



K. E. Society's  
**Rajarambapu Institute of Technology Rajaramnagar**  
(An Autonomous Institute Affiliated to Shivaji University Kolhapur)  
**Department of Mechatronics Engineering**

**Report**  
**on**  
**“Arduino based Automation”**

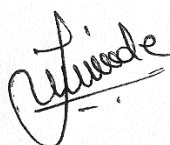
<b>Event Type:</b>	: Workshop
<b>Date / Duration</b>	: 22 <sup>nd</sup> to 25 <sup>th</sup> March 2023 (Three Days)
<b>Resource Person</b>	: Mr. Chittaranjan Mahajan Director, Dolphin Labs
<b>Name of Coordinator</b>	: Dr. P. V. Shinde Dr. V. S. Ganachari
<b>Target Audience</b>	: S.Y. BTech (Mechatronics)
<b>Total no of Participants</b>	: 43
<b>Objective of the event</b>	: To enrich the students with Arduino programming.

“Arduino based Automation” workshop was conducted on 22<sup>nd</sup> March 2023 to 25<sup>th</sup> March 2023 in Department of Mechatronics Engineering. The workshop started at 10:30 am and was inaugurated by Dean student development Dr. L. M. Jugulkar, Head training and placement department Dr. A.P. Shah, Head of mechatronics engineering department Dr. S. S. Shirguppikar and Faculty members were present during the event. This workshop was sponsored by Skill and personality development program (SPDP) under AICTE fund. The workshop was themed **“For the students, by the students”**. SY BTech (Mechatronics) division students were present for the workshop. This activity offered hands-on training Arduino interfacing. The details of activity are covered in following table.

Sr No	Modules Conducted	Activity
1	Interfacing of flashing LED with Arduino Uno rev 3	Demonstration by connecting LED on output port of Arduino board
2	Interfacing ultrasonic sensors with Arduino Uno rev 3	Demonstration by connecting ultrasonic sensor at the input port of Arduino board.
3	Interfacing DC motor with Arduino Uno rev 3	Demonstration by connecting DC Motor to the transistor via PWM pin of Arduino board.
4	Interfacing of analog temperature sensor with Arduino Uno rev 3	Demonstration by connecting LM35 on analog pin of Arduino board.

### Usefulness of the workshop:

By attending this workshop, students interpreted the usefulness of Arduino and its applications. Students performed programming on Arduino using code written in Arduino IDE. Students also adapted various types of sensors, components and prototype modules using a breadboard. and also learn to build innovative project with Arduino.



