ALCOHOL SENSOR IGNITION CAR DRIVING

A dissertation submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

By

- Harini.M (2021P22)
- Mahalakshmi.D (2021P23)
- Maria Roselin Rani.B (2021P24)
- Mariam Jamila .S (2021P25)

Under the guidance of
Dr.I.Jeya Sheela,
Associate Professor,
Research Center of Physics,
Fatima College (Autonomous), Madurai.



FATIMA COLLEGE (Autonomous)
Re-Accredited with A++ by NAAC (Cycle – IV)
Mary Land, Madurai - 625 018.

MARCH 2024

This is to certify that the project work <u>'ALCOHOL SENSOR IGNITION CAR DRIVING'</u> done by Harini.M 2021P22, Mahalakshmi.D 2021P23, Maria Roselin Rani.B 2021P24, Mariam Jamila.S 2021P25, under the guidance of Dr.I. Jeya Sheela, Associate Professor, Research Center of physics, Fatima College (Autonomous), Madurai.

R. Show Siyay EXTERNAL EXAMINER 9.7, 1/2/4 GUIDE

Dr. R. VISHNU PRIYA

Assistant Professor
Research Centre & PG Dept. of Physics
The Madura College

Madurai-625 011

A. Sheel Uno is HEAD OF THE DEPARTMENT

We hereby declare that the dissertation titled "
ALCOHOL SENSOR IGNITION CAR DRIVING",
submitted to Fatima College (Autonomous),
Madurai -625018 to the award of degree of
Bachelor of Science in Physics is a record of
original project work carried out under the
supervision of Dr.I. Jeya Sheela, Associate
Professor, Research Center of
Physics, Fatima College (Autonomous),
Madurai and has not submitted for any degree
or diploma in Madurai Kamaraj University or
any Institution.

Harini.M 2021P22

D. Mahalakshun.

Mahalakshmi.D 2021P23

B. Maria Roselin Ran.
Maria Roselin Rani. B 2021P24

S. Mariam Jamila

Mariam Jamila.S 2021P25

PLACE: MADURAI

DATE: 27/03/24

PANIC BUTTON ALARM SYSTEM

A dissertation submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

By

- 1. MATHIYALINI.V 2021P26
- 2. MONICKA SELESTIN.À 2021P27
- 3. PRADEEPA.S 2021P29
- 4. ROFFINA.E 2021P31
- 5. ROOPA ROSLIN.S 2021P32

Under the guidance of

Ms.I.Janet Sherley,

Associate Professor,
Research centre of physics,
Fatima College(Autonomous), Madurai.



FATIMA COLLEGE (Autonomous)

Re-Accredited with A++ by NAAC(Cycle - IV)
Mary Land, Madurai-625018.

This is to certify that the project work 'PANIC BUTTONALARM SYSYEM' done by Mathiyalini.V(2021P26), MonickaSelestin.A (2021P27, Pradeepa.S (2021P29),Roffina.E (2021P31), Roopa Roslin.S (2021P32) under the guidance of Ms.I. Janet Sherley, Associate Professor, ResearchCentre of Physics, Fatima College (Autonomous), Madurai.

R. Vom feijog EXTERNAL EXAMINER

GUIDE

Dr. R. VISHNU PRIYA

Assistant Professor

Research Centre & PG Dept. of Physics

The Madura College

Madurai-625 011

We hereby declarethat the dissertation titled "PANIC BUTTON ALARM SYSTEM", submitted to Fatima College (Autonomous), Madurai — 625018 to the award of degree of Bachelor of Science in Physics is a record of original project work carried out under the supervision of Ms. I. Janet Sherly, AssociateProfessor, Research Center of Physics, Fatima College (Autonomous), Madurai and has not submitted for any degree or diploma in Madurai Kamaraj University or any Institution.

V. Mathiyalini. V 2021P26

A. Hometa Delestin

Monicka Selestin. A 2021P27

8. Prodepor

Pradeepa. S 2021P29

Roffina. E

2021P31

5. Roopa poslin

Roopa Roslin. S 2021P32

PLACE: MADURAI

DATE: 27/03/2024

ULTRASONIC DISTANCE MEASUREMENT

A dissertation submitted in partial fulfilment of the requirement for the award of the degree of **BACHELOR OF SCIENCE IN PHYSICS**By

Sahana Parvin. M 2021P33 Sarumathi. C 2021P34 Sharina Joe Kathrin. A 2021P35 Sofiya Devi. K 2021P36

Under the guidance of
Dr. I. Janet Sherly,
Associate Professor,
Research Center of Physics,
Fatima College (Autonomous), Madurai.



