

**GUJARAT ARTS AND SCIENCE COLLEGE, AHMEDABAD**

**DEPARTMENT OF PHYSICS**

**PROJECT REPORTS 2022-23**

<b>SR. NO.</b>	<b>ROLL NO.</b>	<b>NAME OF THE STUDENT</b>	<b>NAME OF PROJECT</b>
1	22	SARVAIYA ARPITABEN DHARMESHBHAI	Electric Fence Guard
	29	ZALA PARAMSINH BHARATSINH	
	16	PATEL GRISHMA HITESHBHAI	
2	18	PATEL MEGHA KIRTIBHAI	Laser Security for Door
	24	RAVAL KAUSHAL JAYNTIBHAI	
	31	VASAVA SILVANSHKUMAR CHHATRASHIHBHAI	
3	8	JATINKUMAR CHAVDA	Wireless Transmission Using RF Module
	15	PATEL ACHAL BIPINBHAI	
	28	VIJAYSINH PARBATJI SOLANKI	
4	32	VISHALBHAI NILESHBHAI	Group Theory for Matrix
	23	RATHVA VARUNBHAI ARVINDBHAI	
	30	VARMA RAVI BRIJMOHAN	
5	29	VADHER MANSIBEN BHAVYESHKUMAR	Traffic Signal Light
	27	TAYADE AKSHATA JAYENDRA	
	16	PATEL DHARA VINODBHAI	
6	34	ZANKAT JIGARKUMAR VAJESINH	Li – Fi Technology
	21	RATHOD HEMDIP RAGHUBHAI	
7	6	DAVE KHUSHI HARMENDRAKUMAR	Monostable Multivibrator
	9	JYOTI KUMARI	
	12	MUDALIAR SHIVABALAN KADHIRAVAN	
8	5	DAMOR VINESHBHAI LASUBHAI	Heat Sensor With Fan Cooling
	7	GAUSWAMI KAUSHIK BHARATGIRI	
	10	KATARIYA UMANG PRAFULBHAI	
9	13	PANWALA HARSHIL TUSHAR	LPG Gas Detector With LE555 IC
	14	PARMAR RAHUL KANUBHAI	
	17	PATEL HIRALBEN VIRABHAI	
	19	RATHOD ZALAK PRAVINKUMAR	
10	24	SOLANKI HITARTH HARSHVARDHAN	Wireless charger For EV With Integration Of Single Axis Solar Tracker
	27	VASAVA PRINKALBHAI ABHIMANBHAI	
	18	PATEL NIRMALKUMAR JAYANTIBHAI	
11	21	SAIYAD AAFRINBANU RASULMIYA	Ground Fault Circuit Interrupter (GFCI)
	23	SHAIKH AAFRINBANU ABBASMIYAN	

	25	TALAT SUZANBANU SIDDIKHUSEN	
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	20	RAVAL AKASH NARENDRABHAI	
	26	VAGHELA AARTI KISHORBHAI	
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	12	MAKWANA NIRMALKUMAR BABUBHAI	
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	19	PATEL SAMAY SANJAYKUMAR	
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	22	RATHOD MAHENDRASINH JILUBHAI	
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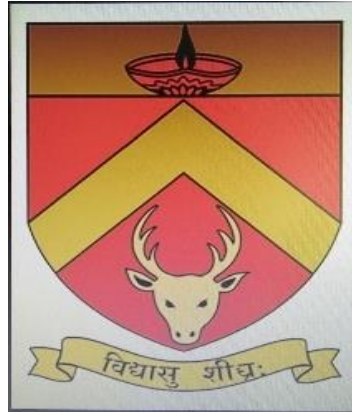
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	197	RATHVA BHARGAVBHAI T.	
	198	RATHVA HARISHBHAI R.	

# **Gujarat Arts and Science College**

Ahmedabad

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**Physics department**



**Project report on  
electric fence guard ( jhatka machine )**

Submitted by,

- Zala Paramsinh Roll no : 29
- Sarvaiya Arpita Roll no : 22
- Patel Grishma Roll no : 16

**Under the guidance of**

**Prof. VAISHALI PATHAK**

**Msc semester 3**

**Academic year 2022 23**

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## **Physics Department**

### **MSC Semester-3**

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*Academic year (2022-23)*

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Ahmedabad

PROFESSOR INCHARGE : \_\_\_\_\_

DATE : \_\_\_\_\_

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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**  
**Laser Security for Door**

Submitted by,

- |                        |              |
|------------------------|--------------|
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| ● Raval Kaushal        | Roll no : 24 |
| ● Vasava Silvanshkumar | Roll no : 31 |

**Under the guidance of**

**Prof. Daxa Mehta**

**Msc semester 2**

**Academic year 2022 23**



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## Physics Department

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# **Gujarat Arts and Science College**

