



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

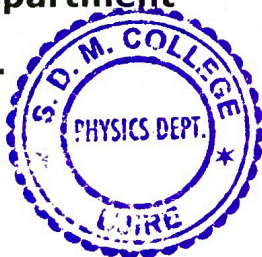
**Mini Project Report
Department of Physics**


Certificate

This is to certify that Abhishek S.V. and Darshini M.G. bearing roll numbers 210321, 210322 of 3rd BSc has satisfactorily completed the mini-project "Study of Variation of base current with temperature" in the Department of Physics prescribed by the college during the academic year 2023-24.


Head of the Department

S.N. Kakathkar




Project Guide

Mr S.N. Kakathkar

Examiners:

1.



2.





**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
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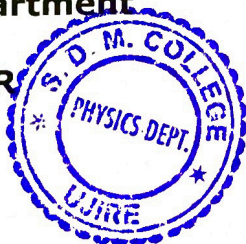
**Mini Project Report
DEPARTMENT OF PHYSICS**

Certificate

This is to certify that Lahari M D and Kishor bearing roll numbers 210324,210323 of 3rd BSc have satisfactorily completed the mini-project "Study of variation of collector current with temperature " in the Department of Physics prescribed by the college during the academic year 2023-24.

S.N. Kakathkar
Head of the Department

S.N. KAKATHKAR



S.N. Kakathkar
Project Guide

Mr S.N. KAKATHKAR

Examiners:

1. *S.N. Kakathkar*
2. *[Signature]*

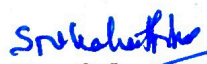


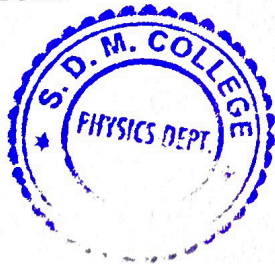
**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**


**Mini Project Report
Department of Physics**

Certificate


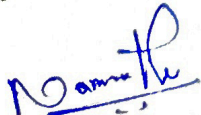
This is to certify that **Likhitha M** and **Pooja Patel** of 3rd year B.Sc bearing **210325** and **210328** have completed the project entitled as **"EFFECTS OF AIR RESISTANCE ON FALLING OBJECTS"** as a co-curricular activity under the guidance of **Mrs. Apeksha Jain** Department of Physics, S.D.M College, Ujire during the year 2023-24.


H.O.D of department
S N Kakathkar




Project Guide
Mrs. Apeksha Jain

Examiners:

1. 
2. 



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

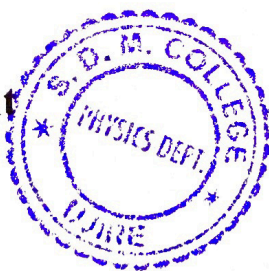
Certificate

This is to certify that **Pavan Aravind Hegde** bearing the Reg.No 210338 and **Prajna Deva Gouda** bearing the Reg.No 210330 of 3rd BSc has satisfactorily completed the mini-project “The Design and Construction of a Differential Electrochemical Mass Spectrometer (DEMS)” in the Department of Physics prescribed by the college during the academic year 2023 – 24.

S N Kakathkar

Mr. S N Kakathkar

Head of the Department



A Jain

Mrs. Apeksha Jain

Project Guide

Examiners:

1. *A Jain*

2. *Namath*



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**


Mini Project Report

Department of Physics

Certificate

This is to certify that **Shruthi Devadiga** and **Stuthi S Komba** bearing the Reg. No. **210332** and **210334** of 3rd BSc has satisfactorily completed the mini-project "*Wireless Power Transfer*" in the Department of Physics prescribed by the college during the academic year 2023 – 24.


Mr. Shashishekara N Kakathkar
Head of the Department


Mrs. Apeksha Jain
Project Guide

Examiners:

1. 
2. 





**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

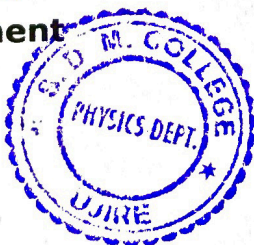
**Mini Project Report
DEPARTMENT OF PHYSICS**

Certificate

This is to certify that SRIMANJUPRIYA K R, SUSHMA D S bearing the 210333,210335 of 3rd BSc has satisfactorily completed the mini-project "*Radioactive decay and its applications*" in the Department of Physics prescribed by the college during the academic year 2023-24.

S.N. Kakathkar
Head of the Department

S.N. KAKATHKAR



Apeksha
Project Guide
Mrs. APEKSHA

Examiners:

1. *Ajais*
2. *Nam R*



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

Mini Project Report

Department of Physics

Certificate

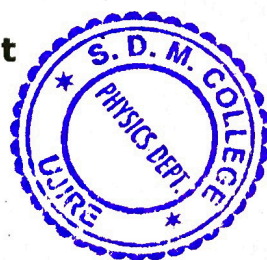
This is to certify that Tejas and Vignesh R M and bearing the Reg. No. 210336 and 210337 of 3rd BSc has satisfactorily completed the mini-project **"A Comparative Analysis of Perovskite Solar Cells versus Conventional Solar Cells"** in the Department of Physics prescribed by the college during the academic year 2023-24.