**Workshop Co-Ordinator**



**HOD, Mechatronics Engineering  
Department**

## Photographs of the Workshop





**C and CPP Workshop**  
**Department : Mechatronics and Civil Engineering**  
**Attendance**

Sr.No	Name	PRN No	1/3	2/3	3/3	4/3	4/3	4/3	5/3	6/3
1	Yashodeep patil	2015009	A	P	P	P	P	P	P	P
2	Komal Kiran Fasale	2015010	A	P	P	P	P	P	P	P
3	Nikhil Ravindra Patil	2015012	P	P	P	P	P	P	P	A
4	Ashutosh Santosh Shinde	2015020	P	A	A	P	P	P	P	P
5	Pravin ajit heralge	2015030	P	P	P	P	P	P	P	P
6	Rakshit Sanjay Pansande	2015031	P	A	P	A	P	P	P	A
7	Siddharth Maruti Patil	2015036	P	P	P	P	P	P	P	P
8	Saniya sameer sutar	2015038	P	P	P	P	P	P	P	P
9	Shifa Zehraddin Desai	2015039	A	P	P	A	P	P	P	P
10	Madhura sanjay randive	2015040	P	P	P	P	P	P	P	A
11	Ankita Patil	2015041	A	P	P	P	P	P	P	P
12	Ruturaj VijayKumar Dharav	2015042	P	P	P	P	P	P	P	P
13	Pawar Aditya Tanaji	2165002	A	P	A	P	P	P	A	P
14	Prashant Babasaheb Kamble	2165003	A	P	P	P	P	P	P	P
15	Aman Faiyyaj Shaikh	2165004	P	P	P	P	P	P	P	P
16	Rajat Ramesh Rasankar	2165010	P	P	P	P	P	P	P	P
17	Prathamesh suresh patil	2165017	P	P	A	P	A	P	P	P
18	Bhakti Vikas Shete	2165018	P	P	P	P	P	P	P	P
19	Tejas Dayanand Salunkhe	2165019	P	P	A	P	A	P	A	P
20	Ghadge Nikhil Sanjay	2165020	A	P	P	P	P	P	P	P
21	MAYUR MAHESH KUMBHAR	2165021	P	A	P	P	P	P	P	P
22	Viraj Dhananjay Patil	2165025	P	P	A	P	P	P	P	P
23	Yugandhara Dhananjay Patil	2165026	P	P	P	P	P	P	A	P
24	Shinde Girish Pramod	2165030	P	P	P	P	P	P	P	P
25	Sarthak Ravindra Pachpande	2165031	P	P	A	P	P	A	P	P
26	Amisha Shivaji koli	2008061	P	P	P	P	P	P	P	P
27	Sakshi Shallesh Shinde	2165001	P	P	P	A	P	P	A	P
28	Saniya najir Mulla	2002015	P	P	P	P	P	P	P	P
29	Katwate Anuradha Satish	2165029	P	P	P	P	P	P	A	A
30	Sakshi Kiran Gade	2002025	A	P	P	A	P	P	P	P
31	Pratiksha Pandharinath	2002064	P	P	P	P	P	P	P	P
32	Rajeshwari Sajjan Suryavanshi	2002018	P	P	P	P	P	P	A	P
33	Sanika Prakash Gaikwad	2002026	P	P	A	P	A	P	P	P
34	Ajit Shivaji mane	2002043	P	P	P	A	P	P	P	P
35	Atharva Ajay Erandk	2015007	P	P	P	P	P	P	P	P
36	Sakshi Sawant	2165014	P	P	P	P	P	P	P	P
37	Krishna kant Jha	2002070	P	P	P	A	P	P	P	P
38	Pisal Pranav Shivaji	2015023	P	P	P	P	P	P	P	P
39	Gore Tushar Dhananjay	2015037	A	P	P	A	P	P	P	A
40	Shete Bhakti Vikas	2165018	P	P	P	P	P	P	A	P

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 (Mr. Sudigale R. B.)



