



Dayanand Education Society's  
**Dayanand Science College, Latur,  
Maharashtra, India.**



**Proposal for**

**UGC-CPE Skill Development Program  
10 Days Workshop On  
"OBSTACLE DETECTION ROBOT"**

**Submitted To**



ज्ञान-विज्ञान विमुक्तये

**UGC-CPE**

**By**

**Principal**

**Dayanand Science College, Latur,  
Maharashtra, India.**

**Web: [www.dsclatur.org](http://www.dsclatur.org)**

**Contact No: 02382 222929, 09403970550**

**Fax No.02382 221149 PIN: 413512**

**December - 2019**

*UGC-CPE - Any other  
activities*





## Section - A

- Region / State : **Maharashtra**  
Please Tick (✓) the Appropriate Item
1. Activity : Conference/✓**Workshop** / Seminar.
2. Geographical Coverage : ✓**Departmental** /State Level / National Level / International Level.
3. Name of Conference / **Workshop** / Seminar : **UGC-CPE Skill Development Program  
10 Days Workshop On Obstacle Detection Robot**
4. Date (s) : **30 Nov 2019 to 10 Dec 2019**
5. Venue : **Department of Computer Science,  
Dayanand Science College, Latur.**
6. Name and Address of Organizing College:
- College Name : **Dayanand Science College, Latur.**  
Department (s) : **Computer Science**  
Address : **Dayanand Science College, Barshi Road, Latur.**  
Pin : **02382-413512**  
Phone No. : **9822797930**  
E-mail : **rvmali007@gmail.com**
- Name of the affiliating University : **Swami Ramanand Teerth  
Marathwada University, Nanded.**
7. Name and Designation of Convener / Organizing Secretary/Co-ordinator:
- 1) **Dr. J.S. Dargad, Principal, Dayanand Science College, Latur.**
  - 2) **Dr. R. B. Shinde, Asst. Professor, Department of Computer Science. (Co-ordinator).**
  - 3) **Miss K. V. Kadam, Department of Computer Science (Trainer).**





**Dayanand Science College, Latur.**  
**Department of Computer Science**  
**Under UGC-CPE Skill Development Program**  
**Conducts 10 Days Workshop On**  
**Obstacle Detection Robot**  
**Syllabus Detailed**

<b>1. Introduction to Robot</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Definition of Robot	2
ii. Types of Robot	1

<b>2. Overview</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Introduction to Components	2

<b>3. Component 1: Arduino Uno</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Board description	1
ii. Detailed Overview	1

<b>4. Introduction to Arduino IDE</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Basics of IDE	1
ii. Introductory Coding	1

<b>5. Bluetooth</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Introduction	1
ii. Introductory Program (IDE)	2
iii. Interfacing through Arduino	2
iv. Setup	1

<b>6. Servomotor</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Introduction	2
ii. Introductory Program (IDE)	2
iii. Interfacing through Arduino	2
iv. Setup	2





<b>7. Ultrasonic Sensor</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Introduction	2
ii. Introductory Program (IDE)	2
iii. Interfacing through Arduino	2
iv. Setup	2

<b>8. Combination of Ultrasonic and Servo motor</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Introduction	2
ii. Introductory Program (IDE)	2
iii. Interfacing through Arduino	2
iv. Setup	2

<b>9. DC Motor and DC Driver</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Introduction	2
ii. Introductory Program (IDE)	2
iii. Interfacing through Arduino	2
iv. Setup	2

<b>10. Final Demonstration Part 1( without Ultrasonic and Servo)</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Construction	1
ii. Coding (IDE)	1
iii. Interfacing	1
iv. Working	1

<b>11. Final Demonstration Part 2(With Ultrasonic and Servo)</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Construction	1
ii. Coding (IDE)	1
iii. Interfacing	1
iv. Working	1

<b>12. Final Demonstration Part 2(With Ultrasonic and Servo)</b>	
<b>Topic</b>	<b>Number of hours Required</b>
i. Construction	1
ii. Coding (IDE)	1
iii. Interfacing	1
iv. Working	1

*Grinde*

Workshop Coordinator

*[Signature]*

Principal  
Dayanand Science College  
LATUR



**Section B**

A. Title of the activity : UNDER UGC-CPE Skill development Program

**10 Days Workshop on Obstacle Detection Robot**

B. Aims / Objectives (in at least 500 words):

1. In this workshop we shall make the platform for the BSC and BCS First Year and Second Year students for learning new technologies.
2. Under the UGC-CPE Skill development program department organizes such skill development activity which improves to students and enhance their new skills and new technologies.
3. As the maximum practical sessions are planed for this workshop it gives basic knowledge of robotics.
4. This workshop may create students interest in this resent field and gives the basic guideline to enter in this new field.
- 5.

C. Target audience / participants with expected number:

**B.Sc. (CS) First Year/Second Year, BSC First Year /Second Year Students. :- 50 ;**

D. Details of Sessions:

<b>Introduction to Robot</b>	
<b>Topic</b>	<b>Date</b>
iii. Definition of Robot	30 Nov 2019
iv. Types of Robot	30 Nov 2019

<b>Overview</b>	
<b>Topic</b>	<b>Number of hours Required</b>
ii. Introduction to Components	30 Nov 2019

<b>Component 1: Arduino Uno</b>	
<b>Topic</b>	<b>Number of hours Required</b>
iii. Board description	30 Nov 2019
iv. Detailed Overview	1 Dec 2019

<b>Introduction to Arduino IDE</b>	
<b>Topic</b>	<b>Number of hours Required</b>
iii. Basics of IDE	1 Dec 2019
iv. Introductory Coding	1 Dec 2019

<b>Bluetooth</b>	
<b>Topic</b>	<b>Number of hours Required</b>
v. Introduction	1 Dec 2019





vi.	Introductory Program (IDE)	1 Dec 2019
vii.	Interfacing through Arduino	1 Dec 2019
viii.	Setup	2 Dec 2019

**Servomotor**

Topic	Number of hours Required
v. Introduction	2 Dec 2019
vi. Introductory Program (IDE)	2 Dec 2019
vii. Interfacing through Arduino	3 Dec 2019
viii. Setup	3 Dec 2019

**Ultrasonic Sensor**

Topic	Number of hours Required
v. Introduction	4 Dec 2019
vi. Introductory Program (IDE)	4 Dec 2019
vii. Interfacing through Arduino	4 Dec 2019
viii. Setup	5 Dec 2019

**Combination of Ultrasonic and Servo motor**

Topic	Number of hours Required
v. Introduction	5 Dec 2019
vi. Introductory Program (IDE)	5 Dec 2019
vii. Interfacing through Arduino	6 Dec 2019
viii. Setup	6 Dec 2019

**DC Motor and DC Driver**

Topic	Number of hours Required
v. Introduction	6 Dec 2019
vi. Introductory Program (IDE)	7 Dec 2019
vii. Interfacing through Arduino	7 Dec 2019
viii. Setup	8 Dec 2019

**Final Demonstration Part 1 (without Ultrasonic and Servo)**

Topic	Number of hours Required
v. Construction	8 Dec 2019
vi. Coding (IDE)	8 Dec 2019
vii. Interfacing	8 Dec 2019
viii. Working	9 Dec 2019

**v. Final Demonstration Part 2 (With Ultrasonic and Servo)**

Topic	Number of hours Required
v. Construction	9 Dec 2019
vi. Coding (IDE)	9 Dec 2019
vii. Interfacing	9 Dec 2019
viii. Working	9 Dec 2019





<b>vi. Final Demonstration Part 2(With Ultrasonic and Servo)</b>	
<b>Topic</b>	<b>Number of hours Required</b>
v. Construction	9 Dec 2019
vi. Coding (IDE)	9 Dec 2019
vii. Interfacing	9 Dec 2019
viii. Working	9 Dec 2019

E. Expected outcome:

The expected outcomes of the workshop on “Obstacle Detection Robot” is participants are able to develop various applicable projects some of the projects are listed below.

