

Department of Electrical Engineering

15 -JAN -2020

CIRCULAR

VALUE ADDED COURSE (Arduino 1.0)- B.Tech. EE/EC

Students of B.Tech. (EE/EC) all years are hereby informed that value added course "Arduino 1.0" is scheduled from 10 February 2020 in your respective classroom, Academic Block-II.

Schedule:

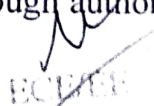
- Time Slot: 03:00 PM to 05:00 PM
- Key Speaker: Dr. Ankur Rai
- Duration: 2 hrs

Program Overview:

Arduino is an open-source hardware and software company, project and user community that designs and manufactures single-board microcontrollers and microcontroller kits for building digital devices. Its hardware products are licensed under a CC-BY-SA license, while software is licensed under the GNU Lesser General Public License or the GNU General Public License, permitting the manufacture of Arduino boards and software distribution by anyone. Arduino boards are available commercially from the official website or through authorized distributors.



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Head
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Mr. Moni Prakash Upadhyay

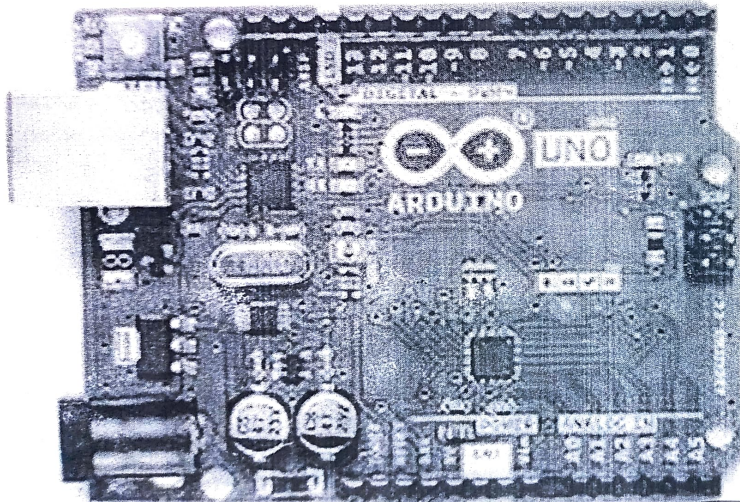
(HOD)



Mr. Moni Prakash Upadhyay
Invertis University
Bareilly

VALUE ADDED COURSE (Ardunio 1.0)

Program:-B.TECH.



03:00 PM TO 05:00 PM



10February 2020 -15 March 2020

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Bareilly 243123 UP

HOD:

MR. MON PRAKASH UPADHYAY

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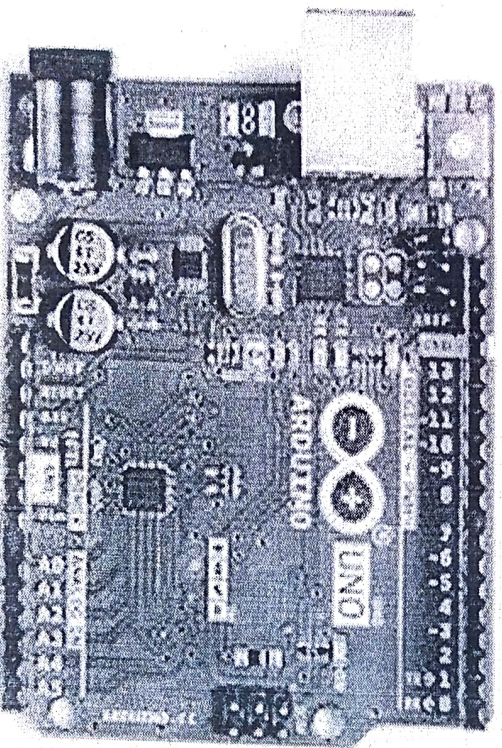
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KEY SPEAKER :
Dr. Ankur Rai

VALUE ADDED COURSE (Arduino 1.0)

PROGRAM OVERVIEW:

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Value Added Course

Course Details:

Name of the Course: - Arduino 1.0
Course Offered to- B.Tech (EC and EE)
Course Coordinator: - Dr. Ankur Rai

Course Code -EEC02
Course Duration - 36Hrs

OBJECTIVE:

There is the following objective that we will cover in this course;

- Program an Arduino microcontroller
- Interface an Arduino with analog and digital sensors (detecting things like light, noise, or pressure)
- Use software libraries to control motors, lights, sounds, and more
- Apply key concepts for prototyping from TinkerCad (such as basic electronics, and project-based learning)

PRE-REQUISITE(s):

Basic skills and understanding of C programming, Basic Electronics Knowledge

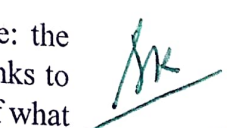
OVERVIEW:

Arduino is an open-source hardware and software company, project and user community that designs and manufactures single-board microcontrollers and microcontroller kits for building digital devices. Its hardware products are licensed under a CC-BY-SA license, while software is licensed under the GNU Lesser General Public License or the GNU General Public License, permitting the manufacture of Arduino boards and software distribution by anyone. Arduino boards are available commercially from the official website or through authorized distributors.

