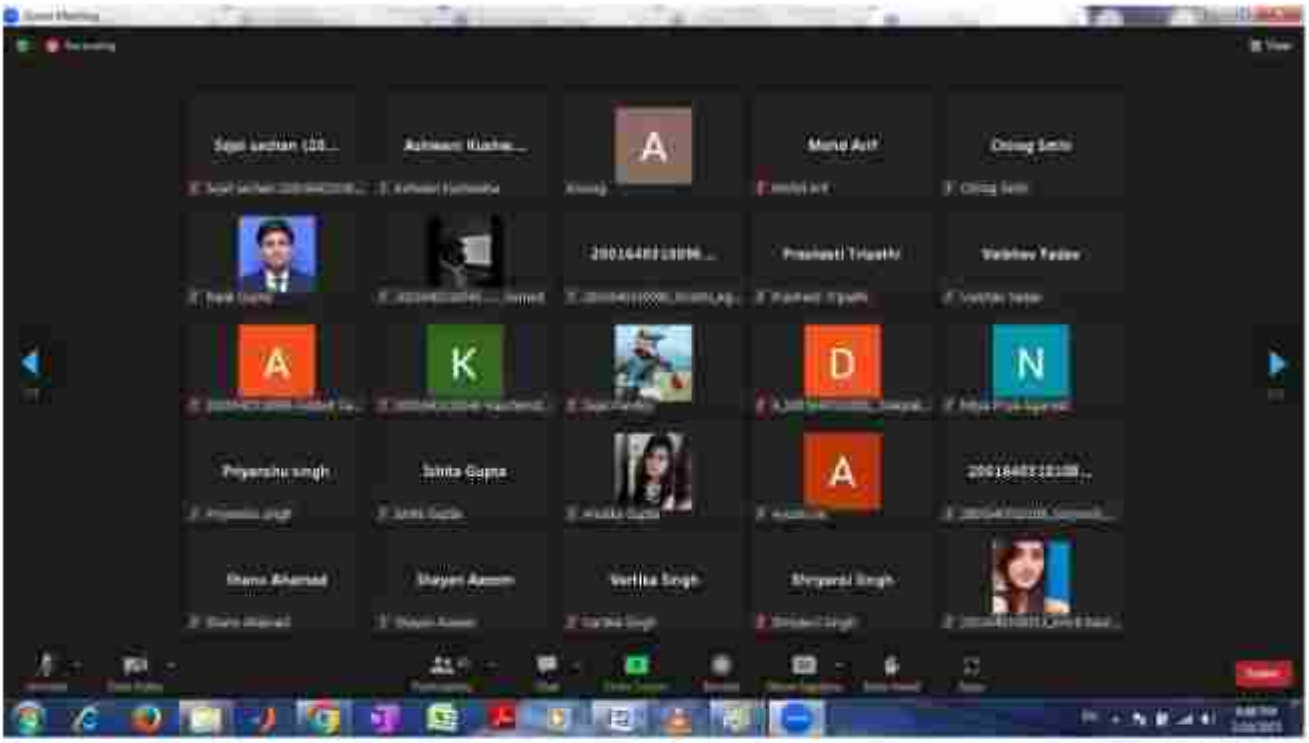
Yash Paras Singh// Pragati Rajpoot

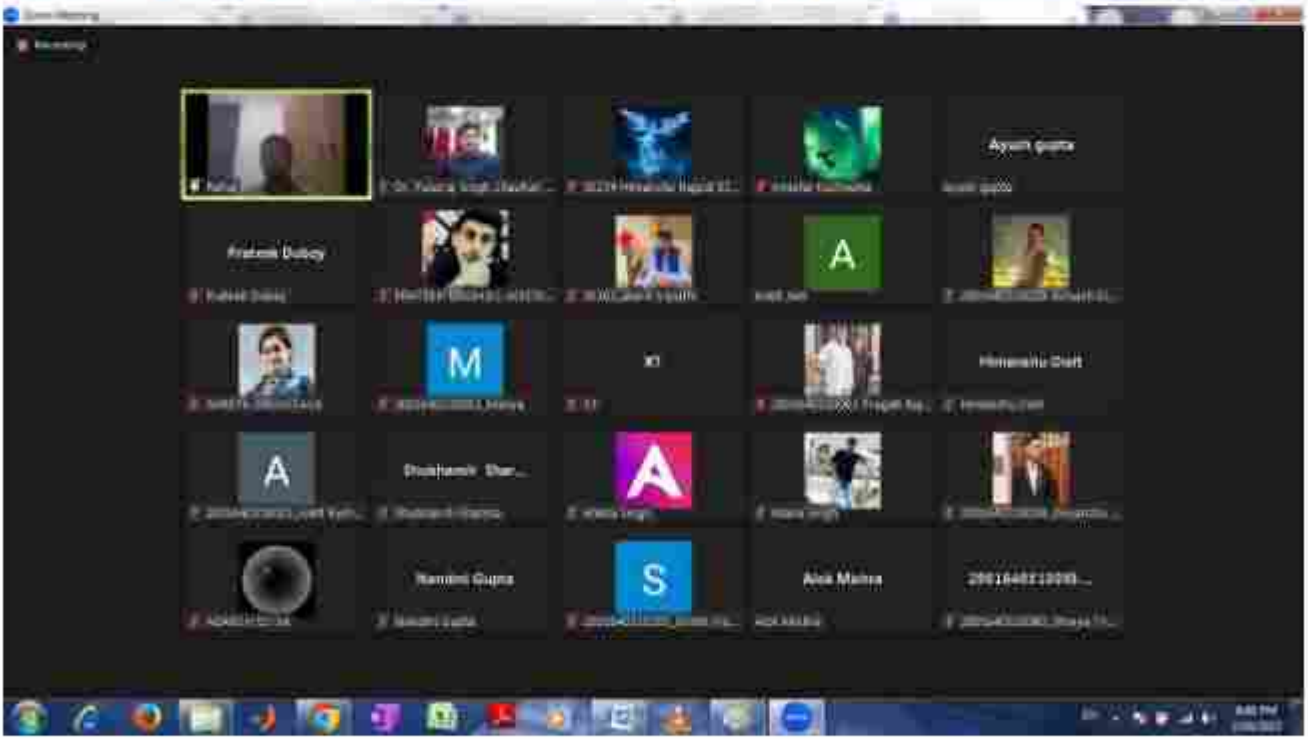
Faculty Coordinators:

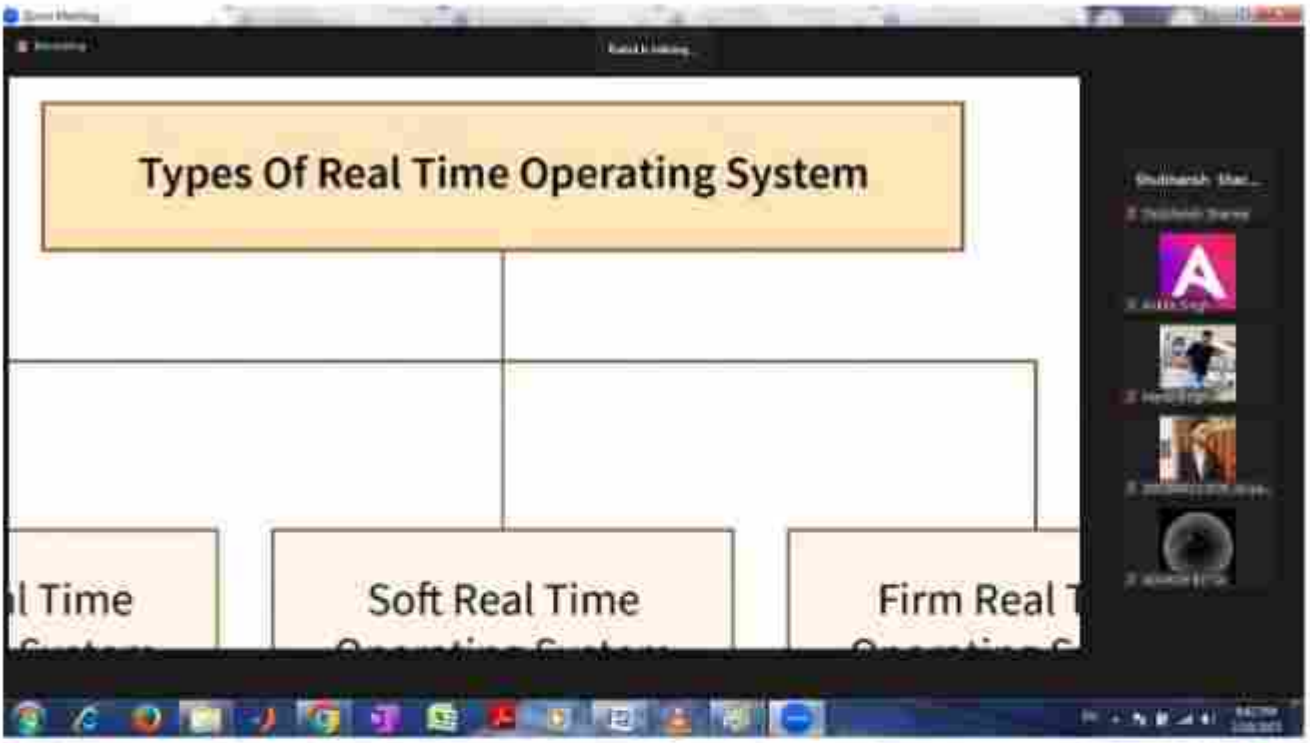
Dr. Shailendra Singh Dr. Puspraj Singh Mr. Ankit Jain

