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Institution included u/s 2(f) and 12(B) of UGC

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Ariyakulam, Tirunelveli Thoothukudi –High Road, Maharaja Nagar Post,
Tirunelveli- 627 011.



SCIENCE UG PROJECT

2022-2023

A STUDY ON CORDIAL LABELING IN GRAPHS

A Project work report submitted to the

Department of Mathematics

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS



Submitted by November 2022 by

T. SUJITHA DELVIKA - 2020UMA31

Under the Guidance of

Selvi. A. Shunmugapriya, M.Sc., M.Phil., DGT.,

Assistant Professor, Department of Mathematics

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Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI – 627 011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this Project work titled “A STUDY ON CORDIAL LABELING IN GRAPHS” is a bonafide work of T. Sujitha Delvika of Final year B.Sc., Mathematics, Sri Sarada College for Women(Autonomous), Tirunelveli – 627 011 in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS during the academic year 2022-2023.



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HEAD, DEPARTMENT OF MATHEMATICS
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INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

I do hereby declare that this project work titled “A STUDY ON CORDIAL LABELING IN GRAPHS” was carried out by own work.



T. Sujitha Delvika.
T. SUJITHA DELVIKA


Signature of the Internal Guide

A GRAPH IN SWITCHING AND CODING THEORY

A Project work report submitted to the

Department of mathematics

In partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS



Submitted in December 2022 by

M.GANGA -2020UMA07

R.PAVITHRA -2020UMA20

M.SUNDARI -2020UMA32

Under the Guidance of

Smt. T. VENNIMALAI, M.Sc., M.Phil., B.Ed., SET., DGT.,

Assistant Professor, Department of Mathematics

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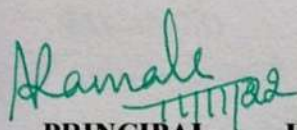
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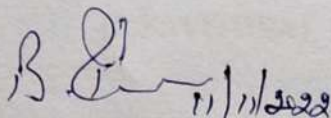
CERTIFICATE

This is to certify that this project work titled '**A GRAPH IN SWITCHING AND CODING THEORY**' is a bonafide work of M.GANGA, R.PAVITHRA and M.SUNDARI of Final B.Sc., Mathematics, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN MATHEMATICS** during the academic year 2022-23.



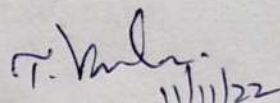
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(AUTONOMOUS)
TIRUNELVELI-627 011.



INTERNALGUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled “**A GRAPH IN SWITCHING AND CODING THEORY**” was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is our original work.



M. Ganga
(M.GANGA)



R. Pavithra
(R.PAVITHRA)



M. Sundari
(M.SUNDARI)

T. Valu 11/11/22

Signature of the Internal Guide

A STUDY ON COMBINATORIAL DESIGN

A Project work report submitted to the

Department of Mathematics

in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS



Submitted in November 2022 by

V.VIBITHA - 2020UMA34

Under the Guidance of

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Assistant Professor, Department of Mathematics

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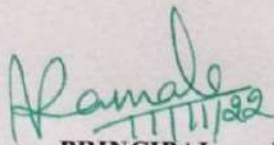
(A Branch of Sri Ramakrishnan Tapovanam, Tirupparaithurai)

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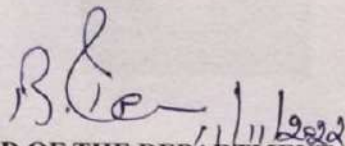
TIRUNELVELI – 627 011, Tamilnadu India.

CERTIFICATE

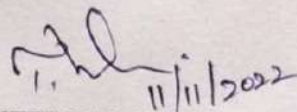
This is to certify that this project work titled "**A STUDY ON COMBINATORIAL DESIGN**" is a bonafide work of V.Vibitha Final year B.Sc., Mathematics Sri Sarada College for women (Autonomous) Tirunelveli – 627 011 in partial fulfillment of the requirement for the award of degree of **BACHELOR OF SCIENCE IN MATHEMATICS** during the academic year 2020 – 2023.



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TIRUNELVELI-627 011.



INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

I do hereby declare that this project work titled "**A STUDY ON COMBINATORIAL DESIGN**" was carried out by me for the award of the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is my original work.



Vibitha.V
(V.VIBITHA)

T. V. V. 11/11/2022
Signature of the Internal Guide

A STUDY ON APPLICATIONS OF ALGEBRA IN VARIOUS FIELDS

A Project work report submitted to the

Department of Mathematics

In partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS



Submitted in November 2022 by

B.SANTHA LAKSHMI - 2020UMA24

Under the guidance of

Dr. (Smt). K. Ramalakshmi, M.Sc., M.Phil., Ph.D.,

Assistant Professor, Department of Mathematics

SRI SARADA COLLEGE FOR WOMEN

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(Affiliated to Manonmanium Sundaranar University, Tirunelveli-627011)

(Institution recognized u/s 2(f) and 12(B) of UGC & Re-accredited with 'A' Grade by NAAC)

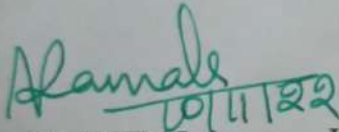
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Ariyakulam, Maharaja Nagar Post, Thoothukudi NH

TIRUNELVELI-627011, TAMILNADU, INDIA

CERTIFICATE

This is to certify that the project work titled "A STUDY ON APPLICATIONS OF ALGEBRA IN VARIOUS FIELDS" is a bonafide work of B.SANTHA LAKSHMI of final year B.Sc., Mathematics, Sri Sarada College for Women, (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS during the academic year 2022-2023.


10/11/22

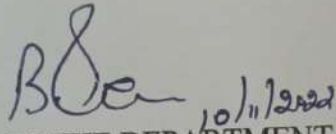
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10/11/2022

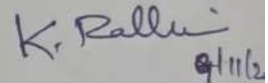
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9/11/22

INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

I do hereby declare that this project work titled "**A STUDY ON APPLICATIONS OF ALGEBRA IN VARIOUS FIELDS**" was carried out by me for the award of the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is my original work.



B. Santha lakshmi

B.SANTHA LAKSHMI

K. Balu
9/11/2022

Signature of the Internal Guide

A STUDY ON VEDIC MATHEMATICS

A Project work report submitted to the

Department of Mathematics

In partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS



Submitted in November 2022 by

S.DHANALAKSHMI - **2020UMA04**

G.JAYAVANISHREE - **2020UMA12**

P.KALPANA - **2020UMA13**

B.MUTHU SUGUNA - **2020UMA19**

Under the guidance of

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Assistant Professor, Department of Mathematics

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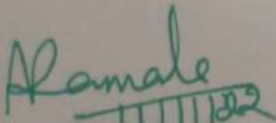
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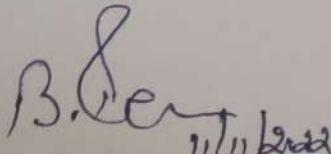
TIRUNELVELI-627 011, TAMIL NADU, INDIA.

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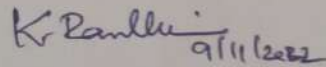
This is to certify that this project work titled "A STUDY ON VEDIC MATHEMATICS" is a bonafide work of S.Dhanalakshmi, G.Jayavanishree, P.Kalpana and B.Muthu Suguna of final year B.Sc Mathematics Sri Sarada College for Women (Autonomous) Tirunelveli-627 011 in partial fulfilment of the requirement for the award of degree of **BACHELOR OF SCIENCE IN MATHEMATICS** during the academic year 2022 -23.



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EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled **“A STUDY ON VEDIC MATHEMATICS”** was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is our original work.



S. Dhanalakshmi
(S.DHANALAKSHMI)



G. Jayavanishree
(G.JAYAVANISHREE)



P. Kalpana
(P.KALPANA)



B. Muthusuguna
(B.MUTHUSUGUNA)

K. Renu 9/11/2022
Signature of the Internal Guide

A STUDY ON SOFT SETS

A project work report submitted to the

Department of Mathematics

In partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS



Submitted in November 2022 by

A.PON MEERA - 2020UMA21

Under the guidance of

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Assistant Professor and Head, Department of Mathematics

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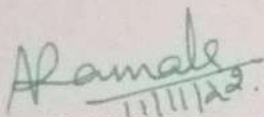
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Ariyakulam, Maharaja Nagar Post, Thoothukudi NH

TIRUNELVELI-627 011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that the project work titled "A STUDY ON SOFT SETS" is a bonafide work of A. PON MEERA of final year B.Sc., Mathematics, Sri Sarada college for women(Autonomous), Tirunelveli – 627 011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN MATHEMATICS** during the academic year 2022 - 23.



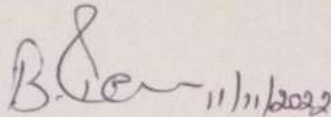
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(Autonomous)

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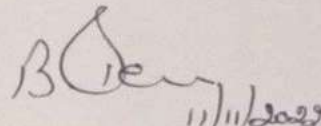
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INTERNAL GUIDE

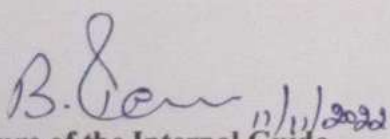
EXTERNAL EXAMINER

DECLARATION

I do hereby declare that this project work titled "**A STUDY ON SOFT SETS**" was carried out by me for the award of the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is my original work.



A. Pon Meera.
(A. PON MEERA)


Signature of the Internal Guide

A STUDY ON PRIME LABELING OF VARIOUS GRAPHS

A Project work report submitted to the

Department of Mathematics

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS



Submitted in November 2022 by

S.V. MATHUMITHRA - 2020UMA18

Under the guidance of

Dr. (Smt.) P. SIVA ANANTHI M.Sc., M.Phil., Ph.D.

Assistant Professor, Department of Mathematics

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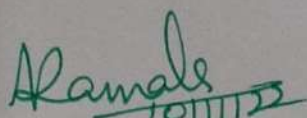
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TIRUNELVELI – 627 011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this project work titled '**A STUDY ON PRIME LABELING OF VARIOUS GRAPHS**' is bonafide work of S.V. MATHUMITHRA of final year B.Sc., Mathematics, Sri Sarada College for Women (Autonomous), Tirunelveli – 627 011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN MATHEMATICS** during the academic year 2022 – 23

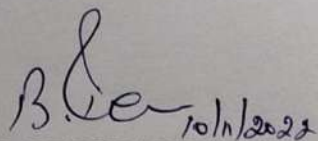


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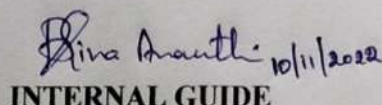
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HEAD, DEPARTMENT OF MATHEMATICS

SRI SARADA COLLEGE FOR WOMEN

(AUTONOMOUS)

TIRUNELVELI-627 011.



INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

I do hereby declare that this project work titled “**A STUDY ON PRIME LABELING OF VARIOUS GRAPHS**” was carried out by me for the award of the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is my original work.