Ahmedabad

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**Physics department**



**Project report on**

**Wireless Transmission Using RF Module**

**Submitted by,**

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## **Physics Department**

### **MSC Semester-3**

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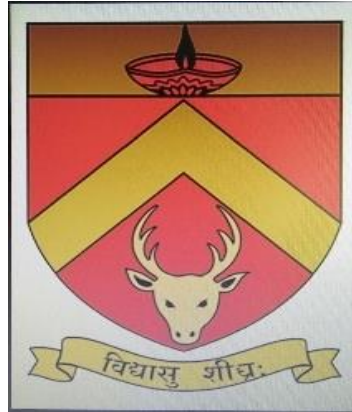
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- Circuit Description and working.
- Some Practical use of my project

# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**  
**Group Theory for Matrix**

*Submitted by,*

- *Vishalbhai Rohit*      *Roll no : 32*
- *Rathva Varunbhai*      *Roll no : 23*
- *Varma Ravi*      *Roll no : 30*

**Under the guidance of**

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**Academic year 2022 23**

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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on  
Traffic Signal Light**

Submitted by,

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- *Tayde Akshata*      Roll no : **27**
- *Patel Dhara*      Roll no : **16**

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## **Physics Department**

### **MSC Semester1**

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**Physics department**



**Project report on**  
**Li – Fi Technology**

**Submitted by,**

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| ● Rathod Hemdip Raghubhai | Roll no : <b>21</b> |

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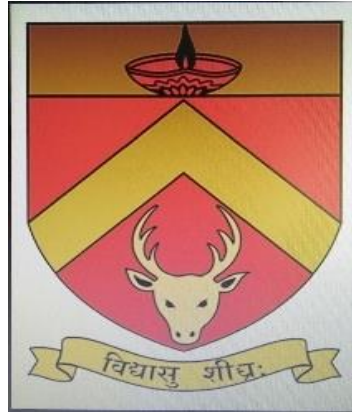


# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**

**Monostable Multivibrator**

**Submitted by,**

- |                             |                     |
|-----------------------------|---------------------|
| ● <i>Dave Khushi</i>        | <i>Roll no : 06</i> |
| ● <i>Jyoti Kumari</i>       | <i>Roll no : 09</i> |
| ● <i>Mudaliar Shivbalan</i> | <i>Roll no : 12</i> |

**Under the guidance of**

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**Msc semester 3**

**Academic year 2022 23**

# CERTIFICATE

## Physics Department

### MSC Semester 3

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- *Mudaliar Shivbalan*              Roll no : **12**

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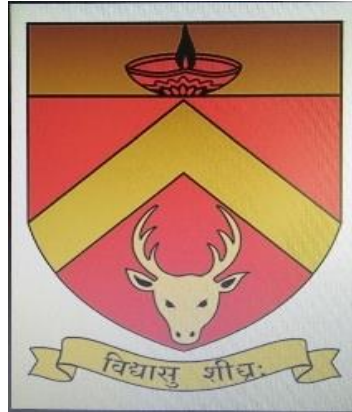
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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**  
**Heat Sensor With Fan Cooling**

*Submitted by,*

- |                           |                     |
|---------------------------|---------------------|
| ● <i>Damor Vinesh</i>     | <i>Roll no : 05</i> |
| ● <i>Gauswami Kaushik</i> | <i>Roll no : 07</i> |
| ● <i>Katariya Umang</i>   | <i>Roll no : 10</i> |

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**Msc semester 3**

**Academic year 2022 23**

# **CERTIFICATE**

## **Physics Department**

### **MSC Semester 3**

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*Academic year (2022-23)*

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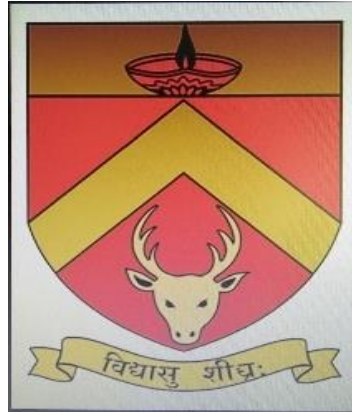


# **Gujarat Arts and Science College**

Ahmedabad

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**Physics department**



**Project report on**

**LPG Gas Detector With LE555 IC**

**Submitted by,**

- |                   |                     |
|-------------------|---------------------|
| ● Panwala Harshil | Roll no : <b>13</b> |
| ● Parmar Rahul    | Roll no : <b>14</b> |
| ● Patel Hiral     | Roll no : <b>17</b> |
| ● Rathod Zalak    | Roll no : <b>19</b> |

**Under the guidance of**

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**Msc semester 3**

**Academic year 2022 23**

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## **Physics Department**


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*Academic year (2022-23)*

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Ahmedabad

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# **Gujarat Arts and Science College**