Mr. Shashishekara N Kakathkar


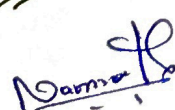
Head of the Department


Mrs. Apeksha Jain

Project Guide



Examiners:

1. 
2. 



**SRI DHARMASTHALA MANJUNATHESHWARA
COLLEGE (AUTONOMOUS), Ujire - 574240**


Mini Project Report

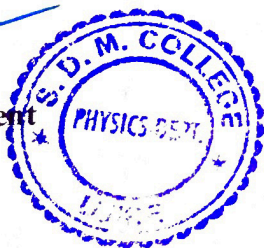
Department of Physics


**MINI PROJECT REPORT ON
“LI-FI (LIGHT FIDELITY)”**

Certificate


This is to certify that **Ujwal Kumar** and **Poornesh Gowda** bearing the Register Number **210339 & 210329** of 3rd BSc has satisfactorily completed the mini-project “LI-FI (light fidelity)” in the Department of Physics prescribed by the college during the academic year 2023–24. Mr. S.N Kakathkar Ms. Apeksha Jain Head of the Department Project Guide.


Mr. S.N Kakathkar
Head of the Department




Ms. Apeksha Jain
Project Guide

Examiners:


1. 
2. 




**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

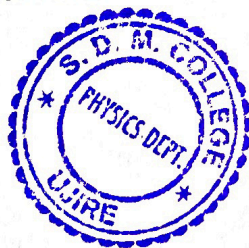
Certificate

This is to certify that **Sampath T** bearing the Reg.No 210339 and **Ruthik M U** bearing the Reg.No 210388 of 3rd BSc has satisfactorily completed the mini project **"The Design and Construction of Large Optical Telescopes"** in the Department of Physics prescribed by the college during the academic year 2023 - 24.


Mr. S N Kakathkar
Head of the Department


Mrs. Namratha Jain
Project Guide

Examiners:



1. 

2. 





**SRI DHARMASTHALA MANJUNATHESHWARA
COLLEGE (AUTONOMOUS), Ujire - 574240**

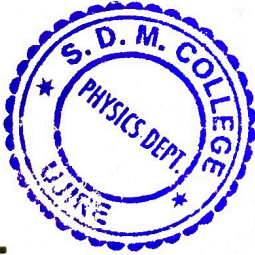
**Mini project Report
Department of Physics**

Certificate


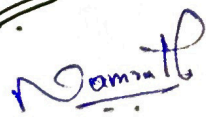
This is to certify that Deepashree bearing the Register Number 210382 of 3rd BSc has satisfactorily completed the mini-project "AUTOMATED SORTING DUST BIN" in the Department of Physics prescribed by the college during the academic year 2023-24.


Mr. S.N Kakathkar
Head of the Department


Ms. Apeksha Jain
Project Guide



Examiners:

1. 
2. 




SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE (AUTONOMOUS), Ujire
- 574240

Mini Project Report
Department of Physics

Certificate

This is to certify that Gurukiran and Pawan bearing the Register Number 210383 and 210385 of 3rd BSc has satisfactorily completed the mini-project "Attendance Making using Biometric Sensor" in the Department of Physics prescribed by the college during the academic year 2023-24.

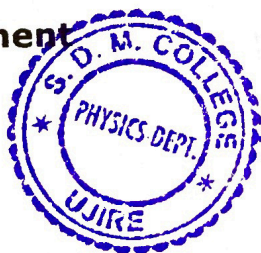

Mr. S.N. Kakathkar

Head of the Department


Ms. Namratha Jain

Project Guide

Examiners:



1. 

2. 



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

Mini Project Report

DEPARTMENT OF PHYSICS

Certificate


This is to certify that SINDHU G, PRIYANKA I bearing the register number 210390 and 210387 of 3rd BSc has satisfactorily completed the mini-project "*DENSITY FUNCTIONAL THEORY (DFT) CALCULATIONS USING GAUSSIAN SOFTWARE*" in the Department of PHYSICS prescribed by the college during the academic year 2023-24.


Head of the Department

S.N. KAKATHKAR



Examiners:

1. 

2. 


Project Guide

Mrs. NAMRATHA JAIN




**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

**Mini Project Report
(Department of Physics)**

Certificate


This is to certify that Sumanth and Pradhan bearing the Reg.No 210391 and 210419 of 3rd Bsc has satisfactorily completed the mini-project "Arduino RFID Solenoid door lock" in the Department of Physics prescribed by the college during the academic year 2023-24.


Mr. Shashishankar N Kakathkar
Head of the Department


Ms. Namratha Jain S
Project Guide



Examiners:

1. 

2. 