Why takes this course?

- it's **open-source**: the source code and electronic diagrams of Arduino software and hardware are open-source.
- it's well documented: the use of all the code which can be used with Arduino are detailed in an online reference www.arduino.cc/reference/en/
- This means that once you learn the basics, you can use these resources to do more advanced things without much extra guidance!
- it's relatively inexpensive: the price of an official Arduino board called Arduino UNO is about rupees 300 only.
- it's used by a large community. This reinforces the second point above: the growing number of people using this platform is an undeniable asset. Thanks to the power of the Internet, it is possible to find documentation and tutorials of what others have used Arduino for, such as smart objects for your home, smart clothing, art installations...


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What you will learn in this course:

- Understand what an Arduino is and how it works
- Learn how to use an Arduino safely
- Program your Arduino using code that you've written in the Arduino IDE (Integrated Development Environment)
- Learn programming concepts using C and C++ along with Arduino specific programming
- Understand best practice concepts for programming and prototyping
- Use a wide variety of hardware and components and prototype your projects using a breadboard
- Build your own innovative project with Arduino

Who this course is for:

- Anyone whom would like to get started with digital electronics and build their own projects.
- Those who are willing to learn extra apart from the regular defined course.

Faculty for the Course:

Dr. Ankur Rai

Course Outline:

	Topic	No. of hours allocated
Module 1	Getting started with Arduino	6
Module 2	LEDs	5
Module 3	Serial Monitoring	5
Module 4	Digital Inputs	5
Module 5	Analog Inputs	5
Module 6	LCD Display	5
Module 7	Servo Motor	5

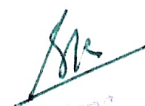

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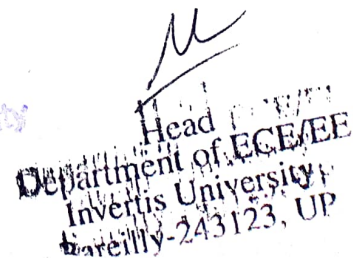
VALUE ADDED COURSE				
COURSE NAME		ARDUNIO 1.0		
COURSE CODE		EEC02		
DURATION		36 Hrs.		
LIST OF ENROLLED STUDENTS				
SNO.	ROLL NO.	NAME	YEAR	PROGRAM
1	BEC2017001	MOHD SAHIL SIDDIQUI	2019-20	B.TECH.(EE/EC)
2	BEC2017002	VIPIN KUMAR	2019-20	B.TECH.(EE/EC)
3	BEC2017003	SOHIT RATHOURE	2019-20	B.TECH.(EE/EC)
4	BEC2017004	AKANSHA SINGH	2019-20	B.TECH.(EE/EC)
5	BEC2017005	KUSHAGR KISHORE	2019-20	B.TECH.(EE/EC)
6	BEC2017007	MOHD SAQUIB	2019-20	B.TECH.(EE/EC)
7	BEC2017008	ROHIT PASWAN	2019-20	B.TECH.(EE/EC)
8	BEC2017009	MOHIT TIWARI	2019-20	B.TECH.(EE/EC)
9	BEC2017010	AGMAN SHUKLA	2019-20	B.TECH.(EE/EC)
10	BEE2017001	ASHISH GOUR	2019-20	B.TECH.(EE/EC)
11	BEE2017002	SANDEEP GUPTA	2019-20	B.TECH.(EE/EC)
12	BEE2017003	SHARIK	2019-20	B.TECH.(EE/EC)
13	BEE2017004	SHADAN ALI AHMED	2019-20	B.TECH.(EE/EC)
14	BEE2017005	MOHD ALYASA KHAN	2019-20	B.TECH.(EE/EC)
15	BEEE2017002	RITIK SRIVASTAVA	2019-20	B.TECH.(EE/EC)
16	ET2016001	MD AMAN ANSARI	2019-20	B.TECH.(EE/EC)
17	EE2016004	ABHISHEK JAISWAL	2019-20	B.TECH.(EE/EC)
18	EE2016002	AMAN KOHLI	2019-20	B.TECH.(EE/EC)
19	LEE2016002	AMIT SHANKHADHAR	2019-20	B.TECH.(EE/EC)
20	LEE2016001	CHAKARVEER MOURY	2019-20	B.TECH.(EE/EC)
21	LEE2016004	JAVED ALI KHAN	2019-20	B.TECH.(EE/EC)
22	EE2016006	MUKUL AWASTHI	2019-20	B.TECH.(EE/EC)
23	EE2016003	NITIN GUPTA	2019-20	B.TECH.(EE/EC)
24	EE2016001	TABREZ ANSARI	2019-20	B.TECH.(EE/EC)
25	EE2016005	URMILA RASTOGI	2019-20	B.TECH.(EE/EC)
26	EC2016003	CHANDAN GUPTA	2019-20	B.TECH.(EE/EC)
27	EC2016004	DIVYAM PRAKASH	2019-20	B.TECH.(EE/EC)
28	EC2016005	PRINCE SINGH	2019-20	B.TECH.(EE/EC)
29	EC2016002	PRIYA PARMAR	2019-20	B.TECH.(EE/EC)
30	EC2016001	SAMIKSHA MEHRA	2019-20	B.TECH.(EE/EC)
31	LBEC2017001	MAHIR HUSSAIN	2019-20	B.TECH.(EE/EC)
32	LBEC2017002	RAJAT BAN GOSWAMI	2019-20	B.TECH.(EE/EC)
33	LBEC2017003	HARSH RAJ CHOPRA	2019-20	B.TECH.(EE/EC)
34	LBEC2017004	NAVJOT SINGH SIDHAR	2019-20	B.TECH.(EE/EC)
35	LBEE2017001	VARUN MISHRA	2019-20	B.TECH.(EE/EC)
36	LBEE2017002	ANUKUL SINGH	2019-20	B.TECH.(EE/EC)
37	LBEE2017003	AFTAB KHAN	2019-20	B.TECH.(EE/EC)
38	LBEE2017005	REHAN AHMED	2019-20	B.TECH.(EE/EC)
39	LBEE2017006	GAUTAM VISHWAKARN	2019-20	B.TECH.(EE/EC)
40	LBEE2017007	EKLAVYA YADAV	2019-20	B.TECH.(EE/EC)