1. To make aware about basic knowledge of robotics field and able to develop small domestics robot.
2. Participants may able to develop a small application oriented robot such as obstacle detection, voice recognition and follow simple voice commands.
3. Participant may able to develop a robot for blind peoples which gives instruction to these disabled peoples while walking on street. And also guide them for reaching to their specific destination.
4. This workshop Aims to focus on various robotics fields and try to develop small elements which are applicable in society such as assembling a robot for shops which protects shop like jewelry shop at night.
5. This workshop focuses on encouraging the students for getting attention and compete in advanced technology and other Application area and online support services. Apart from that, the students can try their hands in the field of research in Computer Science as this workshop will enlighten the knowledge of applications of Computers.

*Handwritten signature*

Signature of Organizing Co-ordinator  
~~Secretary~~

*Handwritten signature*

Signature of Principal of College  
(with seal)

PRINCIPAL  
Dayanand Science College  
LATUR

Place: Latur.

Date: 19 Dec, 2019





### Annexure:-I

#### (Institution Information)

#### 1. The few words about the trust and the Institution:

It was fifty two years ago, when the leading citizens from the different fields of life of Latur area, namely: Shri. Manikraoji Sonavane, Shri. Chandrashekharji Bajpai, Shri. Keshavraoji Sonavane, Shri. Ramgopalji Rathi, Shri. Nathmalji Inani, Shri. Shantilalji Shah and Shri. Madanlalji Biyani, recognized the importance of higher education in order to achieve the overall progress and prosperity of the region. These dignitaries came together and decided to start a college in Latur. As many of them were followers of "AryaSamaj", they proposed the name of Swami Dayanand for the education society. Hence, the name "**Dayanand Education Society**". The modest beginning was the foundation of Dayanand College of Arts, Science and Commerce Latur, in the year 1961. In 1964, the inclusion of Late Shri Raja Narayanlalji Lahoti in the society, gave enormous moral support to the development of the society. The society has now made such a rapid progress with the establishment of three separate single faculty colleges by the society.

It was felt by the Society to offer quality education in science to the students of this rural area. Therefore Science College was separated with an independent status as "Dayanand Science College, Latur" in the year 1967. This proved to be a milestone in the development of science education of the region. Under the able and dynamic leadership of Principal K.H. Purohit, the college made outstanding progress. Now "Dayanand Science College, Latur" is one of the well-known and reputed Science Colleges in Maharashtra State. Initially, the college offered under graduate (UG) course with the basic subjects like Physics, Chemistry, Electronics, Botany and Zoology. Keeping the pace with time and sensing the needs of the students, applied subjects like Industrial Chemistry, Microbiology, Fishery Science and Electronics were introduced in the year 1978-79. The year 1977 saw us through a wonderful achievement viz. a separate new building of Science College was constructed to accommodate class rooms. The new building was inaugurated at the auspicious hands of the then Vice-President of India Hon. Shri. B. D. Jatty. Being a single faculty science college having long standing establishment, the Management, Ex-Principal Dr. G.M. Deshmukh and staff gave a serious thought to introduce post graduate (PG) courses in Physics, Chemistry, and Microbiology in 1992. Introduction of PG courses benefited UG students of this area, because at that time Physics and Chemistry courses were run at the University level only and Microbiology course was run by the Government Institute of Science, Aurangabad. The introduction of these PG courses accounted to the vertical growth of our college. During the same period, the Computer Centre was established to impart computer education to the staff and students leading to certificate course. Journals and periodicals are available in the reading room. The college has a team of highly qualified young and long-standing experienced talented teaching staff holding Ph.D. and M. Phil. degrees. Most of the times the students topped in ranking in the University examinations both at UG and PG levels

Now Dayanand Education Society has completed 52 years establishing one after another educational Institutes at Latur according to the growing needs of local





community. With the independence status, each College is growing up very rapidly. Now all the independent colleges are under the umbrella of Dayanand Education Society, have got best reputation in the state. Today the trust is running the following colleges at its educational complex of 22 acres of land.

- i) Dayanand Science Senior College
- ii) Dayanand Science Junior College
- iii) Dayanand Arts Senior College
- iv) Dayanand Arts Junior College
- v) Dayanand Commerce Senior College
- vi) Dayanand Commerce Junior College
- vii) Dayanand Law College
- viii) Dayanand Pharmacy College
- ix) Dayanand College of Interior Design

Every College has its independent infrastructure and building. Near about 10,000 students are taking educations in these institutes from Junior to Senior College up to UG, PG and Ph.D. level. In this Institute nearly about 800 teaching and non-teaching staff working continuously to achieve the mission and goals of the institute. Each senior college has different additional certificate courses and Research Laboratories. All the colleges run by the trust are well-equipped, furnished fulfilling all the infrastructural needs having 24 hours water supply, sufficient light arrangements and fully qualified and experienced teaching and non-teaching staff. The managing body of the trust is very keen to fulfill the vacant posts as per reservation norms of State Government. The institute is financially competent to start new courses and programmes according to the need of the community. Hon. Chairman, Hon. Office bearers and Hon. Directors of the managing body as well as the members of the trust are dedicated to attain educational goals, having experience of running the trust for long years devoting their valuable time for the fulfillment of educational needs of the local community.

Hon. President, Vice-President, Secretary as well as members of the managing body are always having informal chats with the parents, students, non-teaching employees, teachers and office bearers and heads of the different colleges run by the trust. The purpose is to acquire the first hand knowledge and information and to take feedback on the strengths and weaknesses of the Institutes. The Institute has the huge AC auditorium, Cricket stadium; Tennis court, indoor stadium, big ladies hostel and boy's hostel with facility of Wi-Fi, Sanstha's guest's room, spacious play-ground in the campus. The Institute has provided all the infrastructural facilities like building, laboratories, library, reading room, class rooms, girl's waiting room, store room, multi-purpose hall, purified, hygienically safe and cool drinking water arrangements in each colleges. The academic map is growing fast. The results are above 90% of all the classes. The College are equipped with audio-visuals as well as reprographic and IT facilities. The staff is highly qualified devoted and dedicated to teaching, learning, research and extension work, taking teaching as not profession but mission of their life.

In the last but-one year our Institution celebrated Golden Jubilee Year by organizing different programs and its closing ceremony program was organized by the hands of president of India **Hon. Pranb Mukharjee, President of India**. in auspicious presence of **Hon. K. Shankarnaryan** (Governor of Maharashtra), **Hon. Shivraj Patil Chakurkar** (Governor of Punjab), **Hon. Prathviraj Chavan** (Chief Minister of





Maharashtra), **Hon. Rajesh Tope**(Minister of Higher Education, Maharashtra), **Hon. Rajendra Darda**(Minister of Education, Maharashtra) We are proud to mention that the Institute is completely free from the devastating and destructive activities like ragging, exploitation and torture to the girls as well as the female staff members, addiction to brown sugar, chorus, ganja, gurd, smoking, tobacco chewing and alcoholism etc. The College Parivar is successful to maintain communal harmony and brotherhood among the students and staff members belonging to different castes and religions. The institute has achieved much, yet it desires to go one step further in each and every academic year. We would like to quote Robert Frost's couplet which was strongly appreciated by Pandit Neharuji, our first Prime-Minister and were placed on his office table throughout his life:

*"The woods are lovely, dark and deep,  
But I have promises to keep,  
And miles to go before I sleep,  
And miles to go before I sleep."*

## 2. The few words about the Dayanand Science College:

Dayanand Science College, Latur (MS), is unique, first oldest and the finest single faculty college of the region, pursuing excellence in education in several branches of Science. Keeping in view the educational needs of the region, Dayanand Education Society, a local management committee, established Dayanand College of Arts, Science and Commerce in the year 1961. In those years, this was the only college established in this area and was catering the needs of the students. In the year 1967, the multi faculty college was bifurcated giving independent status to Dayanand Science College.