**SRI DHARMASTHALA MANJUNATHESHWARA
COLLEGE (AUTONOMOUS), Ujire - 574240**


Department of Physics

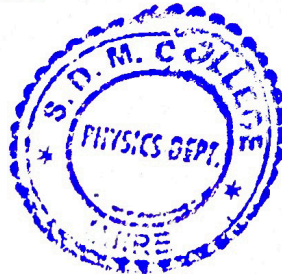
**MINI PROJECT REPORT ON
"SOIL MOISTURE SENSOR"**

Certificate

This is to certify that **Supreeth and Vijendra** bearing the Register Number **210392 & 210393** of **3rd BSc** has satisfactorily completed the mini-project "**SOIL MOISTURE SENSOR**" in the Department of **Physics** prescribed by the college during the academic year 2023-24.



Mr. S.N. Kakatkar
Head of the Department


Ms. Namratha Jain
Project Guide



Examiners:

1. 

2. 




**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

**Mini Project Report
Department of Physics**

Certificate

This is to certify that **Navyashree B** bearing the register number **210417** and **Priya Jain** bearing the register number **210386** BSc have satisfactorily completed the mini-project "**Footstep piezoelectric power generation**" in the Department of Physics prescribed by the college during the academic year 2023-24.


Prof. S N Kakathkar
Head of the Department

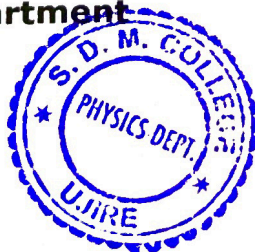

Ms. Namratha Jain
Project Guide

Examiners:

1. 

2.









**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE (AUTONOMOUS), Ujire
- 574240**

**Mini Project Report
Department of physics**



Certificate

This is to certify that Pranamya K Bhat bearing the 210420 of 3rd BSc has satisfactorily completed the mini-project "Quantum theory of electron" in the Department of physics prescribed by the college during the academic year 2023-24.


S N Kakathkar
Head of the Department
Dept. of Physics
S.D.M College (Autonomous)
Ujire-574240


Mrs. Revathi
Project Guide

Examiners:

1. 
2. 




**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE (AUTONOMOUS), Ujire
- 574240**

**Mini Project Report
Department of physics**

Certificate

This is to certify that Shashank H A bearing the 210421 of 3rd BSc has satisfactorily completed the mini-project "A new interpretation of quantum entanglement" in the Department of physics prescribed by the college during the academic year 2023-24.


S N Kakathkar
Head of the Department
Dept. Of Physics
S.D.M College (Autonomous)
Ujire-574240


Mrs. Revathi
Project Guide

Examiners:

1. 

2. 




**SRI DHARMASTHALA MANJUNATHESHWARA
COLLEGE (AUTONOMOUS), Ujire - 574240**

**Department of Physics
MINI PROJECT REPORT ON
“SINGLE AXIS SOLAR TRACKING SYSTEM”**



Certificate

This is to certify that **SHIVAKEERTHI** bearing the Register Number **U05SY21S0200** of **3rd BSc & NITHESH K.R** bearing the Register Number **U05SY2150257** of **3rd BSc** has satisfactorily completed the mini-project “**SINGLE AXIS SOLAR TRACKING SYSTEM**” in the Department of **Physics** prescribed by the college during the academic year 2023–24.


Mr. S.N. Kakathkar
HEAD
Head of the Department
S.D.M. College (Autonomous)
Ujire-574240


Ms. Revathi S
Project Guide

Examiners:

1. 
2. 



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

Certificate

This is to certify that Darshan C T and Shrilakshmi B M bearing the 210425, 210428 of 3rd BSc has satisfactorily completed the mini-project "TOUCHLESS LIGHT SWITCH" in the Department of Physics prescribed by the college during the academic year 2023 – 24.

Srukaadhitha
Professor S N Kakathkar

HEAD
Head of the Department
S.D.M College (Autonomous)
Ujire-574240

Examiners:

1. *Srukaadhitha*

2. *RG*
9/05/2024

RG
Ms. Revathi

Project Guide




**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire - 574240**

Mini Project Report

Department of Physics



Certificate

This is to certify that Raghavendra B S and Karthik N K bearing the 210426 and 210427 of 3rd BSc has satisfactorily completed the mini-project "Portable Mobile Charger" in the Department of Physics prescribed by the college during the academic year 2023-24.


S N Kakathkar
Head of the Department
Dept. Of Physics
S.D.M College (Autonomous)
Ujire-574240


Mrs Revathi S
Project Guide

Examiners:

1. 
2. 

SHRI DHARMASTHALA MANJUNATHESHWARA COLLEGE

(Autonomous)

(Re-Accredited with A⁺⁺ Grade by NAAC)

UJIRE D. K. -574240



DEPARTMENT OF PHYSICS

ASTROPHYSICS AND COSMOLOGY


AS A PART OF THE STUDENT RESEARCH PROGRAMME


2023-2024

CERTIFICATE

This is to certify that the following students of I BSc have completed the project entitled as "cosmology and astrophysics" as a co-curricular activity under the guidance of Assistant Professor S N Kakathkar , Department of physics , S.D.M College (Autonomous), Ujire during the year 2023-24.