Total participants: 60




Ashwani Kushw...
Mohd Arif
Divraj Sethi
Prashant Tripathi
Vaibhav Yadav
Priyanshu singh
Ishita Gupta
Rana Ahamad
Shayan Aazam
Vartika Singh
Shrijanali Singh


Ayush gupta
Prateek Dubey
Himanshu Dixit
Divyhanshi Shar...
Nandini Gupta
Alok Mishra


Types Of Real Time Operating System
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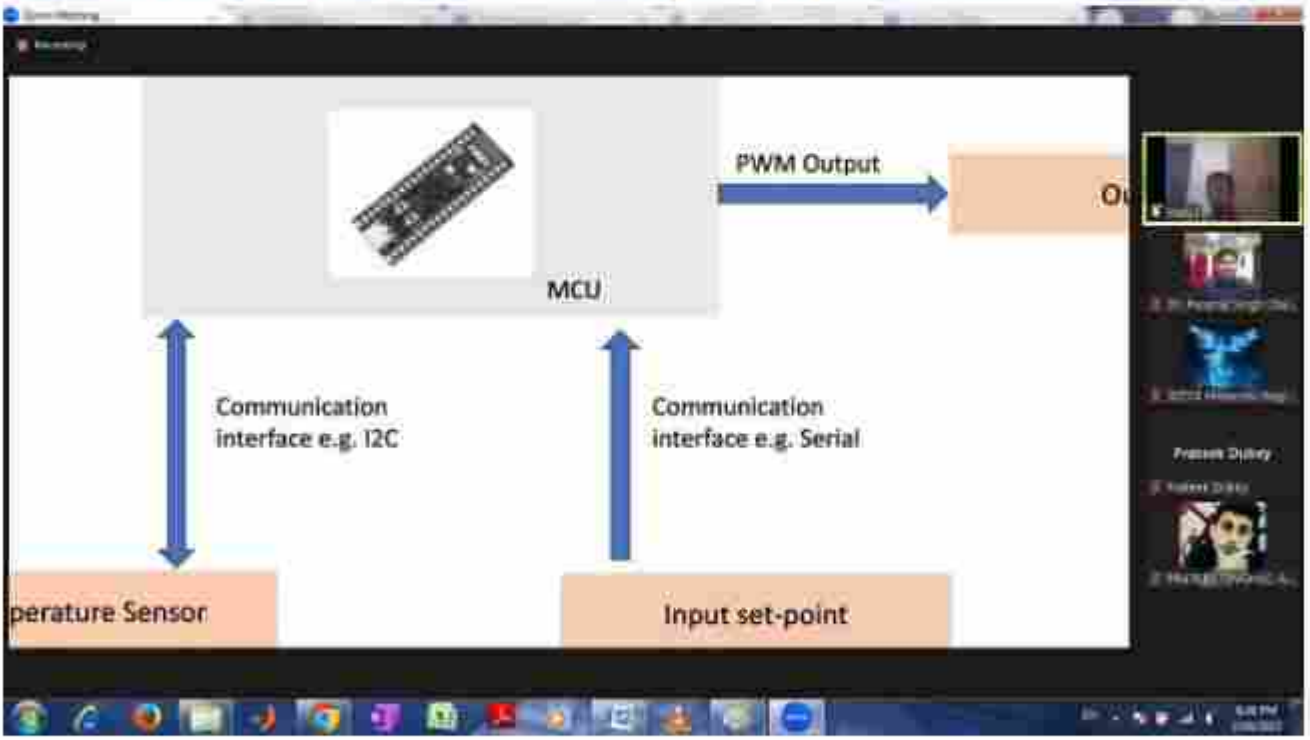
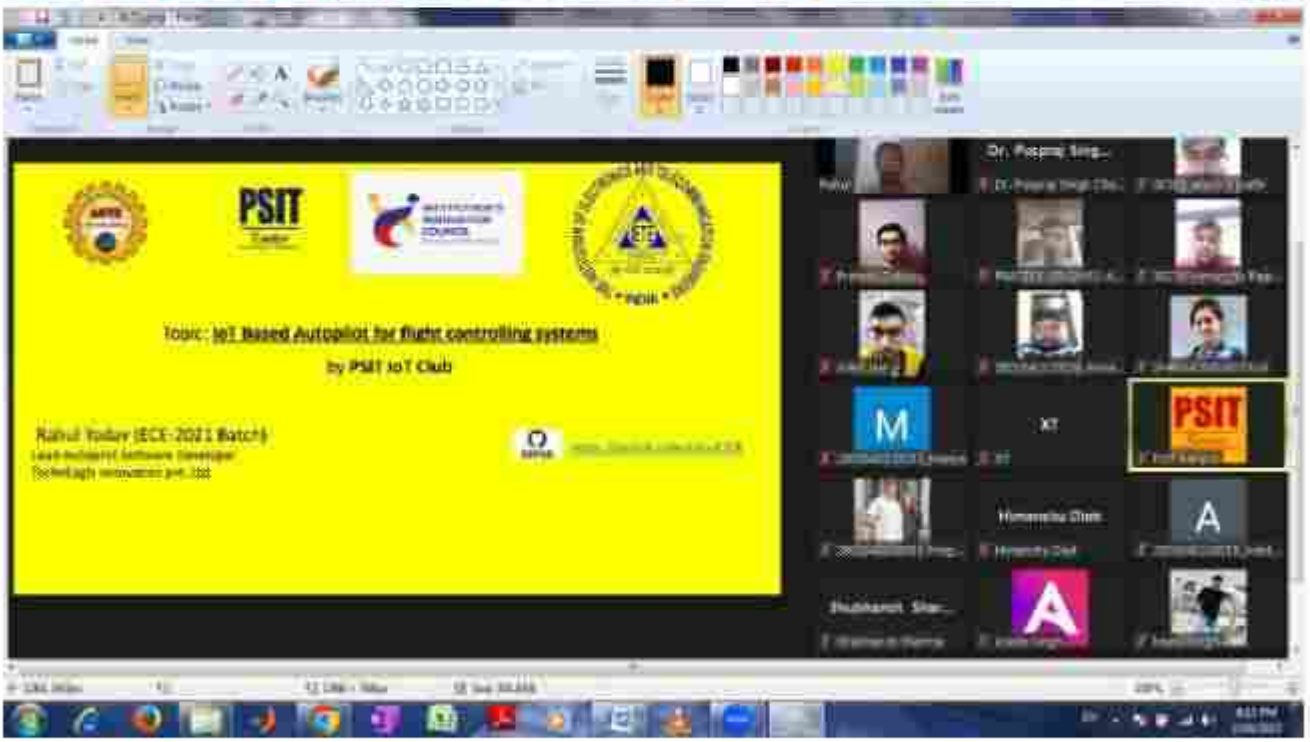
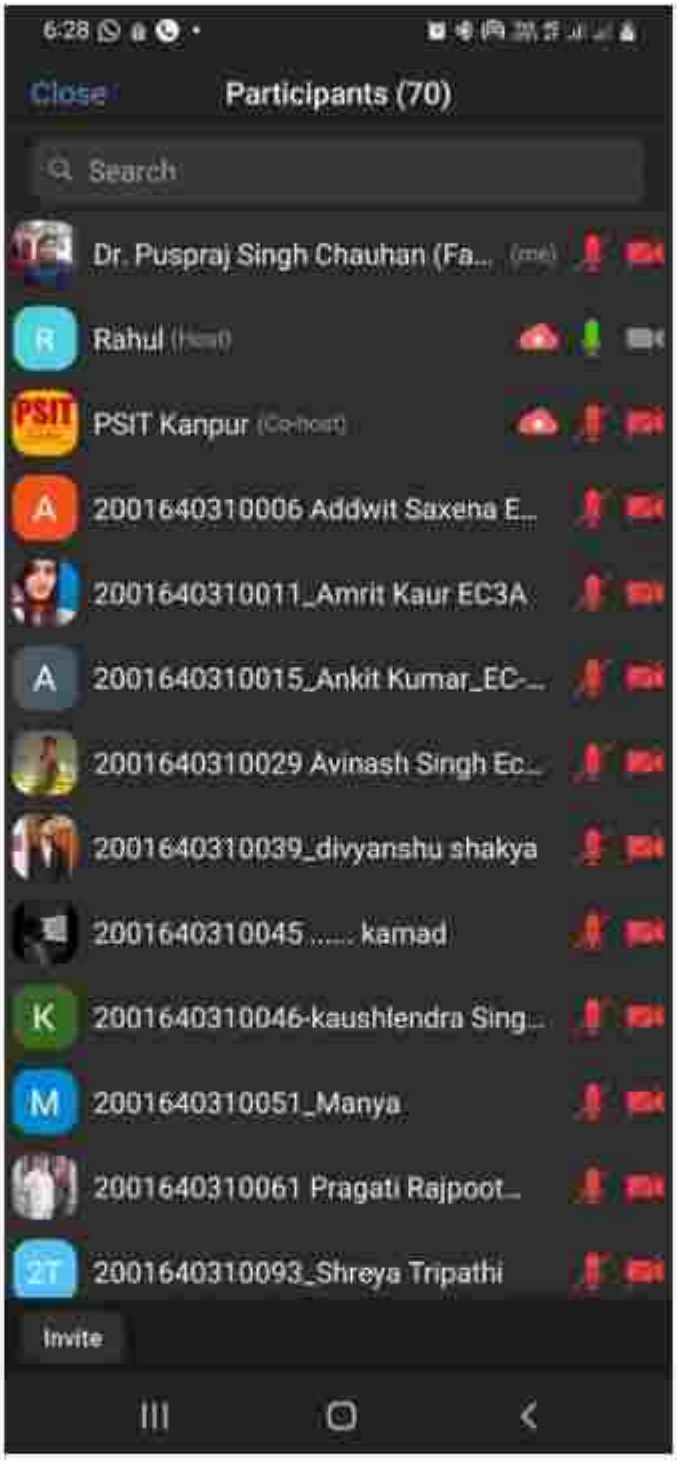
Soft Real Time
Firm Real T


