



Workshop Report

on

ArdYouKnowledge

Organized by

Electronics & Communication Engineering Department

On

30th & 31st January, 2014 (09:00 AM to 04:30 PM)

With the blessings of Almighty, EC Department of Babaria Institute of Technology had organized an workshop "ArdYouKnowledge" for 6th Sem EC students under ISTE (Indian Society for Technical Education) on Arduino Development Boards, associated Programming Practice and Interfacing of board with different peripherals.

Committee Designation	Name
Chief Patrons	Hon. Shri. J.D. Patel ,Chairman
	Shri. D. J.Patel, Vice Chairman
	Shri.S.K.Patel ,Campus Director
Patrons	Dr. P.B.Vyas, Principal,BIT &
	Dr.S.K.Agrawal, Dean
Conveners	Dr.Jaymin Bhalani, H.O.D, EC Dept
	Prof.Saurabh Shah,H.O.D, 2 nd Shift EC Dept
Staff Coordinators	Prof.S.Suganthi
	Prof.Swarup Pal
	Prof.Rita Aggarwal
Student Coordinators	Mr.Udit Jeswani
	Mr.Nabil Gandhi
	Ms.K.S.Asha

Executive Committee of the Workshop

Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. It's intended for artists, designers, hobbyists, and anyone interested in creating interactive objects or environments. Arduino can sense the environment by receiving input from a variety of sensors and can affect its surroundings by controlling lights, motors, and other actuators. The microcontroller on the board is programmed using the Arduino programming language (based on Wiring) and the Arduino Development environment (based on Processing). Arduino projects can be stand-alone or they can communicate with software running on a computer

The expert for the workshop was Prof.Jignesh Patoliya from Chandubhai S Patel Institute of Technology, CHARUSAT. He was assisted by Mr.Hardik Mandani, GEC Modasa in handling the lab sessions for students.The workshop was scheduled for two days i.e. 30th Jan 2014 & 31st Jan 2014.The topics covered in this workshop were Basic electronic components on board and their working principle, Basics of Microcontrollers, Arduino- Open Hardware, Arduino C, Hands-on-experience and Interfacing Arduino Environment.

<u>Highlights of the workshop</u>

Day 1

Introduction to Arduino C, basic components on the board, LED, Buzzer, Serial Port, Seven Segment, ADC & LDR interfacing and programming.

Day 2

Push button, PWM, LCD, EEPROM, 4*4 Keypad, DC Motor, Stepper Motor & Relay Interfacing and Programming.

Workshop was attended by **80 student** participants. The overall enthusiasm shown by the students throughout the workshop is highly appreciable. The coordination efforts taken by student coordinators are worth mentioning. Certificates were also given to all student participants of the workshop.

Executive committee along with experts and student participants

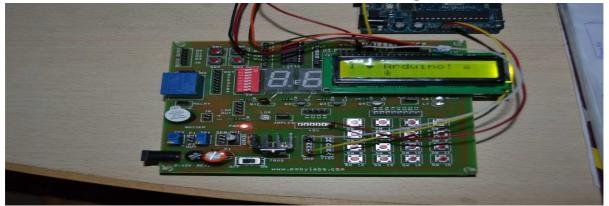




Expert's interaction with students during the workshop



ARDUINO Kit used in the workshop



Software Environment

