

May 14, 2022

Name of Program: Innovate Intelligence Robotics Workshop.

Event Date: May 14 2022.

Organized by: SVKMIOT ACM Student Chapter and e-Yantra.

Activity Brief:

SVKMIOT ACM Student Chapter and e-Yantra jointly organized one-day non-technical workshop on May 14 2022. The workshop started sharp from 10:30 AM and lasted till 3:00 PM. It was conducted on e-Yantra platform – used to develop various workshops in robotics and other technical areas. The workshop included the introduction to the various components of the robotics hardware by resource persons. Introduction followed by explaining some basics mathematical and logical calculations required to access the pins of hardware was provided. It also included programming various functionality to the robot. The robot FIREBIRD-V ATmega 2560 was provided to student for programming purpose.

Workshop included following activities:

- Introduction to FIREBIRD-V ATmega 2560 Robot.
- Basic I/O interfacing.
- Motion Control of Firebird V
- Analog to Digital conversions.

A great response was received and a total of 30 students showed eagerness in the workshop. The workshop coordinators – Mr. Vivek Pawar, Mr. Yash Lakade, Mr. Akshay Brahme and Mr. Lokesh Mahajan successfully coordinated throughout the workshop and provided helping hand in successful implementations. Prof. Khalid Alfatmi and Prof. Mayuri Kulkarni taught various programming aspects required for the accessing of hardware and its functions. Well performed students for each session were awarded on their excellent presentation.

The workshop was sanctioned by management and Principal Dr. Nilesh Salunke and was successfully conducted under the guidance of Department Head Dr. Makarand Shahade, and teaching staff Prof. Khalid Alfatmi and Prof. Mayuri Kulkarni. It was a very successful and fun-loving workshop where each and every participant showed their enthusiasm. The victorious response received from participants showed eagerness in conducting similar such workshop in near future.





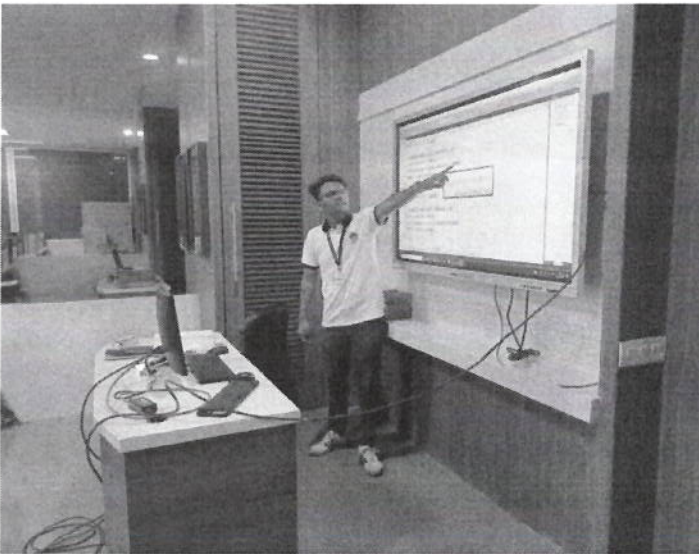
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Glimpses of the Workshop:





May 14, 2022



One Day Workshop on "Innovate Intelligence Robotics"

27

Responses

6.1

Average Score

Active

Status

1. Enter Full Name (0 point)

27

Responses

Latest Responses

"Sakshi Pande"

"Anuranjan Sunil Singh"

"Waidehee Arun Kele"

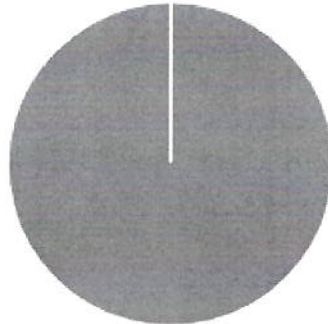
4 respondents (15%) answered **Patil** for this question.

Jaywantrao Sonawane Paras Jain Sa
Pranav Kishor Anil **Patil** Mohit Shind
Sanjay Mahesh
Yash Sunil Nishant
Devyani Rajat Kanugo Arun Kele Hemantkumar TI



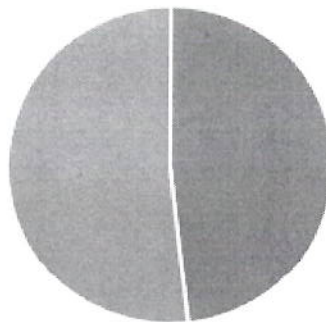
2. Select Your Role (0 point)