PWM Output
MCU
Communication interface e.g. I2C
Communication interface e.g. Serial
perature Sensor
Input set-point


Program
(Flash ROM)
Processor
Clock


PSIT
Topic : IoT Based Autopilot for flight controlling systems
by PSIT IoT Club
Rahul Yadav (ECE-2021 Batch)
PSIT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Close
Participants (70)
Search
Dr. Puspraj Singh Chauhan (Fa... (me)
Rahul (Host)
PSIT Kanpur (Co-host)
2001640310006 Addwit Saxena E...
2001640310011_Amrit Kaur EC3A
2001640310015_Ankit Kumar_EC-...
2001640310029 Avinash Singh Ec...
2001640310039_divyanshu shakya
2001640310045 ..... kamad
2001640310046-kaushlendra Sing...
2001640310051_Manya
2001640310061 Pragati Rajpoot...
2001640310093_Shreya Tripathi
Invite


6:30
Close
Participants (72)
2001640310061 Pragati Rajpoot...
2001640310093_Shreya Tripathi
2001640310096_Shubhi_Agrawal
2001640310103_Srishti Vishwaka...
2001640310104_stuti
2001640310109 Swapnil Yadav
2001640310125yogesh Chandra...
30162_akash tripathi
30274 Himanshu Rajput EC-A
72_Ankit Jain
A_1901640310081_ Deepak Kush...
A_1901640310162 _Ravi
A_1901640310218_ Tanishq
Abhishek Gupta
Invite


PSIT
Kanpur
SPICES
PSIT IoT Club
Organize
IOT BASED
AUTOPILOT FOR
FLIGHT CONTROLLING
SYSTEMS
WEBINAR
Friday, February 10, 2023
By
PSIT ALUMNUS (BATCH 2021)
Mr Rahul Yadav
Lead Autopilot Software Developer
TECHEAGLE INNOVATION PVT LTD
6:00 PM - 7:00 PM | Zoom Platform
https://forms.gle/kGdJYFZaQXnactZx8
Registration Link
For any query contact with Faculty Co-ordinators
Dr. Shailendra Singh | Dr. Puspraj Singh Chauhan | Mr. Ankit Jain | Mr. Shailendra Sinha
ECE, J-34, PSIT Campus


PRANVEER SINGH INSTITUTE OF TECHNOLOGY
PSIT
Kanpur
CERTIFICATE OF APPRECIATION
PSITKNP18042391
Presented to
Mr. Rahul Yadav
in appreciation of his/her esteemed support as Keynote Speaker
IoT BASED AUTOPILOT FOR FLIGHT CONTROLLING SYSTEMS
Organized by
IoT CLUB, PSIT. | Friday, February 10, 2023
Dr. Shailendra Singh
Coordinator - IOT Club
Prof. Raghvendra Singh
Head - ECE Department
Prof. Sanjeev Kumar Bhalla
Director

Webinar

on

Role of IoT & Embedded System in the corporate industry

Date: 14-04-2023 **Duration:** 6:00 to 7:00 PM Online

Venue: Via Online Zoom meeting mode the prestigious PSIT IOT club organized an online webinar on "**Role of IoT & Embedded System in the corporate industry**" by PSIT alumni **Mr. Sudhanshu Ojha** on **Date: 14-04-2023 via Zoom meeting platform.**

About Speaker

Sudhanshu Ojha, Graduated in 2018 - Electronics and Communication Engineering, PSIT Kanpur. Did PG Diploma in Embedded System Design from CDAC Bangalore. Worked with Alstom (ex Bombardier Transportation) as a Software Development Engineer, currently working with Harman India as Sr. Software Engineer

Motive

Students can learn the basics of interfacing so that they would be able to develop embedded & IoT based projects on their own.

Total Registration received: 131, Total participants: 71

Kindly find the attached images and photographs and other details of the webinar taken by Sudhanshu.