Initially the college offered under graduate courses with basic subjects Physics, Chemistry, Electronics, Botany and Zoology. Keeping pace with time and sensing the needs of the students, applied subjects like Electronics, Microbiology, Industrial Chemistry, Fishery Science and Computer Science were started from the year 1978 and subsequently, This College has now become a center to awaken people on the current trends in higher education. Considering the importance of higher education in science, various Post Graduate courses were introduced time to time. M.Sc. Chemistry (Organic), M.Sc. (Microbiology), M.Sc.(Computer Science), M.Sc. (Biotechnology) and PG diploma in Bioinformatics. The continuous research work is going on in the Departments of Electronics, Microbiology, Biotechnology, Physics, Botany, and Zoology for the guidance to the Ph. D students. Besides imparting education for formal degree and post graduate degree education, the college is offering seven one year career oriented certificate courses under career oriented programs of University Grants Commission.

University examination Results of our college are highly appreciable. Passing percentage of our college is always more than that of university. In this academic year 836 students of which 434 are boys and 395 are girls are studying in the different course. In our college granted permanent faculty members are 25 out of which 12 are Ph.D., holders. The strength of non-grant faculty is 18 and CHB faculty is 21. The total faculty strength is 64 and non teaching granted non-granted faculty is 88.

The College has come under **2(F)** and **12(B)** section since 1972 of the UGC Act. The college offers **02 UG, 05 PG, 05 Ph.D.** programs, **07 COP, UGC Certificate**





**courses.** The college accredited with B<sup>++</sup> Grade in the year 2004 by the National Accreditation and Assessment Council of India (NAAC).

Recently, in the year 2012-13, college has got recognition as **DST-FIST** (Fund for Improvement-in Science and Technology) from Department of Science and Technology, New Delhi with a sanctioned grant of Rs. 67.5 lacks.

In addition to the conventional academic activities, our college undergoes several co-curricular and extension activities for the overall personality development of students. The college runs national ambient air quality project and received **43,50,000/-** Rupees amount from the state Government Maharashtra.

Dayanand Science College is well established college in Maharashtra, it has started in 1961. The college is 'A' grade college with NAAC Reaccreditation in 2014 & The Best College Award given by Swami Ramanand Teerth Marathwada University, Nanded in 2014. The College has organized number of Academic Programs such as workshops sponsored by U.G.C., Seminars and Nine "INSPIRE" internship programs for junior college students funded b Department of Science & Technology, New Delhi. The college will provide lecture Hall with auditorial facilities, Power supply and all other necessary facilities will be provided by the college.

#### Annexure:-II

### Schedule

#### Important Dates

Scheduled Date of Work shop: 30<sup>th</sup> Nov 2019

Registration for workshop: Upto 29<sup>th</sup> Nov 2019

#### Registration:

Registration Fees                      Before or on

Faculty                                      Rs. 400 /-

1. The registration form is available Department of Computer Science in Dayanand Science College
2. Registration fees once paid are not refundable.





**Annexure:-III**

**Organizing Committee:**

**1. Our Patrons:**

**Hon. Laxmiramanji Lahoti**

(President of Dayanand Education Society, Latur.)

**Hon. Arvindraoji Sonvane**

(Vice-President of Dayanand Education Society, Latur.)

**Hon. Rameshji Biyani**

(Secretary of Dayanand Education Society, Latur.)

**Hon. Sureshji Jain**

(Joint Secretary of Dayanand Education Society, Latur.)

**2. Organizing Committee:**

**Chairman**

**Dr. J.S. Dargad**

(Principal, Dayanand Science College, Latur.)

**Co-Ordinator**

**Dr. R. B. Shinde**

(Assistant Professor, Department Of Computer Science, Dayanand Science College, Latur.)

**Trainer**

**Miss K. V. Kadam**

(Assistant Professor Department of Computer Science)

**3. Local Organizing Committee:**

**Mrs. S. A. Jaju**

(Assistant Professor, Coordinator of Computer Science, Dayanand Science College, Latur.)

**Mrs Kale Sujata V.**

(Assistant Professor Department of Computer Science)

**Mr. Sugare M.B**

(Assistant Professor Department of Computer Science)

**4. Contact Details:**

**Dr. R. B. Shinde**

(Department Of Computer Science, Dayanand Science College, Latur.)

**Department of Computer Science,  
Dayanand Science College, Latur.**

**Maharashtra (India) 413512.**

**E-mail:- [rvmali007@gmail.com](mailto:rvmali007@gmail.com)**

**Contact: 9822797930**



**Annexure:-IV****A. Department at Glance**

21<sup>st</sup> century is a century of digital era. In this era everyone should computer literate. Dayanand Science College established a computer science department in 1999 as a sister department of Physics under the leadership of **Prof. S.V. Deshmukh**. The objective of this course is to bring the youth in mainstream of modern society. As Latur is in Marathwada region and most of the students are from rural area. In order to fulfil the needs of the region and to keep pace with the modern age College started professional UG course **BSC (CS)** in 2009 and PG Course **MSC CS** in 2011. Department Continuously motivate student to become employable in Multinational companies & Industries. **Prof. K. N. Rathod** leads the department from 1 May 2010 to June 2017 with ample of contribution in development of department. Currently the department was headed by **Dr. L. V. Thakre**. **Ms. Jaju S. A.** is working as co-ordinator from March 2015 till date. Workload of Computer Science Subject is distributed among 9 Faculties **Dr. R. B. Shinde** is appointed as permanent full time Faculty as Assistant professor from August 2018.

**Department running courses & Intake Capacity**

1. BSC (Computer Science Optional)	40
2. BSC (Computer Science)	80
3. MSc (Computer Science)	30

Every year Intake Capacity of each course is get fulfil.







# 10 Days Workshop On Obstacle Detection Robot

Date: 10-10-19

Day: Tuesday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Hudge Gaurav	DSCl		
2	Dumgkar Akash	---		
3	Mahpati Swapnil	DSCl		
4	Moinuddin <sup>Shaktik</sup>	DSCl		
5	Bavastkar Kedar	---		
6	Giri Rajesh B.	DSCl		
7	Jadhav Anil	DSCl		
8	Indrale Vijay	DSCl		
9	Salunke Priya	DSCl		
10	mane varsha	DSCl		
11	Ate Mohini	---		
12	shinde Pratiksha	---		
13	Kranti Kalyani	---		
14	Bhutada Vaishnavi	DSCl		
15	Sneha Kawale	DSCl		
16	Shivange sneha	DSCl		
17	Shaikh Muskan	DSCl		
18	Joshi Harshada	DSCl		
19	Ghoshude Mayudi	DSCl		
20	Pingale Rohini	DSCl		
21	Rutuja Kavatikwar	DSCl		
22	Kadam Prannvati	DSCl		
23	Visaj Bhimpure	---		
24	Arate vidya A.	RSML		
25	Kandhore sagun v	RSML		
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Kadam/





Dayanand Science College Latur

# 10 Days Workshop On Obstacle Detection Robot

Date: 9-10-19

Day: Monday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Dumgkar Akash	DSC	Akash	Akash
2	Hudge Gourav	DSC	Gourav	Gourav
3	Sheikh Moimuddin		Sheikh	Sheikh
4	Sudipil Mathpati		SP	SP
5	Vinay Bhimpure		Vinay	Vinay
6	Jadhav Anil G.		Jadhav	Jadhav
7	Indrale Vijay		Vijay	Vijay
8	Bavastkar Kedare		Kedar	Kedar
9	Giri Rajesh		Rajesh	Rajesh
10	Salunke Priya	DSC	Priya	Priya
11	Mane Varsha		Varsha	Varsha
12	Kalyane Kranti		Kranti	Kranti
13	Alte Mohini		Mohini	Mohini
14	Shinde Pratiksha P		Pratiksha	Pratiksha
15	Kadam Prunvati S	DSC	Prunvati	Prunvati
16	Shaikh Muskan	DSC	Muskan	Muskan
17	Joshi Harshada V	DSC	Harshada	Harshada
18	Kavatikar Rutuja		Rutuja	Rutuja
19	Pinagle Rohini		Rohini	Rohini
20	Shivange Sneha	DSC	Sneha	Sneha
21	Ghorude Mayuri	DSC	Mayuri	Mayuri
22	Anate Vidya	RSM	Vidya	Vidya
23	Kandhale Sagor V	RSM	Sagor	Sagor
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Jadhav





