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CHANGANASSERY, KERALA

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the dissertation entitled Reverse Parking Sensor and DC Voltmeter is a bona fide record of the work based on the investigation carried out by Alen A Chacko (Reg. No.11901050) at St. Berchmans College, Changanassery under the guidance of Mr. Ajai Jose in partial fulfillment of the requirement for the award of Bachelor of Science in Physics of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.

Dr. Gijo Jose

Prof. Ajai Jose

Head of the Department

Project Guide

Examiners:

1. Gijo Jose 17/5/22.
2. Prizil Matheew

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This is to certify that the dissertation entitled Reverse Parking Sensor and DC Voltmeter is a bona fide record of the work based on the investigation carried out by Muhammad Aslam(Reg.No.11901058) at St. Berchmans College, Changanassery under the guidance of Mr. Ajai Jose in partial fulfilment of the requirement for the award of Bachelor of Science in Physics of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.

Dr. Gijo Jose

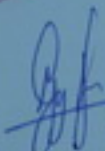
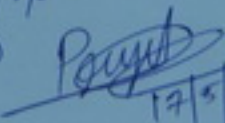
Prof. Ajai Jose

Head of the Department



Project Guide

Examiners:

1. Gijo Jose  17/5/22.
2. Prayil Mathew  17/5/22.

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CERTIFICATE

This is to certify that the dissertation entitled Alarm system using Arduino Nano Submitted – **Sreejith S (Reg.No.11901065)** is a bona fide record of the work based on the investigation carried out by him at St. Berchmans College, Changanassery under the guidance of **Dr.Sijo Sebastian** in partial fulfilment of the requirement for the award of **Bachelor of Science in Physics** of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.

Dr.Gijo Jose

Head of the Department

Examiners:

1. Gijo Jose

2. Dr. Privil Mathew.

Dr.Sijo Sebastian

Project Guide

19/5/22

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CERTIFICATE

This is to certify that the dissertation entitled Alarm system using Arduino Nano Submitted - **Sebin Cherian (Reg.No.11901063)** is a bona fide record of the work based on the investigation carried out by him at St. Berchmans College, Changanassery under the guidance of **Dr.Sijo Sebastian** in partial fulfilment of the requirement for the award of **Bachelor of Science in Physics** of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.


Dr.Gijo Jose

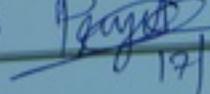
Head of the Department



Dr.Sijo Sebastian

Project Guide

Examiners: 1. Gijo Jose  17/5/22

2. Prayil Mathew  17/5/22.

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This is to certify that the project entitled "RADIO RECEIVER" is an authentic work done by DEVDERSH S (reg no:11901038) for the award of the degree of bachelor of science is a bonafied research work done by him. He has worked under the guidance of Mr. Justin John of this department. The results presented in this report have not been submitted in part or full to any other university or institute for the award of any other degree or diploma.

Changanassery

17 May 2022

DR. GIJO JOSE

HEAD OF THE DEPARTMENT

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CERTIFICATE

This is to certify that the project entitled "RADIO RECEIVER" is an authentic work done by KISHORE S (reg no:11901039) for the award of the degree of bachelor of science is a bonafied research work done by him. He has worked under the guidance of Mr. Justin John of this department. The results presented in this report have not been submitted in part or full to any other university or institute for the award of any other degree or diploma.

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17 May 2022


DR. GEO JOSE

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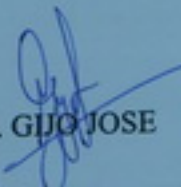


CERTIFICATE

This is to certify that the project entitled "RADIO RECEIVER" is an authentic work done by KEVIN GEORGE ALEX (reg no:11901057) for the award of the degree of bachelor of science is a bonafied research work done by him. He has worked under the guidance of Mr. Justin John of this department. The results presented in this report have not been submitted in part or full to any other university or institute for the award of any other degree or diploma.

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17 May 2022


DR. GIJO JOSE

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This is to certify that the project entitled "RADIO RECEIVER" is an authentic work done by CHRISTO KUNJUMON (reg no:11901071) for the award of the degree of bachelor of science is a bonafied research work done by him. He has worked under the guidance of Mr. Justin John of this department. The results presented in this report have not been submitted in part or full to any other university or institute for the award of any other degree or diploma.