Volunteers:

Prateek Singh/ Vidushi

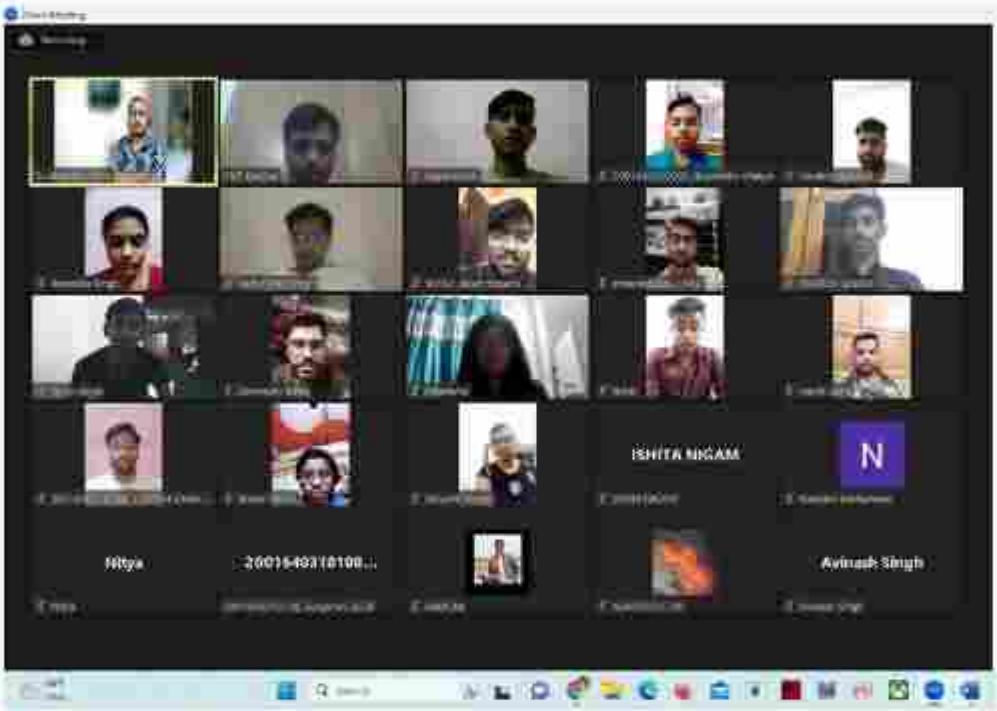
Ankit kumar Jha/Shanu Ahmad

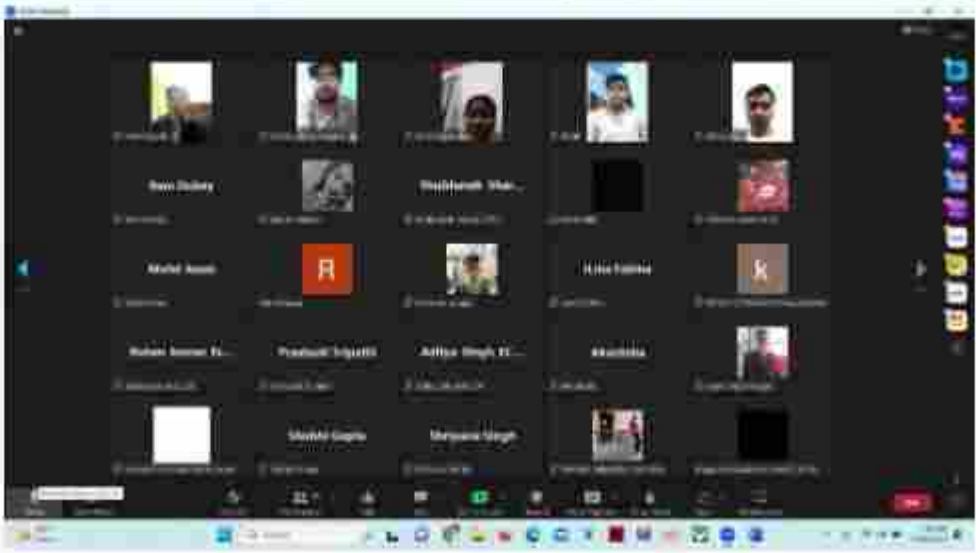
Yash Paras Singh// Pragati Rajpoot

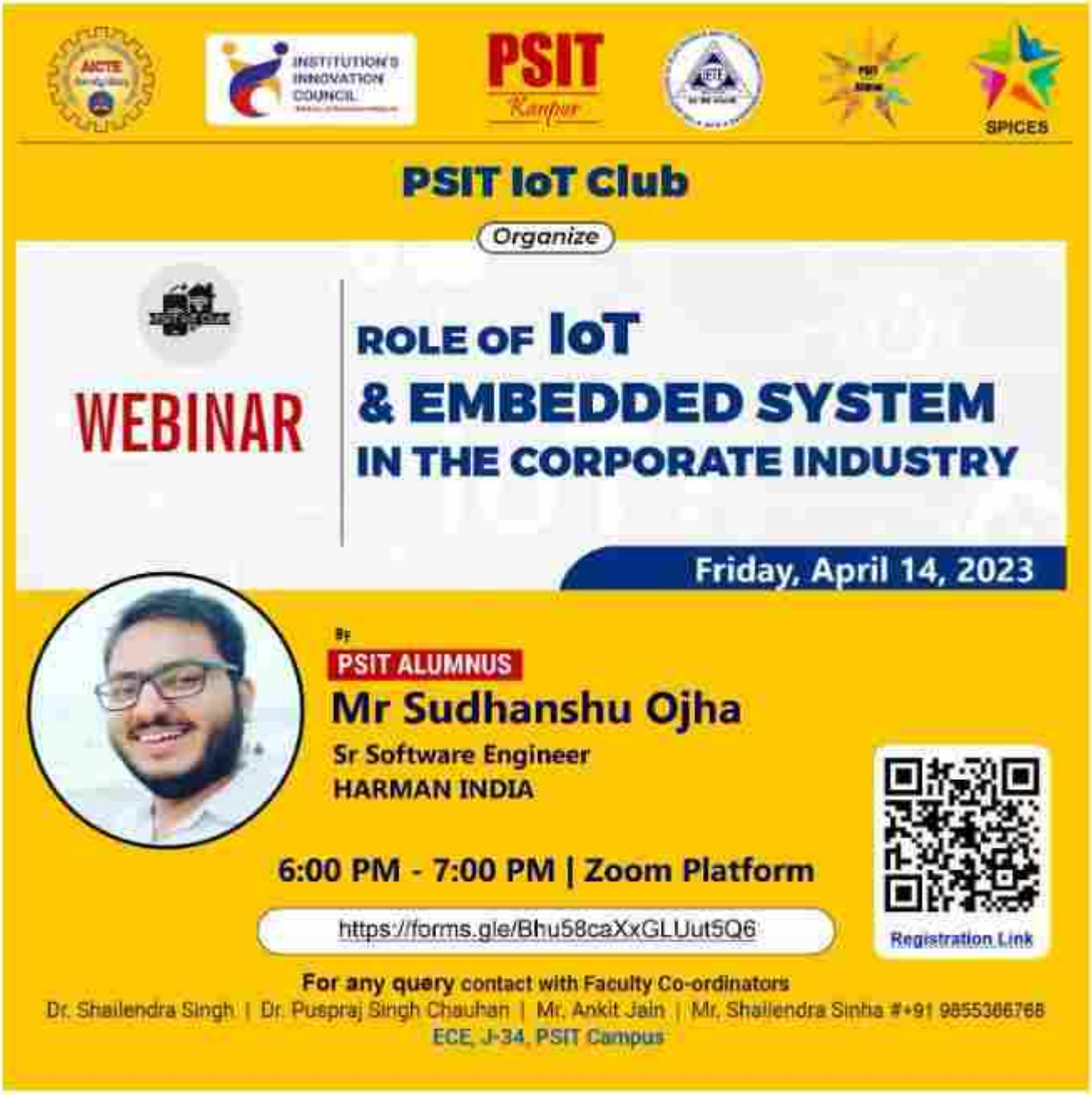
Faculty Coordinators:

Dr. Shailendra Singh Dr. Puspraj Singh Mr. Ankit Jain

Gallery






PSIT Kanpur
SPICES
PSIT IoT Club
Organize
WEBINAR
ROLE OF IoT
& EMBEDDED SYSTEM
IN THE CORPORATE INDUSTRY
Friday, April 14, 2023
By
PSIT ALUMNUS
Mr Sudhanshu Ojha
Sr Software Engineer
HARMAN INDIA
6:00 PM - 7:00 PM | Zoom Platform
https://forms.gle/Bhu58caXxGLUut5Q6
Registration Link
For any query contact with Faculty Co-ordinators
Dr. Shailendra Singh | Dr. Puspraj Singh Chauhan | Mr. Ankit Jain | Mr. Shailendra Sinha #+91 9855386768
ECE, J-34, PSIT Campus

Webinar

on

Information Security: Basics & Research Aspects

Date: 26-05-2023 **Duration:** 6:00 to 7:00 PM Online

By: Varun Shukla, Associate Professor, PSIT Kanpur

Objective:

Delve into the fundamentals and research aspects of Information Security in this comprehensive session. Explore the core principles and emerging trends with a focus on building a solid foundation for understanding Information Security.