S.V. Mathumithra
S.V. MATHUMITHRA

Siva Ananth 10/11/2022

Signature of the Internal Guide

A STUDY ON SKEW LATTICES

A project work report submitted to the

Department of Mathematics

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS



Submitted in November 2022 by

S.BALA KAVI KIRUTHIKA – 2020UMA02

R.DHANALAKSHMI – 2020UMA03

V.GOKULA PRIYA – 2020UMA08

Under the guidance of

Smt.B.Revathy, M.Sc., M.Phil., PGDCA, DGT

Assistant Professor and Head, Department of Mathematics

SRI SARADA COLLEGE FOR WOMEN

(An Autonomous Institution)

(Affiliated Manonmaniam Sundaranar University, Tirunelveli – 627 011)

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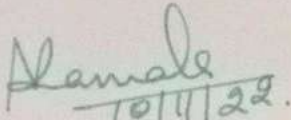
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TIRUNELVELI-627 011, TAMIL NADU, INDIA.

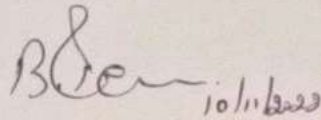
CERTIFICATE

This is to certify that this project work titled “**A STUDY ON SKEW LATTICES**” is a bonafide work of S.BALA KAVI KIRUTHIKA, R.DHANALAKSHMI, V.GOKULA PRIYA of final year B.Sc., Mathematics, Sri Sarada college for women(Autonomous), Tirunelveli – 627 011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN MATHEMATICS** during the academic year 2022 – 23.



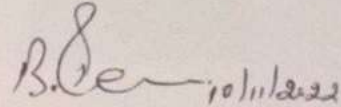
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SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011.



INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled “A STUDY ON SKEW LATTICES” was carried out by all of us the award of the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is our original work.



S. Balakavir Kiruthika.
(S.BALA KAVI KIRUTHIKA)



R. Dhanalakshmi.
(R.DHANALAKSHMI)



V. Gokulapriya
(V.GOKULA PRIYA)

A handwritten signature in black ink.

Signature of the Internal guide

**A STUDY ON ENERGY GENERATION TECHNOLOGY BASED
ON DYE SENSITIZED SOLAR CELL**

A project work report submitted to the

Department of physics

In a partial fulfillment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted in December 2022



R.ABINAYA - 2020UPH01

G. ANANTHI - 2020UPH2

P.DEEPA - 2020UPH03

K. GOPIKA - 2020UPH04

Under the Guidance of

Dr. S. MUTHU RANI, M.Sc.,M.Phil.,P.hD.

Assistant Professor, Department of physics

SRI SARADA COLLEGE FOR WOMEN

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(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

Institution recognized u/s 2(f) and 12(B) of UGC & Re- accredited with "A" Grade by NAAC

(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI-627 011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this project work titled “A STUDY ON ENERGY GENERATION TECHNOLOGY BASED ON DYE SENSITIZED SOLAR CELL ” is a bonafied work of R.ABINAYA , G.ANANTHI , P.DEEPA , K.GOPIKA of final B.Sc., Physics, Sri SaradaCollege for Women (Autonomous), Tirunelveli-627011 in partial fulfilmentof the requirements for the award of degree of BACHELOR OF SCIENCE IN PHYSICS during the academic year 2022 - 23.


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SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011,


INTERNAL
11/11/22

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled "A STUDY ON ENERGY GENERATION TECHNOLOGY BASED ON DYE SENSITIZED SOLAR CELL" was carried out by all of us jointly for the award of the degree of BACHELOR OF SCIENCE PHYSICS is our original work.



R.ABINAYA
R. Abinaya



G.ANANTHI
G. Ananthi.



P.DEEPA
P. Deepa



K.GOPIKA
K. Gopika


11/11/22

Signature of the internal guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N.Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support. With deep sense of respect, we profusely thank Smt. S. Magara Jothi Lakshmi M.Sc., M.Phil., (Ph.D) Head, Department of physics for her constant encouragement. We all submit our honest and humble reverence to our guide. Dr. S. MUTHU RANI, M.Sc., M.Phil., P.hD. For her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully. We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents, siblings at home, our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

DESIGN AND MECHANISM OF RIVER CLEANING MACHINE

A project work report submitted to the
Department of Physics
in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN PHYSICS



Submitted in November 2022 by

S. HARITHA-2020UPH06

M. KAWSALYA-2020UPH09

Under the Guidance of

Dr.(Smt.) N. BOOMA DEVI, M.Sc., MPhil., Ph.D.

Assistant Professor, Department of Physics

SRI SARADA COLLEGE FOR WOMEN

(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

Institution recognized u/s 2(f) and 12(B) of UGC & Re- accredited with 'A' Grade by NAAC

(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI- 627 011,

TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this project work titled "A DESIGN AND MECHANISM OF RIVER CLEANING MACHINE" is a bonafide work of S.HARITHA and M.KAWSALYA of Final B.Sc., Physics, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN PHYSICS** during the academic year 2022 – 23.

Ramale
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S. Megan Jothi Lakshmi
19/11/22
HEAD OF THE DEPARTMENT
HEAD, DEPARTMENT OF PHYSICS
SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 012

N. Boonadevi
INTERNAL
GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled "**DESIGN AND MECHANISM OF RIVER CLEANING MACHINE**" was carried out for the award of the degree of **BACHELOR OF SCIENCE IN PHYSICS** is our original work.



S. Haritha
(S. HARITHA)



M. Kawsalya
(M. KAWSALYA)

N. Boomadevi
Signature of the Internal Guide

ACKNOWLEDGEMENT

We thank God Almighty for his abundant grace which have let us to finish our project work successfully. We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N. Kamala, M.Com., M. Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, We profusely thank Smt. S. Magara Jothi Lakshmi, M.Sc., M. Phil., Head, Department of Physics for her constant encouragement.

We submit our honest and humble reverence to our guide Dr. N. Booma Devi, M.Sc., M.Phil., Ph.D., for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

AUTOMATIC SUNLIGHT DETECTING SUNFLOWER BASED SOLAR TRACKER

A project work report submitted to the
Department of Physics
in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN PHYSICS



Submitted in November 2022 by

E. INDIRA-2020UPH07

P.S. JANANI-2020UPH08

Under the Guidance of

Dr. N. BOOMA DEVI, M.Sc., M.Phil., Ph.D.

Assistant Professor, Department of Physics

SRI SARADA COLLEGE FOR WOMEN

(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

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(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI- 627 011,

TAMIL NADU, INDIA.

CERTIFICATE

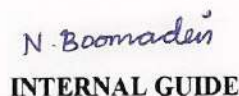
This is to certify that this project work titled is "AUTOMATIC SUNLIGHT DETECTING SUNFLOWER BASED SOLAR TRACKER" is a bonafide work of E.INDIRA and P.S.JANANI of Final B.Sc., Physics, Sri Sarada College for Women (Autonomous), Tirunelveli- 627011 in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN PHYSICS** during the academic year 2022-23.


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HEAD OF THE DEPARTMENT

HEAD, DEPARTMENT OF PHYSICS
SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011.


INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled “**AUTOMATIC
SUNLIGHT DETECTING SUNFLOWER BASED SOLAR
TRACKER**” was carried out for the award of the degree of **BACHELOR
OF SCIENCE IN PHYSICS** is our original work.



E. Indira
(E.INDIRA)



P.S. Janani
(P.S.JANANI)

N. Boornadevi

Signature of the Internal Guide

ACKNOWLEDGEMENT

We thank God Almighty for his abundant grace which have let us to finish our project work successfully. We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N.Kamala, M.Com.M.Phil. NET.,PGDCA.,Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt. S.Magara Jothi Lakshmi, M.Sc., M.Phil. Head, Department of Physics for her constant encouragement.

We submit our honest and humble reverence to our guide Dr.N.Booma Devi for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

DESIGN OF OBSTACLE DETECTOR USING INFRARED SENSOR

A project work report submitted to the
Department of Physics
in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN PHYSICS



Submitted on November 2022 by

S.KIRUTHIKA - 2020UPH10

M.J. LAKSHMI KEERTHIKA - 2020UPH12

Under the Guidance of

Dr.E.S. SOWBAKKIYAVATHI., M.Sc.,Ph.D.,

Assistant Professor, Department of Physics

SRI SARADA COLLEGE FOR WOMEN

(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

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(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

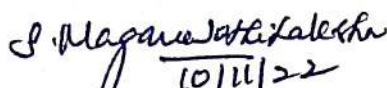
TIRUNELVELI- 627 011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this project work titled '**DESIGN OF OBSTACLE DETECTOR USING INFRARED SENSOR**' is a bonafide work of S. Kiruthika and M.J. Lakshmi Keerthika of Final year B.Sc., Physics, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN PHYSICS** during the academic year 2022 - 23.



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HEAD, DEPARTMENT OF PHYSICS
SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011.



INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled “**DESIGN OF OBSTACLE DETECTOR USING INFRARED SENSOR**” was carried out for the award of the degree of **BACHELOR OF SCIENCE IN PHYSICS** is our original work.



(S. Kiruthika)

S. Kiruthika



(M.J. Lakshmi Keerthika)

M.J. lakshmi

Signature of the Internal Guide

DESIGN OF MINI TESLA COIL

A project work report submitted to the
Department of Physics
in partial fulfilment of the requirements for the
award of the degree of
BACHELOR OF SCIENCE IN PHYSICS



Submitted on November 2022 by

H. Krishna Veni - 2020UPH11

M. Maharasi - 2020UPH14

Under the Guidance of

Dr. E.S. SOWBAKKIYAVATHI., M.Sc., Ph.D.,

Assistant Professor, Department of Physics
SRI SARADA COLLEGE FOR WOMEN
(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

Institution recognized u/s 2(f) and 12(B) of UGC & Re- accredited
with 'A' Grade by NAAC

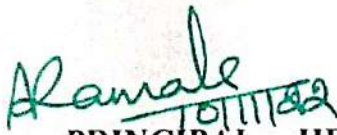
(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI- 627 011, TAMILNADU, INDIA.

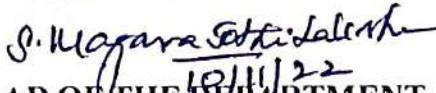
CERTIFICATE

This is to certify that this project work titled '**DESIGN OF MINI TESLA COIL**' a bonafide work of H. Krishnaveni, M. Maharasi of Final year B.Sc., Physics, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN PHYSICS** during the academic year 2022-2023.


10/11/22

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10/11/22

HEAD OF THE DEPARTMENT

HEAD, DEPARTMENT OF PHYSICS
SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011.


10/11/22

INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled “**DESIGN OF MINI TESLA COIL**” was carried out for the award of the degree of **BACHELOR OF PHYSICS** is my original work.



(H. KRISHNA VENI)

H. Krishna Veni



(M. MAHARASI)

M. Maharasi

[Signature]
10/11/22

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N. Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, We profusely thank (Smt). S. Magara Jothi Lakshmi, M.Sc., M.Phil., Assistant Professor and Head Department of Physics for her constant encouragement.

We submit our honest and humble reverence to our guide Dr.E.S. Sowbakkiyavathi M.Sc., Ph.D., for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled me to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, my beloved parents and siblings at home and my classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

DESIGN OF SOLAR GRASS CUTTER: A SOLUTION FOR SUSTAINABLE DEVELOPMENT

A project work report submitted to the
Department of Physics
in partial fulfillment of the requirement for the award of the degree of
BACHELOR OF SCIENCE IN PHYSICS



Submitted in November 2022 by

N.PREETHI - 2020UPH18


S.MANISHA - 2020UPH15

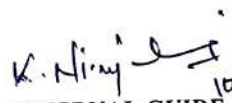
Under the Guidance of
K. Niranjana Devi, M.Sc., M.Phil., DGT.,
Assistant Professor, Department of Physics
SRI SARADA COLLEGE FOR WOMEN
(An Autonomous Institution)
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)
Institution recognized u/s 2(f) and 12(B) of UGC & Re-accredited with 'A' Grade by NAAC
(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)
Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,
TIRUNELVELI-627011, TAMILNADU, INDIA.

