Rajeev Institute of Technology

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Mrs. Ambika K
Asst. Professor, E&CE

Greetings from Department of Electronics and Communication Engineering

Dear Sir/Madam,

We are delighted to inform you that the technical club of Department of Electronics and Communication Engineering "***ELECTRORIT***" is organizing a two day workshop on "***Arduino and Applications of IOT***" in association with ***Pincore Technologies India Pvt. Ltd.*** on 15th and 16th February 2019. This workshop is intended to provide an insight in the field of IOT applications and implementation using arduino for the third year students of E&CE.

We cordially invite the HOD's and Faculty members of Rajeev Institute of Technology to join the inaugural function that will be held on 15th February at Seminar Hall, 4th Floor at 9.30am.

With Warm Regards,
HOD & Faculty Members, Dept. of E&CE

Two day Workshop on
"Arduino and Applications of IOT"

Overview

Embedded system is part and parcel of every-day life. For beginners, several development boards are available. Arduino is one of them. It can be used for science projects, final year UG projects and to build application modules.

Course Objective:

- To introduce the vastness of Embedded systems in real world applications.
- To construct an Arduino basic circuit.
- To program and compile various tasks and applications using Arduino.
- To provide participants with the knowledge to develop and build their own embedded system applications.

Learning Outcome:

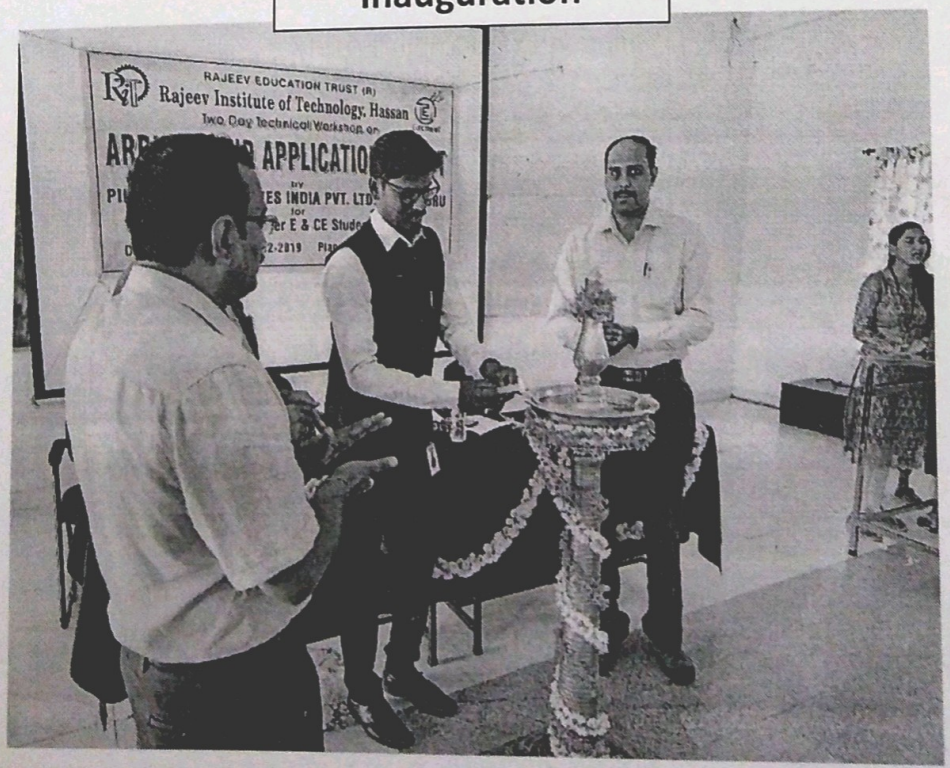
- Obtained good understanding of microcontroller and its applications.
- Using of Integrated development environment for Arduino and debugging.
- Confidently construct and troubleshoot a microcontroller based applications like controlling relays, motor drives, IR sensor, ultrasonic sensor, light intensity control etc.
- Building a cost effective embedded application using various sensors.