**C and CPP Workshop**  
**Department : Mechatronics and Civil Engineering**  
**Attendance**

Sr.No	Name	PRN No	8/3	9/3	10/3	11/3	11/3	11/3	13/3	14/3
1	Yashodeep patil	2015009	P	P	P	P	P	P	A	P
2	Komal Kiran Fasale	2015010	P	P	P	P	P	P	P	P
3	Nikhil Ravindra Patil	2015012	P	P	P	P	P	P	P	P
4	Ashutosh Santosh Shinde	2015020	P	P	P	P	P	P	P	P
5	Pravin ajit heralge	2015030	A	P	P	P	P	P	P	P
6	Rakshit Sanjay Pansande	2015031	P	P	P	P	P	P	P	P
7	Siddharth Maruti Patil	2015036	P	P	P	P	P	P	P	A
8	Saniya sameer sutar	2015038	P	P	P	P	P	P	P	P
9	Shifa Zehrudin Desai	2015039	P	P	P	P	P	P	P	P
10	Madhura sanjay randive	2015040	P	P	P	P	P	P	P	P
11	Ankita Patil	2015041	P	A	P	A	A	A	P	P
12	Ruturaj VijayKumar Dharav	2015042	P	P	P	P	P	P	P	P
13	Pawar Aditya Tanaji	2165002	P	A	P	P	P	P	P	P
14	Prashant Babasaheb Kamble	2165003	P	P	P	P	A	P	P	A
15	Aman Faiyyaj Shaikh	2165004	P	P	P	P	P	P	P	P
16	Rajat Ramesh Rasankar	2165010	P	P	A	P	P	P	P	P
17	Prathamesh suresh patil	2165017	P	A	P	P	P	P	P	A
18	Bhakti Vikas Shete	2165018	P	P	P	P	P	P	P	P
19	Tejas Dayanand Salunkhe	2165019	P	P	P	P	P	P	P	P
20	Ghadge Nikhil Sanjay	2165020	A	P	P	P	P	P	P	P
21	MAYUR MAHESH KUMBHAR	2165021	P	P	P	P	P	P	P	P
22	Viraj Dhananjay Patil	2165025	A	P	P	P	P	P	P	A
23	Yugandhara Dhananjay Patil	2165026	P	A	P	P	P	P	A	P
24	Shinde Girish Pramod	2165030	P	P	P	P	P	P	P	P
25	Sarthak Ravindra Pachpande	2165031	P	P	P	P	P	P	P	P
26	Amisha Shivaji koli	2008061	P	P	P	A	A	A	P	P
27	Sakshi Shailesh Shinde	2165001	A	P	P	P	P	P	P	P
28	Saniya najir Mulla	2002015	P	P	P	P	P	P	P	P
29	Katwate Anuradha Satish	2165029	P	P	P	P	P	P	P	P
30	Sakshi Kiran Gade	2002025	A	P	P	P	P	P	P	P
31	Pratiksha Pandharinath	2002064	P	A	P	P	P	P	P	P
32	Rajeshwari Sajjan Suryavanshi	2002018	P	P	P	P	P	P	P	P
33	Sanika Prakash Gaikwad	2002026	P	A	P	P	P	P	P	P
34	Ajit Shivaji mane	2002043	P	P	P	P	P	P	P	P
35	Atharva Ajay Erandk	2015007	P	P	P	A	A	A	P	P
36	Sakshi Sawant	2165014	P	P	P	P	P	P	P	P
37	Krishna kant Jha	2002070	P	P	P	P	P	P	P	P
38	Pisal Pranav Shivaji	2015023	P	P	P	A	A	A	P	P
39	Gore Tushar Dhananjay	2015037	P	P	P	P	P	P	P	P
40	Shete Bhakti Vikas	2165018	P	P	A	P	P	P	P	P

*Sadigale*  
 (Mr. Sadigale R.B.)

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**C and CPP Workshop**  
**Department : Mechatronics and Civil Engineering**  
**Attendance**