CERTIFICATE

This is certify that this project work titled "DESIGN OF SOLAR GRASS CUTTER: A SOLUTION FOR SUSTAIABLE DEVELOPMENT" is a confide of N.PREETHI AND S.MANISHA of Final B.Sc., physics, Sri Sarada College For Women (Autonomous), Tirunelveli-627011 in partial fulfillment of the requirement for the award degree of BACHELOR OF SCIENCE IN PHYSICS during the academic year 2022-2023.


10/11/22
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SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011.


10/11/2022
INTERNAL GUIDE
(K.NIRANJANA DEVI)

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled “**DESIGN OF SOLAR GRASS CUTTER: A SOLUTION FOR SUSTAIABLE DEVELOPMENT**” was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN PHYSICS** in our original work.



N. Preethi

(N. PREETHI)



S. Manisha

(S.MANISHA)

K. Niranjana Devi
10/11/2020
Signature of the Internal Guide

(K. NIRANJANA DEVI)

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessing. We wish to our respect to our Principal Dr,(smt) N. Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank S. Magara Jothi Lakshmi, M.sc., M.Phil., Head, Department of physics for her constant encouragement.

We all submit our honest and humble reverence to our guide. K.Niranjana Devi, M.Sc., M.Phil., DGT., For her consistent review, constructive suggestion and critical interpretation throughout the work which enable us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parent's and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

DESIGN OF PIEZOELECTRIC SHOE FOR ENERGY HARVESTING

A project work report submitted to the

Department of Physics

in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS



Submitted in November 2022 by

S. MUTHURAMALAKSHMI - 2020UPH17

T.MEERA - 2020UPH16

Under the Guidance of

K. Niranjana Devi, M.Sc., M.Phil., DGT.,

Assistant Professor, Department of Physics

SRI SARADA COLLEGE FOR WOMEN

(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

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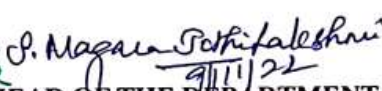

(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH.

Tirunelveli-627 011, Tamil Nadu, India.

CERTIFICATE

This is to certify that this project work titled "DESIGN OF PIEZOELECTRIC SHOE FOR ENERGY HARVESTING" is a confident work of S.MUTHURAMALAKSHMI and T.MEERA of Final B.Sc. Physics, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE IN PHYSICS during the academic year 2022-2023.

 9/11/22 PRINCIPAL PRINCIPAL SRI SARADA COLLEGE FOR WOMEN (Autonomous) TIRUNELVELI - 627 011	 9/11/22 HEAD OF THE DEPARTMENT HEAD, DEPARTMENT OF PHYSICS SRI SARADA COLLEGE FOR WOMEN (AUTONOMOUS) TIRUNELVELI-627 011.	 9/11/22 INTERNAL GUIDE (K. NIRANJANA DEVI)
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EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled “**DESIGN OF PIEZOELECTRIC SHOE FOR ENERGY HARVESTING**” was carried out for the award of the degree of **BACHELOR OF SCIENCE IN PHYSICS** is our original work.



S. Muthuramalakshmi
(S.MUTHURAMALAKSHMI)



T. Meera
(T.MEERA)

K. Niranjana Devi
Signature of the Internal Guide
(K. NIRANJANA DEVI)

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N.Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

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We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

AUTOMATED PLANT WATERING SYSTEM USING SOIL MOISTURE SENSOR

A project work report submitted to the
Department of Physics
in partial fulfillment of the requirement for the award of the degree of
BACHELOR OF SCIENCE IN PHYSICS



Submitted in November 2022 by

K. RAMALAKSHMI – 2020UPH20

A. SARANAPRIYA – 2020UPH21


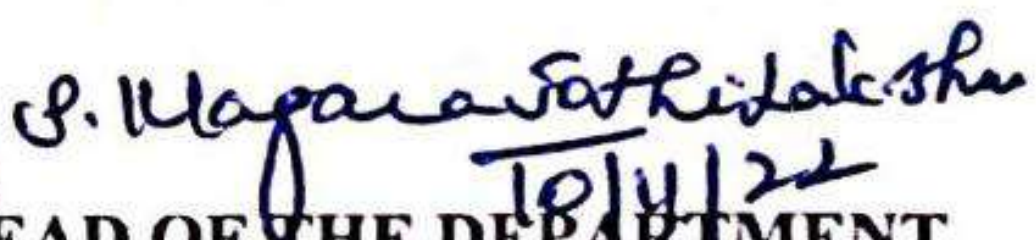

M. SARUMATHI – 2020UPH22

E. SEETHALAKSHMI – 2020UPH23

Under the Guidance of
S. MAGARA JOTHI LAKSHMI M.Sc., M.Phil.,
Assistant Professor & Head of the Department of Physics
SRI SARADA COLLEGE FOR WOMEN
(An Autonomous Institution)
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)
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Ariyakulam, Maharaja Nagar Post, Thoothukudi-NH,
TIRUNELVELI-627011, TAMILNADU, INDIA.

CERTIFICATE

This is to certify that this project work titled , "AUTOMATED PLANT WATERING SYSTEM USING SOIL MOISTURE SENSOR " is a bonafide work of K.RAMALAKSHMI, A.SARANAPRIYA, M.SARUMATHI AND E.SEETHA LAKSHMI of Final B.Sc., Physics, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN PHYSICS** during the academic year 2022-2023.

 PRINCIPAL PRINCIPAL SRI SARADA COLLEGE FOR WOMEN (Autonomous) TIRUNELVELI - 627 011	 HEAD OF THE DEPARTMENT HEAD, DEPARTMENT OF PHYSICS SRI SARADA COLLEGE FOR WOMEN (AUTONOMOUS) TIRUNELVELI-627 011.	 INTERNAL GUIDE
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EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled "AUTOMATED PLANT WATERING SYSTEM USING SOIL MOISTURE SENSOR" was carried out for the award of the degree of BACHELOR OF SCIENCE IN PHYSICS is our original work.



K. Ramalakshmi -
(K.RAMALAKSHMI)



A. Saranapriya ..
(A.SARANAPRIYA)



M. Sarumathi .
(M.SARUMATHI)



E. Seethalakshmi .
(E.SEETHALAKSHMI)

S. Nagaraj Lakshmi
10/11/22
Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N. Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank (Smt) S. Magara Jothi Lakshmi M.Sc., M.Phil. Head, Department of Physics for her constant encouragement.

We all submit our honest and humble reverence to our guide(Smt) S. Magara Jothi Lakshmi M.Sc., M.Phil., Head, Department of Physics . For her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

GROWTH AND CHARACTERIZATION OF NONLINEAR OPTICAL AMINO ACID SINGLE CRYSTAL: L-ALANINE

A project work report submitted to the
Department of Physics
in partial fulfillment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN PHYSICS



Submitted in November 2022 by

M.SEETHALAKSHMI-2020UPH24
S.SHUNMUGA PRIYA-2020UPH25
N.SRIMIRA-2020UPH26
M.SUBHASHRI-2020UPH27

Under the Guidance of
Dr. S. Bagavathi, M.Sc., M.Phil., Ph.D.

Assistant Professor, Department of Physics
SRI SARADA COLLEGE FOR WOMEN
(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627011)
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Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,
TIRUNELVELI-627 011, TAMIL NADU, INDIA.

CERTIFICATE

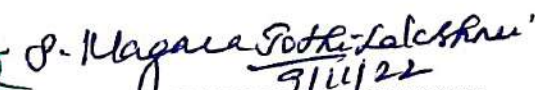
This is to certify that this project work titled 'GROWTH AND CHARACTERIZATION OF NONLINEAR OPTICAL AMINO ACID SINGLE CRYSTAL: L-ALANINE' is a bonafied work of M.SEETHALAKSHMI, S.SHUNMUGA PRIYA, N.SRIMIRA and M.SUBHASHRI of Final Year B.Sc., Physics, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN PHYSICS** during the academic year 2022 - 23.


9/11/22

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SRI SARADA COLLEGE FOR WOMEN
(Autonomous)
TIRUNELVELI - 627 011


9/11/22

HEAD OF THE DEPARTMENT

HEAD, DEPARTMENT OF PHYSICS

SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011.


9/11/2022

INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We hereby declared that this project work titled 'GROWTH AND CHARACTERIZATION OF NONLINEAR OPTICAL AMINO ACID SINGLE CRYSTAL: L-ALANINE' was carried out for the award of the degree of BACHELOR OF SCIENCE IN PHYSICS is our original work.



M. Seethalakshmi
(M.SEETHALAKSHMI)



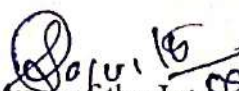
S. Shunmuga Priya
(S.SHUNMUGA PRIYA)



N. Srimitra
(N.SRIMIRA)



M. Subhashri
(M.SUBHASHRI)


Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N.Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

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We are extremely grateful to our guide Dr. S. Bagavathi, M.sc., M.Phil., Ph.D., for her consistent review, constructive suggestion and critical interpretation through the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, beloved parents, our classmates and friends who have rendered their help and time directly and indirectly.

LIGHT FOLLOWER ROBOT

A project work report submitted to the
Department of Physics
in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN PHYSICS



Submitted in November 2022 by

V.SUMATHI - 2020UPH28

G.SUMITHRA - 2020UPH29

S.K.VINITHA - 2020UPH30

Under the Guidance of

Dr. P.GOMATHY, M.Sc., M.Phil., Ph.D.,

Assistant Professor, Department of Physics

SRI SARADA COLLEGE FOR WOMEN

(An Autonomous Institution)

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Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI- 627 011, TAMIL NADU, INDIA

CERTIFICATE

This is to certify that this project work titled '**LIGHT FOLLOWER ROBOT**' is a bonafide work of **V.SUMATHI, G.SUMITHRA and S.K.VINITHA** of final year B.Sc., Physics, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN PHYSICS** during the academic year 2022-23.

 PRINCIPAL PRINCIPAL SRI SARADA COLLEGE FOR WOMEN (Autonomous) TIRUNELVELI - 627 011	 HEAD OF THE DEPARTMENT HEAD, DEPARTMENT OF PHYSICS SRI SARADA COLLEGE FOR WOMEN (AUTONOMOUS) TIRUNELVELI-627 011	 INTERNAL EXAMINEE
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EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled "**LIGHT FOLLOWER ROBOT**" carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN PHYSICS** is our original work.



V. Sumathi
(V.SUMATHI)



G. Sumithra.
(G.SUMITHRA)



S.K. Vinitha
(S.K.VINITHA)


Signature of the Internal Guide

ACKNOWLEDGEMENT

We thank God, the almighty for giving me the strength and knowledge for the successful completion of this work. We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings.

We wish to convey our respect to our Principal Dr. N.Kamala, M.Com. M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Mrs. S.Magara Jothi Lakshmi M.Sc., M.Phil. Head of the Department of Physics for her constant encouragement.