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17 May 2022

DR. GEO JOSE

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DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the dissertation entitled Alarm system using Arduino Nano Submitted – **Sharon Biju (Reg.No.11901042)** is a bona fide record of the work based on the investigation carried out by him at St. Berchmans College, Changanassery under the guidance of **Dr.Sijo Sebastian** in partial fulfilment of the requirement for the award of **Bachelor of Science in Physics** of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.

Dr.Gijo Jose

Head of the Department



Dr.Sijo Sebastian

Project Guide

Examiners: 1. Gijo Jose

17/5/22.

2. Prayil Mathew


17/5/22.



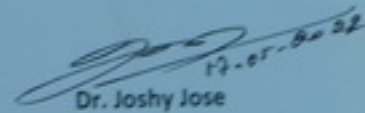
DEPARTMENT OF PHYSICS

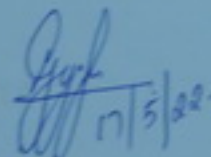
CERTIFICATE

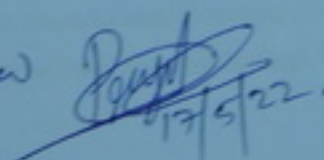
This is to certify that the dissertation entitled **Automatic Electric Hand Sanitizer**, Submitted- Agile Peter Sony (Reg. No.11901043) and is a bonafide record of the work based on the investigation carried out by them at Department of Physics, St. Berchmans College, Changanassery, Kottayam under the guidance of Dr. Joshy Jose in partial fulfilment of the requirement for the award of Bachelor of Science in Physics of Mahatma Gandhi University, Kottayam, during the academic year 2019 - 2022. The work presented in this report has not been submitted for any degree or diploma earlier.


Dr. Gijo Jose
Head of the Department




Dr. Joshy Jose
Project Guide

Examiners: 1. Gijo Jon  17/5/22.

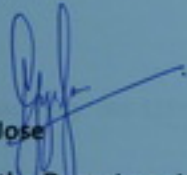
2. Prayil Mathew  17/5/22.



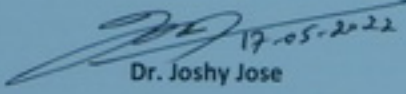
DEPARTMENT OF PHYSICS

CERTIFICATE


This is to certify that the dissertation entitled **Automatic Electric Hand Sanitizer**, Submitted- Alan S Das (Reg. No.11901048) is a bonafide record of the work based on the investigation carried out by them at Department of Physics, St. Berchmans College, Changanassery, Kottayam under the guidance of Dr. Joshy Jose in partial fulfilment of the requirement for the award of Bachelor of Science in Physics of Mahatma Gandhi University, Kottayam, during the academic year 2019 - 2022. The work presented in this report has not been submitted for any degree or diploma earlier.



Dr. Gijo Jose
Head of the Department




17-05-2022
Dr. Joshy Jose
Project Guide

Examiners:

1. Gijo Jose  7/5/22


2. Prayil Mathew 

CERTIFICATE

This is to certify that the project entitled "ACOUSTIC LEVITATOR" is an authentic work done by **AKSHAY KRISHNAN R** (reg no:11901047) for the award of the degree of bachelor of science is a bonafied research work done by him .He have worked under the guidance of **Dr. LIJO JOSE** of this department. The results presented in this report have not been submitted in part or full to any other university or institute for the award of any other degree or diploma.

Changanassery

16 May 2022



DR. LIJO JOSE

HEAD OF THE DEPARTMENT

CERTIFICATE

This is to certify that the project entitled "ACOUSTIC LEVITATOR" is an authentic work done by **CYRIL JOSE** (reg no:11901037) for the award of the degree of bachelor of science is a bonafied research work done by him .He has worked under the guidance of **Dr. LIJO JOSE** of this department. The results presented in this report have not been submitted in part or full to any other university or institute for the award of any other degree or diploma.

Changanassery

16 May 2022



DR. GIJO JOSE

HEAD OF THE DEPARTMENT

CERTIFICATE

This is to certify that the project entitled "ACOUSTIC LEVITATOR" is an authentic work done by **SACHITH MARTIN** (reg no:11901062) for the award of the degree of bachelor of science is a bonafied research work done by him .He has worked under the guidance of **Dr. LIJO JOSE** of this department. The results presented in this report have not been submitted in part or full to any other university or institute for the award of any other degree or diploma.