Name	Roll Number
SHRAVAN D R	230307
GANAVI K	230349
KAVYA K	230350
NISHMITHA M	230352
PRAJWAL K U	230353
SHAYAN	230354
SOORAJ S SHETTY	230355


HOD SIGNATURE
HEAD
Dept Of Physics
S.D.M College (Autonomous)
Ujire-574240


GUIDE NAME AND SIGNATURE

Shashishchandra N Kakathkar

ACKNOWLEDGEMENT

We consider it as great privilege to express a deep sense of gratitude to Assistant Professor **S N Kakathkar**, Assistant Professor, physics Department, for her /his valuable guidance in this project work. We are grateful to him / her for giving us an opportunity to work in this student research program. It is a great pleasure to thank **Prof.S.N.Kakathkar**, H.O.D of physics Department, who guided us in doing this project.

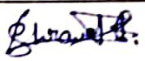
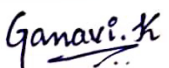
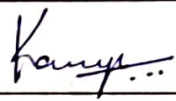
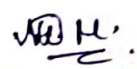
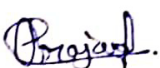


We whole-heartedly thank our college principal **Dr B A Kumara Hegde** and all other lecturers for their encouragement throughout our work.

Group Members

Name	Roll Number	class
SHRAVAN D R	230307	1 st BSC
GANAVI K	230349	1 st BSC
KAVYA K	230350	1 st BSC
NISHMITHA M	230352	1 st BSC
PRAJWAL K U	230353	1 st BSC
SHAYAN	230354	1 st BSC
SOORAJ S SHETTY	230355	1 st BSC

DECLARATION

We hereby declare that this student research project entitled "**COSMOLOGY AND ASTROPHYSICS**" has been prepared by us during the year 2023-2024 under the guidance of Assistant Professor **S N Kakathkar**, Department of physics, SDM College (Autonomous), Ujire. We also declare that the result of this research has not been reported and submitted by us for any purposes elsewhere.

Roll Number	Name	Signature
230307	SHRAVAN D R	
230349	GANAVI K	
230350	KAVYA K	
230352	NISHMITHA M	
230353	PRAJWAL K U	
230354	SHAYAN	
230355	SOORAJ S SHETTY	

SHRI DHARMASTHALA MANJUNATHESHWARA COLLEGE

(Autonomous)

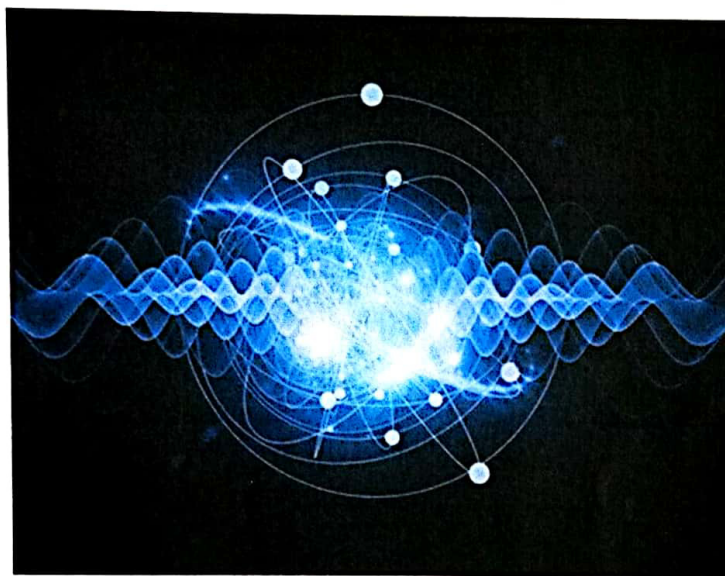
(Re-Accredited with A⁺⁺ Grade by NAAC)

UJIRE D. K. -574240



DEPARTMENT OF PHYSICS

Bose Einstein Condensation



AS A PART OF THE STUDENT RESEARCH PROGRAMME

2023-2024

CERTIFICATE

This is to certify that the following students of **II BSC** have completed the project entitled as Bose Einstein Condensation as a co-curricular activity under the guidance of Namratha Jain, Department of Physics, S.D.M College (Autonomous), Ujire during the year 2023-24.