FATIMA COLLEGE (Autonomous)
Re-Accredited with A++ by NAAC (Cycle – IV)
Mary Land, Madurai - 625 018.

March,2024

This is to certify that the project work 'ULTRASONIC DISTANCE MEASUREMENT' done by Sahana Parvin. M(2021P33), Sarumathi. C(2021P34), Sharina Joe Kathrin. A(2021P35), Sofiya Devi. K(2021P36), under the guidance of Dr. I. Janet Sherly, Associate Professor, Research Center of physics, Fatima College (Autonomous), Madurai.

R. D. figof EXTERNAL EXAMINER

9104/2024 GUIDE

Dr. R. VISHNU PRIYA
Assistant Professor
esearch Centre & PG Dept. of Physics
The Madura College
Madurai-625 011

We hereby declare that the dissertation titled " ULTRASONIC DISTANCE MEASUREMENT", submitted to Fatima College (Autonomous), Madurai -625018 to the award of degree of Bachelor of Science in Physics is a record of original project work carried out under the supervision of Dr. I. Janet Sherly, Associate Professor, Research Center of Physics, Fatima College (Autonomous), Madurai and has not submitted for any degree or diploma in Madurai Kamaraj University or any Institution.

M. Sahara Parvin

Sahana Parvin, M 2021P33

C. SaxuMathi

Sarumathi. C 2021P34

Shanina Ja Kathin. A Sharina Joe Kathrin, A 2021P35

Sofiya Devi. k 2021P36

PLACE: MADURAI DATE: 27/03/2024

SMART GARDENING AUTOMATION

SOIL MOISTURE SENSOR

A dissertation submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

By

1.SREETHI JINANI RAJ M 2021P37
2.SRI DEVI U 2021P38
3.SWAATHY B 2021P39
4.THAIS J 2021P40
5.VEERA PANDEESWARI S 2021P41

Under the guidance of

Ms. J.R. SOFIA,

Associate Professor,

Research Center of Physics,

Fatima College (Autonomous), Madurai.



FATIMA COLLEGE (Autonomous)
Re-Accredited with A++ by NAAC (Cycle – IV)
Mary Land, Madurai - 625 018.

March, 2024.

This is to certify that the project work 'SMART GARDENING AUTOMATION' done by SREETHI JINANI RAJ M(2021P37), SRI DEVI U(2021P38), SWAATHY B (2021P39), THAIS J (2021P40), VEERA PANDEESWARI S (2021P41) under the guidance of Ms. J.R. SOFIA, Associate Professor, Research Center of physics, Fatima College (Autonomous), Madurai.

K. Von Fiy of EXTERNAL EXAMINER

R. VISHNU PRIYA
Assistant Professor
Research Centre & PG Dept. of Physics
The Madura College
Madural-625 011

We hereby declare that the dissertation titled "SMART GARDENING AUTOMATION", submitted to Fatima College (Autonomous), Madurai -625018 to the award of degree of Bachelor of Science in Physics is a record of original project work carried out under the supervision of MS. J.R. SOFIA, Associate Professor, Research Center of Physics, Fatima College (Autonomous), Madurai and has not submitted for any degree or diploma in Madurai Kamaraj University or any Institution.

1. SREETHI JINANI RAJ M 2021P37 M. Greethi Finani Ray

> 2.SRI DEVI U 2021P38 Sri Devi U

3.SWAATHY B 2021P39

B. Swaathy

4.THAIS J 2021P40

5. VEERA PANDEESWARI S 2021P41

PLACE: MADURAI

DATE: 27.03.2024

AUTOMATIC RAIN SENSING CAR WIPER

A dissertation submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

By

ABIRAMI. P. R (2021P42)

SOBHIYA ANBARASI. K (2021P43)

SWATHI. R (2021P44)

PADHUVA STERLIN. T (2021P45)

ABOORVA LAKSHMI. D (2021P46)

Under the guidance of

Mrs. Dr. J. SELVI

Associate Professor,

Research Center of Physics,

Fatima College (Autonomous), Madurai.



FATIMA COLLEGE (Autonomous)

Re-Accredited with A++ by NAAC (Cycle – IV)

Mary Land, Madurai- 625 018.

This is to certify that the project work 'AUTOMATIC RAIN SENSING CAR WIPER' done by ABIRAMI. P.R (2021P42), SOBHIYA ANBARASI. K (2021P43), SWATHI. R (2021P44), PADHUVA STERLIN.T (2021P45), ABOORVA LAKSHMI. D(2021P46) under the guidance of Mrs. Dr. J. SELVI. M.Sc., M.Phil. ,PhD, Associate Professor, Research Center of physics, Fatima College(Autonomous), Madurai.