We all submit our honest and humble reverence to our guide Dr .P.Gomathy, M.Sc., M.Phil., Ph.D., for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

A STUDY ON THE ESTIMATION OF OXALATE ION CONTENT IN VARIOUS GUAVA FRUIT JUICES

A project work report submitted to the
DEPARTMENT OF CHEMISTRY
in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN CHEMISTRY



Submitted in November 2022 by

NAME	REGISTER NUMBER
S. KAVIYA	2020UCH08
P. ROOBINI	2020UCH15
A. SIVAPRIYA	2020UCH19

Under the Guidance of

V. RAJA RAJESWARI, M.Sc., M.Phil., PGDCA., DGT.,

Associate Professor & Head

Department of Chemistry

SRI SARADA COLLEGE FOR WOMEN

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(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

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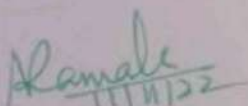
(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

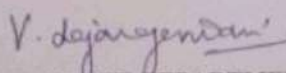
TIRUNELVELI-627 011, TAMIL NADU, INDIA.

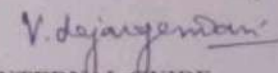
CERTIFICATE

This is to certify that this project work titled "A STUDY ON THE ESTIMATION OF OXALATE ION CONTENT IN VARIOUS GUAVA FRUIT JUICES" is a bonafide work of S.KAVIYA, P.ROOBINI, and A.SIVAPRIYA of Final B.Sc. Chemistry, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN CHEMISTRY** during the academic year 2022-2023.


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HEAD, DEPARTMENT OF CHEMISTRY
SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011.


INTERNAL GUIDE

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DECLARATION

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S. Kaviya .

(S.KAVIYA)



P. Roobini

(P.ROOBINI)



A. Siva Priya

(A.SIVAPRIYA)

V. Rajasekaran

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N.Kamala ,M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

We all submit our honest and humble reverence to our guide Smt. V. Raja Rajeswari M.Sc., M.Phil.,PGDCA., DGT., Associate professor and Head, Department of Chemistry, Sri Sarada College for Women (Autonomous), Tirunelveli for her consistent review, constructive suggestion, critical interpretation, invaluable guidance and motivation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES USING VITEX NEGUNDO LEAF EXTRACT AND ITS ANTIOXIDANT ACTIVITY

A project work report submitted to the

DEPARTMENT OF CHEMISTRY

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN CHEMISTRY



Submitted in November 2022 by

NAME	REGISTER NUMBER
S. AJITHA	2020UCH02
S.PARAMESHWARI	2020UCH12
A.SUBHAJOTHI	2020UCH20

Under the Guidance of

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(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Thoothukudi NH, Maharaja Nagar Post

TIRUNELVELI-627 011, TAMIL NADU, INDIA

CERTIFICATE

This is to certify that this project work titled **"GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES USING VITEX NEGUNDO LEAF EXTRACT AND ITS ANTIOXIDANT ACTIVITY"** is a bonafide work of S.AJITHA, S.PARAMESHWARI and A.SUBHAJOTHI of Final B.Sc., Chemistry, Sri Sarada College for Women (Autonomous), Tirunelveli-627 011 in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN CHEMISTRY** during the academic year 2022 – 2023.



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SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011.



INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled **"GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES USING VITEX NEGUNDO LEAF EXTRACT AND ITS ANTIOXIDANT ACTIVITY"** was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN CHEMISTRY** is our original work.



S. Ajitha
(S.AJITHA)



S. Parameshwari
(S.PARAMESHWARI)



A. Subhajothi
(A.SUBHA JOTHI)

V. devarajendran

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N.Kamala, M.Com., M.Phil., NET., PGDCA.,Ph.D., for ceaseless support.

We all submit our honest and humble reverence to our guide Smt. V. Raja Rajeswari, M.Sc., M.Phil., PGDCA., DGT., Associate professor and Head, Department of Chemistry, Sri Sarada College For Women (Autonomous), Tirunelveli for her consistent review constructive suggestion, critical interpretation, invaluable guidance and motivations throughout the work which enabled us to complete this project harmoniously and successfully.

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We are thankful to the director, Science Instrumentation Centre, V.O. Chidambaram College, Thoothukudi and Trichy Research Institute of Biotechnonology, Trichy for their rendered help in sample characterization and application purposes.

GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES USING VITEX NEGUNDO LEAF EXTRACT AND ITS ANTIOXIDANT ACTIVITY

A project work report submitted to the

DEPARTMENT OF CHEMISTRY

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN CHEMISTRY



Submitted in November 2022 by

NAME	REGISTER NUMBER
G. ANANTHI	2020UCH03
R. BOOMIGA	2020UCH04
P. RAMAVARTHINI	2020UCH13

Under the Guidance of

Smt, K. LAKSHMI, M.Sc., M.Phil., DGT.,

Assistant Professor

Department of Chemistry

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Ariyakulam, Thoothukudi NH, Maharaja Nagar Post

TIRUNELVELI-627 011, TAMIL NADU, INDIA

CERTIFICATE

This is to certify that this project work titled " **BIOGENIC SYNTHESIS OF NICKEL OXIDE NANOPARTICLES USING AEGLE MARMELLOS FRUIT EXTRACT AND THEIR ANTIOXIDANT ACTIVITY**" is a bonafide work of G.ANANTHI , R.BOOMIGA and P.RAMAVARTHINI of Final B.Sc. Chemistry , Sri Sarada College for Women (Autonomous) , Tirunelveli - 627011 in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE IN CHEMISTRY during the academic year 2022-2023



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SRI SARADA COLLEGE FOR WOMEN
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TIRUNELVELI-627 011.



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DECLARATION

We do hereby declare that this project work titled " **BIOGENIC SYNTHESIS OF NICKEL OXIDE NANOPARTICLES USING AEGLE MARMELLOS FRUIT EXTRACT AND THEIR ANTIOXIDANT ACTIVITY**" is was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN CHEMISTRY** is our original work .



G. Ananthi
G.ANANTHI



Boomiga R
R.BOOMIGA



P. Ramavarthini
P.RAMAVARTHINI

K. Lakshmi

Signature of Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N.Kamala, M.Com., M.Phil., NET., PGDCA.,Ph.D., for ceaseless support.

We all submit our honest and humble reverence to our guide Smt. V. Raja Rajeswari, M.Sc., M.Phil., PGDCA., DGT., Associate professor and Head, Department of Chemistry, Sri Sarada College For Women (Autonomous), Tirunelveli for her consistent review constructive suggestion, critical interpretation, invaluable guidance and motivations throughout the work which enabled us to complete this project harmoniously and successfully.

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We are thankful to the director, Science Instrumentation Centre, V.O. Chidambaram College, Thoothukudi and Trichy Research Institute of Biotechnonology, Trichy for their rendered help in sample characterization and application purposes.

PHYSICO CHEMICAL ANALYSIS OF SOIL SAMPLES FROM AMPOORNISATHANKULAM

A project work report submitted to the
DEPARTMENT OF CHEMISTRY

In partial fulfillment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN CHEMISTRY



Submitted in November 2022 by

NAME	REGISTRATION NUMBER
N. CHANDRAKALA	2020UCH05
C. SHANMUGA SUMATHI	2020UCH18
A.SUGAVINESHWARI	2020UCH22

Under the Guidance of

K. LAKSHMI, M.Sc., M.Phil., DGT.,

Assistant Professor

Department of Chemistry

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(An Autonomous Institution)


(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

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Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)
Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI-627011, INDIA.

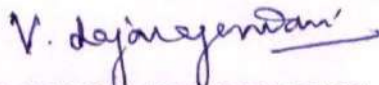
CERTIFICATE

This is to certify that this project work titled **"PHYSICO CHEMICAL ANALYSIS OF SOIL SAMPLES FROM AMPOORNISATHANKULAM"** is a bonafide work of N. CHANDRAKALA, C. SHANMUGA SUMATHI, and A. SUGAVINESHWARI of Final B.Sc., Chemistry, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN CHEMISTRY** during the academic year 2022-2023.




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SRI SARADA COLLEGE FOR WOMEN
(AUTONOMOUS)
TIRUNELVELI-627 011.



INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled **“PHYSICO CHEMICAL ANALYSIS OF SOIL SAMPLES FROM AMPOORNISATHANKULAM”** was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN CHEMISTRY** is our original work.



N. Chandrakala
(N. CHANDRAKALA)



C. Shanmuga Sumathi
(C. SHANMUGA SUMATHI)



A. Sugavineshwari
(A.SUGAVINESHWARI)

K. Lakshmi

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yathiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our principal Dr.(Smt)N. Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt. V. Raja Rajeshwari M.Sc., M.Phil., PGDCA., DGT., Head & Department of Chemistry for her constant encouragement.

We all submit our honest and humble reverence to our Smt. K. Lakshmi M.Sc., M.Phil. DGT., for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

A STUDY ON COLORIMETRIC ESTIMATION OF IRON CONTENT IN VARIOUS FOOD SAMPLES

A project work report submitted to the

DEPARTMENT OF CHEMISTRY

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN CHEMISTRY



Submitted in November 2022 by

NAME

REGISTER NUMBER

T. DIVYA KAMATCHI

2020UCH06

M.S. MADHUMITHA

2020UCH10

R. VENNILA

2020UCH25

Under the Guidance of
Smt. S. RAJESWARI M.Sc., M.Phil.,
Assistant Professor, Department of Chemistry
SRI SARADA COLLEGE FOR WOMEN

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(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

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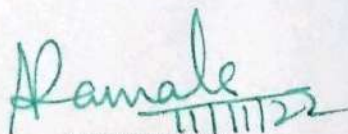
With 'A' Grade by NAAC (A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI-627011, TAMILNADU, INDIA.

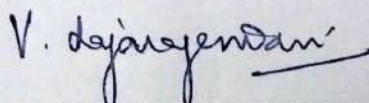
CERTIFICATE

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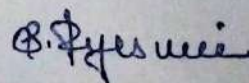
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HEAD, DEPARTMENT OF CHEMISTRY
SRI SARADA COLLEGE FOR WOMEN
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TIRUNELVELI-627 011.



INTERNAL GUIDE

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DECLARATION

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T. Divya Kamatchi.
T. DIVYA KAMATCHI



M.S. Madhumitha
M.S. MADHUMITHA



R. Vennila
R. VENNILA

A handwritten signature in black ink, appearing to read 'B. P. S. S. S. S.'.

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswasi Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N. Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep of respect, we profusely thank Smt. V. Raja Rajeswari, M.Sc., M.Phil., PGDCA., DGT., Associate professor and Head, Department of Chemistry for her constant encouragement.

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We further acknowledge the inquisitive interaction of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

A STUDY ON THE DETECTION OF ADULTERANTS IN CHILLI, TURMERIC, CORIANDER, COFFEE AND MILK POWDERS BY PHYSICAL AND CHEMICAL METHODS

A project work report submitted to the
DEPARTMENT OF CHEMISTRY

in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN CHEMISTRY



Submitted in November 2022 by

NAME	REGISTER NUMBER
V. SETHU PRAVEENA	2020UCH17
M. SURYA	2020UCH23

Under the Guidance of
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Assistant Professor, Department of Chemistry
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(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627012)

Institution recognized u/s 2(f) and 12(B) of UGC & Re- accredited with 'A' Grade by NAAC(A

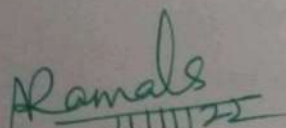
Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

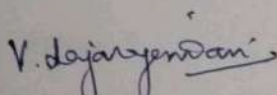
TIRUNELVELI-627 011, TAMIL NADU, INDIA.

