



Shiv Chhatrapati Shikshan Sanstha's  
**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Department of Computer Science**

**A) A Summary Report of the Activity**

1) Title of the Programme:	Two Day Workshop on ROBOTICS and Internet of Things		
2) Name of Organizing Department/Unit:	Department of Computer Science		
3) Name of the Coordinator(s)/ Convener(s)/ Organizer(s) of the Program:	Coordinator: Prof. K. M. Pradhan Convener: Dr. R.R. Londhe		
4) Date(s) of the Programme:	24/02/2020 and 25/02/2020		
5) Venue	Department of Computer Science		
6) Target Group:	All UG and PG Students from Science Background		
7) Number of participants:	Male	Female	Total
A separate list with signatures be maintained in the department/Unit)	Teaching Staff	--	--
	Non-Teaching Staff	--	--
	Students	19	36
8) Name(s) and details of Resource Person(s), if any:	Mr. Mitesh Gohil. IIT Mumbai		
9) Total Expenditure for the Programme:	--		
10) Source of Funding:	-		

## **B) Report**

**i. Title:** Two Day Workshop on ROBOTICS and Internet of Things

### **ii. Introduction**

Department of Computer Science, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur in association with Symposium, IIT Bombay had organized “**Two Day Workshop on ROBOTICS and Internet of Things**” from 24 February & 25 February 2020. Resource person for this workshop was Mr. Mitesh Gohil.

### **iii. Objectives of the Programme/ issues addressed:**

- To impart students the basic concepts of robotics & IoT.
- To disseminate working mechanism of robots and its different parts.
- To train the students about use of various concepts of Physics, Mathematics, and Computer Science applied in robotics.

**iv. Details of Participants:** A sum of 55 students (19 Male & 36 Female) of BCA, B.Sc. CS, B. Voc. CT, B. Sc, M. Sc. CS and M. Sc. Physics participated in the workshop.

### **v. Brief Summary of Events/ Sessions:**

#### **Day 1:**

Two Day workshop on Robotics and IoT was inaugurated by the auspicious hands of Vice Principal Dr. E. U. Masumdar. Introduction of the program was given by Coordinator of the workshop Mrs. Kiran M. Pradhan. Vice Principal Dr. A J Raju, Mr. M. P. Bhise, Head of Computer Science Department Dr. Renuka Londhe were present for the inauguration ceremony.

After the inauguration ceremony the resource person Mr. Mitesh Gohil started with his presentation on robotics. He asked students to form the groups of 5 members each. After words he had given an introduction of all the components used in the robot kit. After a comprehensive theory session, the students were asked to perform the practical such as assembling the components, working with analog inputs, working with LCDs, distance sensing, IR sensors, communication protocols, working with DTMF & GPS interfacing with Arduino.

#### **Day 2:**

Second day started with a comprehensive lecture on IoT, which focused on the key concepts related to the Internet of Things and a brief overview on the topics such as, Introduction to the Internet of Things, The Arduino Platform, Reading from Sensors, Programming fundamentals, Arduino Programming & Interface of Sensors, Simple LED Program for Arduino, Integrating Sensors & Reading Environmental Physical Values. After which students were given hands on practice of various IoT device and application. The theory & practical sessions were comprehensive & useful. The resource person taught everyone with patience & clarity, giving individual attention to every group and made sure that they were all heading towards the right direction. The students were thoroughly engrossed in the tasks and found the workshop extremely useful.

The workshop concluded with a small valedictory ceremony graced by the presence of Vice Principal Dr. A J Raju, Vice Principal Dr. E U Masumdar & Head, Department of Computer Science Dr. Renuka Londhe. Certificates were distributed to the student participants. During the speech Dr. A J Raju & Dr. E U Masumdar congratulated the students and all the faculty members of Computer Science Department for successfully completing the workshop. Lastly Vote of thanks was proposed by Mr. M. P. Bhise from Department of Physics.

**vi. Conclusion with feedback on the Programme:**

- The workshop mainly focused on encouraging our students in the field of robotics and automation.
- The students got to know different types of robots and their applications.
- The students got familiarized with different spare parts and equipment used to build robots.
- Live demonstration of bots like: line follower & obstacle detection were shown to the students.

**vii. Any Appendix if Necessary: List of participants attached**

**Date:** 27.02.2020

  
**HoD**  
**Head**  
**Dept. of Computer Science**  
**Rajarshi Shahu Mahavidyalaya, Latur**



  
**Principal**  
**PRINCIPAL**  
**Rajarshi Shahu Mahavidyalaya, Latur**  
**(Autonomous)**

**C) Photographs:**



Ms K M Pradhan delivering Concept Note



Resource Person interacting with participants



Students attending the workshop



Students during practical session



Dr E U Masumdar attending the practical session



Resource Person demonstrating a Robot



Students expressing their views



Certificate distribution



Vice Principal Dr. A J Raju expressing his views



Vice Principal Dr E U Masumdar delivering presidential address

D) Brochure of the workshop:

**WORKSHOP ON ROBOTICS & INTERNET OF THINGS**  
 Organized by  
 Department of Computer Science and Department of Physics & Electronics  
**Rajarshi Shahu Mahavidyalaya , Latur**  
 In Association with Symposium-IIT Mumbai