Roll No	Name
220336	PAVANKUMAR V GEJJI
220337	PRATHIKSHA B.M
220338	SUNEHA BEGAM
220347	K R ABHINANADAN
220353	DEEKSHA
220359	NAGESH D S
220361	DEEKSHITHA

Spracheethy
HOD SIGNATURE

HEAD

Dept Of Physics
S.D.M College (Autonomous)
Ujire-574240

GUIDE NAME AND SIGNATURE

Namratha Jain-S

Namratha

ACKNOWLEDGEMENT

We consider it a great privilege to express a deep sense of gratitude to **Namratha Jain**, Assistant Professor, Physics Department, for her valuable guidance in this project work. We are grateful to her for giving us an opportunity to work in this student research program. It is a great pleasure to thank **S N Kakathkar**, H.O.D of **Physics** Department, who guided us in doing this project.

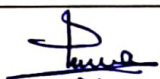
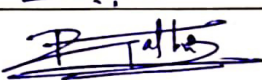
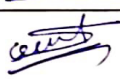

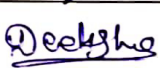
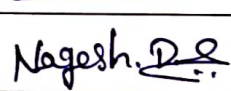
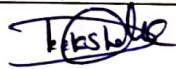
We whole-heartedly thank our college principal **Dr B A Kumara Hegde** and all other lecturers for their encouragement throughout our work.

Group Members

Roll No	Name	Class
220336	PAVANKUMAR V GEJJI	II BSC
220337	PRATHIKSHA B.M	II BSC
220338	SUNEHA BEGAM	II BSC
220347	K R ABHINANADAN	II BSC
220353	DEEKSHA	II BSC
220359	NAGESH D S	II BSC
220361	DEEKSHITHA	II BSC

DECLARATION

We hereby declare that this student research project entitled “**Bose Einstein Condensation**” has been prepared by us during the year 2023-2024 under the guidance of **Namratha Jain**, Department of Physics SDM College (Autonomous), Ujire. We also declare that the result of this research has not been reported and submitted by us for any purposes elsewhere.

ROLL NUMBER	NAME	SIGNATURE
220336	PAVANKUMAR V GEJJI	
220337	PRATHIKSHA B.M	
220338	SUNEHA BEGAM	
220347	K R ABHINANADAN	
220353	DEEKSHA	
220359	NAGESH D S	
220361	DEEKSHITHA	

SHRI DHARMASTHALA MANJUNATHESHWARA COLLEGE

(Autonomous)

(Re-Accredited with A⁺⁺ Grade by NAAC)

UJIRE D. K. -574240



DEPARTMENT OF PHYSICS

COHESIVE AND ADHESIVE FORCES

ADHESION



COHESION



AS A PART OF THE STUDENT RESEARCH PROGRAMME

2023-2024

CERTIFICATE

This is to certify that the following students of I B.Sc "B" have completed the project entitled as "COHESIVE AND ADHESIVE FORCES" as a co-curricular activity under the guidance of Ms REVATHI S, Department of PHYSICS, S.D.M College (Autonomous), Ujire during the year 2023-24.

Roll No	Name
230299	Akshatha
230301	Girisha
230303	Smitha
230304	Suraksha
230305	Vinutha
230306	Vishal S. Hegde


HOD SIGNATURE
HEAD

Dept Of Physics
S.D.M College (Autonomous)
Ujire-574240


GUIDE NAME AND SIGNATURE
(REVATHI . S)

ACKNOWLEDGEMENT

We consider it a great privilege to express a deep sense of gratitude to **Ms REVATHI S**, Assistant Professor, PHYSICS Department, for her valuable guidance in this project work. We are grateful to her for giving us an opportunity to work in this student research program. It is a great pleasure to thank **S. N. KAKATHKAR**, H.O.D of PHYSICS Department, who guided us in doing this project.

We whole-heartedly thank our college principal **Dr B. A. Kumara Hegde** and all other lecturers for their encouragement throughout our work.

Group Members

<u>Roll No</u>	<u>Name</u>	<u>Class</u>
230299	Akshatha	I B.Sc "A"
230301	Girisha	I B.Sc "B"
230303	Smitha	I B.Sc "B"
230304	Suraksha	I B.Sc "B"
230305	Vinutha	I B.Sc "B"
230306	Vishal S. Hegde	I B.Sc "B"

DECLARATION

We hereby declare that this student research project entitled “**COHESIVE AND ADHESIVE FORCES**” has been prepared by us during the year 2023-2024 under the guidance of Ms **REVATHI S**, Department of PHYSICS, SDM College (Autonomous), Ujire. We also declare that the result of this research has not been reported and submitted by us for any purposes elsewhere.

<u>Roll No</u>	<u>Name</u>	<u>Signature</u>
230299	Akshatha	Akshatha
230301	Girisha	Girisha
230303	Smitha	Smitha
230304	Suraksha	Suraksha
230305	Vinutha	Vinutha
230306	Vishal S. Hegde	Vishal S. Hegde

SHRI DHARMASTHALA MANJUNATHESHWARA COLLEGE

(Autonomous)

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UJIRE D. K. -574240



DEPARTMENT OF PHYSICS

**EXOPLANETS EXPLORED: AN OVERVIEW OF CURRENT
KNOWLEDGE AND FUTURE PROJECTS**




AS A PART OF THE STUDENT RESEARCH PROGRAMME


2023-2024

CERTIFICATE

This is to certify that the following students of 2ND BSC 'B' have completed the project entitled as "Exoplanet Explored: An Overview of Our Current Knowledge and Future Projects" as a co-curricular activity under the guidance of Ms. Apeksha Jain, Department of Physics, S.D.M College (Autonomous), Ujire during the year 2023-24.