Dayanand Science College Latur

## 10 Days Workshop On Obstacle Detection Robot

Date: 8-10-19

Day: Sunday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Dumgkar Akash	DSCI	<u>Akash</u>	<u>Akash</u>
2	Hudga Gourav	DSCI	<u>Gourav</u>	<u>Gourav</u>
3	Matapati Swapnil	DSCI	<u>Sw</u>	<u>Sw</u>
4	Bhimrao Vidaj	DSCI	<u>Bhimrao</u>	<u>Bhimrao</u>
5	Shaikh Moinudeen	—————	<u>Shaikh</u>	<u>Shaikh</u>
6	Bavaskar Pooja	—————	<u>Pooja</u>	<u>Pooja</u>
7	Salunke Priya	—————	<u>Priya</u>	<u>Priya</u>
8	Kalyane Kranti	—————	<u>Kranti</u>	<u>Kranti</u>
9	Ate Mohini S.	—————	<u>Mohini</u>	<u>Mohini</u>
10	Shinde Pratiksha	—————	<u>Pratiksha</u>	<u>Pratiksha</u>
11	mane Varsha	—————	<u>Varsha</u>	<u>Varsha</u>
12	Shaikh Muskan	DSCI	<u>Muskan</u>	<u>Muskan</u>
13	Kadam Pranvati	DSCI	<u>Pranvati</u>	<u>Pranvati</u>
14	Ghorude Mayuri	DSCI	<u>Mayuri</u>	<u>Mayuri</u>
15	Kavathakar Rutuja	—————	<u>Rutuja</u>	<u>Rutuja</u>
16	Shirange Sneh	DSCI	<u>Sneh</u>	<u>Sneh</u>
17	Pingale Rohini	DSCI	<u>Rohini</u>	<u>Rohini</u>
18	Joshi Harshada	DSCI	<u>Harshada</u>	<u>Harshada</u>
19	Chate Varsha K.	DSCI	<u>Varsha</u>	<u>Varsha</u>
20	Vaishanvi Bhutada	DSCI	<u>Vaishanvi</u>	<u>Vaishanvi</u>
21	Kandhore Sagar V	RSMZ	<u>Sagar</u>	<u>Sagar</u>
22	Arate Vidya A.	RSMZ	<u>Vidya</u>	<u>Vidya</u>
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Hudga





Dayanand Science College Latur

# 10 Days Workshop On Obstacle Detection Robot

Date: 7-10-19

Day: Saturday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Shaikh Muskan	DSCCL	Shaikh	Shaikh
2	Pingale Rohini	DSCCL	Rohini	Rohini
3	Shirange Sneha	DSCCL	Sneha	Sneha
4	Ghorude Mayuri	DSCCL	Mayuri	Mayuri
5	Kadam Pranvati	DSCCL	Pranvati	Pranvati
6	Joshi Harshada	DSCCL	Harshada	Harshada
7	Hudge Chauhan	DSCCL	Hudge	Hudge
8	Mathpati Swapnil	DSCCL	Mathpati	Mathpati
9	Bhimpure Viraj	DSCCL	Bhimpure	Bhimpure
10	Shaikh Moinuddin	---	Shaikh	Shaikh
11	Bhutada Vaishnavi	DSCCL	Vaishnavi	Vaishnavi
12	Dumgkar Akash	---	Akash	Akash
13	chate varsha	---	chate	chate
14	kalyane kranti	---	Kalyane	Kalyane
15	Salunke priya	---	Priya	Priya
16	mane varsha	---	Mane	Mane
17	Alte Mohini S.	---	Alte	Alte
18	Shinde pratiksha	---	Pratiksha	Pratiksha
19	Kavaskar Adarsh	---	Adarsh	Adarsh
20	Jadhav Anil A.	---	Jadhav	Jadhav
21	Rini Rajesh	---	Rini	Rini
22	Arate Vidya A.	RSMZ	Arate	Arate
23	Kandhase sagor V	RSMZ	Kandhase	Kandhase
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Dayanand Science College Latur

# 10 Days Workshop On Obstacle Detection Robot

Date: 6-10-19

Day: Friday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Shivange sneha	DSCl	Sneha	Sneha
2	Shalkh Muskan	DSCl	Shalkh	Shalkh
3	Kadam Pranvati	DSCl	Pranvati	Pranvati
4	Joshi Harshada	DSCl	Harshada	Harshada
5	Kavathikar Rutuja	—	Rutuja	Rutuja
6	Gherude Mayuri	DSCl	Mayuri	Mayuri
7	Alte Mohini S.	—	Alte	Alte
8	Varsha mane	—	varsha	varsha
9	Shinde Pratiksha	—	Pratiksha	Pratiksha
10	Salunke Priya	—	Priya	Priya
11	Kalyane Kranti C.	—	Kranti	Kranti
12	Chate varsha K.	—	Chate	Chate
13	Mathpati Swapnil	DSCl	Swapnil	Swapnil
14	Rhimare vijay	DSCl	Rhimare	Rhimare
15	Shreikh Mainudehi	—	Shreikh	Shreikh
16	Hudge Gaurav	"	Gaurav	Gaurav
17	Dumgkar Akash	"	Akash	Akash
18	Bhutada Vaishnavi	DSCl	Vaishnavi	Vaishnavi
19	Arate Vidya A.	RSML	Vidya	Vidya
20	Kandhore sagor V	RSML	Sagor	Sagor
21	Giri Rajesh S	DSCl	Rajesh	Rajesh
22	Jadhav Anil G.	DSCl	Anil	Anil
23	Bavastkar Keelav	—	Keelav	Keelav
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Dayanand Science College Latur

## 10 Days Workshop On Obstacle Detection Robot

Date: 5-10-19

Day: Tuesday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Harshada V. Joshi	D S C I	<u>Harshada</u>	<u>Harshada</u>
2	Sneha V. Shirange	D S C L	<u>Sneha</u>	<u>Sneha</u>
3	Rutuja R. Kavatikar	D S C L	<u>Rutuja</u>	<u>Rutuja</u>
4	Rohini B. Pingale	D S C L	<u>Rohini</u>	<u>Rohini</u>
5	Kadam Pranvati S.	D S C I	<u>Pranvati</u>	<u>Pranvati</u>
6	Ghorude Mayuri	D S C I	<u>Mayuri</u>	<u>Mayuri</u>
7	Hudge Gourav	D S C L	<u>Gourav</u>	<u>Gourav</u>
8	Shaikh Meenuddin	—————	<u>Shaikh</u>	<u>Shaikh</u>
9	Mathani Swapnil	<del>D S C I</del> D S C I	<u>Swapnil</u>	<u>Swapnil</u>
10	Bhimpure Vireaj	D S C I	<u>Vireaj</u>	<u>Vireaj</u>
11	Dumgkar Akash	D S C I	<u>Akash</u>	<u>Akash</u>
12	Jadhav Anil R.	D S C L	<u>Anil</u>	<u>Anil</u>
13	Giri Rajesh	D S C I	<u>Rajesh</u>	<u>Rajesh</u>
14	Bavaskar Kedare	D S C I	<u>Kedare</u>	<u>Kedare</u>
15	Indrale Vijay	D S C I	<u>Vijay</u>	<u>Vijay</u>
16	Kandharp Sagar	shahu college latur	<u>Sagar</u>	<u>Sagar</u>
17	Alte Mohini S.	D S C I	<u>Mohini</u>	<u>Mohini</u>
18	Salunke Priya	—————	<u>Priya</u>	<u>Priya</u>
19	Kalyane Kranti	—————	<u>Kranti</u>	<u>Kranti</u>
20	Shinde Pratiksha	—————	<u>Pratiksha</u>	<u>Pratiksha</u>
21	Mane Varsha	—————	<u>Varsha</u>	<u>Varsha</u>
22	Chate Varsha	—————	<u>Varsha</u>	<u>Varsha</u>
23	Vidya Arate A.	R S M L	<u>Vidya</u>	<u>Vidya</u>
24	Bhutada Vaishnavi	D S C L	<u>Vaishnavi</u>	<u>Vaishnavi</u>
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Dayanand Science College Latur