Sr.No	Name	PRN No	15/03	16/03	17/03	18/03	18/03	18/03	20/03	
1	Yashodeep patil	2015009	P	P	A	P	P	P	P	
2	Komal Kiran Fasale	2015010	P	P	P	P	P	P	A	
3	Nikhil Ravindra Patil	2015012	P	P	P	P	P	P	P	
4	Ashutosh Santosh Shinde	2015020	P	P	P	A	A	A	P	
5	Pravin ajit heralge	2015030	P	P	P	P	P	P	P	
6	Rakshit Sanjay Pansande	2015031	P	P	P	P	P	P	P	
7	Siddharth Maruti Patil	2015036	P	P	P	A	A	A	A	
8	Saniya sameer sutar	2015038	P	P	P	P	P	P	P	
9	Shifa Zehraddin Desai	2015039	P	P	P	P	P	P	P	
10	Madhura sanjay randive	2015040	P	P	A	P	P	P	P	
11	Ankita Patil	2015041	A	P	P	P	P	P	A	
12	Ruturaj VijayKumar Dharav	2015042	P	P	P	P	P	P	P	
13	Pawar Aditya Tanaji	2165002	P	P	P	P	P	P	P	
14	Prashant Babasaheb Kamble	2165003	A	P	A	P	P	P	P	
15	Aman Faiyyaj Shaikh	2165004	P	P	P	P	P	P	P	
16	Rajat Ramesh Rasankar	2165010	P	P	P	P	P	P	P	
17	Prathamesh suresh patil	2165017	P	P	P	P	P	P	P	
18	Bhakti Vikas Shete	2165018	P	A	P	P	P	P	A	
19	Tejas Dayanand Salunkhe	2165019	P	P	P	P	P	P	P	
20	Ghadge Nikhil Sanjay	2165020	P	P	P	P	P	P	P	
21	MAYUR MAHESH KUMBHAR	2165021	P	P	A	P	P	P	P	
22	Viraj Dhananjay Patil	2165025	A	P	P	P	P	P	P	
23	Yugandhara Dhananjay Patil	2165026	P	P	P	P	P	P	P	
24	Shinde Girish Pramod	2165030	P	P	P	P	P	P	P	
25	Sarthak Ravindra Pachpande	2165031	P	A	P	P	P	P	P	
26	Amisha Shivaji koli	2008061	P	P	P	P	P	P	P	
27	Sakshi Shailesh Shinde	2165001	P	P	P	P	P	P	P	
28	Saniya najir Mulla	2002015	P	P	P	P	P	P	P	
29	Katwate Anuradha Satish	2165029	P	P	P	A	A	A	P	
30	Sakshi Kiran Gade	2002025	P	P	P	P	P	P	P	
31	Pratiksha Pandharinath	2002064	P	P	P	P	P	P	P	
32	Rajeshwari Sajjan Suryavanshi	2002018	P	P	P	P	P	P	P	
33	Sanika Prakash Gaikwad	2002026	P	P	P	P	P	P	P	
34	Ajit Shivaji mane	2002043	P	P	P	P	P	P	P	
35	Atharva Ajay Erandk	2015007	P	P	A	P	P	P	P	
36	Sakshi Sawant	2165014	P	P	P	P	P	P	P	
37	Krishna kant Jha	2002070	P	P	P	A	A	A	P	
38	Pisal Pranav Shivaji	2015023	P	P	P	P	P	P	P	
39	Gore Tushar Dhananjay	2015037	P	A	P	P	P	P	P	
40	Shete Bhakti Vikas	2165018	P	P	P	P	P	P	A	

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**C and CPP Workshop**  
**Department : Mechatronics and Civil Engineering**  
**Attendance**