Roll No	Name
220288	GIRISHKRISHNA K
220287	ANANYA M
220286	VAJRAKUMAR
220332	ANUSHA L
220331	AGNES PJ
220335	VENIT KUMAR
220333	POOJA D N


HOD SIGNATURE
HEAD
Dept Of Physics
S.D.M College (Autonomous)
Ujire-574240


GUIDE NAME AND SIGNATURE
Apeksha Jain

ACKNOWLEDGEMENT

We consider it a great privilege to express a deep sense of gratitude to **Ms. Apeksha Jain**, Assistant Professor, Physics Department, for her valuable guidance in this project work. We are grateful to him / her for giving us an opportunity to work in this student research program. It is a great pleasure to thank **Mr. S.N Kakathkar**, H.O.D of Physics Department, who guided us in doing this project.


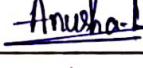

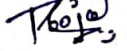
We whole-heartedly thank our college principal **Dr B A Kumara Hegde** and all other lecturers for their encouragement throughout our work.

Group Members

<u>Roll No</u>	<u>Name</u>	<u>Class</u>
220288	GIRISHKRISHNA K	2 ND BSC B
220287	ANANYA M	2 ND BSC B
220286	VAJRAKUMAR	2 ND BSC B
220332	ANUSHA L	2 ND BSC B
220331	AGNES PJ	2 ND BSC B
220335	VENITH KUMAR	2 ND BSC B
220333	POOJA D N	2 ND BSC B

DECLARATION

We hereby declare that this student research project entitled “**Exoplanet Explored: An Overview of Our Current Knowledge and Future Projects**” has been prepared by us during the year 2023-2024 under the guidance of **Mr. Apeksha Jain**, Department of Physics, SDM College (Autonomous), Ujire. We also declare that the result of this research has not been reported and submitted by us for any purposes elsewhere.

ROLL NUMBER	NAME	SIGNATURE
220288	GIRISHKRISHNA K	
220287	ANANYA M	
220286	VAJRAKUMAR	
220332	ANUSHA L	
220331	AGNES PJ	
220335	VENITH KUMAR	
220333	POOJA D N	

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UJIRE D. K. -574240



DEPARTMENT OF PHYSICS

FLOATING TRAIN



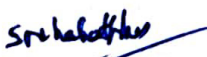
AS A PART OF THE STUDENT RESEARCH PROGRAMME


2023-2024

CERTIFICATE

This is to certify that the following students of 1st BSC have completed the project entitled as “**FLOATING TRAIN**” as a co-curricular activity under the guidance of **Apeksha Jain**, Department of Physics SDM College, Ujire during the year 2023-2024.

Roll No.	Name
230356	NISHITH JAIN
230357	RAMYA
230358	VACHANAMBIKA
230359	YASHAS K.S.
230360	AKASH SHETTY
230361	AYISHATHUL ARIFA
230362	CHITHRESH


HOD SIGNATURE
HEAD
Dept Of Physics
S.D.M College (Autonomous)
Ujire-574240


GUIDE NAME AND SIGNATURE
Apeksha Jain.

ACKNOWLEDGEMENT

We consider it a great privilege to express a deep sense of gratitude to **Apeksha Jain**, Assistant Professor, Physics Department, for her valuable guidance in this project work. We are Grateful to her for giving us an opportunity to work in this student research program. It is great pleasure to **Thank Shashishekar N Kakathkar**, H.O.D. of Physics, who guided us in doing this project.



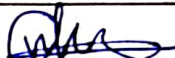

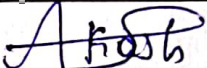
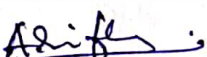
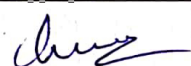
We whole-heartedly thank our college Principal **Dr. Kumar Hegde** and all other lecturers for their encouragement throughout our work.

Group Members

Roll No.	Name	Class
230356	NISHITH JAIN	1 ST BSC
230357	RAMYA	1 ST BSC
230358	VACHANAMBIKA	1 ST BSC
230359	YASHAS K.S.	1 ST BSC
230360	AKASH SHETTY	1 ST BSC
230361	AYISHATHUL ARIFA	1 ST BSC
230362	CHITHRESH	1 ST BSC

DECLARATION

We hereby declare that this student research project entitled “**Floating train**” has been prepared by us during the year 2023-2024 under the guidance of **Miss Apeksha Jain**, department of Physics, SDM College (Autonomous), Ujire. We also declare that the result of this research has not been reported and submitted by us for any purposes elsewhere.

