DON BOSCO INSTITUTE OF TECHNOLOGY

Premier Automobiles Road, Kurla West, Mumbai - 400070

Department of Computer Engineering

Report on – Arduino Workshop

Title: Report on Arduino Workshop

Date: 28th March 2024

Time: 3pm to 5pm

Venue: Computer Center

Target Audience: SE Comps

No. of Participants Present: 28

Resource Person: Mr. Yashas Khot

Organization of Resource Person: ACM student chapter

Organizing Department / Committee / Authority: ACM Student Chapter

Faculty Coordinator: Ms. Sejal Chopra

Objectives:

- To introduce the students to what Microcontroller boards are by using Arduino Uno.
- Explain the students what Arduino Uno is and how it is implemented.
- To give the students an experience of working with Arduino Uno by a hands on session.

Outcomes:

- The students will gain experience of working with on a microcontroller board.
- The students will have a hands on experience of working with Arduino Uno to work with mini project.
- By working with Arduino Uno the students will have the knowledge of how microcontroller boards work and how to use them in projects.

Detailed Report:

The ACM student chapter at Don Bosco Institute of Technology organized an informative hands-on session on Arduino on Thursday, March 28, 2024, from 3pm to 5pm at the Computer Center of the Computer Department. This session was attended by SE students from the Computer Department.

The speaker for the Hands-on workshop was Ms. Sasha Rebello, the Event Advisor of ACM-DBIT. The session commenced promptly at 3 pm, with Ms. Sasha delivering a comprehensive briefing to the students on microcontroller boards, particularly focusing on the Arduino Uno model. During the presentation, Ms. Sasha elucidated the intricacies involved in the construction and configuration of microcontroller boards, providing the students with a detailed understanding of the components integrated into these boards. Additionally, she showcased a variety of microcontroller boards to underscore the diversity within the field. Ms. Sasha further expounded on the practical applications of Arduino across various sectors, illustrating its integration into a multitude of electronic projects. Following the theoretical segment, the students were organized into groups comprising 4-5 individuals, each group being equipped with an Arduino Uno kit along with requisite accessories such as wires, LEDs, buzzers, potentiometers, breadboards, and resistors to facilitate hands-on demonstrations. To ensure seamless participation, each group was assigned a mentor who provided guidance throughout the session. Prior to engaging in the practical exercises, both the mentors and Ms. Sasha assisted the students in installing the Arduino Integrated Development Environment (IDE) software on their personal laptops, a requisite tool for programming the Arduino board. Moreover, the students were furnished with the necessary code for conducting the experiments on their Arduino kits. The initial project demonstrated involved the simple task of blinking the LED on the Arduino Uno board, wherein the students were guided through the process of uploading the provided code onto the board and comprehensively understanding its functionality. Subsequently, the attendees were instructed to undertake a second experiment involving the utilization of wires and breadboards to achieve a similar LED blinking outcome. The third activity entailed the students employing the provided components to activate the buzzer, further enhancing their practical understanding. For final experiment the students were introduced to a more intricate experiment involving a potentiometer, wherein they learned to manipulate analog signals. Throughout the session, the students were encouraged to actively engage with the mentors, seeking clarification on any aspects of the hands-on exercises.

The workshop culminated on a positive note at 5 pm, under the adept guidance of Ms. Sasha Rebello, alongside the designated mentors, yielded invaluable practical insights into the domain of microcontroller boards and Arduino. This educational endeavor facilitated a conducive environment for experiential learning and inquiry among the students.

Snapshot of the Event:

GPS Map Camera
Mumbai, Maharashtra, India
3VJQ+FFJ, Vidyavihar Rd, Amar Nagar, Vidyavihar West, Kurla, Mumbai, Maharashtra 400070, India
Lat 19.081343°
Long 72.888641°
28/03/24 04:07 PM GMT +05:30
Google

Event Poster:

Registration Details:

Don Bosco Institute of Technology, Kurla, Mumbai-70
Branch : COMP Sememester : 4 Division : A
Session 2023-24 EVEN Semester

Arduino Workshop

Date- 28th Mar'24 Time- 3pm to 5pm

Roll No	Student Name	Sign
1	Alvin	
2	Amrute Harsh Durgesh amrute	
3	Ansari Abdullah Anis ahmad	
4	Bairagi Sujal Ravindra	
5	Barboza Reuben Philip	
6	B Harshavardhan Shivshankar	
7	Bhosale Ayush Ajay	
8	Bhosale Soham Sakharam	
9	Bose Peter Robinson	
10	Butelho Boris Sandesh	
11	Chakraborty Shreya Sanjay Chakraborty	
12	Chaudhari Jiya Pradeep	
13	Chitre Ruchir Milind	
14	Davkhar Sahil Sandeep Davkhar	
15	Dcosta Ria Ronald	
16	Dcosta Sasha Savio	
17	Dcosta Shayne Savio francis	
18	Deshmukh Mahant Arvind	
19	Dsouza Bryson Mathew	
20	Dsouza Shaun Sebastian J. D'SOUZA	
21	Dwayne george Nixon	
22	Eluvathingal David James	
23	Fernandes Andre	
24	Ghosh Arkaprabha Kastuv	
25	Gosavi Siddharth Samir Gosavi	
26	Govind Joyas Georgie	
27	Jowin K.C. Paulose	
28	Kadam Suyash Sanjay Yashwant Kadam	
29	Kalbaskar Aslam Munir	
30	Kandpal Sookret Ashok	
31	Kate Aditya Premnath	
32	Khan Ishteqali Shohratali	
33	Khatpe Yash Shankar	
34	Konuparamban Aibal Biju	
35	Kulkarni Ramya Vinod Kulkarni	
36	Lobo Susanne Mothes	
37	Maji Ankush Animesh maji	
38	Mattekkadan Nibin Baby	
39	Memon Riyaz Ismail	
40	Menezes Shaun Francis	
41	Naik Suraj Rajesh Naik	
42	Ornello Kenneth olvien	

43	Panchikal David George	
44	Patel Krishna Patel sachin mohan	
45	Patil Bhanudas Nivrutti	
46	Paul Rhea K k paul	
47	Pereira Jovan Savio	
48	Pimenta Nathan Nelson	
49	Prasad Erica Holtan	
50 X	Rabert Kingsshen	
51	Rahul Boney	
52	Rai Sankalp Kamlesh	
53	Raorane Tanisha Nilesh	
54	Rodrigues Shaun John	
55	Salis Ashita Walter	
56	Sequeira Mervin Daniel	
57	Shaikh Iqra Munna	
58	Shaikh Mohammed Farooq Shaikh	
59	Shaikh Shaizy Sarosh	
60	Shirsath Krishna Pramod	
61	Tatkare Rucha Rajendra tatkare	
62	Thekkumpuram Melvin	
63	Thoppil Merina George thoppil	
64	Tikekar Sarvesh Vikas	
65	Vaz Salvi Albert	
66	Verma Amisha Jai prakash Verma	
67	Wani Jayesh Sanjay	
68	Yadav Sanjay Chhedilal yadav	

Report Prepared By:

Name of the Student: Ms. Shanaya Carvalho

Post of the student: Editorial Head

Report Approved By:

Name of the Faculty: Mr. Imran Mirza

Post of the Faculty: Faculty Co-ordinator