## 10 Days Workshop On Obstacle Detection Robot

Date: 4-10-19

Day: Wednesday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Viraj Bhimpure	DSCI	<u>Viraj</u>	<u>Viraj</u>
2	Swarnil Patilpatil	DSCI	<u>Swarnil</u>	<u>Swarnil</u>
3	Shaikh Moimudelin	— " —	<u>Shaikh</u>	<u>Shaikh</u>
4	Dumgkar Akash	— " —	<u>AKASH</u>	<u>AKASH</u>
5	Vinirajesh B.	DSCI, Latur	<u>Viniraj</u>	<u>Viniraj</u>
6	Baraske Kedar	DSCI	<u>Kedar</u>	<u>Kedar</u>
7	Kandhore sagor V.	RSM2	<u>Kandhore</u>	<u>Kandhore</u>
8	Jadhav Anil G.	Jadhav DSCI	<u>Jadhav</u>	<u>Jadhav</u>
9	Indraje Vijaya	DSCI	<u>Vijaya</u>	<u>Vijaya</u>
10	Mane Varsha Nitaji	— " —	<u>Varsha</u>	<u>Varsha</u>
11	shinde Pratiksha	— " —	<u>Pratiksha</u>	<u>Pratiksha</u>
12	kalyane Kranti	— " —	<u>Kranti</u>	<u>Kranti</u>
13	Alte Mohini S.	— " —	<u>Mohini</u>	<u>Mohini</u>
14	Kawate Sneha N.	"	<u>Sneha</u>	<u>Sneha</u>
15	Balunke Priya	"	<u>Priya</u>	<u>Priya</u>
16	Bhutada Vaishanavi	"	<u>Bhutada</u>	<u>Bhutada</u>
17	Ghorude Mayuri	DSCI	<u>Mayuri</u>	<u>Mayuri</u>
18	Shivange sneha	DSCI	<u>Sneha</u>	<u>Sneha</u>
19	Kadam Pranvati	DSCI	<u>Pranvati</u>	<u>Pranvati</u>
20	Kavatikar Rutuja	— " —	<u>Rutuja</u>	<u>Rutuja</u>
21	Pingale Rohini	DSCI	<u>Rohini</u>	<u>Rohini</u>
22	Joshi Harshada	DSCI	<u>Harshada</u>	<u>Harshada</u>
23	Arate Vidya A.	RSM2	<u>Vidya</u>	<u>Vidya</u>
24	Hudge Gaurav	DSCI	<u>Gaurav</u>	<u>Gaurav</u>
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Dayanand Science College Latur

# 10 Days Workshop On Obstacle Detection Robot

Date: 3-10-19

Day: Tuesday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Kavolikar Rutuja R.	DSCL	Rutuja	Rutuja
2	Joshi Harshada	DSCL	Harshada	Harshada
3	Shaikh Muskan	DSCL	Shaikh	Shaikh
4	Pingale Rohini	DSCL	Rohini	Rohini
5	Ghorude Mayuri	DSCL	Mayuri	Mayuri
6	Kadam Pranvati	DSCL	Pranvati	Pranvati
7	Shivange Sneha	DSCL	Sneha	Sneha
8	Arate Vidya A.	RSML	Vidya	Vidya
9	Salunke Priya	DSCL	Priya	Priya
10	Aite Mohini S.	DSCL	Mohini	Mohini
11	Mane varsha Netaji	—	Varsha	Varsha
12	Kalyane Kranti C.	—	Kranti	Kranti
13	Shinde Pratiksha	—	Pratiksha	Pratiksha
14	Kawale Sneha Nirrati	—	Sneha	Sneha
15	Chate varsha	—	Chate	Chate
16	Bhutada Vaishnavi	DSCL	Vaishnavi	Vaishnavi
17	Bavaskar Fedar	DSCL	Fedar	Fedar
18	Jadhav Anil	DSCL	Anil	Anil
19	Kandhare Sagar	RSML	Sagar	Sagar
20	Giri Rajesh	DSCL	Rajesh	Rajesh
21	Indrale Vijay	DSCL	Vijay	Vijay
22	Shaikh Minudehin	—	Shaikh	Shaikh
23	Mattari Swapnil	BSC Sy	Swapnil	Swapnil
24	Vidaj Bhimpure	—	Vidaj	Vidaj
25	Dumgar Akash	DSCL	Akash	Akash
26	Hudge Gourav	DSCL	Gourav	Gourav
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Dayanand Science College Latur

# 10 Days Workshop On Obstacle Detection Robot

Date: 2 - Dec - 2019

Day: Monday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Hudge Gaurav	DSCL	Gaurav	Gaurav
2	Dungkar Akash	—	Akash	Akash
3	Swarnil Mathpati	—	Swarnil	Swarnil
4	Vijay Bhim pure	—	Vijay	Vijay
5	Shaikh Moiruddin	—	Shaikh	Shaikh
6	Bhawakar Kedar	—	Kedar	Kedar
7	Erini Rajesh	—	Erini Rajesh	Erini Rajesh
8	Indrule Vijay	—	Indrule Vijay	Indrule Vijay
9	Jadhav Anil	—	Jadhav	Jadhav
10	Kandhale sagor	Rajesh Shah	Kandhale	Kandhale
11	Kalyane Kranti.c	DSCL	Kalyane	Kalyane
12	Salunke priya Bharat	DSCI	Salunke	Salunke
13	Alte Mohini Subhash	DSCI	Alte	Alte
14	Kawale, Sneha N.	DSCL	Sneha	Sneha
15	Mane Varsha Netaji	DSCI	Varsha	Varsha
16	Shirange sneha	DSCL	Sneha	Sneha
17	Pingale Rohini	DSCL	Rohini	Rohini
18	Joshi Harshada	DSCL	Joshi	Joshi
19	Shaikh Muskan	DSCL	Shaikh	Shaikh
20	Kadampranvati	DSCL	Pranvati	Pranvati
21	Ghorude Mayuri	DSCL	Mayuri	Mayuri
22	Kavathkar Rutuja	DSCL	Rutuja	Rutuja
23	Bhutade Vaishnavi Sudhir	DSCL	Bhutade	Bhutade
24	Chate Varsha K.	DSCL	Chate	Chate
25	Vidya Arate A.	RSML	Vidya	Vidya
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Dayanand Science College Latur

## 10 Days Workshop On

# Obstacle Detection Robot

Date: 1 - Dec - 2019

Day: Sunday

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Hudge Gaurav	DSCCL	<u>Gaurav</u>	<u>Gaurav</u>
2	Dumgkar Akash	<u>u</u>	<u>AKASH</u>	<u>AKASH</u>
3	Swarnil Mathpati	<u>u</u>	<u>SW</u>	<u>SW</u>
4	Visaj Bhimpure	<u>u</u>	<u>Visaj</u>	<u>Visaj</u>
5	Shaikh Moimuddin	<u>u</u>	<u>Shaikh</u>	<u>Shaikh</u>
6	Bavastar Jyot	<u>u</u>	<u>Jyot</u>	<u>Jyot</u>
7	Prini Rajesh	DSCCL	<u>Prini Raj</u>	<u>Prini Raj</u>
8	Jadhav Anil G	DSCCL	<u>Fathur</u>	<u>Jadhav</u>
9	Indrale Vijay G	DSCCL	<u>Vijay</u>	<u>Vijay</u>
10	Kandhale Sagar	Rajesh Shahu	<u>Rajesh</u>	<u>Rajesh</u>
11	Kalyane Kranti G	DSCCL	<u>Kranti</u>	<u>Kranti</u>
12	Salunke Priya Bharat	DSCCL	<u>Priya</u>	<u>Priya</u>
13	AHE Mohini Subhash	DSCCL	<u>Subha</u>	<u>Subha</u>
14	Mane Varsha Netaji	DSCCL	<u>Varsha</u>	<u>Varsha</u>
15	Kadam Pranvati G	DSCCL	<u>Pranvati</u>	<u>Pranvati</u>
16	Shirange Sneha	DSCCL	<u>Sneha</u>	<u>Sneha</u>
17	Pingale Rohini	DSCCL	<u>Rohini</u>	<u>Rohini</u>
18	Joshi Harshada	DSCCL	<u>Harshada</u>	<u>Harshada</u>
19	Shaikh Muskan	DSCCL	<u>Muskan</u>	<u>Muskan</u>
20	Kavatikawar Rutuja	DSCCL	<u>Rutuja</u>	<u>Rutuja</u>
21	Ghorude Mayuri	DSCCL	<u>Mayuri</u>	<u>Mayuri</u>
22	Chate Varsha K.	DSCCL	<u>Varsha</u>	<u>Varsha</u>
23	Vidya Arate A.	RSML	<u>Vidya</u>	<u>Vidya</u>
24	Bhutada Vaishnavi	DSCCL	<u>Vaishnavi</u>	<u>Vaishnavi</u>
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Dayanand Science College Latur