R. Dur frigat EXTERNAL EXAMINER

Dr. R. VISHNU PRIYA
Assistant Professor
Research Centre & PG Dept. of Physics

The Madura College Madurai-625 011 Dr.J.Selvi,

GUIDE

A She a Use is HEAD OF THE DEPARTMENT

We hereby declare that the dissertation titled "AUTOMATIC RAIN SENSING CAR WIPER", submitted to Fatima College (Autonomous), Madurai -625018 to the award of degree of Bachelor of Science in Physics is a record of original project work carried out under the supervision of Mrs. Dr. J. SELVI .M.Sc., M.Phil., PhD, Associate Professor, Research Center of Physics, Fatima College (Autonomous), Madurai and has not submitted for any degree or diploma in Madurai Kamaraj University or any Institution.

12. R. Abinam ABIRAMI .P. R 2021P42

K. c. Sobhiya Windarasi. SOBHIYA ANBARASI. K 2021P43

> Rouathi SWATHI .R 2021P44

T. Padhyva Sterlin PADHUVA STERLIN. T 2021P45

D. Aborna lakshin.

ABOORVA LAKSHMI. D 2021P46

PLACE: MADURAI

DATE: 27/03/2024

LPG GAS DETECTION WITH ALERTING SYSTEM

A dissertation submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

 $\mathbf{B}\mathbf{y}$

AARTHI .T (2021P01)
ABINAYASRI .U(2021P02)
ABIRAMI .M(2021P03)
ANUJA .S (2021PO4)
KAVIYA .M (2021P47)

Under the guidance of

Dr. L. Caroline Sugirtham,

Associate Professor,

Research Center of Physics,

Fatima College (Autonomous), Madurai.



FATIMA COLLEGE (Autonomous)
Re-Accredited with A++ by NAAC (Cycle – IV)
Mary Land, Madurai - 625 018.

This is to certify that the project work 'LPG GAS DETECTION WITH ALERTING SYSTEM' done by AARTHI .T (2021P01), ABINAYA SRI.U (2021P02), ABIRAMI .M(2021P03), ANUJA .S (202IPO4), KAVIYA. M (2021P47) under the guidance of Dr. L. Caroline Sugirtham , Associate Professor, Research Center of physics, Fatima College(Autonomous), Madurai.

R. Som Liyar EXTERNAL EXAMINER

GUIDE

Assistant Professor
Research Centre & PG Dept. of Physics
Madura College
Medural-625 011

Magnetic Physics
Medural-625 011

We hereby declare that the dissertation titled "LPG GAS DETECTION WITH ALERTING SYSTEM", submitted to Fatima College (Autonomous), Madurai - 625018 to the award of degree of Bachelor of Science in Physics is a record of original project work carried out under the supervision of Dr. L. Caroline Sugirtham, Associate Professor, Research Center of Physics, Fatima College (Autonomous), Madurai and has not submitted for any degree or diploma in Madurai Kamaraj University or any Institution.

T. Aarthî.

AARTHI.T 2021P01

U. Abinaya Sou!
ABINAYASRI.U 2021P02

MASsame . ABIRAMI.M 2020P03

> S. Anuja ANUJA.S 2021P04

M. Kaviya KAVIYA.M 2021P47

PLACE: MADURAI

DATE: 27.03.2024

RFID MOBILE CHARGING SYSTEM

A dissertation submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS BY

- 1. Bavani. M.S 2021P06
- 2. Cynthiaa. L 2021P07
- 3. Dhana Sri. V 2021P08
- 4. Dhananee. R 2021P09
- 5. Shalini. B 2021P49

Under the guidance of

Dr. A. Sheela Vimala Rani,

Associate Professor,

Research Center of Physics,

Fatima College (Autonomous), Madurai.



FATIMA COLLEGE (Autonomous)

Re-Accredited with A++ by NAAC (Cycle-IV)

Mary Land, Madurai - 625 018.

This is to certify that the project work 'RFID MOBILE CHARGING SYSTEM' done by Bavani. M.S(2021P06), Cynthiaa. L(2021P07), Dhana Sri. V(2021P08), Dhananee.R(2021P09), Shalini.B(2021P49)under the guidance of Dr.A. Sheela Vimala Rani, Associate Professor, Research Center of Physics, Fatima College(Autonomous), Madurai.

