Gandhinagar Institute of Technology

A Report on

"Aurdino Workshop"

(30th January 2020)

Workshop Overview:

Gandhinagar Institute of Technology's MWTC has organized the workshop on Aurdino for the students under the SSIP on 30/01/2020 from 9:00 am to 1:30 pm. Prof Jatin Chakravarti & Prof Ashish Pandya have conducted the workshop. There were total 30 participants in the workshop. The workshop provided an opportunity for students to know use of aurdino in various projects and programming using aurdino .

Objective:

The objective of the workshop was to educate the students about basics of aurdino. The silent objective was also to teach them the use of aurdino and programming of it. The workshop was organized to give them hands on experience.

Workshop Detail:

The Aurdino workshop was started with the first 30 registered participants at 9:00 am in A216. The partcipants were eager to learn the Aurdino technology. Prof Jatin Chakravarti has initiated the session with the basic information about Aurdino, its types, components etc. He shown the projects that can be made by using Aurdino. The information about how aurdino communicates the signal have been explained to the participants by him.

The SSIP cell has Arudino kits which includes different components & sensors. He informed participants that an Ultrasonic Sensor is a device that measures distance to an object using Sound Waves. It works by sending out a sound wave at ultrasonic frequency and waits for it to bounce back from the object. He added that The HC-SR04 is a typical ultrasonic sensor which is used in many projects such as obstacle detector and electronic distance measurement tapes.

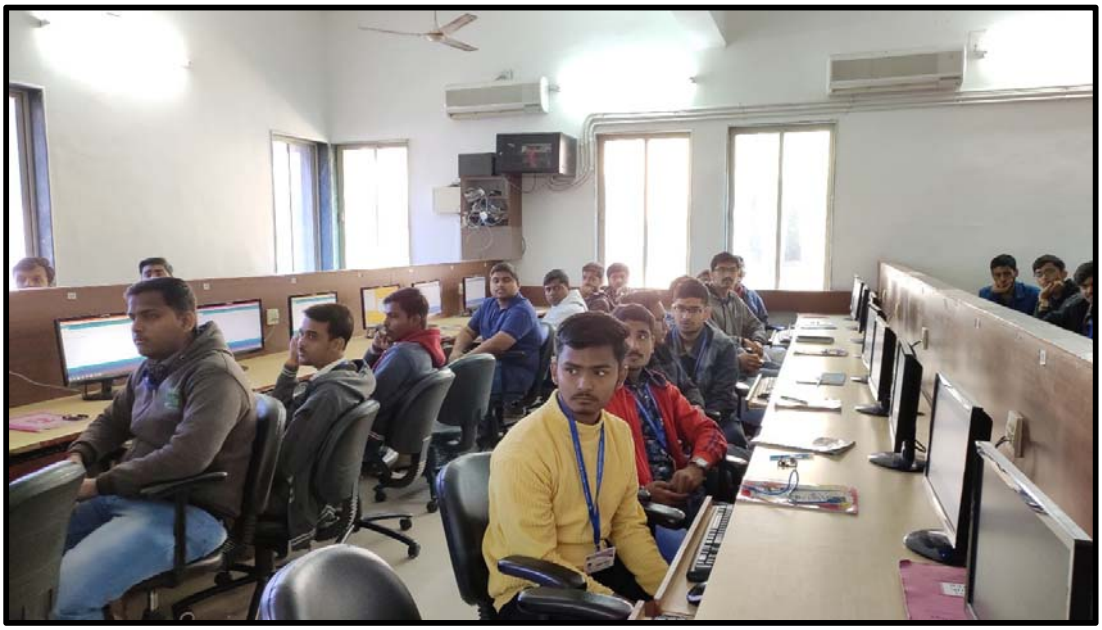
Prof Ashish Pandya have introduced Temperature Sensor Interfacing (LM35). He informed that LM35 is a simple analog temperature sensor, which will send serial information about the temperature that you can use on your system. He added that Arduino is considered one of the leading reprogrammable specifically operated microprocessor chips.

In the last session of workshop, participants were demonstrated the working of robotic arm developed using 3D printer run by mobile app using aurdino uno. The students were also educated about the aurdino programming of the same and the demonstration of other projects like running servo motor, rotation at desired degree, obstacle bipping, liquid level measurement etc. by the expert faculties. In the session they were given aurdino kits with sensors and all necessary components & asked to make a simple project to have experience of aurdino.

The event was a grand success under the enlightenment of Dr H N Shah, Director of the institute and the participants.

Photo Gallery:

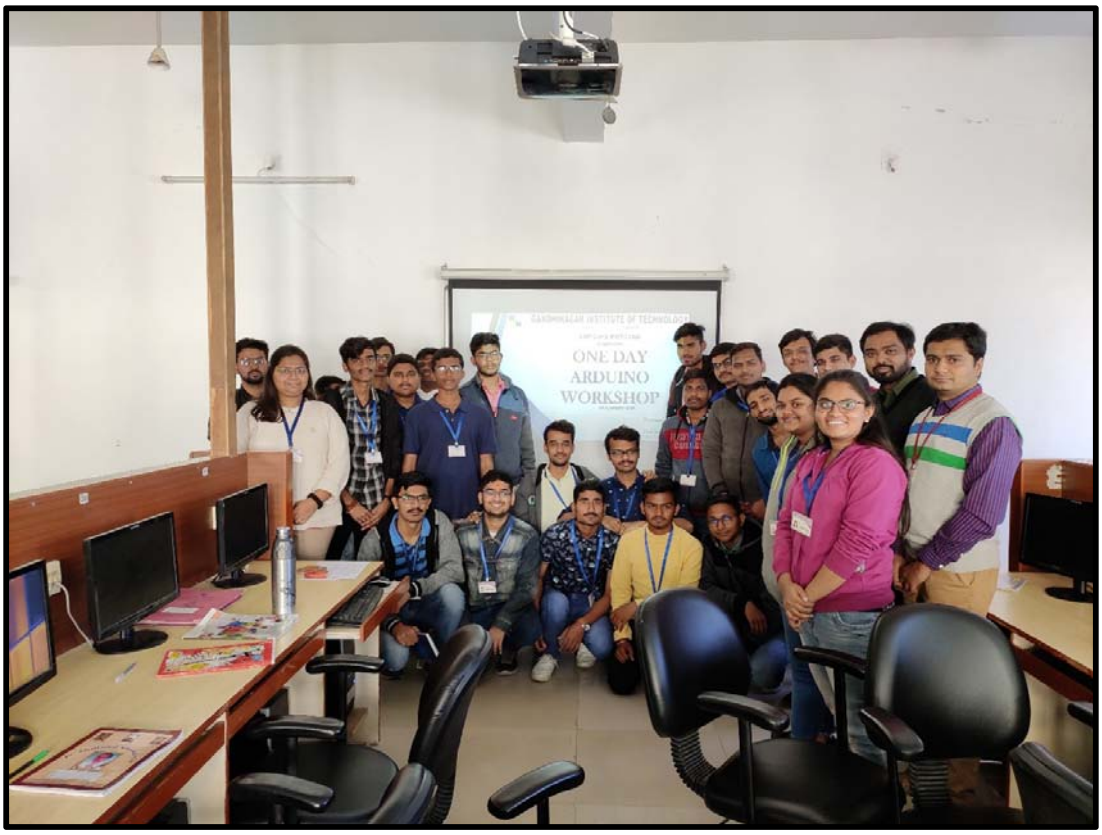
Mentor delivering session



Students engaged in the session;

Expert addressing queries;

Participants preparing aurdino project;



Group Photo