CERTIFICATE

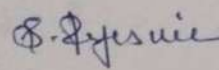
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V. Sethu Praveena .
(V. SETHU PRAVEENA)



M. Surya
(M.SURYA)

[Signature]

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N. KAMALA, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

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A project work report submitted to the
DEPARTMENT OF CHEMISTRY
in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN CHEMISTRY



Submitted in November 2022 by

NAME	REGISTER NUMBER
S. KAVIYA	2020UCH08
P. ROOBINI	2020UCH15
A. SIVAPRIYA	2020UCH19

Under the Guidance of

V. RAJA RAJESWARI, M.Sc., M.Phil., PGDCA., DGT.,

Associate Professor & Head

Department of Chemistry

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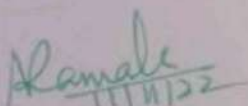
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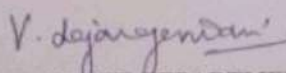
TIRUNELVELI-627 011, TAMIL NADU, INDIA.

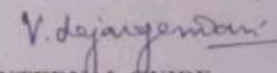
CERTIFICATE

This is to certify that this project work titled "A STUDY ON THE ESTIMATION OF OXALATE ION CONTENT IN VARIOUS GUAVA FRUIT JUICES" is a bonafide work of S.KAVIYA, P.ROOBINI, and A.SIVAPRIYA of Final B.Sc. Chemistry, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN CHEMISTRY** during the academic year 2022-2023.


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HEAD, DEPARTMENT OF CHEMISTRY
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INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled "A STUDY ON THE ESTIMATION OF OXALATE ION CONTENT IN VARIOUS GUAVA FRUIT JUICES" was carried out by all of us jointly for the award of the degree of BACHELOR OF SCIENCE IN CHEMISTRY is our original work.



S. Kaviya .

(S.KAVIYA)



P. Roobini

(P.ROOBINI)



A. Siva Priya

(A.SIVAPRIYA)

V. Rajasekaran

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N.Kamala ,M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

We all submit our honest and humble reverence to our guide Smt. V. Raja Rajeswari M.Sc., M.Phil.,PGDCA., DGT., Associate professor and Head, Department of Chemistry, Sri Sarada College for Women (Autonomous), Tirunelveli for her consistent review, constructive suggestion, critical interpretation, invaluable guidance and motivation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

GREEN SYNTHESIS OF IRON OXIDE NANOPARTICLES USING MORINGA OLEIFERA LEAF EXTRACT AND ITS ANTIBACTERIAL ACTIVITY

A project work reports submitted to the

DEPARTMENT OF CHEMISTRY

In partial fulfillment to the requirements for the award of the degree of

BACHELOR OF SCIENCE IN CHEMISTRY



Submitted in November 2022 by

NAMES	REGISTRATION NUMBERS
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(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

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TIRUNELVELI-627011, INDIA

CERTIFICATE

This is to certify that this project work titled "GREEN SYNTHESIS OF IRON OXIDE NANOPARTICLES USING MORINGA OLEIFERA LEAF EXTRACT AND ITS ANTIBACTERIAL ACTIVITY" is a bonafide work of J.NANTHINI, S.SUDAR DEEPA and V.VARSHA of Final B.Sc., Chemistry, Sri Sarada College for Women (Autonomous), Tirunelveli-627 011 in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN CHEMISTRY during the academic year 2022 – 2023.

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A. Kalpana Pushpan

INTERNAL GUIDIE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled "GREEN SYNTHESIS OF IRON OXIDE NANOPARTICLES USING MORINGA OLEIFERA LEAF EXTRACT AND ITS ANTIBACTERIAL ACTIVITY" was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN CHEMISTRY** is our original work.



J. Nanthini
(J.NANTHINI)



S. Sudar Deepa
(S.SUDAR DEEPA)



V. Varsha
(V.VARSHA)

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SIGNATURE OF THE INTERNAL GUIDE

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N.Kamala, M.Com., M.Phil., NET., PGDCA.,Ph.D., for ceaseless support.

We all submit our honest and humble reverence to our guide Smt. V. Raja Rajeswari, M.Sc., M.Phil., PGDCA., DGT., Associate professor and Head, Department of Chemistry, Sri Sarada College For Women (Autonomous), Tirunelveli for her consistent review constructive suggestion, critical interpretation, invaluable guidance and motivations throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members and lab assistant at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

We are thankful to the director, Science Instrumentation Centre, V.O. Chidambaram College, Thoothukudi and Trichy Research Institute of Biotechnonology, Trichy for their rendered help in sample characterization and application purposes.

A QUALITATIVE ANALYSIS OF PROTEIN, SUGAR, MAGNESIUM, IRON AND NICKEL IN VARIOUS CHOCOLATES

A project work report submitted to the
DEPARTMENT OF CHEMISTRY

In partial fulfillment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN CHEMISTRY



Submitted in November 2022 by

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Institution recognized u/s 2(f) and 12(B) of UGC & Re-accredited With 'A' Grade by NAAC (A


Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

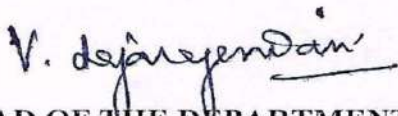
Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

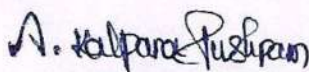
TIRUNELVELI-627011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this project work titled "**A QUALITATIVE ANALYSIS OF PROTEIN, SUGAR, MAGNESIUM, IRON AND NICKEL IN VARIOUS CHOCOLATES**" is a bonafide work of A. KRISHNAPRIYA , P. REGHA and N. SANGAVI of Final B.Sc., Chemistry, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN CHEMISTRY** during the academic year 2022-2023.


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INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled “A QUALITATIVE ANALYSIS OF PROTEIN, SUGAR, MAGNESIUM, IRON AND NICKEL IN VARIOUS CHOCOLATES” was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN CHEMISTRY** is our original work.



A. Krishna Priya
(A. KRISHNAPRIYA)



P. Regha
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ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswasi Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N. Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep of respect, we profusely thank Smt. V. Raja Rajeswari, M.Sc., M.Phil., PGDCA., DGT., Associate professor and Head, of the Department of Chemistry for her constant encouragement.

We all submit our honest reverence to our guide Smt. A. Kalpana pushpam, M.Sc., M.Phil., for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interaction of faculty members at the department, our beloved parent and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

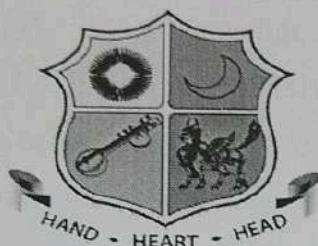
STUDENT ACADEMIC SUPERINTENDENCE SYSTEM

A project work report submitted to the

Department of Computer Science

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE



Submitted in November 2022 by

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R.SHENBAGALAKSHMI -2020UCS27

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Tirunelveli-627 011, Tamil Nadu, India.

NOVEMBER-2022

CERTIFICATE

This is to certify that the project work titled "STUDENT ACADEMIC SUPERINTENDENCE SYSTEM" is a bonafide work of S.AMMA PONNU, K.M.S.PARKAVI, R.SHENBAGALAKSHMI, V.V.VISHNU PRIYA of final year B.Sc., COMPUTER SCIENCE, Sri Sarada college for women (Autonomous), Tirunelveli – 627 011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** during the academic year 2022 - 23.

Ramale
19/11/22
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M. Vijayalakshmi
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EXTERNAL EXAMINER



DECLARATION

We do hereby declare that this project work titled "STUDENT ACADEMIC SUPERINTENDENCE SYSTEM" was carried out by us for the award of the degree of BACHELOR OF SCIENCE IN COMPUTER SCIENCE is our original work.



S. Amma Ponnu
S. AMMA PONNU



K.M.S. Parkavi
K.M.S. PARKAVI



R. Shenbagalakshmi
R. SHENBACALAKSHMI



V.V. Vishnu Priya
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ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt.) N. Kamala, M.com., M.Phil., NET., PGDCA, Ph.D., DGT for her ceaseless support.

We are greatly indebted to Dr.(Smt) V.VALLINAYAGI, M.Sc., M. Phil., Ph.D., Head and Associate Professor, Department of Computer Science for her commendable support for the successful completion of this work.

With deep sense of respect, we profusely thank Mrs.M.VIJAYALAKSHMI, M.Sc., M.Phil., SET., Assistant Professor of Computer Science who is my guide for her constant encouragement, consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

ABSTRACT

Any teacher who has dealt with difficult parents knows the stress it can cause. Luckily, Building a positive parent-teacher relationship through proactive communication has never been easier. One of the many challenges facing colleges today is to establish instant communication between teachers and parents regarding attendance and academic performance of the students. Our project is aimed to develop a tool for the communication between parent and teachers in supporting the development of the students. This system was developed and piloted an innovative approach to incorporating and responding to parental concerns for the student's academic activities. This system helps to manage the student details, academic result and the attendance report in a centralized location without the paper document. This system, provide a simple interface for maintenance of student information which can be used by any educational institutes or colleges to maintain the records of student easily. The creation and management of accurate, up-to-date information regarding a student academic career is critically important in the educational institutes as well as colleges. In case of educational institutions, the institutions may want to send reports on the student's academic performance to parents. It will become a very tedious process. Here comes the need for an automatic report generator. And at present, the college needs an advanced and computerized environment. And once implemented, it will minimize all the problems mentioned.

This system will make these work much easier for the college as they will be able to store data much better than how they were able to do earlier. In this project four module is implemented namely the admin module, student module, parent module and the result management module. The current project aims at creating a web-based system, which will reduce our work time, and improve the security.

The main objective of this project is to provide results to the parent in a simple way i.e., sending an email. The admin/staff can login through their login id and password to upload the student marks. And accordingly in this project, after mark entry of the student the result will send to the respected parent's mail id which is collected in the student's details module. By this mail sending idea we can conclude that the message will surely see by the parent. In the parent module after the login process, the parent can view the overall performance of the students in the semester examinations subject wise [1].

CAMPUS RECRUITMENT SYSTEM

A project work report submitted to the

Department of Computer Science

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE



Submitted in November 2022 by

M.ANUSHIYA	2020UCS02
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TIRUNELVELI-627 011, TAMIL NADU, INDIA.

NOVEMBER-2022

CERTIFICATE

This is to certify that the project work titled "**CAMPUS RECRUITMENT SYSTEM**" is a bonafide work of M.ANUSHIYA, M.BARKAVE, H.DHANASELVI, M.GURUSANGARI of final year B.Sc., Computer Science, Sri Sarada college for women(Autonomous), Tirunelveli – 627 011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** during the academic year 2022 - 23.

Ramale
19/11/22

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HEAD OF THE DEPARTMENT

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18/11/22

EXTERNAL EXAMINER



DECLARATION

We do hereby declare that this project work titled "**CAMPUS RECRUITMENT SYSTEM**" was carried out by us for the award of the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** is our original work.