On  
**24-25 Feb 2020**

Prof. M.P. Bhise  
**Coordinator**

Prof. Kiran M. Pradhan  
**Coordinator**

Dr. Renuka Londhe  
**HoD**

Dr. E.U. Masumdar  
**Vice-Principal**

Dr. Mahadav Gavhane  
**Principal :**

**WORKSHOP ON ROBOTICS & INTERNET OF THINGS**  
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**HIGHLIGHTS :**

- No prior Knowledge required.
- Learn From Basics.
- Get Industrial Exposure.
- Learn A to Z of Arduino board
- Turn on / off anything with mobile.
- Work on IoT project.
- Make your own Robot.
- Test by Moving it in Different Direction
- Interface Motors with Micro-Controller
- Internationally Recognized Certificate.

**Dual Workshop with Dual Certification  
 In Single Fee**

Date :24th & 25th February 2020  
 Fee :Rs. 600 /- Per Student

For Registration Contact :  
 Staff Coordinator :  
**Pro.Kiran M. Pradhan:9403008137**  
**M. Bhise:9673353181**

**Student Coordinator :**  
**S.V.Jadhav:7588612972**  
**Sagar kandhare :8830960317**  
 Dr. Renuka Londhe  
 Head, Department of Computer Science

**FINALE IN MUMBAI**  
 Free Internship for Winners  
 Chance to represent your college @ International platform  
 Win Cash prize of 3 Lakh @ Final round  
 Traveling & Accommodation of winners for finale will be free

Vice-Principal :  
 Dr. E.U. Masumdar  
 Rajarshi Shahu Mahavidyalaya, Latur

Principal :  
 Dr. Mahadav Gavhane  
 Rajarshi Shahu Mahavidyalaya, Latur

# WORKSHOP ON ROBOTICS & INTERNET OF THINGS

Rajarshi Shahu Mahavidyalaya (Autonomous) Latur

Department of Computer Science and Department of Physics & Electronics

Day 1

On 24th & 25th Feb 2020

SR.NO	Name	Class	Sign
1	Bayas Akash R.	MSC.CS.SY	
2	Yamulwad Saheb D.	MSC.CS.SY	
3	Musane Priyanka D.	MSC.CS.FY	
4	Maniyar Humera Parveen Farukh	MSC.CS.FY	
5	Shirse Mayuri Dnyanoba	MSC.CS.FY	
6	Aaglave Sonali Madhkar	MSC.CS.FY	
7	Chavan Kiran Koshiram	MSC.CS.FY	
8	Jogdand Tanuja R.	MSC.CS.SY	
9	Mahalinge sanchita B.	MSC.CS.SY	
10	Potdar Mohini N.	MSC.CS.SY	
11	Kasle Jotsana N.	MSC.CS.SY	
12	Jadhav Priyanka B.	MSC.CS.SY	
13	Kandhare Sagar V.	BSC.CS.SY	
14	Fakir Rahim Zamir	BSC.CS.FY	
15	Ganesh Jagdale Rajaram	BCA.FY	
16	Ladaf Bilal Ajimoddin	BCA.FY	
17	Shinde vishal Tulshiram	BCA.FY	
18	Bawalge Krushna	B.VOC.FY	
19	Jadhav Divya K.	BSC.SY	
20	Yelgatte Nikita N.	BSC.SY	
21	Shinde Sujit N.	BSC.SY	
22	Bansode Rushikesh	B.VOC.FY	
23	Suryawanshi Akash	B.VOC.FY	
24	Shubham Kore	BSC.CS.SY	
25	Mane Pratibha	B.VOC.FY	
26	Bhoyte Ravi Kumar B.	B.VOC.SY	
27	Gavate Omprakash S	B.VOC.SY	
28	Telange Nagesh S.	B.VOC.SY	

