WORKSHOP ON "IOT FOR BEGINNERS"

Event No	EC066
Organizing Department	Electronics and Communication Engineering
Associate Dept. | NSC	Special Laboratories
Date	25/04/2023
Time	10:00 AM to 03:30 AM
Event Type	ISR Activity
Event Level	Inter-School
Venue	Centre for IoT
Registration Link	https://bit.ly/IOT-KPR
Total Participants	5
Other Participants	5

Related SDG

Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	JAKIR HUSSAIN G K	Assistant Professor (Sl.G)	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	jakirhussain@kpriet.ac.in	xxxxxxxxxx
2	Resource Person	SARAVANAN K	Assistant Professor (Sr.G)	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	saravanan.k@kpriet.ac.in	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	Indra J	Convenor
2	Jakir Hussain G K	Coordinator
3	Saravanan K	Coordinator

Outcome

The partcipants learned the basics of Internet of Things and facilities available in our institution for doing projects, etc.

Event Summary

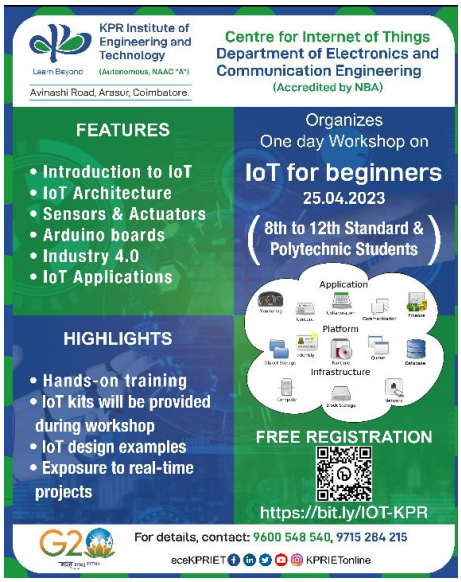
The training started with the introduction to Electronics, Micro processors, Micro controllers, Internet, Embedded systems, Internet of Things and its applications, continued the training with Micro controllers operation, Node MCU operation, sensor operation, transducer operation and programming.

The experts handled hands-on training with the sensors and transducers of IR sensor, ultrasonic sensor, temperature sensor, humidity sensor, Soil moisture sensor, Photodetector sensor, Potentiometer, DTH11 sensor, DTH22 sensor, servo motors.

The need of relays, its connection and operation and its usage, Arduino programming IDE, Arduino interfacing and configuration of sensors with Arduino software IDE. The real time implementation of IoT based projects.

The 4th industrial revolution (Industry 4.0) – Enhancing automation and connectivity with CPS. He also delved into industrial revolution 5.0, highlighting the emergence of human-robot collaboration, cognitive systems, and customization. Moreover, Mr. Pavithran discussed the cutting-edge technologies in industry 4.0, such as big data which is primarily refers to data sets that are too large or complex to be dealt with by traditional data-processing application software. Data with many entries (rows) offer greater statistical power, while data with higher

complexit, autonomous robot is a robot that acts without recourse to human . Then he spoke about simulator which is used to create an application for a physical robot without depending on the physical machine, thus saving cost and time. In some case, such applications can be transferred onto a physical robot (or rebuilt) without modification. integration, IoT, then cybersecurity is protecting an organization and its employees and assets against cyber threats.



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