M. Anushiya
(M.ANUSHIYA)



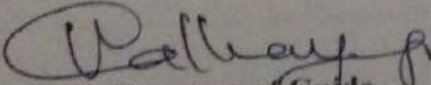
M. Barkave
(M.BARKAVE)



H. Dhanaselvi
(H.DHANASELVI)



M. Gurusangari
(M.GURUSANGARI)


Signature of Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba ' s blessings. We wish to convey our respect to our Principal Dr.(Smt.) N. Kamala, M.com., M.Phil., NET., PGDCA, Ph.D., DGT for her ceaseless support.

We are greatly indebted to Dr. (Smt) V. VALLINAYAGI, M. SC., M. Phil., Ph.D., Head Department of Computer Science for her commendable support for the successful completion of this work and our guide for her constant encouragement, consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

ABSTRACT

(The purpose of Campus Recruitment System is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that the valuable data/information could be stored for a longer period with easily accessible and manipulation of it. The demanded software and hardware are available with ease and workable. Campus Recruitment System, as described above, can lead to error free, secure, reliable and fast management system. It can help the user to focus over their other activities rather than only focusing on keeping the record. Thus it can help organization in better resources utilization. The organization can maintain computerized records without unnecessary records. That means that one need not be diverted by information that is irrelevant, while being able to reach the information.)

Computer based information system are designed to improve existing system. It has user friendly interface having quick authenticated access to documents. (It provides the facility of maintaining the details of the students. It will reduce the paper work and utilize the maximum capabilities of the Setup and organization as well as it will save time and money which are spending in making reports and collecting data. It can be accessed throughout the organization with proper login provided.

System provides the list of suitable companies to the students, according to their educational qualification, experience and their preferences. System provides the list of eligible students from a pool according to required skill for vacancy of company. The aim is to provide services to both the Employer and the Graduate by recruiting Graduates according to the employer specifications.)

E-BALLOTING PORTAL

A project work report submitted to the

Department of Computer Science

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE



Submitted in November 2022 by

G.DHARSHINI PRIYANKA	-2020UCS07
M.MADHUPRIYA	-2020UCS14
K.MEENATCHI	-2020UCS16
A.PADMASELVI	-2020UCS20
M.SAFRITHA	-2020UCS26

Under the guidance of

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Assistant Professor, Department of Computer Science

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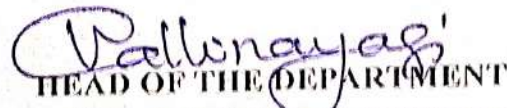
NOVEMBER-2022

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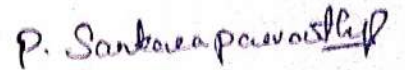
This is to certify that the project work titled "E-BALLOTING PORTAL" is a bonafide work of G.DHARSHINI PRIYANKA, M.MADHU PRIYA, K.MEENATCHI, A.PADMASELVI, M.SAFRITHA of final year B.Sc., Computer Science, Sri Sarada college for women(Autonomous), Tirunelveli - 627 011 in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN COMPUTER SCIENCE during the academic year 2022 - 23.


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GUIDE



EXTERNAL EXAMINER



DECLARATION

We do hereby declare that this project work titled "E-BALLOTING PORTAL" was carried out by us for the award of the degree of BACHELOR OF SCIENCE IN COMPUTER SCIENCE is our original work.



G. Dharshini priyanka
(G.DHARSHINI PRIYANKA)



M. Madhupriya
(M.MADHU PRIYA)



K. Meenatchi
(K.MEENATCHI)



A. Padmaselvi
(A.PADMASELVI)



M. Safritha
(M.SAFRITHA)

P. S. S. S. S. S.
Signature of Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba ' s blessings. We wish to convey our respect to our Principal Dr.(Smt) N. Kamala, M.com., M.Phil., NET., PGDCA, Ph.D., DGT for her ceaseless support.

We are greatly indebted to Dr.(Smt) V.VALLINAYAGI, M.SC., M.Phil., Ph.D., Head and Associate Professor, Department of Computer Science for her commendable support for the successful completion of this work.

With deep sense of respect, we profusely thank our guide Selvi P. SANKARA PARVATHY, Msc., M.Phil., Assistant Professor of Computer Science for her constant encouragement, consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

ABSTRACT

The "E-Balloting Portal" has been developed to override the problems prevailing in the practicing manual system. This system is designed for the need of the college leaders' selection process to carry out operations in a smooth and effective manner. The word vote means, choosing candidates from list and to elect or to determine a person. The main goal of voting is to come up with leaders of the people's choice. Living in modern world without using digitalization is not a better way. Using modern technology and internet, it helps in reducing work and increase efficiency which is a way for developing digital country. The technology also helps in having a smart work process so that we can implement this in the colleges as an E-Balloting Portal.

This Portal shall reduce the time spending in making long queues at the polling stations during voting. It shall also enable the voters to vote from any part of the globe as explained above, since this is an online application available on the internet. Cases of vote discounts shall also be solved since at the backend of this system there resides a well developed database called MYSQL that can provide the correct data once it's correctly queried. Since the voting process shall be open as early as possible, the voters shall choose their own time (within the stipulated voting hours) to decide when and whom to vote for.

The current voting process uses pen and paper method which makes error prone and time delay. In our project a voter can use her voting right online without any difficulty. She has to be registered first for her to vote. Registration is mainly done by the admin for security reasons. The system admin registers the voters on a special site of the system visited by the particular person only by simply filling a registration form to register vote. The Students should seek the admin for their registration and submission process. After registration, the voter is assigned a secret username and password with which she can log in into the system and enjoy services provided by the system such as voting, checking results among others. If invalid details are submitted, then the voter is not allowed to vote. It should be noted that with this system in college, the students shall be given sample time during the voting period. They shall also be trained on how to vote online before the election time

In our Project, the candidate and the voters can login by their unique user id and password. Only admin can add candidates and voters. Voters can cast their vote by login with their voter id and password and then voter can be able to vote. It also provides error

messages while entering invalid data (voter id, Password). Here the voter can view a list of candidates in their college. The admin has all rights over the system and can moderate and delete any details, not pertaining to balloting rules; the candidates can upload their videos and images for campaign.

As already stated, in login system, everyone has a valid username and password. It has also been noted that, there are absolutely different privileges for the voter and the system admin. At the first visit of the system, the voter /admin interacts with the login page where she is required to provide a valid username and password in order to login. Once logged in, then the voter is allowed to perform activities such as voting, viewing results and voter registration as per the privileges.

This system is highly developed and the online polling system can be replaced by accurately and directly voting in online and it gives immediate results. Less effort and less labor intensive, as the primary cost and focus primary on creating, managing, and running a secure web voting portal. This portal is used to overcome the problems caused by human errors and wastage of time doing all process manually.

SMART CLASSROOM PORTAL

A project work report submitted to the

Department of Computer Science

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE



Submitted by

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November,2022.

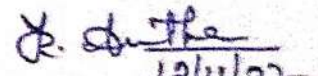
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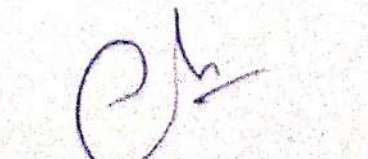
This is to certify that this project work titled "SMART CLASSROOM PORTAL" is a bonafide work done by M.V. JAYARUTHRA, T. PALANI BHARATHI, K.RAJALAKSHMI, V.SRI JANANI, P.SUBIKSHA of Final year B.Sc.Computer Science, Sri Sarada College for Women (Autonomous), Tirunelveli - 627011 in partial fulfillment of the requirements for the award of the degree BACHELOR OF SCIENCE IN COMPUTER SCIENCE during academic year 2022-2023.


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GUIDE 12/11/22


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DECLARATION

We do hereby that this project work titled "SMART CLASSROOM PORTAL"
is carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE**
IN COMPUTER SCIENCE is our original work



M.V. Jayaruthra
V. Jayaruthra



T. Palani Bharathi
T. Palani Bharathi



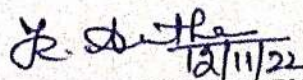
K. Rajalakshmi
K. Rajalakshmi



V. Sri Janani
V. Sri Janani



P. Subiksha
P. Subiksha


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SIGNATURE OF THE GUIDE

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N. Kamala, M.Com, and M.Phil.,NET, PGDCA. , Ph.D., for her ceaseless support.

We are gently indebted to Dr. (Smt) V. VALLINAYAGI, M.Sc., M.Phil.,Ph.D.,Head and Assistant professor Department of Computer Science for her commendable support for the successful completion of this work.

With deep sense of respect,we profusely thank Dr.K.Amutha MCA., M.Phil., Ph.D., Assistance professor of Computer Science for her constant encouragement consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge and inquisitive interactions of faculty member at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

ABSTRACT

The "SMART CLASSROOM PORTAL" is used to access the notes. As the world is being created with the modern technologies, finding and controlling modern thoughts and ideas of taking everything online are quickly changing. It is troublesome for teachers to circulate their notes to each and each student whom is he/she educating. Smart classroom portal give a straightforward approach for both students and instructors to circulate the notes whether of any kind like address notes, task questions, address papers and all the vital archives. The instructors and students can transfer the reports from anyplace and anyone can download it. Notes that the user wants for the particular challenge can be discovered here. This venture is written in PHP and MYSQL. The consumer need to join up after which, they are able to log into device. They may get their own dashboard where they could see the quantity of notes for the particular college. After that they could download it and study the notes. They are able to even edit the profile like call, profile, and alternate password. Finally, in admin side they can see all the users who are using it. Admin has the authority to delete the users too. This project deals with borrowing and exchanging the notes. If the user had uploaded the notes then admin take a look at the notice and is it's far usable then they'll authorized it and all of the other user gets the be aware in keeping with the college. It is easy to hold as much as challenge. This website which helps users to upload, download and manage notes of their particular course. All the notes are approved from the admin and the user can view the homepage and see the contents available there. Through this site, the admin can maintain the student's notes with more ease.

It is a WEB-based framework particularly planned for students of specific college. This system is being delivered for students curious about borrowing and giving their own notes for the free of cost. This framework will give a simple approach to share the documents for studying purpose. Different users can work simultaneously on the framework. It'll be simple for the instructors to circulate the notes to each and every student. The framework will be utilized by students and instructors in colleges and indeed it can be utilized by schools. So this website is useful for various students to search for notes anytime and anywhere they don't have to worry or panic at any situation. It makes the learning easy for the students as well as the instructor or admin because they don't have to worry whether every student took their notes or not. This is free of cost and they can borrow it for free.

ONLINE MEDICAL REPORTING SYSTEM

A project work report submitted to the

Department of Computer Science

In partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE



Submitted in November 2022 by

P. BAVITHRA -2020UCS04

M. GURUDEVI -2020UCS08

P. JAYA SRI -2020UCS11

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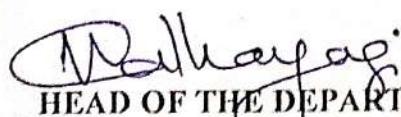
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CERTIFICATE

This is to certify that the project work titled "ONLINE MEDICAL REPORTING SYSTEM" is a bonafide work of P. BAVITHIRA, M. GURUDEVI, P. JAYA SRI, V. MUTHU MARI, K. SUSHMITHA of final year B.Sc., COMPUTER SCIENCE, Sri Sarada college for women (Autonomous), Tirunelveli - 627 011 in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE IN COMPUTER SCIENCE during the academic year 2022-23.


