



Criteria 1.3 : Curriculum Enrichment

Department of Automation & Robotics

1.3.3 Percentage of students undertaking project work/ field work/ internships (Data for the latest completed academic year) -2022-23

- Number of students undertaking Mini Project in First Year of Automation & Robotics =56
- Total No.of Students enrolled in 2022-23 in Automation & Robotics = 56

Formula:

$$\frac{\text{Number of students undertaking project work /field work / internships}}{\text{Total number of students}} \times 100$$

- Percentage of Students Undertaking Project Work/Field Work/Internships = $56/56 = 100 \%$



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Dr. (Mrs.) J. M. Nair

M. Tech., Ph.D. (IIT-B)

Principal


Ref. No.: VESIT/ JMN | 1325 | 2023-24

Date: 26/10/2023

TO WHOM SO IT MAY CONCERN

I, Dr. (Mrs.) Jayalekshmi M Nair, Principal (HOI), Vivekanand Education Society's Institute of Technology, do hereby state that the documents uploaded on NAAC portal are duly signed by Principal (HOI).

The additional documents uploaded on Institute's website (<https://vesit.ves.ac.in/>) are also authentic and does not need any extra validation.


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Department of Automation & Robotics Sample List of

First year Students Mini Projects 2022-23



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First year Automation & Robotics Mini Project 22-23

Group No.	Name of the Students	Mentor Name	Title of the Project	No. of Students
1	Aditya Rege	Dr. Shashwati Roy Majumdar	Anti Burglar Alarm System	5
	Krish Salvi			
	Tauhid Mastan			
	Mantasha Sheikh			
2	Ruchika Pandey		Human Detection navigation Robot	5
	Om Mandhane			
	Tanay Baisware			
	Rohan Wasani			
	Shreedarsh Nair			
3	Aman Ali		Smart Stick for blind	5
	Shrikrishna Talwale			
	Vedant Sawant			
	Ayush Darade			
	Adinath Patil			
4	Harshad Sonawane		Rain Collision Avoiding System	5
	Bhargav Tulapurkar			
	Davin Patil			
	Sairaj Patil			
	Parth Patil			
5	Harsh Tejwani	Rain detector	5	
	Anshul Jadhav			
	Shiv Maurya			
	Nishi Kadam			
	Kankshini Deotale			
6	Vedanti Tawade	Fog Harvesting	5	
	Dharitri Bhattacharjee			
	Aaryan Mathure			
	Aditya Shinde			
7	Ayush Bangera	Hand Gesture Controlled Robot	5	
	Nimesh Kshirsagar			
	NIDHI NARKAR			
	DEEKSHA			
	RIYA GAUL			
	NISHANT MOHAN			
	KHUSHI KANDHARI			
YASH DARADE				
ANISH GUPTA				

Dr. Manisha T.



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	AYUSH HARWANDE		
8	SAHIL BHOSALE	AUTOMATIC PLANT WATERING	5
	PIYUSH DHARMAADHIKARI		
	Bipin Yadav		
	Utkarsha Saste		
	Pranay Rajak		
9	Viraj Patkar	Home Automation	5
	Aryan Sahu		
	Aakarsh Sinha		
	Angad Gill		
	Drushti Nagarkar		
10	Laksh Lalwani	River cleaning automated system	5
	Rishika Shetty		

for
Maushika T.





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Sample Report-Physics Mini Project



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TRAIN ACCIDENT PREVENTING SYSTEM

BY – SAIRAJ PATIL 34

DAVIN PATIL 32

PARTH PATIL 33

HARSH TEJWANI 50

BHARGAV TULAPURKAR 51

WORKING

□ THIS PROJECT IS A TCAS (TRAIN COLLISION AVOIDANCE SYSTEM) TYPE

1. ULTRASONIC SENSOR DETECTS THE TRAIN COMING AND SENDS THE DATA TO ARDUINO UNOIS
2. ARDUINO UNOIS COLLECTS THE DATA AND AS PER THE DATA IT SENDS THE SIGNAL TO THE RESPECTIVELEDS AND BUZZERS
3. THIS HAPPENS SIMULTANEOUSLY AND ARDUINO UNOIS SENDS THE CURRENT TO LED AND BUZZERS WHICH ARE ZOOM FROM TRAIN

EXPLANATION OF COMPONENTS

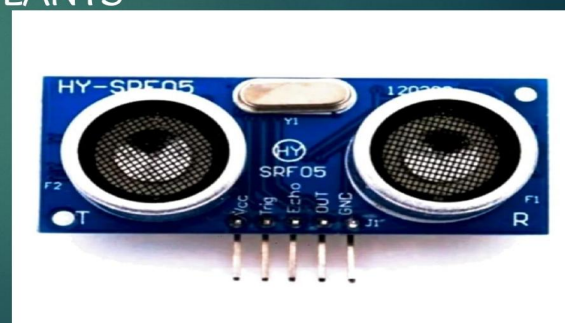
1. ARDUINO UNO

THE ARDUINO UNO IS AN OPEN SOURCE MICROCONTROLLER BOARD BASED ON THE MICROCHIP AT MEGA 328P MICROCONTROLLER. THE BOARD IS EQUIPPED WITH SETS OF DIGITAL AND ANALOG INPUT (OUTPUT) PINS THAT MAY BE INTERFACED TO VARIOUS EXPANSION BOARDS AND OTHER CIRCUITS



2. ULTRASONIC SENSOR

ULTRASONIC SENSOR CAN DETECT THE MOVEMENT OF TARGETS AND MEASURE THE DISTANCE OF THEM IN MANY AUTOMATE FACTORIES AND PROCESS PLANTS





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3. LED

A LIGHT EMITTING DIODE (LED) IS A SEMICONDUCTOR DEVICE THAT EMITS LIGHTS WHEN CURRENT FLOWS THROUGH IT



4. BUZZER

A BUZZER IS AN AUDIO SIGNALING
DEVICE WHICH MAY BE MECHANICAL OR
ELECTROMECHANICAL



RESULT

- ▶ TO REDUCE THE RISK OF LOSS OF LIFE OF ANIMALS AND HUMANS NEAR TRACK

BIBLIOGRAPHY

- ▶ FOR MAKING PROJECT, HELP IS TAKEN FROM THE WEBSITE

www.google.com