# WORKSHOP ON ROBOTICS & INTERNET OF THINGS

Rajarshi Shahu Mahavidyalaya (Autonomous) Latur

Department of Computer Science and Department of Physics & Electronics

Day 1

On 24th & 25th Feb 2020

29	Shaikh Sultan M.	MSC.CS.FY	<del>Shaikh Sultan M.</del>
30	Yogesh Kamle	B.VOC.FY	<del>Yogesh Kamle</del>
31	Mogarge Radha Dattatray	B.Sc.II	<del>Mogarge Radha Dattatray</del>
32	Kamble Abhishek Nagnath	B.Sc.III	<del>Kamble Abhishek Nagnath</del>
33	Kokane Deepak Balaji	B.Sc.III	<del>Kokane Deepak Balaji</del>
34	Karad Sandesh Videsh	B.Sc.III	<del>Karad Sandesh Videsh</del>
35	Kulkarni Shruti Vilasrao	B.Sc.II	<del>Kulkarni Shruti Vilasrao</del>
36	Ailwad Vaishnavi Sanjeev	B.Sc.II	<del>Ailwad Vaishnavi Sanjeev</del>
37	Mohite Sneha Balaji	B.Sc.II	<del>Mohite Sneha Balaji</del>
38	Khurpe Gaurav Goroba	B.Sc.II	<del>Khurpe Gaurav Goroba</del>
39	Gund Suraj Madhukar	B.Sc.II	<del>Gund Suraj Madhukar</del>
40	Bombalge Prakash Digambar	B.Sc.II	<del>Bombalge Prakash Digambar</del>
41	Chavan Pradeep Dayal	B.Sc.II	<del>Chavan Pradeep Dayal</del>
42	Dalave Gorkhanath G.	B.Sc.II	<del>Dalave Gorkhanath G.</del>
43	Giram Asawari Annasaheb	B.Sc.II	<del>Giram Asawari Annasaheb</del>
44	Maniyar Neha Sirajoddin	B.Sc.II	<del>Maniyar Neha Sirajoddin</del>
45	Boyane Vaishnavi Umakant	B.Sc.II	<del>Boyane Vaishnavi Umakant</del>
46	Indrale Aishwarya B.	B.Sc.II	<del>Indrale Aishwarya B.</del>
47	Shendre Ankita Narsing	B.Sc.II	<del>Shendre Ankita Narsing</del>
48	Pund Shweta Sanjay	B.Sc.II	<del>Pund Shweta Sanjay</del>
49	Sangle Vikas Babasaheb	M.Sc. I	<del>Sangle Vikas Babasaheb</del>
50	Mule Ashish Arun	M.Sc. I	<del>Mule Ashish Arun</del>
51	Gaikwad Ravi Shahuraj	M.Sc. II	<del>Gaikwad Ravi Shahuraj</del>
52	Deshmukh Nishigandha R.	B.Sc.II	<del>Deshmukh Nishigandha R.</del>
53	Munge Mamta Vijaykumar	B.Sc.II	<del>Munge Mamta Vijaykumar</del>
54	Chame Nilesh Nagnath	M.Sc.II	<del>Chame Nilesh Nagnath</del>
55	Jadhav Sidhant V.	M.Sc.II	<del>Jadhav Sidhant V.</del>

# WORKSHOP ON ROBOTICS & INTERNET OF THINGS

Rajarshi Shahu Mahavidyalaya (Autonomous) Latur

Department of Computer Science and Department of Physics & Electronics

Day 2

25th Feb 2020

SR.NO	Name	Class	Sign
1	Bayas Akash R.	MSC.CS.SY	
2	Yamulwad Saheb D.	MSC.CS.SY	
3	Musane Priyanka D.	MSC.CS.FY	
4	Maniyar Humera Parveen Farukh	MSC.CS.FY	
5	Shirse Mayuri Dnyanoba	MSC.CS.FY	
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25th Feb 2020

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31	Mogarge Radha Dattatray	B.Sc.II	<i>Radha</i>
32	Kamble Abhishek Nagnath	B.Sc.III	<i>Abhishek</i>
33	Kokane Deepak Balaji	B.Sc.III	<i>Kokane</i>
34	Karad Sandesh Videsh	B.Sc.III	<i>Sandesh</i>
35	Kulkarni Shruti Vilasrao	B.Sc.II	<i>Shruti</i>
36	Ailwad Vaishnavi Sanjeev	B.Sc.II	<i>Ailwad</i>
37	Mohite Sneha Balaji	B.Sc.II	<i>Sneha</i>
38	Khurpe Gaurav Goroba	B.Sc.II	<i>Gaurav</i>
39	Gund Suraj Madhukar	B.Sc.II	<i>Suraj</i>
40	Bombalge Prakash Digambar	B.Sc.II	<i>Prakash</i>
41	Chavan Pradeep Dayal	B.Sc.II	<i>Pradeep</i>
42	Dalave Gorkhanath G.	B.Sc.II	<i>Dalave</i>
43	Giram Asawari Annasaheb	B.Sc.II	<i>Giram</i>
44	Maniyar Neha Sirajoddin	B.Sc.II	<i>Neha</i>
45	Boyane Vaishnavi Umakant	B.Sc.II	<i>Vaishnavi</i>
46	Indrale Aishwarya B.	B.Sc.II	<i>Aishwarya</i>
47	Shendre Ankita Narsing	B.Sc.II	<i>Ankita</i>
48	Pund Shweta Sanjay	B.Sc.II	<i>Shweta</i>
49	Sangle Vikas Babasaheb	M.Sc. I	<i>Vikas</i>
50	Mule Ashish Arun	M.Sc. I	<i>Ashish</i>
51	Gaikwad Ravi Shahuraj	M.Sc. II	<i>Ravi</i>
52	Deshmukh Nishigandha R.	B.Sc.II	<i>Nishigandha</i>
53	Munge Mamta Vijaykumar	B.Sc.II	<i>Mamta</i>
54	Chame Nilesh Nagnath	M.Sc.II	<i>Nilesh</i>
55	Jadhav Sidhant V.	M.Sc.II	<i>Sidhant</i>

*Pooja*  
HOD  
Head

Dept. of Computer Science  
Rajarshi Shahu Mahavidyalaya, Latur



*Yash*  
Principal

PRINCIPAL  
Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)