# 10 Days Workshop On Obstacle Detection Robot

Date: 30 November 2019

Saturday:

Sr. No	Name Of Students	College Name	Signature IN	Signature OUT
1	Kawale Sneha N.	Dayanand sci. college.	Sneha	Sneha
2	Salunke priya Bharat	Dayanand sci. college	Priya	Priya
3	chate varsha k.	dayanand sci. clg.	chate	chate
4	Bhutada Vaishnavi S	Dayanand sci clg	Vaishnavi	Vaishnavi
5	kalyane kranti.c	Dayanand sci clg.	Kranti	Kranti
6	Arate vidya A.	shahu sci clg.	Vidya	Vidya
7	Mane varsha Netaji	Dayanand sci clg.	Varsha	Varsha
8	Pingale Rohini Balaji	Dayanand sci clg.	Rohini	Rohini
9	Shaikh Muskan Mubarak	Dayanand sci clg	Shaikh	Shaikh
10	Joshi Harshada V.	—  —	Harshada	Harshada
11	Ghorude Mayuri	Dayanand-sci clg	Mayuri	Mayuri
12	Kadam Pranvati S	Dayanand -sci. clg	Pranvati	Pranvati
13	Kovatikawar Rutuja R.	—  —	Rutuja	Rutuja
14	Shivange sneha	Dayanand sci. clg	Sneha	Sneha
15	shinde Pratiksha P.	—  —	Pratiksha	Pratiksha
16	Jogdand Aachana M.	Dayanand sci clg	Aachana	Aachana
17	kulkarni Divya Dilip	Dayanand sci clg	Divya	Divya
18	Bhimpure Vijay	—  —	Vijay	Vijay
19	Mathpati Swapnil	—  —	Swapnil	Swapnil
20	Sarastar Kedar	—  —	Kedar	Kedar
21	Kandhore sagor v	—  —	Sagor	Sagor



22	Indraleeljay . 07	Dayanand sci. collg.	Indle	Indle
23	Dunghan Akash	Dayanand sci. collg.	Akash	Akash
24	Shaikh Moimuddin	Dayanand Sci. College.	Shaikh	Shaikh
25	Hudge Chaurav	Dayanand Science collg.	Gaure	Gaure
26	Binri Rajesh	D.S.C.L. Latur	Binri Raj	Binri Raj
27	Jadhav Anil	D.S.C.L. Latur	Anil	Jadhav
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Kadam

Kadam K. V .





### MAIN GATE



### Campus



Inner View



Library



Garden



PLAY GROUND



AUDITORIUM



GOLDEN

JUBILEE

### Programme



Reading Room



Girls hostel



Computer lab



Students Parking



Classroom

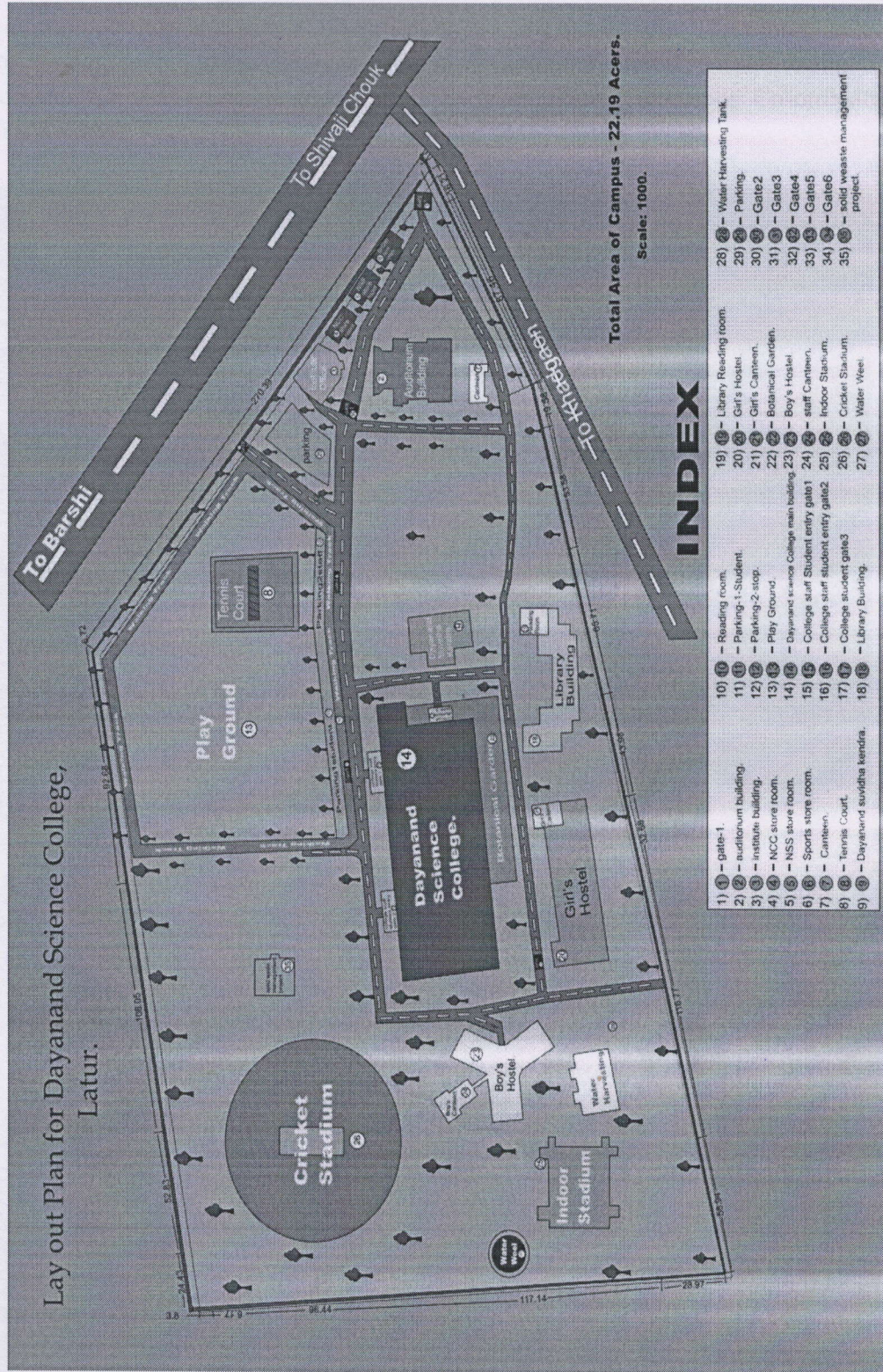


Digital Classroom





Map of institution



**INDEX**

- |                                 |  |                               |   |
|---------------------------------|--|-------------------------------|---|
| 1) ① - gate-1.                  | 10) ⑩ - Reading room.                          | 19) ⑲ - Library Reading room. | 28) ⑳ - Water Harvesting Tank.          |
| 2) ② - auditorium building.     | 11) ⑪ - Parking-1-Student.                     | 20) ⑳ - Girls Hostel          | 29) ㉑ - Parking.                        |
| 3) ③ - institute building.      | 12) ⑫ - Parking-2 stop.                        | 21) ㉒ - Girls' Canteen.       | 30) ㉓ - Gate2                           |
| 4) ④ - NCC store room.          | 13) ⑬ - Play Ground.                           | 22) ㉔ - Botanical Garden.     | 31) ㉕ - Gate3                           |
| 5) ⑤ - NSS store room.          | 14) ⑭ - Dayanand Science College main building | 23) ㉖ - Boy's Hostel          | 32) ㉗ - Gate4                           |
| 6) ⑥ - Sports store room.       | 15) ⑮ - College staff Student entry gate1      | 24) ㉘ - staff Canteen.        | 33) ㉙ - Gate5                           |
| 7) ⑦ - Canteen.                 | 16) ⑯ - College staff student entry gate2      | 25) ㉚ - Indoor Stadium.       | 34) ㉛ - Gate6                           |
| 8) ⑧ - Tennis Court.            | 17) ⑰ - College student gate3                  | 26) ㉜ - Cricket Stadium.      | 35) ㉝ - solid waste management project. |
| 9) ⑨ - Dayanand suvidha kendra. | 18) ⑱ - Library Building.                      | 27) ㉟ - Water Well            |   |





