



**JSS Academy of Technical Education  
Bengaluru  
Department of Physics**

**Skill Lab Report (Sept 2023-Jan 2024)**

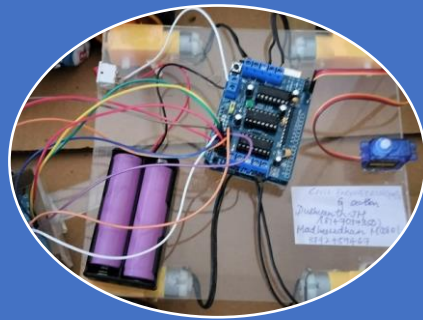
All the students (EC"A", EC"B", EC"C", EIE, ME&RA, Civil) have actively participated resulting in total of 20 projects under the supervision of faculty members of Physics Department. The title of the projects is mentioned below:

Sl.No.	Title	Branch	Faculty
1	Free Energy Conservation and Usage	Civil	Dr.Nityanand Choudhary
2	Human Following Robot Using Arduino		
3	Reduction of Traffic Congestion and smooth movement of vehicles	EC "A"	Dr. Prasanna Kumara S
4	Hydraulic Jack	EC "A"	
5	Wireless Power Transfer on Road for Electric Vehicle	ME	Dr. Shashidhar R
6	Accelerator Using Electromagnetic Induction	ME	
7	Arduino Voice Assisted Fire Extinguishing Power	RA	
8	Ultrasonic Distance measuring Device	EC "B"	
9	Embedding Artificial Thermoregulation in Clothing	EC "B"	
10	Wireless Power Transmission	EC "B"	Dr.Abhilasha Singh
11	Multifunctional Robot using Arduino	EC "B"	

12	Roof Retraction System	EC”C”	
13	Smart Rainwater Harvesting	EIE	
14	Temperature and Humidity Sensing and Display	EIE	Ms. Sushma KC
15	Obstacle Avoider	EC”C”	Mr.Mohanakumara LB
16	Drip Irrigation Systems	EC”A”	
17	Power Generation By Speed Breakers	EC”C”	
18	Smart Bridge	EIE	
19	Laser Security System	EIE	
20	Automatic Plant Watering System	EC”C”	



Free Energy  
Conservation and Usage



Human Following Robot  
Using Arduino

Faculty In Charge: Dr. Nityanand Choudhary



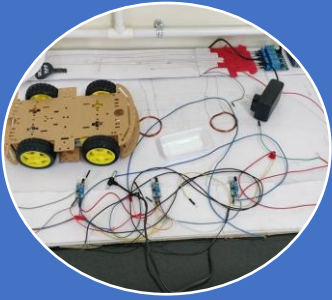
Reduction of Traffic  
Congestion and smooth  
movement of vehicles



Hydraulic Jack



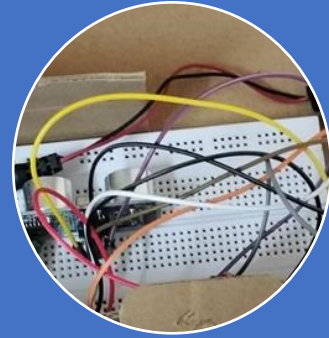
Faculty In Charge: Dr. Prasanna Kumar S



Wireless Power Transfer on Road for Electric Vehicle



Accelerator Using Electromagnetic Induction



Ultrasonic Distance measuring Device



Embedding Artificial Thermoregulation in Clothing

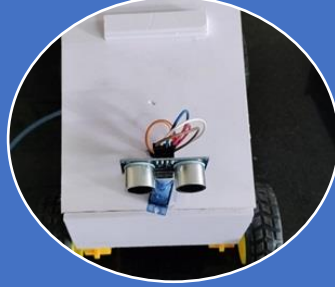


Arduino Voice Assisted Fire Extinguishing Power

Faculty In Charge: Dr. Shashidhar R



Wireless Power  
Transmission



Multifunctional Robot  
using Arduino



Smart Rainwater  
Harvesting



Roof Retraction System

Faculty In Charge: Dr. Abhilasha Singh

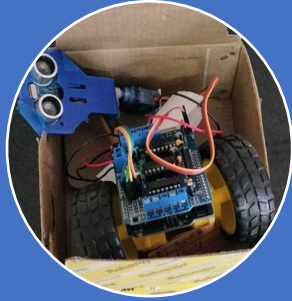


Temperature and Humidity Sensing and Display



Faculty In Charge: Ms Sushma KC





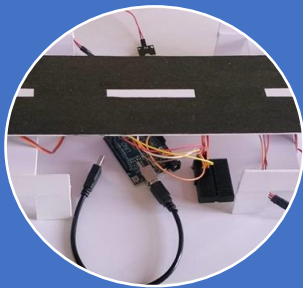
Obstacle Avider



Drip Irrigation Systems



Power Generation By Speed Breakers



Smart Bridge

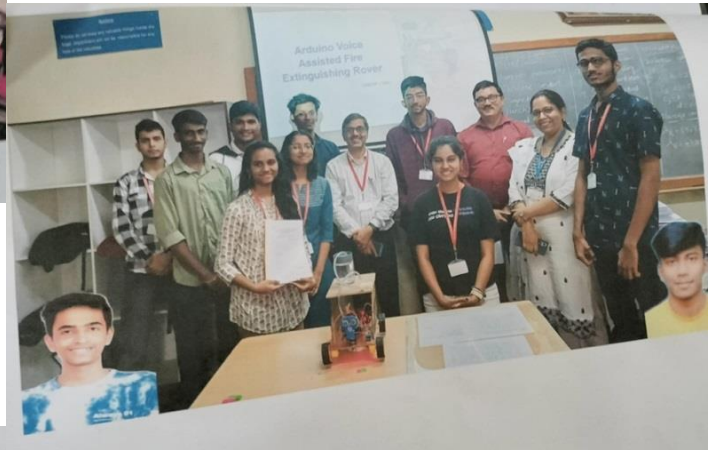


Laser Security System



Automatic Plant Watering System

Faculty In Charge: Mr. Mohanakumara LB



Skill Lab Incharge  
Dr.Abhilasha Singh

HOD Physics  
Dr.Shashidhar R