Sr.No	Name	PRN No	22/02	23/02	24/02	25/02	25/02	25/02	27/02	28/02
1	Yashodeep patil	2015009	P	P	P	P	P	P	P	A
2	Komal Kiran Fasale	2015010	P	P	P	P	P	P	P	P
3	Nikhil Ravindra Patil	2015012	P	A	P	P	P	P	P	P
4	Ashutosh Santosh Shinde	2015020	P	P	P	A	P	P	P	P
5	Pravin ajit heralge	2015030	A	P	P	P	P	P	P	P
6	Rakshit Sanjay Pansande	2015031	P	P	P	P	P	P	P	P
7	Siddharth Maruti Patil	2015036	P	P	P	A	P	P	P	P
8	Saniya sameer sutar	2015038	P	P	P	P	P	P	P	P
9	Shifa Zehrudin Desai	2015039	A	P	P	P	P	P	P	P
10	Madhura sanjay randive	2015040	P	P	P	P	P	P	P	P
11	Ankita Patil	2015041	P	A	P	A	P	P	P	P
12	Ruturaj VijayKumar Dharav	2015042	P	P	P	P	P	P	P	P
13	Pawar Aditya Tanaji	2165002	P	P	P	P	P	P	A	P
14	Prashant Babasaheb Kamble	2165003	P	P	A	P	P	P	P	P
15	Aman Faiyyaj Shaikh	2165004	A	P	P	P	P	P	P	P
16	Rajat Ramesh Rasankar	2165010	P	P	P	P	P	P	P	P
17	Prathamesh suresh patil	2165017	P	A	P	P	P	A	P	P
18	Bhakti Vikas Shete	2165018	P	P	P	P	P	P	P	P
19	Tejas Dayanand Salunkhe	2165019	P	A	P	P	P	P	A	P
20	Ghadge Nikhil Sanjay	2165020	P	P	P	P	A	P	P	P
21	MAYUR MAHESH KUMBHAR	2165021	P	P	P	P	P	P	P	P
22	Viraj Dhananjay Patil	2165025	A	P	P	P	P	P	P	P
23	Yugandhara Dhananjay Patil	2165026	P	A	P	P	P	P	A	P
24	Shinde Girish Pramod	2165030	P	P	P	A	P	P	P	P
25	Sarthak Ravindra Pachpande	2165031	P	P	P	P	P	P	P	P
26	Amisha Shivaji koli	2008061	P	P	P	P	P	P	P	P
27	Sakshi Shallesh Shinde	2165001	A	P	P	A	P	P	A	P
28	Saniya najir Mulla	2002015	P	P	P	P	P	P	P	P
29	Katwate Anuradha Satish	2165029	P	P	P	P	P	P	P	P
30	Sakshi Kiran Gade	2002025	P	P	P	A	P	P	P	P
31	Pratiksha Pandharinath	2002064	P	P	A	P	P	P	P	P
32	Rajeshwari Sajjan Suryavanshi	2002018	A	P	P	P	P	P	A	P
33	Sanika Prakash Gaikwad	2002026	A	P	P	P	A	P	P	P
34	Ajit Shivaji mane	2002043	A	P	P	A	P	P	P	P
35	Atharva Ajay Erandk	2015007	P	P	P	P	P	P	P	P
36	Sakshi Sawant	2165014	P	P	P	P	P	P	P	P
37	Krishna kant Jha	2002070	A	A	P	A	P	P	P	P
38	Pisal Pranav Shivaji	2015023	P	P	P	P	P	P	P	P
39	Gore Tushar Dhananjay	2015037	P	A	P	P	A	P	P	P
40	Shete Bhakti Vikas	2165018	A	P	P	A	P	P	P	A

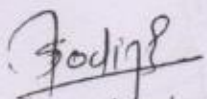
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 (Mrs. Sadigale R.B.)

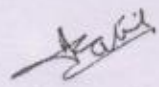
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## Students crash course on Programming in C and CPP under Lead College Scheme, Shivaji University, Kolhapur

Training and Placement Cell, Mechatronics Department, RIT organized the program on C and CPP crash course from 22<sup>nd</sup> February, 2023 to 20<sup>th</sup> March, 2022 under Lead College Scheme, Shivaji University, Kolhapur. The course was completed under the guidance of faculty coordinator Prof, Rohit Sadigale, Assistant Professor, CSIT Department, Prof. Ajinkya Patil, Training and Placement Coordinator, Mechanical Department. We have valuable support from Hon. Dr. Mrs. S.S. Kulkarni, Director, RIT, Dr. S.K. Patil, Dean Academic and Head of the Mechanical Department, Dr. A. P. Shah, Head Training and Placement, RIT.

Course was started from 22<sup>nd</sup> February, 2023 with one-hour lecture slot (Monday to Friday, 5.15PM to 6.15PM) and 3hrs practical sessions for each batch (Saturday, 10.30AM to 1.30PM & 2.30PM to 5.30PM). In this course, all basic and advanced concept of C programming, OOP's concepts of CPP and data structure concepts are covered in 30hrs sessions. All course material of lectures and practical's are uploaded on Moodle platform along with quiz and programming assignment. As main objective of this course is to prepare students for software based companies, so we have added separate sessions on resume preparation and interview techniques related to software companies. Total 40 students from mechatronics department were registered for this course.

  
(Mr. Sadigale R.B.)

  
(Prof. A.K. Patil)

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