Event Overview:

Join us for an in-depth exploration of "Information Security: Basics & Research Aspects." This event is designed to provide participants with a thorough understanding of the fundamental concepts in Information Security, while also delving into the latest research trends. Whether you're a novice or an experienced professional, this session offers valuable insights and knowledge to enhance your grasp of Information Security principles and their evolving landscape.

Total participants: 62

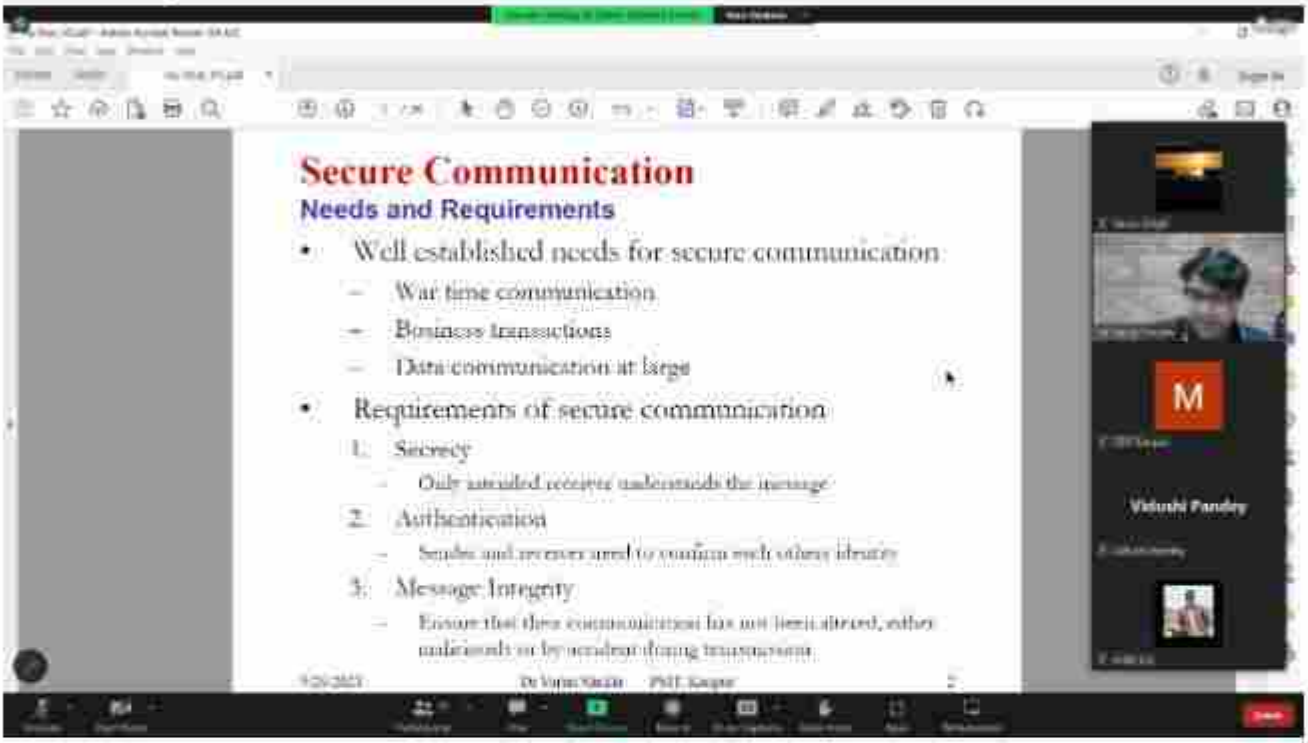
Volunteers:

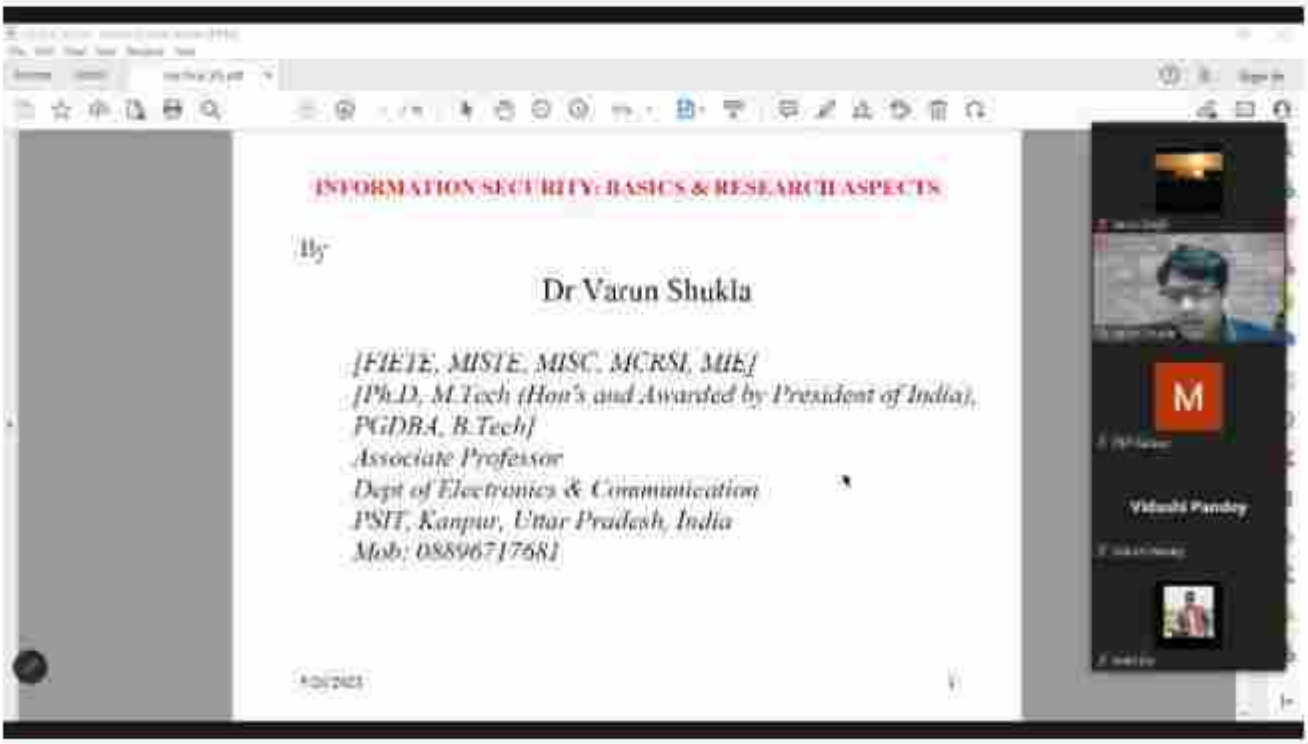
Prateek Singh/ Vidushi
Ankit kumar Jha/Shanu Ahmad
Yash Paras Singh// Pragati Rajpoot