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T. Kotha Ragavi
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EXTERNAL EXAMINER



DECLARATION

I do hereby declare that this project work titled "ONLINE MEDICAL REPORTING SYSTEM" was carried out by us for the award of the degree of BACHELOR OF SCIENCE IN COMPUTER SCIENCE is our original work.



P. Bavithra
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ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N. Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

We are greatly indebted to Dr. (Smt) V. VALLINAYAGI, M. SC., M. Phil., Ph.D., Head and Associate Professor, Department of Computer Science for her constant encouragement.

We deep sense of respect, we profusely thank Selvi T. Kotha Ragavi, MCA., Assistant Professor of Computer Science who is my guide for her constant encouragement, consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We future acknowledge and inquisitive interactions of faculty member at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

ABSTRACT

Today's web-based technology offers many online services in every field. Every major industry is converting and establishing a digital front for all their major operations to get closer to the booming digital market. In today's world the information flow is very fast and redundant means won't add to the individual or the organisation that's using them. [online connectivity is well organised and well managed establishments. On such field a healthcare where the digitisation of information should happen rapidly and efficiently. Smart Doctor Prescription System is an application that provides services to the Doctors and Patients. The Doctor's Prescription system connects between Doctor and Patients using web and android apps and patients are able to search for suitable prescription using their Smartphone.

This project addresses the particular region that paves a way for the creation of a software which helps to an easy transition from the paperwork to e-papers. This project describes an idea of such a web-based platform that eliminates the need of paper prescriptions in the hospital process online-medical Reports which will increase the efficiency of patient management, schedule management of the doctors and give universal access to the patient data anywhere in the hospital. This project is an organized computerised system designed and programmed to deal with day-to-day operations and management of hospital activities.

The program can look after inpatients, outpatients, records, database treatments, status illness, billings in the pharmacy, and labs. The internet has been a steady source of medical data previously: it has just as of late been utilized for online private patient-doctor consultations. This application shows the Doctors the previous history of a particular patient and can prescribe on basis of the history of patient. The main objective of this project is connecting doctor and patient very quickly and easily from any location without any involvement of any third party. Any doctor and patient can easily use this application by registering, and doctor can prescribe the patient based on disease using listed medicine and number of days etc. This system also notifies the Doctor and patient through apps about their appointments and prescriptions within shortage possible time.

AUTOLOGOUS BLOOD PORTAL

A project work report submitted to the

Department of Computer Science

In partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE



Submitted in November 2022 by

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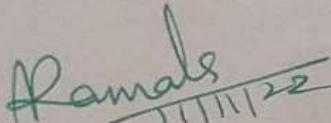
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Tirunelveli-627 011, Tamil Nadu, India.

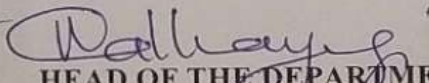
NOVEMBER-2022.

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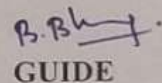
This is to certify that the project work titled "AUTOLOGOUS BLOOD PORTAL" is a bonafide work of M. ISHIKA, S. MADHUMITHA, S. MUTHUPRIYA, G. PIRAMASAKTHI, V. SHUNMUGAVENI of final year B.Sc., COMPUTER SCIENCE, Sri Sarada college for women (Autonomous), Tirunelveli – 627 011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN IN COMPUTER SCIENCE** during the academic year 2022 - 23.



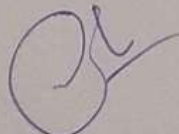
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EXTERNAL EXAMINER



DECLARATION

We do hereby declare that this project work titled "AUTOLOGOUS BLOOD PORTAL" was carried out by us for the award of the degree of BACHELOR OF SCIENCE IN COMPUTER SCIENCE is my original work.



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(M. ISHIKA)



S. Madhumitha
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S. Muthu Priya
(S. MUTHUPRIYA)



G. Piramasakthi
(G. PIRAMASAKTHI)



V. Shunmugaveni
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ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt.) N. Kamala, M.com., M.Phil., NET., PGDCA, Ph.D., DGT for her ceaseless support.

We are greatly indebted to Dr. (Smt) V. VALLINAYAGI, M. SC., M.Phil., Ph.D., Head Department of Computer Science for her commendable support for the successful completion of this work.

With deep sense of respect, we profusely thank Selvi.B. Bhuvaneswari, MCA., MPhil Assistant Professor of Computer Science who is my guide for her constant encouragement, consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, my beloved parents and siblings at home and my classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

ABSTRACT

Help Line is a voluntary and non-government organization. It maintains Online library of blood donors in India. Sometimes Doctors and Blood bank have to face the difficulty in finding the blood Donors at right time. Help Line has attempted to provide the answer by taking upon itself the task of collecting Blood bank project nationwide for the cause and care of people in need. At any point of time the people who are in need can reach the donors through our search facility. By mobilizing people and organization who desire to make a difference in the lives of people in need. On the basis of humanity, everyone is welcome to register as a blood donor. Autologous Blood Portal is a web-based system that is designed to store, process, retrieve and analyze the information concerned with the administrative and inventory management within a blood effective. This project aims to maintaining all the information pertaining to blood donors, availability of bloods in each blood bank and help them manage in a better way. Aim of this project is to provide transparency in this field, make the process of obtaining blood from a blood bank hassle free and corruption free and make the system of autologous blood portal effective.

ONLINE HEALTH PREDICITON USING MACHINE LEARNING

A project work report submitted to the

Department of Computer Science

In partial fulfilment of the requirement for the award of the degree of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE



Submitted in November 2022 by

M.MARI KAYATHRI	-2020UCS15
M.MUTHULAKSHMI	-2020UCS18
K.PREMA	-2020UCS24
M.SUBHA LAKSHMI	-2020UCS30
A.UMA PARAMESHWARI	-2020UCS33

Under the guidance of

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(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH

Tirunelveli-627 011, Tamil Nadu, India.

NOVEMBER-2022

CERTIFICATE

This is to certify that the project work titled "ONLINE HEALTH PREDICTION USING MACHINE LEARNING" is a bonafide work of M.MARI KAYATHRI, M.MUTHULAKSHMI, K.PREMA, M.SUBHA LAKSHMI, A.UMA PARAMESHWARI of final year B.Sc., Computer Science, Sri Sarada college for women(Autonomous), Tirunelveli - 627 011 in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE IN COMPUTER SCIENCE during the academic year 2022 - 23.

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S. Subalakshmi
GUIDE

Ch

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DECLARATION

We do hereby declare that this project work titled "ONLINE HEALTH PREDICTION USING MACHINE LEARNING" was carried out by us for the award of the degree of BACHELOR OF SCIENCE IN COMPUTER SCIENCE is our original work.



M. Mari Kayathri
(M.MARI KAYATHRI)



M. Muthulakshmi
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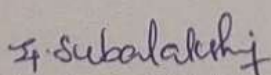
K. Prema
(K.PREMA)



M. Subha Lakshmi
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A. Uma Parameshwari
(A.UMA PARAMESHWARI)


Signature of Guide

ABSTRACT

The digital technology era demands the world to provide an excellent health system, in order to ensure the citizen and community to be alive and healthy. This project is used to predict the diseases from the symptoms which are given by the patients or any user. This is a web-based programme that predicts a user's illness based on their symptoms that the user/patient can feel. At presently, healthcare organizations face growing pressure to accomplish better care coordination and patient care outcomes this can be done easily by Online Health Prediction systems. The system processes the symptoms or details provided by the user as input and gives the output as the probability of the disease.[1] Knowledge and experience have their limitations. But technology using artificial intelligence and machine learning can support and help the health care industry to be one step ahead at all times. Machine Learning is the domain that uses past data for predicting.

Machine Learning is the understanding of computer system under which the Machine Learning model learn from data and experience. The way to recognize patient health is by applying Data Mining and Machine Learning techniques on patient treatment history in this application. The Online Health Prediction systems collect data and reports from the hospitals or patient's database by machine learning and data processing techniques which is employed to predict the disease which used for various kinds of predictions for disease.[4] Medical reports and data had been extracted from various databases to predict a number of the required diseases which are commonly found in people nowadays breast cancer, heart disease and liver disease make their life more critical to measure. Our project is used to form people's life simpler by predicting the disease by inputting certain data from their reports which can give the result positive or negative according to the inputs. Predictive analytics in healthcare is helping doctors be proactive instead of reacting when a crisis occurs. The aim here is to avoid and avert the crisis rather than minimizes the damage once it happens.

IoT BASED SMART LIGHT CONTROL SYSTEM USING ARDUINO

A project work report submitted to the

Department of Information Technology

in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY



Submitted in November 2022 by

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Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

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CERTIFICATE

This is to certify that this project work titled "IoT BASED SMART LIGHT CONTROL SYSTEM USING ARDUINO" is a bonafide work of AARTHI M, INDHU M RAJA SHREE M, SATHIYA BHAMA B and SELVALAKSHMI MEERA S of Final Year B.Sc., Information Technology, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** during the academic year 2022 - 23.

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S. Murugesuvaraj
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18/11/22
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DECLARATION

We do hereby declare that this project work titled "IoT BASED SMART LIGHT CONTROL SYSTEM USING ARDUINO" was carried out by all of us jointly for the award of the degree of BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY is our original work.



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(AARTHI M)

Indhu. M
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Raja Shree B
(RAJA SHREE B)

Sathiya Bhama
(SATHIYA
BHAMA B)

S. Selvalakshmi Meera
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ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N. Kamala, M.Com., M.Phil., NET, PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt. M. Indra, MCA., SET, Head, Department of Information Technology for her constant encouragement.

We all submit our honest and humble reverence to our guide Smt. S. Murugeswari, MCA., M.Phil., for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

COLLEGE MANAGEMENT SYSTEM USING PYTHON AND DJANGO FRAMEWORK

A project work report submitted to the
Department of Information Technology
in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY



Submitted in November 2022 by

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Under the Guidance of

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TIRUNELVELI-627 011, TAMIL NADU, INDIA.

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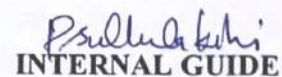
This is to certify that this project work titled "COLLEGE MANAGEMENT SYSTEM USING PYTHON AND DJANGO FRAMEWORK" is a bonafide work ANUSHIYA V, BRINDHA G, PARVATHA VARTHINI S, PUSHPA LAKSHMI M of Final year B.Sc., Information technology, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY during the academic year 2022 - 23.

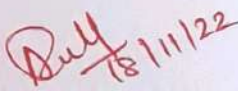

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EXTERNAL EXAMINER



DECLARATION

We do hereby declare that this project work titled "**COLLEGE MANAGEMENT SYSTEM USING PYTHON AND DJANGO FRAMEWORK**" was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** is our original work.



V. Anushiya
(ANUSHIYA V)



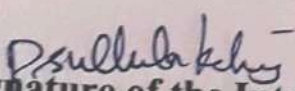
G. Brindha
(BRINDHA G)



S. Parvatha Varthini
(PARVATHA VARTHINI S)



M. Pushpalakshmi
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ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N. Kamala, M.Com., M.Phil., NET, PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt. M. Indra MCA., SET Head, Department of Information Technology for her constant encouragement.

We all submit our honest and humble reverence to our guide Smt. P.Subbulakshmi M.Sc., M.Phil., NET for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

IoT BASED SMART AGRICULTURE SYSTEM

A project work report submitted to the

Department of Information Technology

in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY



Submitted in November 2022 by

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(A Branch of Sri Ramakrishna Tapovanam, Tirupparairthurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI-627 011, TAMILNADU, INDIA.