Ahmedabad

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**Physics department**



**Project report on**

**Wireless Charger For EV With Integration Of Single Axis  
Solar Tracker**

**Submitted by,**

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|----------------------|--------------|
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| ● Vasava Prinkalbhai | Roll no : 27 |
| ● Patel Nirmalkumar  | Roll no : 18 |

**Under the guidance of**

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**Msc semester 3**

**Academic year 2022 23**



# **CERTIFICATE**

## **Physics Department**

### **MSC Semester 3**

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*Academic year (2022-23)*

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Ahmedabad

PROFESSOR INCHARGE : \_\_\_\_\_

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# **Gujarat Arts and Science College**

Ahmedabad

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**Physics department**



**Project report on**  
**Ground Fault Circuit Interrupter (GFCI)**

*Submitted by,*

- |                     |              |
|---------------------|--------------|
| ● Saiyad Aafrinbanu | Roll no : 21 |
| ● Shaikh Aafrinbanu | Roll no : 23 |
| ● Talat Suzanbanu   | Roll no : 25 |

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**Academic year 2022 23**

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## Physics Department

### MSC Semester 3

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## *Aim*

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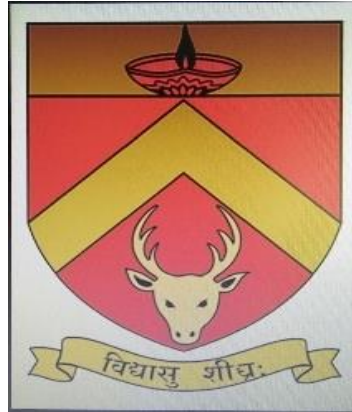
***To construct an Ground Fault Circuit Interrupter (GFCI) with alarm using Arduino.***

# **Gujarat Arts and Science College**

Ahmedabad

---

**Physics department**



**Project report on**

**IR Pulse Detector Using IC – LM 324**

**Submitted by,**

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| ● Vaghela Aarti    | Roll no : <b>26</b> |

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- *Vaghela Aarti*                              *Roll no : 26*

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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**  
**Infrared Sensor Based Security System**

*Submitted by,*

- |                            |                     |
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| ● <i>Makwana Nirmal</i>    | <i>Roll no : 12</i> |
| ● <i>Patani Manishaben</i> | <i>Roll no : 14</i> |

**Under the guidance of**

**Prof. Daxa Mehta**

**Msc semester 1**

**Academic year 2022 23**

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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**

**Simple Electronic Code Lock**

**Submitted by,**

- |                       |              |
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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**  
**Entrance Detector**

*Submitted by,*

- |                              |                     |
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**Physics department**



**Project report on**  
**Entrance Detector**

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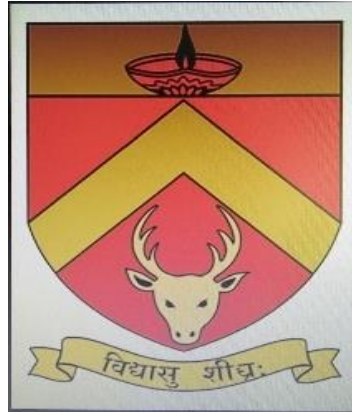
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**Physics department**



**Project report on**  
**Tesla Coil**

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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**

**4-Channel Long Range Infrared Remote Control**

**Submitted by,**

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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**

**Fire Alarm Using Semiconductor Diode**

**Submitted by,**

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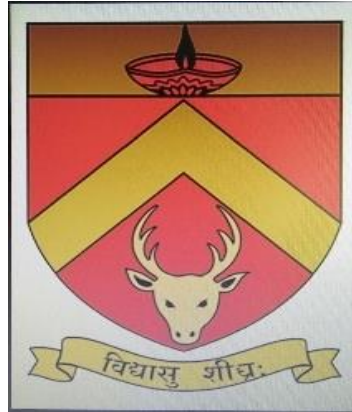
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**Project report on**

**Bidirectional Visitor Counter With Energy Saving**

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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**  
**Fire Alarm Circuit**

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**Physics department**



**Project report on**  
**3 Stage FM Transmitter**

*Submitted by,*

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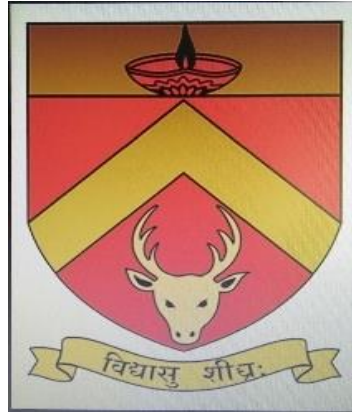
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**Physics department**



**Project report on**

**Bi-Directional DC Motor Speed Controller**

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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**

**Automatic Light Fence With Alarm**

**Submitted by,**

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# **Gujarat Arts and Science College**

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**Physics department**



**Project report on**  
**Motion Sensor Switch**

*Submitted by,*

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| ● Rathod Prakashkumar | Roll no : 196 |
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