### Photo Graphs

Dr. Raavishankr Borgaonkar (Associate Professor Norway), Mr. Mahesh Patrike (Regional Co-ordinator MKCL, PUNE), Dr. J. S. Dargad Principal, Dayanand Science College, Dr. L. V. Thakre HOD Department of Computer Science, Mrs. S. A. Jaju Co-ordinator Computer science department, Dr. R. B. Shinde Workshop Co-ordinator , Miss Kanchan Kadam (Workshop Trainer) and participants











▶ दयानंद विज्ञान महाविद्यालयात एक दिवसीय कार्यशाळा

▶ डॉ. रविशंकर बोरगावकर यांचे प्रतिपादन

# संगणकशास्त्रात संशोधन करून संधीचे सोने करा

**लातूर : प्रतिनिधी**

सध्याचे युग हे संगणकाचे असल्यामुळे संगणकशास्त्र या विषयात भाविष्य घडविण्याच्या अनेक संधी आहेत. या विषयात आवड व गोडी निर्माण करून नवनवीन संशोधन करावे. भारतात आणि जागतिक स्तरावर संगणकाचे ज्ञान असलेल्या तज्ज्ञ व्यक्तींना या स्पर्धेच्या युगात भरपूर संधी आहेत. म्हणून भारताबरोबर युरोप, फ्रान्स, अमेरिका, जर्मनी, चीन अशा अनेक देशांत जाऊन, तेथे संशोधन करून स्वतःच्या पायावर सक्षम रहावे व देशाचे नाव उज्वल करावे, असे प्रतिपादन नॉर्वे येथील डॉ. रविशंकर बोरगावकर यांनी केले.

दयानंद विज्ञान महाविद्यालयात संगणकशास्त्र विभागाच्या वतीने 'संगणकशास्त्र विषयातील विद्यार्थ्यांसाठी



उद्योग-मुख्य संधी' या विषयावर एक दिवसीय कार्यशाळेच्या प्रसंगी डॉ. बोरगावकर बोलत होते. कार्यक्रमाच्या अध्यक्षस्थानी प्राचार्य डॉ. जयप्रकाश दसाड होते. या प्रसंगी एमकेसीएल पुणेचे विभागीय समन्वयक महेश पत्रिके, संगणकशास्त्र विभागाप्रमुख ललित ठाकरे,

कार्यशाळा समन्वयक डॉ. रोहिणी शिंदे, प्रा. संगीता जाजू, महेश पत्रिके यांची प्रमुख उपस्थिती होती. या प्रसंगी पत्रिके असे म्हणाले की, संगणक क्षेत्रात जागतिकपेक्षा स्थानिक क्षेत्रात खूप संधी आहेत. नवयुवकांनी चौफेर विचार करून, डोळे आणि कान

उघड ठेवून स्थानिक क्षेत्रातील नवीन संधी शोधल्या पाहिजेत, असे ते म्हणाले तर ठाकरे यांनीही, संगणक क्षेत्रात भारतीय लोकांनी एक पाऊल पुढे टाकत नवीनतेकडे प्रयाण करावे, असे म्हणाले. संगणकशास्त्र मंडळाची अध्यक्ष जानीव प्रियंका यांनी आपले मनोगत व्यक्त केले. कार्यशाळेचे प्रास्ताविक डॉ. रोहिणी शिंदे यांनी केले. सूत्रसंचालन पोतदार स्नेहल व रोहिणी गुप्ते यांनी तर आधार विशाल विराजदार यांनी मानले.

या कार्यशाळेतील विद्यार्थ्यांना प्रमाणपत्राचे वितरण प्रमुख पाहुण्यांच्या हस्ते करण्यात आले. संगणकशास्त्र मंडळांतर्गत विद्यार्थ्यांनी तयार केलेल्या पोस्टर प्रझेडेशनचेही उद्घाटन करण्यात आले आणि याचे परीक्षण प्रा. अमोल साजेंकर, प्रा. हेमंत वरुडकर यांनी केले.

रवेंता कोरे यांचे विप्रो या कंपनीमध्ये निवड, पोतदार प्रियंका, वाघमारे रिपारती, दीक्षित श्रुतीका यांचे ३ महिन्यांसाठी मुंबई येथील मॅडिकलवाला या कंपनीत निवड झाल्यामुळे त्यांचाही सत्कार करण्यात आला.

या प्रसंगी प्रा. सुजाता काळे, प्रा. मंगेश सुरे, प्रा. अपर्णा कुटवाड, प्रा. सपना कुलकर्णी, प्रा. वैभव कुलकर्णी, प्रा. निकीता शिंदे, प्रा. कांचन कदम, नरिनी जाधव, राहुल बनभेरू, प्रियंका हिषकर, दिपक नागाटिकर, प्रा. मेघा पांडे, डॉ. रामशेठ्ठी शेटकर, जानीव प्रियंका, विराजदार विशाल, जाधव सचिन, मोहिनी फुलसुरंदर, पोतदार सेजल, कौतिकवार ऋतुजा, जॉशी हर्षदा, वावस्कर केदार, भुतडा वैष्णवी, कल्याणी क्रांती आदी उपस्थित होते.





Certificates:

**Dayanand Science College, Latur**  
**Department of Computer Science**

**Certificate of Appreciation**

This Certificate is presented to  
*Ms. Hanchan Kadam*  
 in sincere acknowledgement for the  
 valuable service as **Trainer** for Successfully  
 conducting 10 days Workshop on  
**“Obstacle Detection Robot”**  
 which was held from 30 Nov To 9 Dec 2019.



*[Signature]*  
**Dr. J. S. Dargad**  
 Principal  
 Dayanand Science College, Latur

**Dayanand Science College, Latur**  
**Department of Computer Science**

**Certificate of Appreciation**

This Certificate is presented to  
*Dr. Rohini B. Shinde*  
 in sincere acknowledgement for the  
 valuable service as **Organizer** for Successfully  
 conducting 10 days Workshop on  
**“Obstacle Detection Robot”**  
 which was held from 30 Nov to 9 Dec 2019.