Changanassery

16 May 2022



DR. LIJO JOSE

HEAD OF THE DEPARTMENT

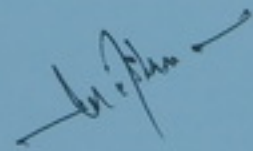
CERTIFICATE

Certified that this project report entitled "**Comparative study of graphene for different voltages**" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment for the award of the degree of **Bachelor of Science in Physics**, is a bonafide record of studies carried out by

Sidhart R(11901064) during the year 2021 - 2022 at St.Berchmans College, Changanassery and that it has not been previously submitted for the award of any degree or diploma or any other title of recognition.


Dr Gijo Jose
Head of the Department



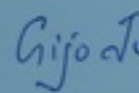

Dr Loji K Thomas
Project Guide



Mr Justin John

Teacher-in-charge
JUSTIN JOHN

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E-mail: lojthomas@yahoo.com

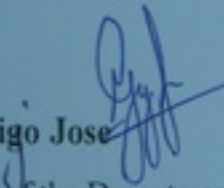
Examiners 1. 

2. 
Fsyil Mathew

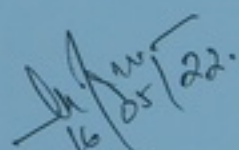
CERTIFICATE

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Philip James(11901060) during the year 2021 - 2022 at St.Berchmans College, Changanassery and that it has not been previously submitted for the award of any degree or diploma or any other title of recognition.



Dr Gigo Jose
Head of the Department




Dr Loji K Thomas

Project Guide

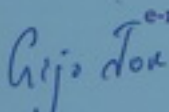

Dr. LOJI K. THOMAS
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Mr Justin John

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Examiners


1.   17/5/2022.

2.  Prayl Mathew

CERTIFICATE

Certified that this project report entitled "Comparative study of graphene for different voltages" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment for the award of the degree of Bachelor of Science in Physics, is a bonafide record of studies carried out by

Md Gulzar Azhad MM(11901041) during the year 2021 - 2022 at St. Berchmans College, Changanassery and that it has not been previously submitted for the award of any degree or diploma or any other title of recognition.


Dr Gijo Jose
Head of the Department





Dr Loji K Thomas

Project Guide
Dr. LOJI K. THOMAS
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Mr Justin John
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Teacher-in-charge
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Mob: 9447803668
e-mail: justinjohn@rediffmail.com

Examiners 1.

Gijo Jose


17/5/2022.

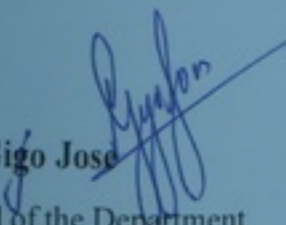
2. Dr. Prayl Mathew.


17/05/22.

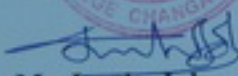
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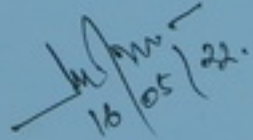
Abhijith K(11901035) during the year 2021 - 2022 at St.Berchmans College, Changanassery and that it has not been previously submitted for the award of any degree or diploma or any other title of recognition.


Dr Gigo Jose
Head of the Department



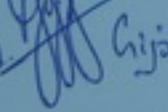

Mr Justin John

Teacher-in-charge
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Dr Loji K Thomas

Project Guide
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Examiners 1.


17/5/2022
Gigo Jose

2. Prayl Mathew


19/05/22

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DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the dissertation entitled Distance measurement using Raspberry pi is a bona fide record of the work based on the investigation carried out by Athul Jayan (Reg.No.11901036) at St. Berchmans College, Changanassery under the guidance of Dr. Prijil Mathew in partial fulfilment of the requirement for the award of Bachelor of Science in Physics of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.

Dr. Gijo Jose



Dr. Prijil Mathew

Head of the Department

Project Guide

Examiners: 1. Gijo Jose

2. Prijil Mathew

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CERTIFICATE

This is to certify that the dissertation entitled Distance measurement using Raspberry pi is a bona fide record of the work based on the investigation carried out by Paul C Alex (Reg.No.11901075) at St. Berchmans College, Changanassery under the guidance of Dr. Prijil Mathew in partial fulfilment of the requirement for the award of Bachelor of Science in Physics of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.

