

**A brief report of a Two Day workshop on “Arduino” organized by Department
Electronics & Communication Engineering
on 27th & 28th March, 2017 (Monday & Tuesday)**

A **Two Day** workshop on **Arduino** was organized by **Department of Electronics & Communication Engineering, PCE** on **27th & 28th March, 2017**. The workshop was organized for II Yr (IV Sem.) students. **62** students of II Year- ECE actively participated in the workshop.

The main objective of this workshop was to provide the fundamental knowledge of Arduino Processor with hands on practice. The topics covered in the workshop include – Hardware and Software Programming. The outcome of the workshop was in the form of implementation of a sample working project.

The workshop was conducted by external training agency **The Smart Techies P. Ltd., JAIPUR** and the main trainer was **Mr. Aditya SG Vyas, Team Lead in The Smart Techies P. Ltd** during the workshop.

The inaugural ceremony of the workshop witnessed the presence of **Dr. Om Prakash Sharma, Director PCE**, along with the faculty and staff members of Department of ECE, PCE.

Dr. Garima Mathur, HoD, ECE Department formally welcomed the dignitaries and experts from **The Smart Techies P. Ltd JAIPUR** in his opening address. She also gave the introduction to the workshops with schedule and contents to be covered in the workshop.

Dr. Om Prakash Sharma, Director PCE in his motivational address emphasized upon the importance of learning new technologies and tools for the students. He also highlighted the vast scope of **Arduino** Processor with hands on practice.

Mr. Aditya SG Vyas, Team Lead in The Smart Techies P. Ltd highlighted the technical details of the workshop in his address.

Mr. Manish Kumar Sharma Asst. Prof. proposed the vote of thanks to all dignitaries present, guests and participants.

Department of Electronics & Communication Engineering

A Two day Workshop on “Arduino Workshop”

27th – 28th March, 2017

Faculty Coordinator: - Mr. Manish Kumar Sharma, Mr. Murari Kumar & Mr. Deepak Sharma (Asst. Prof. – ECE)

Workshop Trainer: Mr. Aditya SG Vyas, Team Lead in the Smart Techies Pvt. Ltd. Jaipur

Q-Sheet

S. No.	Programme	Duration	Time
1	Reporting of the students and faculty coordinators	15 min.	8:30 to 8:40 AM
2	Arrival of Dignitaries & Seating		8:40 to 8:45 AM
<u>Inaugural Session</u>			
3	Introduction of the workshop and inaugural speech by Dr. Garima Mathur, HOD, ECE Department	5 min.	8:45 to 8:50AM
4	Words of wisdom and blessings by Dr. Om Prakash Sharma Director, PCE	5 min.	8:50 to 8:55AM
Day-1 (27-03-2017)			
Workshop Session - I (Introduction to Arduino Hardware & Programming) Venue: WL-01 (Attendance on session opening) Timing: 9:00 AM to 12:00 Noon			
5	1. Introduction to Microcontroller and Arduino Integrated Development Environment (IDE) 2. Introduction to Arduino Hardware 3. Programming Arduino- Basic Input and Output 4. Programming LED as Output Device and Switches as Input Device along with Hardware Implementation 5. Introduction, Programming and Hardware Implementation of Relays to control AC and DC Appliances	160 min.	9:00 – 11:40 AM
6	Queries + Session-I Closing	20 min.	11:40 AM to 12:00 Noon
Lunch Break (30 Minutes : 12:00 Noon to 12:30 PM)			
Day-1 (27-03-2017)			
Workshop Session–II: Arduino Programming. (Attendance on session opening) Timing: 12:30 PM to 3:45 PM			
7	6. Introduction to Analog to Digital Conversion using Arduino 7. Program and Hardware interfacing of LDR/IR Sensor 8. Serial Communication- Introduction and Interfacing to Send and Receive data from Computer	165 min.	12:30 to 3:15 PM
9	Queries + Session-II Closing	30 min.	3:15 to 3:45 PM
Day-2 – 10-02-2017			
Workshop Session - III - Arduino Programming (Attendance on session opening)Timing: 8:30 AM to 11:00 PM			
10	9. Bluetooth Module (HC-05) Interfacing to control Home Appliances using Mobile App (BlueTerm)	60 min.	8:30 to 9:30 AM
11	Queries + Session-III Closing	20 min.	9:30 to 9:50 AM
12	Review Assignment & Google Assignment Sheet (For Student)	60 min.	9:50 to 10:50 AM
15	Vote of Thanks by Mr. Manish Kumar Sharma Asst. Prof. – ECE	10 min.	10:50 to 11:00 AM