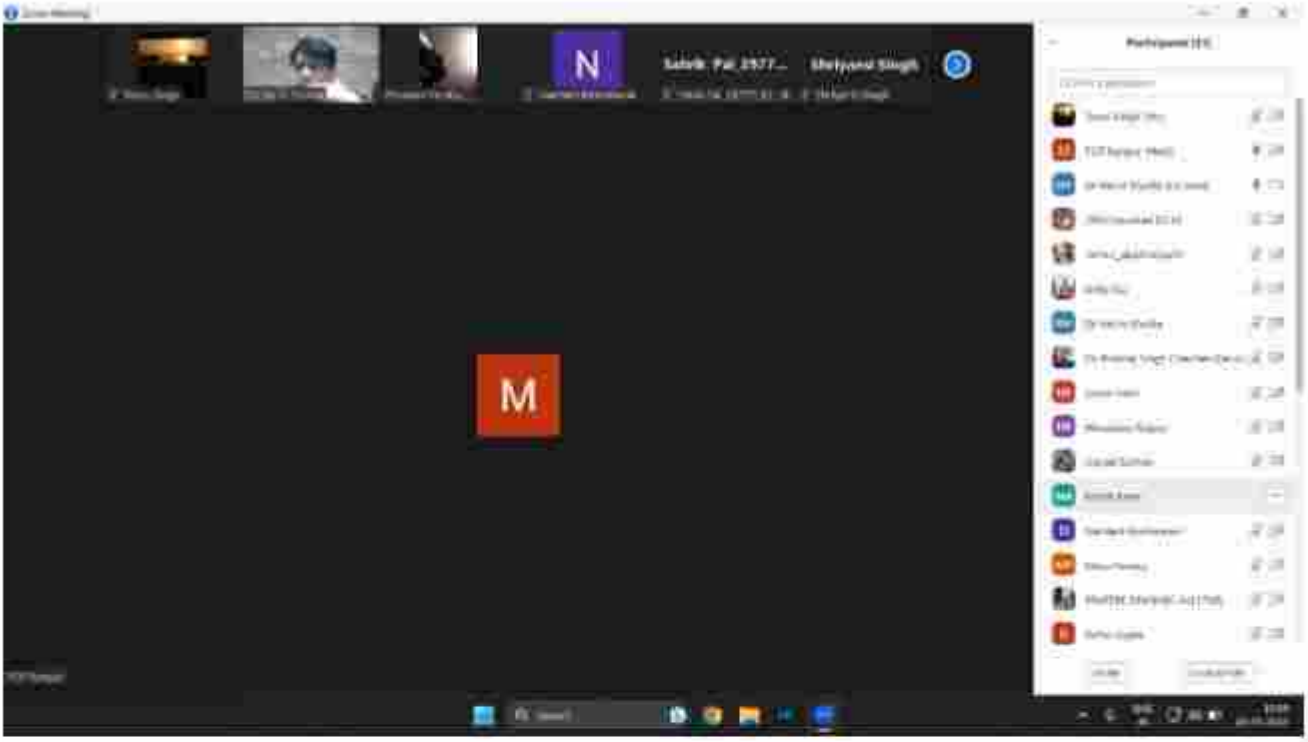
Faculty Coordinators:

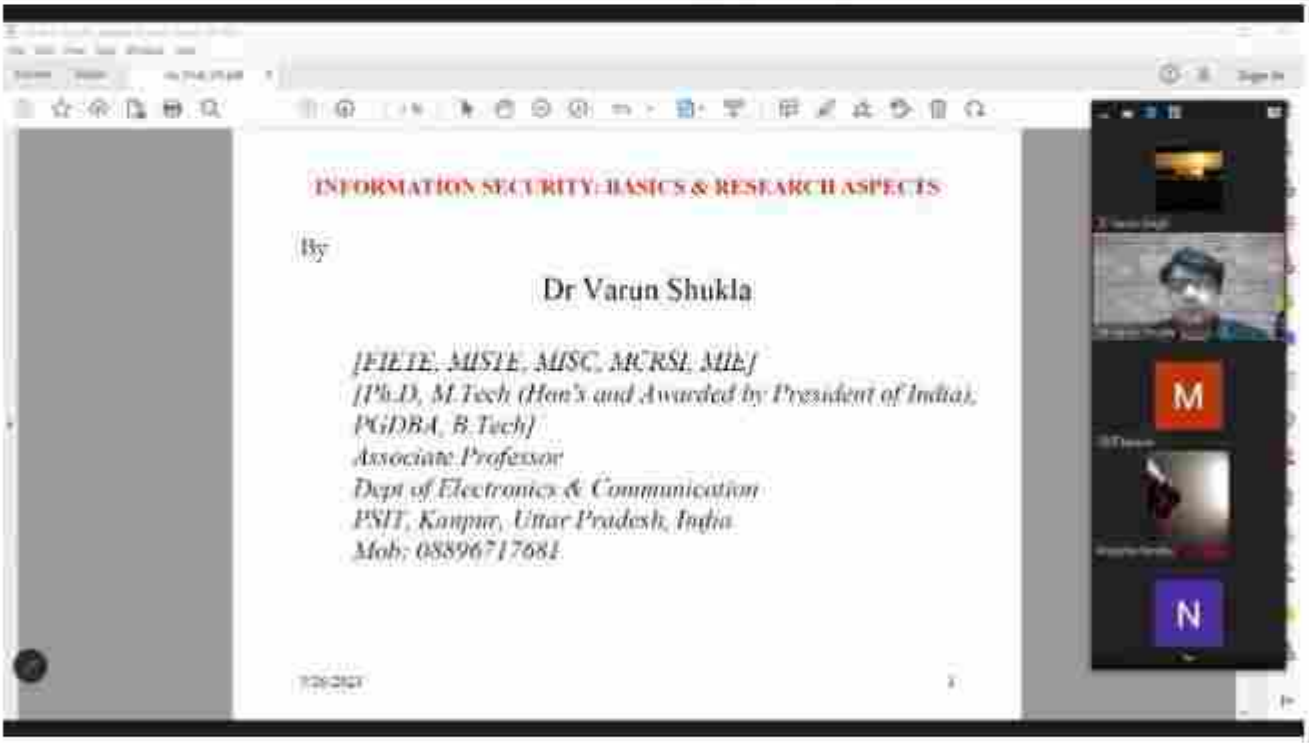
Dr. Shailendra Singh Dr. Puspraj Singh Mr. Ankit Jain

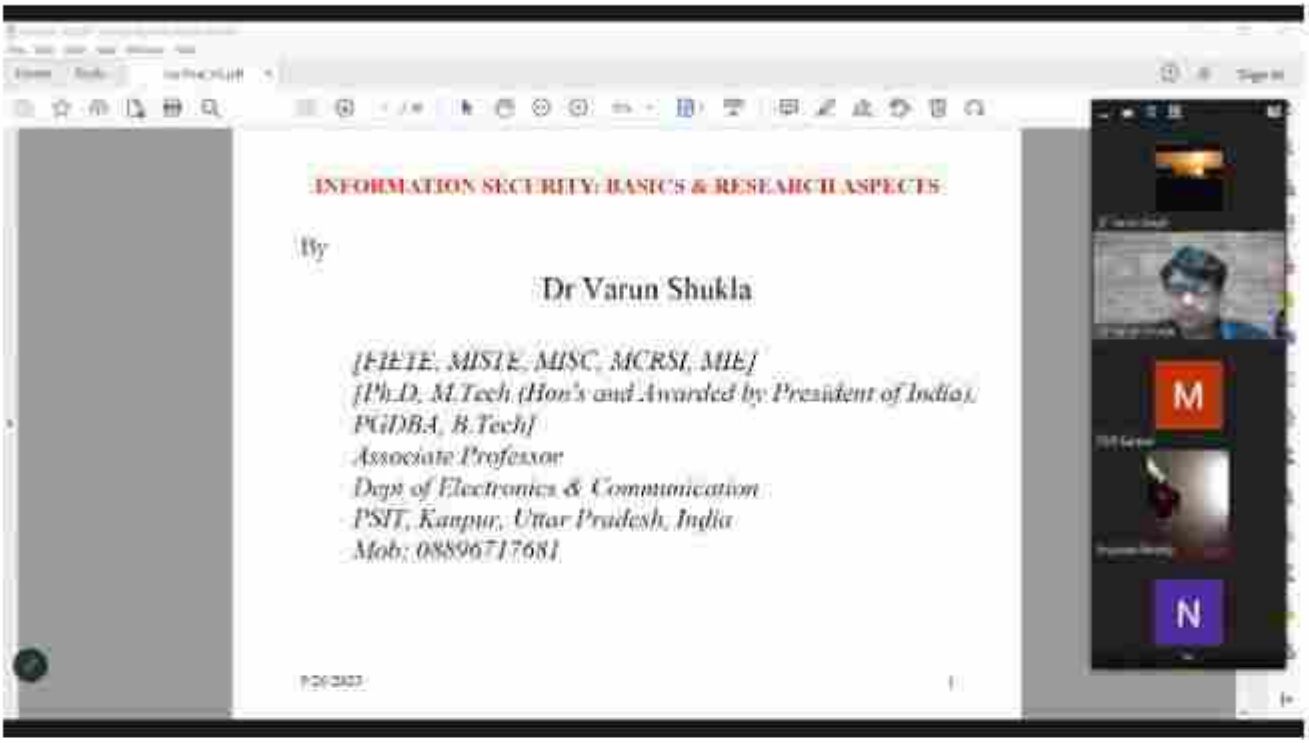
Gallery








INFORMATION SECURITY: BASICS & RESEARCH ASPECTS
By
Dr Varun Shukla
[FIETE, MISTE, MISC, MCRSI, MIE]
[Ph.D, M.Tech (Hon's and Awarded by President of India), PGDBA, B.Tech]
Associate Professor
Dept of Electronics & Communication
PSIT, Kanpur, Uttar Pradesh, India
Mob: 08896717681