Roll No.	Name	Signature
230356	NISHITH JAIN	
230357	RAMYA	
230358	VACHANAMBIKA	
230359	YASHAS K.S.	
230360	AKASH SHETTY	
230361	AYISHATHUL ARIFA	
230362	CHITHRESH	

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UJIRE D. K. -574240



DEPARTMENT OF PHYSICS

A BRIEF REVIEW OF TRANSISTORS



AS A PART OF THE STUDENT RESEARCH PROGRAMME

2023-2024

CERTIFICATE

This is to certify that the following students of I B.Sc have completed the project entitled as "A REVIEW OF FIELD EFFECT TRANSISTORS" as a co-curricular activity under the guidance of Mrs. Namratha Jain, Department of Physics, S.D.M College (Autonomous), Ujire during the year 2023-24.

Roll No	Name
230363	HARSHITHA M S
230364	MOKSHITH
230365	SANJANA
230366	SNEHA B K
230367	ROSHAN V BILLAVA
230368	SINCHANA
230369	THEJASHWINI N

S. Namratha
HOD SIGNATURE
HEAD
Dept Of Physics
S.D.M College (Autonomous)
Ujire-574240

Namratha
13/4/2024
GUIDE NAME AND SIGNATURE

Namratha. Jain. S.

ACKNOWLEDGEMENT

We consider it a great privilege to express a deep sense of gratitude to **Mrs Namratha Jain**, Assistant Professor, Department of Physics, for her valuable guidance in this project work. We are grateful to her for giving us an opportunity to work in this student research program. It is a great pleasure to thank **Prof. S.N. Kakathkar**, H.O.D of the **Department of Physics**, who guided us in doing this project.

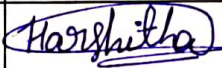
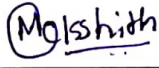
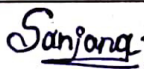
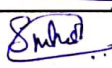
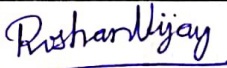
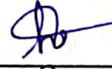

We whole-heartedly thank our college principal **Dr B A Kumara Hegde** and all other lecturers for their encouragement throughout our work.

Group Members

<u>Roll No</u>	<u>Name</u>	<u>Class</u>
230363	HARSHITHA M S	I BSc
230364	MOKSHITH	I BSc
230365	SANJANA	I BSc
230366	SNEHA B K	I BSc
230367	ROSHAN V BILLAVA	I BSc
230368	SINCHANA	I BSc
230369	THEJASHWINI N	I BSc

DECLARATION

We hereby declare that this student research project entitled “ **A REVIEW OF FIELD EFFECT TRANSISTORS** ” has been prepared by us during the year 2023-2024 under the guidance of **Namratha Jain**, Department of Physics, SDM College (Autonomous), Ujire. We also declare that the result of this research has not been reported and submitted by us for any purposes elsewhere.

ROLL NUMBER	NAME	SIGNATURE
230363	HARSHITHA M S	
230364	MOKSHITH	
230365	SANJANA	
230366	SNEHA B K	
230367	ROSHAN V BILLAVA	
230368	SINCHANA	
230369	THEJASHWINI N	

SHRI DHARMASTHALA MANJUNATHESHWARA COLLEGE

(Autonomous)

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UJIRE D. K. -574240



DEPARTMENT OF PHYSICS

TIME DILATION AND TWIN PARADOX


AS A PART OF THE STUDENT RESEARCH PROGRAMME

2023-2024

CERTIFICATE

This is to certify that the following students of **2nd B. Sc.** have completed the project entitled as "**Time Dilation and Twin Paradox**" as a co-curricular activity under the guidance of **Prof. S N Kakathkar**, Department of Physics, S.D.M College (Autonomous), Ujire during the year 2023-24.

Roll No	Name
220279	Ruchira B
220284	Thithiksha M J
220278	Rachitha
220280	Shreeja
220281	Sushmitha
220282	Varshitha
220285	Thrupthi


HOD SIGNATURE
HEAD
Dept Of Physics
S.D.M College (Autonomous)
Ujire-574240


GUIDE NAME AND SIGNATURE

Shashikumar N Kakathkar

ACKNOWLEDGEMENT

We consider it a great privilege to express a deep sense of gratitude to **S N Kakathkar**, Associate Professor, Physics Department, for his valuable guidance in this project work. We are grateful to him for giving us an opportunity to work in this student research program. It is a great pleasure to thank **Prof S N Kakathkar**, H.O.D of Physics Department, who guided us in doing this project.

We whole-heartedly thank our college principal **Dr B A Kumara Hegde** and all other lecturers for their encouragement throughout our work.

Group Members

<u>Roll No</u>	<u>Name</u>	<u>Class</u>
220279	Ruchira B	2 nd B. Sc.
220284	Thithiksha M J	2 nd B. Sc.
220278	Rachitha	2 nd B. Sc.
220280	Shreeja	2 nd B. Sc.
220281	Sushmitha	2 nd B. Sc.
220282	Varshitha	2 nd B. Sc.
220285	Thrupthi	2 nd B. Sc.