Dr. Gijo Jose

Head of the Department

Examiners: 1. Gijo Jose

2. Prijil Mathew

Dr. Prijil Mathew



Project Guide

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CERTIFICATE

This is to certify that the dissertation entitled Distance measurement using Raspberry pi is a bona fide record of the work based on the investigation carried out by Aakash S Nath (Reg.No.11901033) at St. Berchmans College, Changanassery under the guidance of Dr. Prijil Mathew in partial fulfilment of the requirement for the award of Bachelor of Science in Physics of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.

Dr. Gijo Jose

Head of the Department



Dr. Prijil Mathew

Project Guide

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DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the project report titled "DESIGN OF A MINI REFRIGERATOR USING PELTIER MODULE" is an authentic record work done by following student, ABBAS KRISHNA (11901034), under my supervision at the Department of Physics of the St. Berchmans College, Changanassery (Autonomous) under Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of degree of Bachelors of science in physics

Place: Changanassery

Dr. Gijo Jose

(Head of the Department)



BENNY JOSEPH
Assistant Professor, Dept. of Physics
St. Berchmans College
Changanassery - 686101
Mob: 828147647
E-mail: bennythadavankal@gmail.com

Mr. Benny Joseph

(Project Supervisor)

Examiners:

1. Gijo Jose

2. Prayil Mathew

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CHANGANASSERY, KERALA

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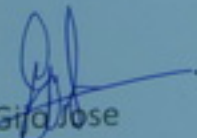
CERTIFICATE


This is to certify that the project report titled "DESIGN OF A MINI REFRIGERATOR USING PELTIER MODULE" is an authentic record work done by following student, SUDHIKUMAR(11901067) , under my supervision at the Department of Physics of the St.Berchmans College, Changanassery (Autonomous) under Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of degree of Bachelors of science in physics

Place: Changanassery



BENNY JOSEPH
Assistant Professor, Dept. of Physics
St. Berchmans College
Changanassery - 686101
Mob: 8281472647
E-mail: bennythadavanal@gmail.com


Dr. Gijo Jose

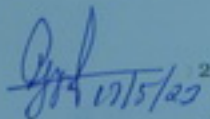

Mr. Benny Joseph

(Head of the Department)

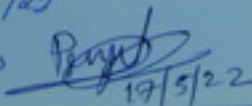
(Project Supervisor)

Examiners:

1. Gijo Jose


17/5/22

2. Dr. Phyl Mathew


17/5/22

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CHANGANASSERY, KERALA

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the project report titled "DESIGN OF A MINI REFRIGERATOR USING PELTIER MODULE" is an authentic record work done by following student, GAUTAM SANJAY (11901053), under my supervision at the Department of Physics of the St. Berchmans College, Changanassery (Autonomous) under Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of degree of Bachelors of science in physics


Place: Changanassery



BENNY JOSEPH
Assistant Professor, Dept. of Physics
St. Berchmans College
Changanassery - 686101
Mob: 8281472647
E-mail: bennythadavanal@gmail.com



Dr. Gijo Jose


(Head of the Department)


Mr. Benny Joseph

(Project Supervisor)

Examiners:

1. Gijo Jose 

Paul Mathew 



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Affiliated to Mahatma Gandhi University, Kottayam, Kerala
Changanassery, Kottayam, Kerala, India - 686101

CERTIFICATE


This is to certify that the dissertation entitled Touchless doorbell using Infrared Proximity sensor submitted by- Akhil George (Reg.No. 11901045) is a bonifide record of the work based on the investigation carried out by me at St.Berchmans college, Changanassery under the guidance of Mr.Subin P John in partial fulfillment of the requirement for the award of bachelor of science in physics of Mahatma Gandhi University, Kottayam during the academic year 2019-2022. The work presented in this report has not be submitted for any degree or diploma earlier.

Dr.Gijo Jose

Head of the Department


17/5/2022.
Gijo Jose.




Mr. Subin P John

Project guide

Prjil Mathew





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Affiliated to Mahatma Gandhi University, Kottayam, Kerala
Changanassery, Kottayam, Kerala, India - 686101

CERTIFICATE

This is to certify that the dissertation entitled Touchless doorbell using Infrared Proximity sensor submitted by- Albin Tom Kuruvilla (Reg.No. 11901049) is a bonifide record of the work based on the investigation carried out by me at St.Berchmans college, Changanassery under the guidance of Mr.Subin P John in partial fulfillment of the requirement for the award of bachelor of science in physics of Mahatma Gandhi University, Kottayam during the academic year 2019-2022. The work presented in this report has not be submitted for any degree or diploma earlier.