R. Jann kiy of EXTERNAL EXAMINER A. She Uha d

Dr. R. VISHNU PRIYA
Assistant Professor

Research Centre & PG Dept. of Physics

The A in College

A. She D. VIO B HEAD OF THE DEPARTMENT

We hereby declare that the dissertation titled "RFID MOBILE CHARGING SYSTEM", submitted to Fatima College (Autonomous), Madurai -625018 to the award of degree of Bachelor of Science in Physics is a record of original project work carried out under the supervision of Dr. A. Sheela Vimala Rani, Associate Professor Research Center of Physics, Fatima College (Autonomous), Madurai and has not submitted for any degree or diploma in Madurai Kamaraj University or any Institution.

M.S. Bavay.

Bavani. M.S 2021P06

f. Cynthiag .
Cynthiaa . 2021P07

V. Dhana Sri

Dhana Sri. V 2021P08

P. Dhananef.
Dhananee. R 2021P09

Shalini.B

Shalini.B 2021P49

PLACE: MADURAI

DATE:27.03.2024

VIBRATION MONITORING SYSYTEM

A dissertation submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

By

1.Dharshini. V [2021P10]

2.Esakkiyammal. K [2021P11]

3. Jasmine sahay oviya .S [2021P12]

4.Jerlin. E [2021P14]

Under guidance of

Dr.A. Sheela Vimala Rani

Associate Professor and Head

Research Center of Physics

Fatima College (Autonomous), Madurai.



FATIMA COLLEGE (Autonomous)
Re-Accredited with A++ by NAAC (Cycle – IV)
Mary Land, Madurai - 625 018.

This is to certify that the project work VIBRATION MONITORING SYSTEM' done by Dharshini. V [2021P10], Esakkiyammal. K[2021P11], Jasmine sahay oviya. S [2021P12] ,Jerlin. E [2021P14] under the guidance of Dr.A. Sheela Vimala Rani Associate Professor and Head, Research Center of Physics, Fatima College(Autonomous), Madurai.

R. Bru figgt

EXTERNAL EXAMINER

Dr. R. VISHNU PRIVA

Assistant Professor

Research Centre & PG Dept. of Physics

The Madura College

Madural-625 011

A. She a Usin

We hereby declare that the dissertation titled "VIBRATION MONITORING SYSTEM", submitted to Fatima College (Autonomous), Madurai -625018 to the award of degree of Bachelor of Science in Physics is a record of original project work carried out under the supervision of DR.A. Sheela Vimala Rani (HOD), Associate Professor, Research Center of Physics, Fatima College (Autonomous), Madurai and has not submitted for any degree or diploma in Madurai Kamaraj University or any Institution.

V. Dhayshini Dharshini. V 2021P10

K. Esakkeyonmal

Esakkiyammal. K 2021P11

Jasmine sahay oviya. S 2021P12

E·Terlin Jerlin. E 2021P14

PLACE: MADURAI

DATE: 27/03/2024

TEMPERATURE AND HUMIDITY MONITORING

A dissertation submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

By

- 1. C.JOYLIN DHARSHINI 2021P15
- 2. S.KAREN BEAULAH ROSE 2021P18
- 3. R.KARISHMA BHARGAVI 2021P19
- 4. K.KEERTHANA 2021P20

Under the guidance of Dr.I. JEYA SHEELA Associate Professor,

Research Center of Physics,
Fatima College (Autonomous), Madurai.



FATIMA COLLEGE (Autonomous)
Re-Accredited with A++ by NAAC (Cycle – IV)
Mary Land, Madurai - 625 018.

This is to certify that the project work "TEMPERATURE AND HUMIDITY MONITORING" done by C. JOYLIN DHARSHINI (2021P15), S. KAREN BEAULAH ROSE (2021P18), R. KARISHMA BHARGAVI (2021P19), K. KEERTHANA (2021P20) under the guidance of Dr. I. JEYA SHEELA, Associate Professor, Research Center of physics, Fatima College (Autonomous), Madurai.

R. Shu fing EXTERNAL EXAMINER

9.8, 8/-124 GUIDE

Assistant Professor
Research Centre & PG Dept. of Physics
The Madura College
Madurai-625 011

We hereby declare that the dissertation titled "TEMPERATURE AND HUMIDITY MONITORING", submitted to Fatima College (Autonomous), Madurai -625018 to the award of degree of Bachelor of Science in Physics is a record of original project work carried out under the supervision of Dr.I.JEYA SHEELA, Associate professor, Research Center of Physics, Fatima College (Autonomous), Madurai and has not submitted for any degree or diploma in Madurai Kamaraj University or any Institution.

C. Joylis Sharshini

C.JOYLIN DHARSHINI 2021P15
S.KAREN BEAULAH ROSE 2021P18

R.KARISHMA BHARGAVI 2021P19

k. Keenthouna

K KEERTHANA 2021P20

PLACE: MADURAI

DATE: 27.03.2024