DECLARATION

We hereby declare that this student research project entitled “**Time Dilation and Twin Paradox**” has been prepared by us during the year 2023-2024 under the guidance of **Prof. S N Kakathkar**, Department of Physics, SDM College (Autonomous), Ujire. We also declare that the result of this research has not been reported and submitted by us for any purposes elsewhere.

ROLL NUMBER	NAME	SIGNATURE
220279	Ruchira B	Ruchira Bahubali
220284	Thithiksha M J	Thithiksha
220278	Rachitha	Rachitha
220280	Shreeja	Shreeja. m. v
220281	Sushmitha	Sushmitha
220282	Varshitha	Varshitha.
220285	Thrupthi	Thrupthi.

SHRI DHARMASTHALA MANJUNATHESHWARA COLLEGE

(Autonomous)

(Re-Accredited with A⁺⁺ Grade by NAAC)

UJIRE D. K. -574240

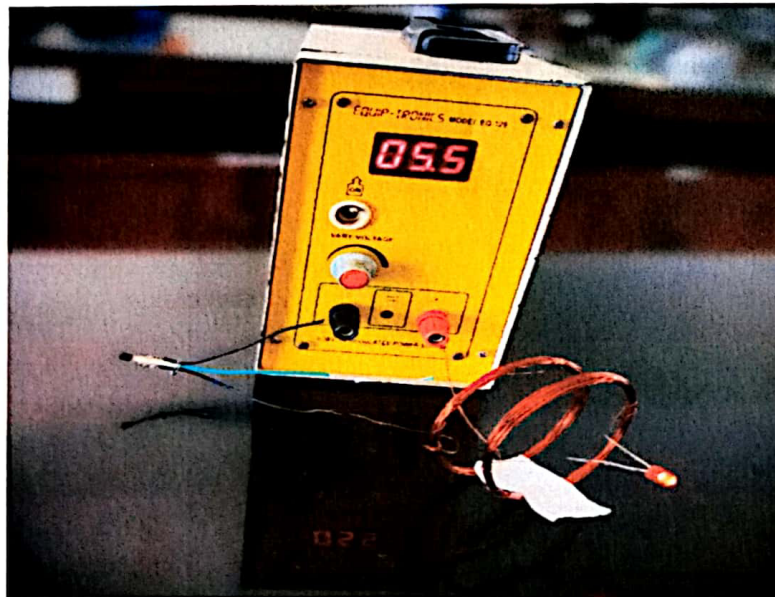


DEPARTMENT OF PHYSICS

WIRELESS POWER TRANSMISSION

AS A PART OF THE STUDENT RESEARCH PROGRAMME

2023-2024



CERTIFICATE

This is to certify that the following students of **I BSc B** have completed the project entitled as **"WIRELESS POWER TRANSMISSION"** as a co-curricular activity under the guidance of **Ms. Revathi S**, Department of physics, S.D.M College (Autonomous), Ujire during the year 2023-24.

Roll No	Name
230373	NEHA S
230381	AVINASH KUMAR K M
230370	SHRADDHA S SHETTY
230372	AFREENA M
230374	FATHIMATH ESHA


HODSIGNATURE
HEAD

Dept Of Physics
S.D.M College (Autonomous)
Ujire-574240


GUIDE NAME AND SIGNATURE

(REVATHI . S)

ACKNOWLEDGEMENT

We consider it a great privilege to express a deep sense of gratitude to **Ms Revathi S**, Assistant Professor, Physics Department, for her valuable guidance in this project work. We are grateful to her for giving us an opportunity to work in this student research program. It is a great pleasure to thank **Prof.S.N.Kakathkar**, H.O.D of Physics Department, who guided us in doing this project.




We whole-heartedly thank our college principal **Dr.B A Kumara Hegde** and all other lecturers for their encouragement throughout our work.

Group Members

<u>Roll No</u>	<u>Name</u>	<u>Class</u>
230373	NEHA S	I BSc 'B'
230381	AVINASH KUMAR K M	I BSc 'B'
230370	SHRADDHA S SHETTY	I BSc 'B'
230372	AFREENA M	I BSc 'B'
230374	FATHIMATH ESHA	I BSc 'B'

DECLARATION

We hereby declare that this student research project entitled “**WIRELESS POWERTRANSMISSION**” has been prepared by us during the year 2023-2024 under the guidance of **Ms. Revathi S**, Department of Physics, SDM College (Autonomous), Ujire. We also declare that the result of this research has not been reported and submitted by us for any purposes elsewhere.

ROLL NUMBER	NAME	SIGNATURE
230373	NEHA S	
230381	AVINASH KUMAR	
230370	SHRADDHA S SHETTY	
230372	AFREENA M	
230374	FATHIMATH ESHA	