- Student 27
- Faculty 0



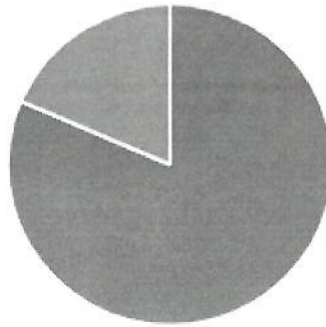
3. Select Year (0 point)

- Second Year 13
- Third Year 14
- Final Year 0
- Other 0



4. Select Your Branch (0 point)

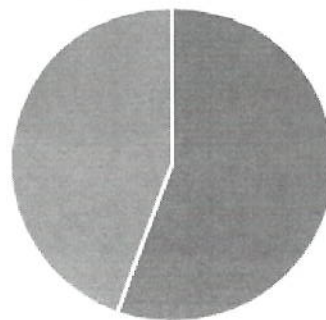
<input type="radio"/> Computer Engineering	22
<input type="radio"/> Mechanical Engineering	5
<input type="radio"/> Electrical Engineering	0
<input type="radio"/> Information Technology	0



5. ATmega2560 is a ____ (1 point)

44% of respondents (12 of 27) answered this question correctly.

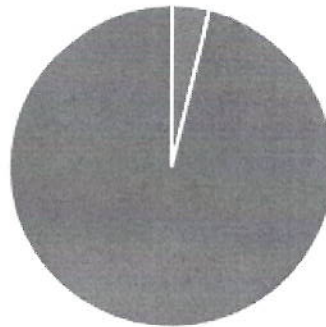
<input type="radio"/> microprocessor	15
<input checked="" type="radio"/> micro-controller	12 ✓
<input type="radio"/> Port	0
<input type="radio"/> Register	0



6. Which of the following is not a major building block of robot? (1 point)

96% of respondents (26 of 27) answered this question correctly.

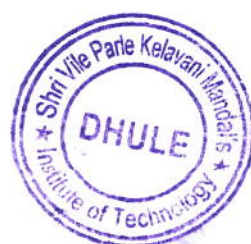
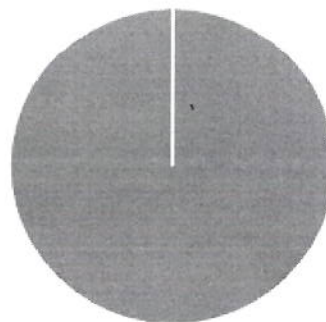
<input type="radio"/> Actuator	1
<input type="radio"/> Intelligence	0
<input type="radio"/> Communication	0
<input checked="" type="radio"/> Emotion	26 ✓



7. Servo Motor is a (1 point)

100% of respondents (27 of 27) answered this question correctly.

<input checked="" type="radio"/> Actuator	27 ✓
<input type="radio"/> Intelligence	0
<input type="radio"/> Sensor	0
<input type="radio"/> Communication	0



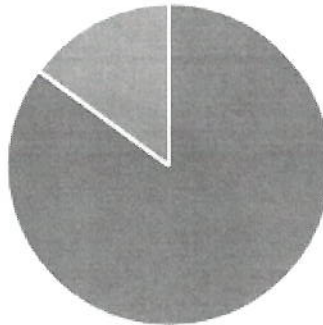
8. State True or False:

(1 point)

All Port pins can be configured individually as Input/Output.

85% of respondents (23 of 27) answered this question correctly.

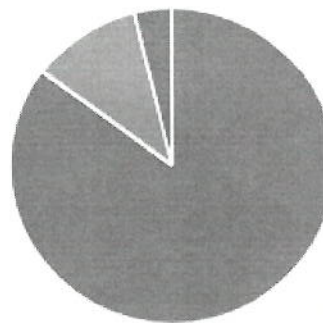
- True 23 ✓
- False 4



9. Make PORTD as output port and send bit pattern of D5 (1 point)

85% of respondents (23 of 27) answered this question correctly.

- DDRD = 0xFF, PORTD = 0xD5 23 ✓
- DDRD = 0x0F, PORTD = 0xD5 3
- DDRD = 0x00, PORTD = 0xD5 0
- DDRD = 0xD5, PORTD = 0xFF 1



12. Feedback Form For One Day Workshop on Application of IoT in Innovation

(0 point)

■ Agree ■ Neutral ■ Disagree

The session's objectives were clearly stated and met?



Experts/Speakers have put good effort in explaining things to make me understand the topic .



This session has increased my knowledge and skill in the discussed topic



100%

0%


H.O.D. Computer Dept.
SVKM's Institute of Technology, Dhule