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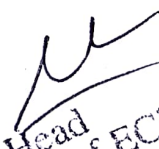


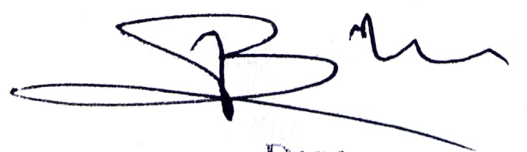
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41	LBEE2017008	IQRAM AHMAD	2019-20	B.TECH.(EE/EC)
42	LBEE2017009	VIVEK KUMAR TIWARI	2019-20	B.TECH.(EE/EC)
43	EC2015003	SHUBHAM RAJPUT	2019-20	B.TECH.(EE/EC)
44	EE2015009	SMRATI SHANKHWAR	2019-20	B.TECH.(EE/EC)
45	ET2015005	SUMIT KUMAR RASTOGI	2019-20	B.TECH.(EE/EC)
46	ET2015007	SUSHIL KUMAR	2019-20	B.TECH.(EE/EC)
47	EC2015001	UTKARSH KUMAR GUPTA	2019-20	B.TECH.(EE/EC)
48	LEE2016003	JAYA SINGH	2019-20	B.TECH.(EE/EC)
49	LEC2016001	DIVYAM PRAKASH	2019-20	B.TECH.(EE/EC)
50	BEC2018001	MADHAV BHATIA	2019-20	B.TECH.(EE/EC)
51	BEE2018001	MANMOHAN MISHRA	2019-20	B.TECH.(EE/EC)
52	BEE2018002	SAFAL	2019-20	B.TECH.(EE/EC)
53	BEE2018003	MOIN	2019-20	B.TECH.(EE/EC)
54	BEE2018004	SYED NOMAN	2019-20	B.TECH.(EE/EC)
55	BEEE2018001	AYUSH KUMAR SAXENA	2019-20	B.TECH.(EE/EC)
56	LBEE2019001	NADEEM AHMAD	2019-20	B.TECH.(EE/EC)
57	LBEE2019002	TRIMENDRA YADAV	2019-20	B.TECH.(EE/EC)
58	LBEE2019003	PAWAN PRATAP SINGH	2019-20	B.TECH.(EE/EC)
59	LBEE2019004	SYED SAAD ALI	2019-20	B.TECH.(EE/EC)
60	LBEE2019005	ANAND SHARMA	2019-20	B.TECH.(EE/EC)
61	LBEE2019006	VICKY TYAGI	2019-20	B.TECH.(EE/EC)
62	LBEE2019007	RITENDRA SINGH	2019-20	B.TECH.(EE/EC)
63	LBEE2019008	Mohd HAMZA KHAN	2019-20	B.TECH.(EE/EC)
64	LBEE2019009	UNNATI DEWAL	2019-20	B.TECH.(EE/EC)
65	LBEE2019010	ASHIF HUSSAIN	2019-20	B.TECH.(EE/EC)
66	LBEE2019011	YASHIKA TIWARI	2019-20	B.TECH.(EE/EC)


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SNO.	ROLL NO.	NAME	10/2	11/2	12/2	13/2	14/2	15/2	16/2	17/2	18/2	19/2	20/2	21/2	22/2	9/3	10/3	11/3	12/3	13/3	14/3
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60 LBEE2019005	ANAND SHARMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
61 LBEE2019006	VICKY TYAGI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
62 LBEE2019007	RITENDRA SINGH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
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Total

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