Time	Topic	Comments
Day 1 (15-02-2019)		
Morning session		
9:30am-10:30am	**Inaguration**	
10:30am-10:45am	***Tea break***	
10:45am-1:00pm	Introduction to the Embedded Systems	Introduction to the Embedded Systems and Arduino
	Introduction to Arduino	
	Arduino IDE-Programming	
1:00pm-2:00pm	***Lunch break***	
	Afternoon Session	
2:00pm-3:30pm	Blink an LED	Practical sessions
	Making alarm with Buzzer	
3:30pm-3:45pm	***Tea Break***	
3:45pm-5:00pm	Turn on/off LED and Buzzer	Sensor interface
	IR sensor	

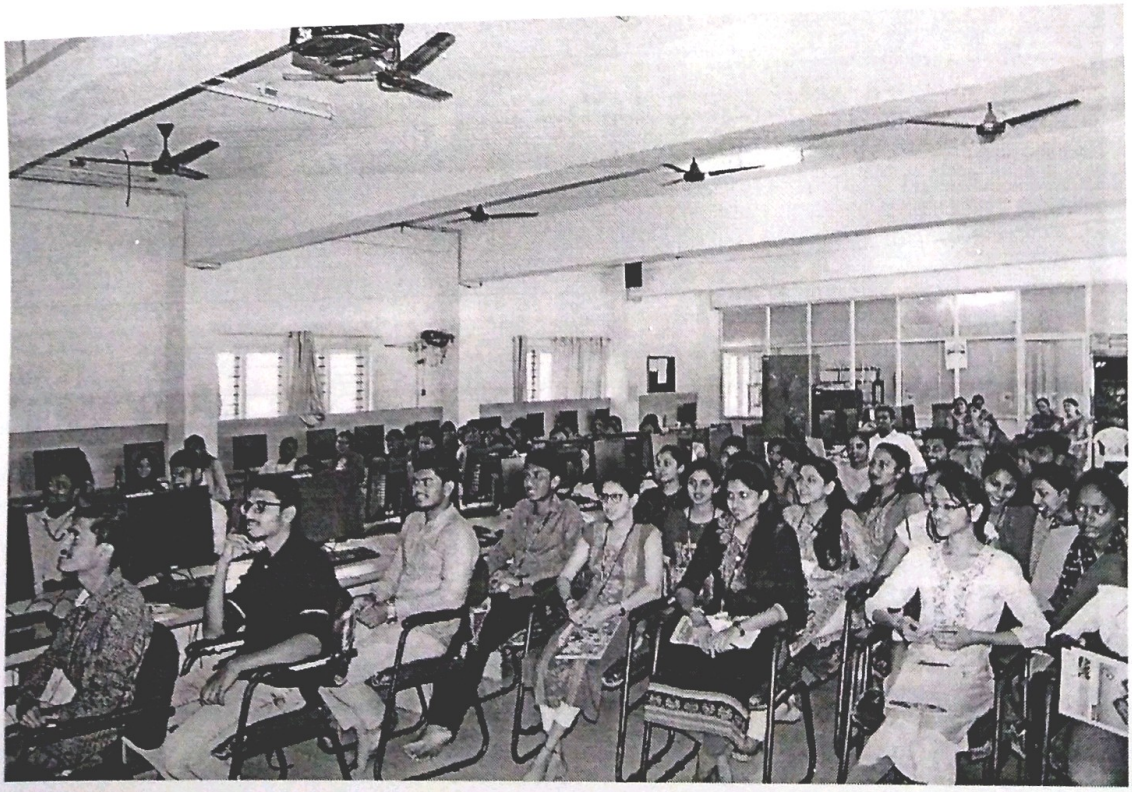
Day 2 (16-02-2019)		
Morning session		
9:30am-11:15am	Brief explanation of Analog and Digital Sensors	Practical sessions
	LDR sensor (Using analog pins)	
	Potentiometer	
11:15am-11:30am	***Tea break***	
11:30am-1:00pm	Motor Drivers	Practical sessions & IOT
	Introduction to IOT, Cloud	
1:00pm-2:00pm	***Lunch break***	
Afternoon session		
2:00pm-3:00pm	**Demonstrations**	Demonstrations
	Measuring room temperature using ESP8266 and Thingspeak	
3:00pm-3:30pm	**Valedictory & High-Tea**	

Resource Persons
Mr. Chiranth and Team Pincore Technologies India Pvt. Ltd. #10/1, 1st Main 7th Cross Sanjeevini Nagar Bangalore 72

Inauguration



Hands-on sessions



Presenting memento during valedictory

Group photo during valedictory