INFORMATION SECURITY: BASICS & RESEARCH ASPECTS
By
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[FIETE, MISTE, MISC, MCRSI, MIE]
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PGDBA, B.Tech]
Associate Professor
Dept of Electronics & Communication
PSIT, Kanpur, Uttar Pradesh, India
Mob: 08896717681
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N


PSIT
Kanpur
INSTITUTION'S INNOVATION COUNCIL
SPICES
PSIT IoT Club
Organize
PSIT IoT Club
WEBINAR
INFORMATION SECURITY :
BASICS & RESEARCH ASPECTS
Friday, May 26, 2023
By
Dr Varun Shukla
Associate Professor
ECE Department, PSIT
6:00 PM - 7:00 PM | Zoom Platform
https://forms.gle/qRMEcqccyPkSG29Q6
Registration Link
For any query contact with Faculty Co-ordinators
Dr. Shailendra Singh | Dr. Puspraj Singh Chauhan | Mr. Ankit Jain | Mr. Shailendra Sinha #+91 9855366768
ECE, J-34, PSIT Campus

IoT Gems 1.0

Date: May 28, 2022 & 11 June 2022 **Duration:** College Hours

Objective: IoT–Gems 1.0: Offline Mode

Explore the exciting world of IoT with IoT–Gems 1.0 at Pranveer Singh Institute of Technology, Kanpur. This offline training program, conducted by the IoT Club, is designed to equip students with essential skills in embedded systems and the Internet of Things.

Session 1 – May 28, 2022 (Saturday): ***Introduction to Internet of Things***

- Introduction to IoT
- Applications and Scope of IoT in smart cities projects
- Basics components of IoT Model (Microcontroller, Sensors, Arduino Microcontrollers & Platform, Basic microcontroller programming) *Duration:* 1 Hour *Resource Person:* Mr. Sailendra Sinha

Session 2 - May 28, 2022 (Saturday): Sensors, Modules, and Other Components

- Familiarization with IoT concepts and Arduino
- Introduction to Arduino and Node MCU
- Basic Arduino programming and concepts (PWM, Relay, Push button, Buzzer) *Sensors Interfacing*

- Temperature Sensor, LDR, Flame Sensor, Ultrasonic Sensor, Occupancy Sensor *Introduction of All in One Kit for Embedded and IoT Application Duration:* 4 Hours *Resource Person:* Mr. Ankit Jain

Session 3 - June 11, 2022 (Saturday): *Concept of Robotics with IoT*

- Motor driver (L293D & L298)
- DC Motor, Servo Motor
- Speed and direction control of DC motor via IoT *Bluetooth Interfacing*
- Home automation using Bluetooth *Development of Android Application*
- Wi-Fi-based projects with server and Android application *Sending Sensor Data to the Server*
- Live demo and explanation of IoT-based projects *Bluetooth-Based Project*

Volunteers:

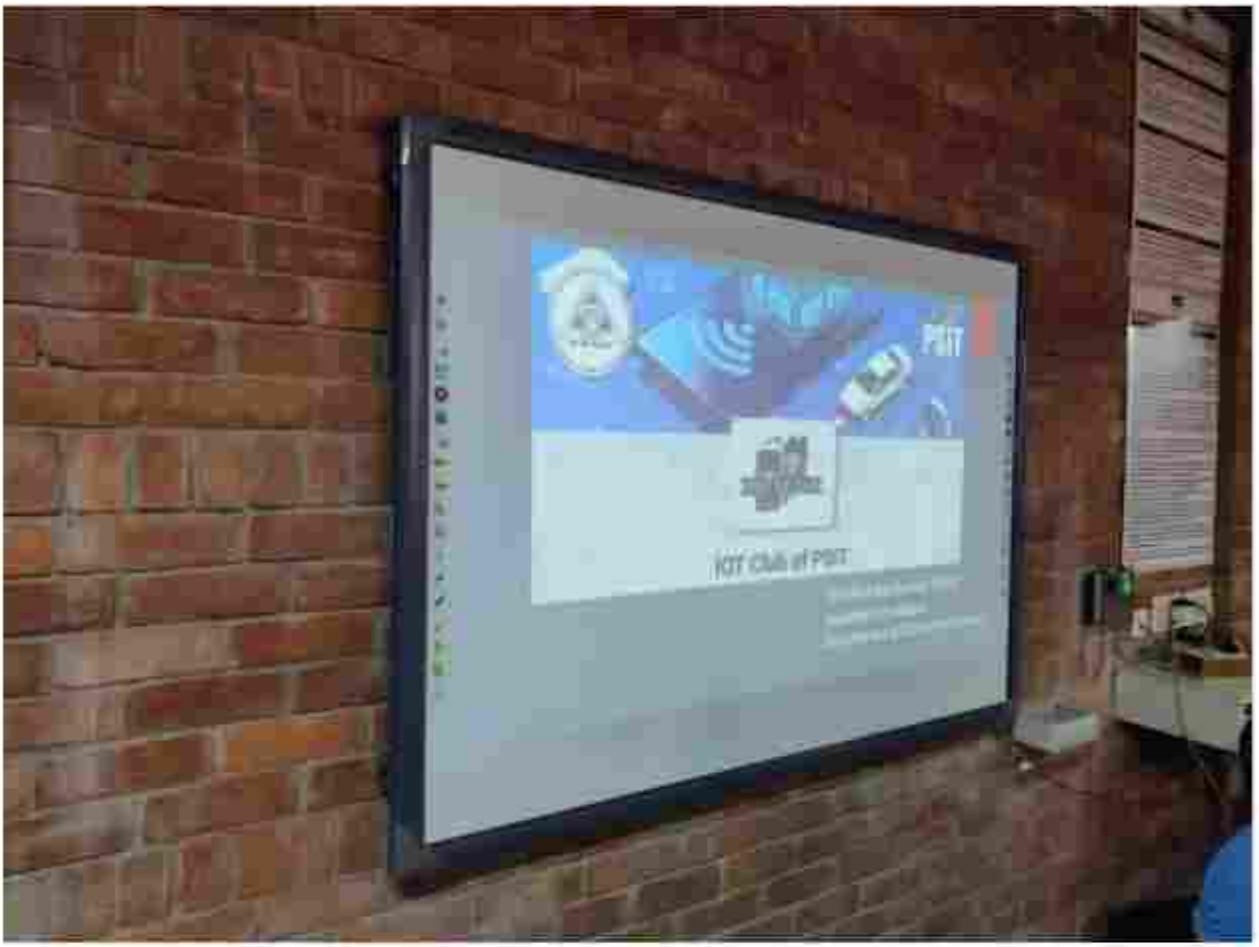
Prateek Singh/ Vidushi
Ankit kumar Jha/Shanu Ahmad
Yash Paras Singh// Pragati Rajpoot

Total participants: 34

Faculty Coordinators:

Dr. Shailendra Singh **Dr. Puspraj Singh** **Mr. Ankit Jain**

Gallery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IOT Club of PSIT

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Kanpur
www.psit.ac.in

A QUIZ ON IOT
[INTERNET OF THINGS]

Gems 1.0

Winners of Round -1

Divyanshu Dubey
Nadeem Ahmed Ansari
Abhay Bhadauria
Abhay Gupta
Anubha Singh
Ashish Shukla
Sumit Singh
Renu
Amisha Kushwaha
Krati Saxena
Richa Trivedi
Lucky Yadav
Riya Keshri
Sudhanshu Ranjan Dwivedi
Kriti Nigam
Pawan Kumar Gupta
Addwit Saxena
Rahul Awasthi
Mahima Shahi
Saumya Gupta
Harsh Chauhan
Harsh Batham
Manya Tripathi
Ankit Kumar Singh
Shreya Mishra
Avinash Singh
Unnati Mishra
Stuti Ojha
Nidhi Gupta
Naman Kushwaha
Nitya Priya Agarwal
Shreya Srivastava
Meenu Singh
Nikita Sonker

Faculty Co-ordinators
Dr. Shailendra Singh | Dr. Pushpa Raj Chauhan | Mr. Shailendra Sinha | Mr. Ankit Jain
J-34, PSIT Campus

PSIT
Kanpur

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A QUIZ ON

IOT

[INTERNET OF THINGS]

Gems 1.0

OFFLINE MODE TRAINING MODULE

Saturday, May 28, 2022

- Introduction to Internet on Things
- Sensors, Modules and Other Components
- Sensors Interfacing
- Introduction of all-in-one kit for Embedded and IoT Application

Saturday, June 11, 2022

- Concept of Robotics with IoT
- Blue Tooth Interfacing
- Development of Android Application
- Sending the Sensor Data to the Server
- Live Demo and Working Explanation of IoT based Projects
- Bluetooth Based Projects
- Sensor Based Projects

Faculty Co-ordinators

Dr. Shailendra Singh | Dr. Pushpa Raj Chauhan | Mr. Shailendra Sinha | Mr. Ankit Jain

J-34, PSIT Campus

IoT Gems 2.0

Date: 10 and 24 September 2022 **Duration:** College Hours

- **Event Overview:**

- **Session 1 - September 10, 2022 (Saturday): Introduction to Internet of Things**

- Embark on an enlightening journey with Mr. Sailendra Sinha:
- Gain insights into the fundamental concepts of IoT.
- Explore the diverse applications and vast scope of IoT within smart cities projects.
- Unpack the building blocks of the IoT Model, including Microcontrollers, Sensors, Arduino Microcontrollers & Platform, and Basic microcontroller programming.

- **Session 2 - September 24, 2022 (Saturday): Sensors, Modules, and Other Components**

- Dive into the practical side of IoT and Arduino with a session featuring:
- Familiarization with essential IoT concepts and Arduino.
- Introduction to Arduino and Node MCU.
- Grasp basic Arduino programming techniques and key concepts such as PWM, Relay, Push button, and Buzzer.
- Engage in hands-on Sensors Interfacing.

- Join us for IoT–Gems 2.0 as we not only unravel the intricacies of IoT but also empower students with the knowledge and practical experience essential for success in embedded systems and IoT.

Volunteers:

Prateek Singh/ Vidushi

Ankit kumar Jha/Shanu Ahmad

Yash Paras Singh// Pragati Rajpoot

Faculty Coordinators:

Dr. Shailendra Singh Dr. Puspraj Singh Mr. Ankit Jain

Total participants: 50

Gallery

Sponsored By

AICTE - SPICES (Scheme for Promoting Interests, Creativity and Ethics among Students)

OFFLINE MODE TRAINING MODULE

September 10, 2022

- Introduction to IoT
- Arduino, Node Mcu
- Sensors Interfacing and its module
- Installation of necessary software

September 24, 2022

- Concept of Robot through RF communication
- Blue Tooth Interfacing
- Sending the Sensor Data to the Server
- Live Demo and Working Explanation of IoT based Projects
- Bluetooth Based Projects
- Sensor Based Projects

Faculty Co-ordinators

Dr. Shailendra Singh | Dr. Puspraj Singh Chauhan | Mr. Ankit Jain | Mr. Shailendra Sinha

ECE, J-34, PSIT Campus

www.psit.ac.in


INSTITUTION'S INNOVATION COUNCIL
PSIT Kanpur
SPICES
A QUIZ ON
IOT
[INTERNET OF THINGS]
FOR SPECIALIZED HANDS-ON TRAINING ON SMART IoT BASED SYSTEMS
Sponsored By : AICTE - SPICES (Scheme for Promoting Interests, Creativity and Ethics among Students)
www.psit.ac.in
Quiz Date: September 1, 2022 | Time: 1:00 pm - 1:20 pm
Registration Link: https://forms.gle/SmNY1nT3pdngEnyj9
Registration Link
Last Date of Online Registration : August 30, 2022
Test Venues: J-34 to J36, L-31 to L-34
For any query contact with Faculty Co-ordinators
Dr. Shailendra Singh | Dr. Pusparaj Singh Chauhan | Mr. Ankit Jain | Mr. Shailendra Sinha
ECE, J-34, PSIT Campus

AICTE - SPICES (Scheme for Promoting Interests, Creativity and Ethics among Students)

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WINNERS

FOR IOT GEMS 2.0 OFFLINE TRAINING

Sl	NAME	ROLL NO.	Sl	NAME	ROLL NO.
1	Aayushman Mishra	2101641550002	26	Aadya Tiwari	2001641530001
2	Aditya Chopra	2101641550011	27	Akash Tripathi	2001641530006
3	Aditya Singh	2101640310005	28	Alok Mishra	2001640310009
4	Aman Tiwari	2101640140010	29	Arpit Singh	2001641550008
5	Ankit Jain	2101641530028	30	Bhaskar Kulshrestha	2001641530020
6	Ankit Kumar Jha	2101640310071	31	Harsh Asthana	2001641520024
7	Anuj Agnihotri	2101641550021	32	Harsh Singh	2001641550015
8	Arin Paliwal	2101641530038	33	Harshit Awasthi	2001640210012
9	Arpita Shukla	2101640310019	34	Khushi Tripathi	2001641550019
10	Ashumendra Singh	2101640310020	35	Manasvi Singh	2001641550020
11	Ashutosh Pandey	2101641530046	36	Nahid Anjum	2001641540035
12	Aviral Nagar	2101641550031	37	Nitya Priya Agarwal	2001640310059
13	Ayushi Singh	2101641520041	38	Parth	2001640210020
14	Gaurang Dwivedi	2101641550039	39	Pranjul Nigam	2001640310062
15	Kaushik Jaiswal	2101643105002	40	Prateek Verma	2001641540039
16	Mohammad Ahsan Reza	2001640310052	41	Rishita Pathak	2001640310071
17	Nikhil Singh	2101640310047	42	Sakshi Singh	2001641550029
18	Prachi Pandey	2001641550022	43	Shanu Ahamad	2001640310083
19	Pranjali Bajpai	2101641530113	44	Shivanshu Pal	2001640310088
20	Prateek Dubey	2101640310052	45	Shreya Gupta	2001640100246
21	Renu	2001640310069	46	Siddharth Maurya	2001640100257
22	Shivangi Chaudhary	2101641540084	47	Sneha Awasthi	2001640310102
23	Siddhant Shukla	2101641520138	48	Stuti Sharma	2001641550035
24	Sonali	2101641550076	49	Swastika Gupta	2001640310111
25	Vikas Verma	2101641530168	50	Yashkumar	2001640310121

Wait List: Adarsh Nigam (2101641550010), Ashwani Kushwaha (2001640310028), Divyanshu Tripathi (2101641520055), Himanshi Singh (2101641520074), Naman Kushwaha (2001640310056), Neil Henry Paul (2001641530038), Rahul Gupta (2101640310056), Shubhi Gupta (2101641540090), Sunidhi Purwar (2001641550036), Swamim Gupta (2001640310110), Vaibhav Yadav (2101640310051), VivekKumar Mishra (2101641530172)