



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

Skill Lab Report (May 2023-September 2023)

All the students (CSE"A", CSE"B", CSE"C", ISE"A", ISE"B", ISE"C", AIML"A", AIML"B") have actively participated resulting in total of 31 projects under the supervision of faculty members of Physics Department. The title of the projects is mentioned below:

Sl.No.	Title	Branch	Faculty
1	Principles of Wireless Transmission of Electricity through a Tesla Coil	AIML	Dr.Nityanand Choudhary
2	Li-Fi Technology		
3	Exploring the Tesla Coil: A journey into high voltage phenomenon	CSE-C	Dr. Prasanna Kumara S
4	On principles of wireless transmission of electricity through Tesla Coil	AIML	
5	Principles of e.m induction using simple electric train	CSE-C	
6	Bridging knowledge and practise: A voyage to IIA for telescope building insights	ISE-B	
7	Laser Security System	AIML	
8	Earthquake alarming system	AIML	
9	Zinc Oxide Nanoparticles Characterization	CSE-B	
10	Speed Detector By Using Single Ldr	CSE-B	
11	Intruder Alarm	CSE-B	Dr. Shashidhar R
12	Applause Activated Control- The Clap Switch Solution	CSE-B	
13	Fire Alarm	ISE-B	
14	River Cleaning Boat	ISE-C	

15	Generation of Hydroelectricity: Harnessing the Power of Water	CSE-A	Dr.Abhilasha Singh
16	Data Transfer Using LIFI Technology	ISE-A	
17	Sonar	ISE-A	
18	Charging Mobile Phone using sunlight	ISE-C	
19	Solar Tracking Device	ISE-C	
20	Automatic Parking system	CSE-A	Ms. Sushma KC
21	Wireless Charging	CSE-A	
22	Hydraulic arm with suction mechanism and C-shaped arm		
23	Laser guided bank security system	ISE-C	
24	Rain detector	AIML	
25	Line Follower Robot	ISE-B	Mr.Mohanakumara LB
26	Sound Visualizer	ISE-B	
27	Electromagnetic Train	CSE-A	
28	Tesla Coil	AIML	
29	IOT Based Fire Alarm System Using NodeMCU ESP8266	ISE-A	
30	Metal detector	CSE-A	
31	Hologram	ISE-A	



Magnetic lifter
using hydraulics



Lifi

Faculty In Charge: Dr. Nityanand Choudhary



Laser Security System



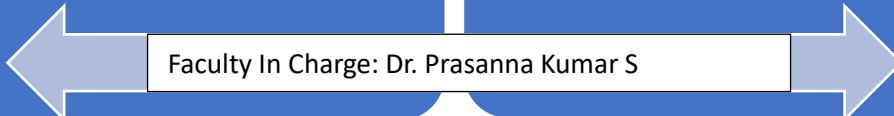
Exploring the Tesla Coil: A journey into high voltage phenomenon



On principles of wireless transmission of electricity through Tesla Coil



Telescope building Insights



Faculty In Charge: Dr. Prasanna Kumar S



Intruder Alarm



Fire Alarm Detector



LDR Speed detector



The Clap Switch

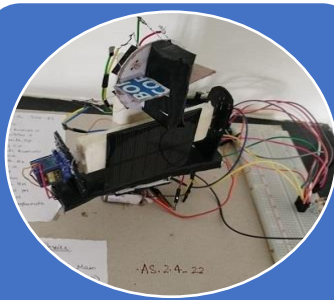


River Cleaning Boat

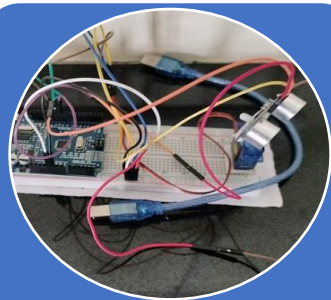
Faculty In Charge: Dr. Shashidhar R



Li-fi



Solar Tracking Device



Sonar



Solar Panel Mobile Charger

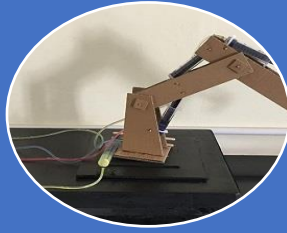


Generation of Hydroelectricity:
Harnessing the Power of Water

Faculty In Charge: Dr. Abhilasha Singh



Automatic
Parking
System



Hydraulic Arm
with Suction
mechanism



Wireless
Charging



Laser guided bank
security system



Rain Detector



Faculty In Charge: Ms Sushma KC



Line Follower
Robot



Sound Visualiser



Electromagnetic
Train



IOT Based
Fire Alarm
System



Metal
Detector



Hologram

Faculty In Charge: Mr. Mohanakumara LB





Skill Lab Incharge
Dr.Abhilasha Singh



HOD Physics
Dr.Shashidhar R