*[Signature]*  
**Dr. J. S. Dargad**  
 Principal  
 Dayanand Science College, Latur

**Dayanand Science College, Latur**  
**UGC-CPE Skill Enhancement Program**  
**Awards**

**Certificate**

To

For Successful Completion of  
**10 Days Workshop On**  
**“Obstacle Detection Robot”**  
 Conducted by Department of Computer Science

<b>Dr. Rohini. B. Shinde</b> Workshop Co-ordinator Dayanand Science College, Latur	<b>Mrs. S. A. Jaju</b> Co-ordinator Department of Computer Science Dayanand Science College, Latur	<b>Dr. L. V. Thakre</b> HOD Department of Physics, Electronics, Computer Science Dayanand Science College, Latur	<b>Dr. J. S. Dargad</b> Principal Dayanand Science College, Latur
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**Question Paper**

**Dayanand Science College, Latur**  
**Department of Computer Science**  
**Organizes**

**10 Days Workshop on Obstacle Detection Robot**  
**Evaluation Test**

**Date: 18/12/2019**

**Time: 30 min**

**Marks: 20**

- 
1. Which type of Robot is used in home appliances
    - A) Industrial Robot
    - B) Humanoid Robot
    - C) Medical Robot
    - D) Military Robot
  2. Which type of Robot "Daksh" is?
    - A) Industrial Robot
    - B) Humanoid Robot
    - C) Medical Robot
    - D) Military Robot
  3. Which type of sensor "UltraSonic" is?
    - A) Sound Sensor
    - B) Distance Sensor
    - C) Motion Sensor
    - D) Electronic Sensor
  4. How many digital pins are there on arduino Board?
    - A) 14
    - B) 13
    - C) 12
    - D) 11
  5. How many external power supply connections are there on arduino Board?
    - A) 1
    - B) 2
    - C) 3
    - D) 4
  6. What is name of Microprocessor IC?
    - A) Atmega328p
    - B) Atmega329p
    - C) Atmega328u
    - D) Atmega329u
  7. HC-05 is name of
    - A) Ultrasonic sensor
    - B) Servo motor
    - C) Bluetooth
    - D) DC motor





8. In the following statement, what does the 1000 stand for: **delay(1000);**
- A) 10 second
  - B) 1 second
  - C) 100 second
  - D) 0.1 second
9. Motor Driver Ic name:
- A) L293D
  - B) L293E
  - C) L293c
  - D) L2934
10. SG90 is name of
- A) Ultrasonic sensor
  - B) Servo motor
  - C) Bluetooth
  - D) DC motor
11. HC-SR04 is name of
- A) Ultrasonic sensor
  - B) Servo motor
  - C) Bluetooth
  - D) DC motor
12. What is the maximum amount of current for any one of the Arduino pins?
- A) 1 volt
  - B) 2 volt
  - C) 3.3 volt
  - D) 5 volt
13. When does the void setup() part of the program occur?
- A) Executes ones
  - B) Executes two times
  - C) Executes three times
  - D) Continues execution
14. What does this function do: **Serial.begin(9600);**
- A) For execution
  - B) For displaying content on serial monitor
  - C) For compilation
  - D) For taking input from sensors.
15. What is wrong with the following:
- ```
void setup() {  
  Serial.begin(9600)  
}  
void loop() {  
  int sensorValue = analogRead(A0);  
  Serial.println(sensorValue);  
}
```





- ```
delay(10);
}
```
- A) Missing semicolon  
B) Missing double inverted coma in Serial.println()  
C) Declared variable is wrong  
D) No error
16. What is wrong with the following:
- ```
int led = 13;
void setup() {
  pinMode(led, INPUT);
}
void loop() {
  digitalWrite(led, HIGH);
  delay(1000);
  digitalWrite(led, LOW);
  delay(1000);
}
```
- A) Missing semicolon  
B) Missing double inverted coma in Serial.println()  
C) Declared variable is wrong  
D) No error
17. Minimum number of functions in any Arduino Sketch
- A) 1  
B) 2  
C) 3  
D) 4
18. For rotating DC motor Clockwise.
- A) Input1=1, Input2=0  
B) Input1=0, Input2=0  
C) Input1=1, Input2=1  
D) Input1=0, Input2=1
19. How many pins are there on Bluetooth
- A) 6  
B) 3  
C) 2  
D) 4
20. Camera is?
- A) Effector  
B) Actuator  
C) Sensor  
D) Agent function.

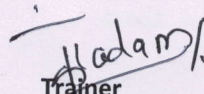


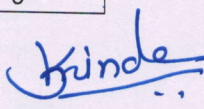


**Result Analysis**

**Dayanand Science College, Latur  
UGC-CPE Skill Development Program  
Obstacle Detection Robot  
Result Analysis**

| Sr. No. | Name of Student           | Class  | Obtained Marks |
|---------|---------------------------|--------|----------------|
| 1       | BAWASKAR KEDAR M.         | BCS SY | 16             |
| 2       | JADHAV ANIL GOVIND        | BCS SY | 16             |
| 3       | BHUTADA VAISHNAVI SUDIR   | BCS FY | 16             |
| 4       | DURUGKAR AKASH PRADIP     | BCS FY | 15             |
| 5       | BHIMPURE VIRAJ SUNIL      | BSC FY | 15             |
| 6       | HUDGE GAAURAV SANTOSH     | BCS FY | 14             |
| 7       | KAWALE SNEHA NIVRATTI     | BCS FY | 14             |
| 8       | MATHPATI SWAPNIL SANJAY   | BSC SY | 14             |
| 9       | ARATE VIDYA ARVIND        | BCS SY | 14             |
| 10      | JOSHI HARSHADA VIJAYKUMAR | BSC SY | 14             |
| 11      | KAVATIKWAR RUTUJA RAMESH  | BSC SY | 14             |
| 12      | GHORUDE MAYURI RAMDAS     | BSC SY | 13             |
| 13      | SALUNKE PRIYA BHARAT      | BCS FY | 12             |
| 14      | KALYANE KRANTI C          | BCS FY | 12             |
| 15      | SHAIKH MAINUDDIN          | BCS FY | 12             |
| 16      | GIRI RAJESH BALAJI        | BCS SY | 12             |
| 17      | KADAM PRANVATI SHAMSUNDAR | BSC SY | 12             |
| 18      | KANDHARE SAGAR V.         | BCS SY | 10             |
| 19      | MANE VARSHA NETAJI        | BCS FY | 10             |
| 20      | SHAIKH MUSKAN MUBARAK     | BSC SY | 10             |
| 21      | SHINDE PRATIKSHA          | BCS FY | 9              |
| 22      | INDRALE VIJAY G.          | BCS SY | 8              |
| 23      | ALTE MOHINI SUBHASH       | BCS FY | 8              |
| 24      | CHATE VARSHA KISAN        | BSC SY | 7              |
| 25      | SHIVANGE SNEHA UTTAM      | BSC SY | 7              |
| 26      | PINGALE ROHINI BALAJI     | BSC SY | 6              |

  
Trainer  
Miss Kanchan Kadam

  
Workshop Co-ordinator  
Dr. R. B. Shinde





**DAYANAND SCIENCE COLLEGE LATUR**  
**Department of Computer Science**

Date: 18-12-2019

**Report On**  
**UGC-CPE Skill Development Program**  
**OBSTACLE DETECTION ROBOT**

“10 Days Workshop on Obstacle Detection Robot” is organized by Computer Science Department under UGC-CPE Skill Development Program. Main Objective of this training program is to give the basic practical knowledge of the Robot and make aware to the students with the subject “Artificial Intelligence” This workshop may give guidelines to students to enter in Robotics field.

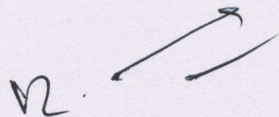
26 Students from BSC (FY, SY) and BCS (FY, SY) are enrolled for this program and successfully completed 10 Days Training program.

For this workshop Miss Kadam Kanchan V. worked as a trainer and Dr. R. B. Shinde worked as coordinator. This program was started from 30<sup>th</sup> November 2019 to 10<sup>th</sup> December 2019. On Last day 10<sup>th</sup> December 2019 MCQ pattern examination was conducted and result is prepared. The certificates are distributed to all the students on 18<sup>th</sup> December 2019.

Valedictory program was held on 18<sup>th</sup> Dec 2019. On that occasion Principal Dr. J. S. Dargad sir, Dr. Ravishankar Borgaokar (Associate Professor at University of Stavanger, Norway), Mr. Mahesh Patrike (MKCL's Regional Co-ordinator of Marathwada East Region), Dr. S. S. Bellale (Vice Principal Dayanand Science College), Dr. L. V. Thakre (HOD Computer Science Department) Mrs. S. A. Jaju mam Coordinator Computer Science Department take the overlook on the project made by the students and congratulates on successful completion of this program.

  
Co-Ordinator

  
HOD

  
Principal  
**PRINCIPAL**  
Dayanand Science College  
**LATUR**