Dr.Gijo Jose

Head of the Department

Examiner 1

[Signature]
Gijo Jose
17/5/2022.

[Signature]
Mr. Subin P John

Project guide

Examiner 2

Prayl Mathew

[Signature]





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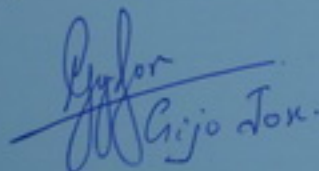
CERTIFICATE


This is to certify that the dissertation entitled Touchless doorbell using Infrared Proximity sensor submitted by- Jibin Sabu John(Reg.No. 11901054) is a bonifide record of the work based on the investigation carried out by me at St.Berchmans college, Changanassery under the guidance of Mr.Subin P John in partial fulfillment of the requirement for the award of bachelor of science in physics of Mahatma Gandhi University, Kottayam during the academic year 2019-2022. The work presented in this report has not be submitted for any degree or diploma earlier.

Dr.Gijo Jose

Head of the Department

Examiner 1.


Gijo Jose.


Mr. Subin P John

Project guide

Examiner 2.

Prayil Mathew








Changanassery

17.May.2022

CERTIFICATE

This is to certify that the project report entitled “ A STUDY ON VARIOUS FACTORS AND PARAMETERS INFLUENCING THE EFFICIENCY OF A SILICON SOLAR CELL” is an authentic record of the project work carried out by **BIJIN JOSEPH SEBASTIAN** under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Bachelor of Science in physics of the Mahatma Gandhi University, Kottayam. The work presented in this project report has not been submitted for any degree or diploma earlier.



DR. GIJO JOSE
Head of Department
Department of Physics


DR. SAJITH MATHEWS T
Project Guide

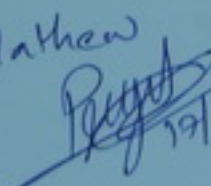


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Examiner 1 ...


17/5/2022

Examiner 2 ...


Poyil Mathew
17/5/22



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This is to certify that the project report entitled "A STUDY ON VARIOUS FACTORS AND PARAMETERS INFLUENCING THE EFFICIENCY OF A SILICON SOLAR CELL" is an authentic record of the project work carried out by PRADEESH KUMAR P K under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Bachelor of Science in physics of the Mahatma Gandhi University, Kottayam. The work presented in this project report has not been submitted for any degree or diploma earlier.



DR. GIJO JOSE
Head of Department
Department of Physics


DR. SAJITH MATHEWS T
Project Guide

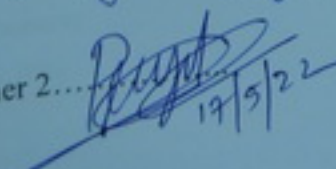


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DR. GIJO JOSE
Head of Department
Department of Physics


DR. SAJITH MATHEWS T
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DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the dissertation entitled Reverse Parking Sensor and DC Voltmeter is a bona fide record of the work based on the investigation carried out by Alvin Tom (Reg.No.11901051) at St. Berchmans College, Changanassery under the guidance of Mr. Ajai Jose in partial fulfillment of the requirement for the award of Bachelor of Science in Physics of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.

Dr. Gijo Jose



Prof. Ajai Jose

Head of the Department

Project Guide

Examiners: 1. Gijo Jose 17/5/2022

2. Prayil Mathew 17/5/22

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CHANGANASSERY, KERALA

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the dissertation entitled Reverse Parking Sensor and DC Voltmeter is a bona fide record of the work based on the investigation carried out by Jude Philip Jose (Reg. No.11901056) at St. Berchmans College, Changanassery under the guidance of Mr. Ajai Jose in partial fulfillment of the requirement for the award of Bachelor of Science in Physics of Mahatma Gandhi University, Kottayam, during the academic year 2019-2022. The work presented in this report has not been submitted for any degree or diploma earlier.

Dr. Gijo Jose

Prof. Ajai Jose

Head of the Department



Project Guide

Examiners:

1. Gijo Jose

2. Prizil Mathew