CERTIFICATE

This is to certify that this project work titled "**IoT BASED SMART AGRICULTURE SYSTEM**" is a bonafide work of KANNAMMA B, MUTHULAKSHMI M, SORNAM T and SRI NIVETHA G of Final Year B.Sc., Information Technology, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** during the academic year 2022 - 23.

Samala
11/11/22

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(Autonomous)

TIRUNELVELI - 627 011

M. Indira

HEAD OF THE DEPARTMENT

HEAD, DEPARTMENT OF INFORMATION TECHNOLOGY

SRI SARADA COLLEGE FOR WOMEN,

(AUTONOMOUS)

TIRUNELVELI - 627 011

M. Usha

INTERNAL GUIDE

Duty
18/11/22

EXTERNAL EXAMINER



DECLARATION

We do hereby declare that this project work titled "IoT BASED SMART AGRICULTURE SYSTEM" was carried out by all of us jointly for the award of the degree of BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY is our original work.



B. Kannamma
(KANNAMMA B)



M. Muthulakshmi
(MUTHULAKSHMI M)



T. Sornam
(SORNAM T)



Sri Nivetha G.
(SRI NIVETHA G)

M. Usha

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N. Kamala, M.Com., M.Phil., NET, PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt. M. Indra, MCA,SET, Head, Department of Information Technology for her constant encouragement.

We all submit our honest and humble reverence to our guide Smt. M. Usha, MCA., M.Phil., for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

STEGANOGRAPHY USING MEDIA FILES IN PYTHON

A project work report submitted to the
Department of Information Technology
in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY



Submitted in November 2022 by

ARUNA B	2020UIT03
KANAGACHITHRA S	2020UIT10
PAVITHRA G	2020UIT15
SUBBULAKSHMI S	2020UIT23

Under the Guidance of
P. SUBBULAKSHMI, M.Sc., M.Phil., NET

Assistant Professor, Department of Information Technology

SRI SARADA COLLEGE FOR WOMEN

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(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI-627 011, TAMIL NADU, INDIA.

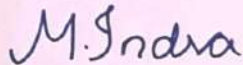
CERTIFICATE

This is to certify that this project work titled 'STEGANOGRAPHY USING MEDIA FILES IN PYTHON' is a bonafide work of ARUNA B, KANAGACHITHRA S, PAVITHRA G and S.SUBBULAKSHMI of Final year B.Sc., Information technology, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY during the academic year 2022-23.



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SRI SARADA COLLEGE FOR WOMEN,
(AUTONOMOUS)
TIRUNELVELI - 627 011,



INTERNAL GUIDE



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DECLARATION

We do hereby declare to "Steganography using Media Files in Python" that this project work titled was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** is our original work.



B. Aruna
(ARUNA B)



S. Kanagachitra
(KANAGACHITRA S)



G. Pavithra
(PAVITHRA G)



S. Subbulakshmi
(SUBBULAKSHMI S)

S. Subbulakshmi

SIGNATURE OF THE INTERNAL GUIDE

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt) N. Kamala, M.Com., M.Phil., NET, PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt. M. Indra MCA., SET Head, Department of Information Technology for her constant encouragement.

We all submit our honest and humble reverence to our guide Smt. P. Subbulakshmi M.Sc., M.Phil., NET for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

IOT BASED FALL DETECTOR

A project work report submitted to the
Department of Information Technology
in partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY



Submitted in November 2022 by

BALAMURUGESWARI P	2020UIT04
DURGADEVI M	2020UIT06
GAYATHRI PRIYA M	2020UIT07
JASMINE P	2020UIT09
SIVARANJANI S	2020UIT20

Under the Guidance of

Selvi S.Murugeswari MCA.,M.Phil

Assistant Professor, Department of Information Technology

SRI SARADA COLLEGE FOR WOMEN

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(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI-627 011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this project work titled '**IOT BASED FALL DETECTOR**' is a bonafide work of BalaMurugeswari P, Durgadevi M, Gayathri Priya M, Jasmine P, Sivaranjani S of Final Year B.Sc., Information Technology, Sri Sarada College for Women (Autonomous), Tirunelveli-627011 inpartial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** during the academic year 2022-23.

A. Ramale
11/11/22

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(Autonomous)
TIRUNELVELI - 627 011

M. Indra

HEAD OF THE DEPARTMENT

HEAD, DEPARTMENT OF INFORMATION TECHNOLOGY
SRI SARADA COLLEGE FOR WOMEN,
(AUTONOMOUS)
TIRUNELVELI - 627 011

B. Murugeswari
INTERNAL GUIDE

R. S. S. S.
18/11/22

EXTERNAL EXAMINER



DECLARATION

We do here by declare that this project work titled “**IOT BASED FALL DETECTOR**” was carried out by all of us jointly for the award of the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** is our original work.



P. Bala Murugeswari

M. Durgadevi

M. Gayathri Priya

P. Jasmine

S. Sivaranjani

(Bala Murugeswari P)

(Durgadevi M)

(Gayathri Priya M)

(Jasmine P)

(Sivaranjani S)

S. Murugeswari.

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N.Kamala, M.Com.,M.Phil., NET,PGDCA.,Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt.M Indra MCA, SET., Head, Department of information technology for her constant encouragement.

We all submit our honest and humble reverence to our guide Selvi.S .Murugeswari MCA.,M.Phil., for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly

AN AI-BASED CHATBOT USING FLASK FRAMEWORK

A project work report submitted to the
Department of Computer Applications

In partial fulfillment of the requirements for the award of the degree of
BACHELOR OF COMPUTER APPLICATIONS



Submitted in April 2023 by

S.M. ABINAYA	-2020UCA02
K. ATHILAKSHMI	-2020UCA05
S. PREMA	-2020UCA18

Under the Guidance of
Smt. P. Anusha, MCA., MPhil., DGT,
Assistant Professor & Head
Department of Computer Applications
SRI SARADA COLLEGE FOR WOMEN
(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627 011)
Institution recognized u/s 2(f) and 12(B) of UGC & Re-accredited with 'A'
Grade by NAAC(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)
Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,
Tirunelveli-627 011, Tamilnadu, India.

CERTIFICATE

This is to certify that this project work titled" **AN AI-BASED CHATBOT USING FLASK FRAMEWORK**" is a bonafide work of S.M.ABINAYA, K.ATHILAKSHMI, S.PREMA of Final Year of Computer Applications, Sri Sarada College For Women (Autonomous), Tirunelveli-627 011 in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF COMPUTER APPLICATIONS** during the academic year 2022-2023.

Hanale
27/4/23

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P. Suresh
27.4.2023

HEAD OF THE DEPARTMENT

HEAD, DEPARTMENT OF COMPUTER APPLICATIONS

SRI SARADA COLLEGE FOR WOMEN
(Autonomous)

TIRUNELVELI - 627 011.

P. Suresh

INTERNAL GUIDE

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled "AN AI-BASED CHATBOT USING FLASK FRAMEWORK" Was carried out by all of us jointly for the award of the degree of BACHELOR OF COMPUTER APPLICATIONS is our original work.



P. M. Abinaya
(S.M.ABINAYA)



K. Athi Lakshmi
(K.ATHILAKSHMI)



S. Prema
(S.PREMA)

P. Suresh

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt).N. Kamala., M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With a deep sense of respect, we profusely thank Smt.P. Anusha., MCA., M.Phil., DGT., Assistant Professor & Head, Department of Computer Applications for her constant encouragement.

We all submit our honest and humble reverence to our guide Smt.P. Anusha., MCA., M.Phil., DGT., Assistant Professor & Head, Department of Computer Applications for her consistent review, constructive suggestion, and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home, and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly

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COMPUTER APPLICATIONS**



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Krishnakulam, Thoothukudi NH, Maharaja Nagar Post.

TIRUNELVELI - 627 011



DESIGN AND IMPLEMENTATION OF AN ONLINE EXAMINATION SYSTEM

* Abinaya S.M, Prema.S, **P. Anusha

Department of Computer Applications

Sri Sarada College for Women (Autonomous),

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Affiliated to Manonmaniam Sundaranar university

Tirunelveli-627012

Email: 2020uca18.pre@gmail.com

Abstract

Online Examination represents the examination through cyberspace. This project will help the Institution to evaluate the question through an auto-grading system. It contains objective-type Questions with multi-options. This project helps the management to conduct online examinations and save resources. The Institution can conduct the online examination and announce the result. To provide a username and password facility, credentials should be checked properly at the time of login for a student. When the student starts the exam, the timer will start spontaneously. The questions will be displayed randomly from the question bank. Objective answers will be checked spontaneously by the system from the database. When they move on other tabs or other browsers while attending the exam, this System gives the alert message and they get automatically logout from the current page.

Keywords: Cyberspace, Auto-grading, Spontaneous, Resources, Credentials.

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Tirunelveli- 627011, Tamilnadu, South India
Website: www.srisaradacollege.org

MERIT CERTIFICATE

This is to certify that

Dr/Ms/Mr Selvi S.M. ABINAYA III BCA
SRI SARADA COLLEGE FOR WOMEN AUTONOMOUS - TIRUNELVELI

*has Participated/ Presented/ Published a paper/ Chaired/ served as
session chairperson/ Editorial Board member/ in this International meet
held on 13th MARCH 2023 at Sri Sarada College campus.*

His/ Her contribution is highly acknowledged and commended.

Kamala

Principal
Smt). N .Kamala

M. Malini

Director & Head
Dr (Smt). M. Malini

B. Parvathi Devi

Convener
Dr (Smt). B. Parvathi Devi



IMPLEMENTATION OF CHESS GAME SYSTEM USING MACHINE LEARNING

A project work report submitted to the
Department of Computer Applications
In partial fulfilment of the requirements for the award of the degree of
BACHELOR OF COMPUTER APPLICATIONS



Submitted in November 2022 by

N.V. BHARGAVI - 2020UCA06
C.PECHIAMMAL - 2020UCA17
R. SARANYA - 2020UCA21

Under the Guidance of

M.SUDARVENI@SUBHA MCA.,M.Phil.,DGT,
Assistant Professor, Department of Computer Applications

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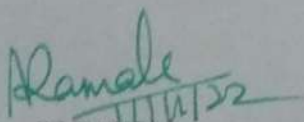
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Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

Tirunelveli-627 011, Tamilnadu, India

CERTIFICATE

This is to certify that this project work titled "IMPLEMENTATION OF CHESS GAME SYSTEM USING MACHINE LEARNING" is a bonafied work of N.V.BHARGAVI, C.PECHIAMMAL, R.SARANYA of Final Year of Computer Applications, Sri Sarada College For Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF COMPUTER APPLICATIONS** during the academic year 2022-2023.

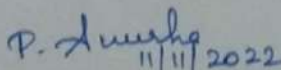


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TIRUNELVELI - 627 011

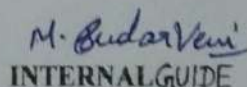


HEAD OF THE DEPARTMENT

HEAD, DEPARTMENT OF COMPUTER APPLICATIONS

SRI SARADA COLLEGE FOR WOMEN
(Autonomous)

TIRUNELVELI - 627 011.



INTERNAL GUIDE


EXTERNAL EXAMINER



DECLARATION

We do hereby declare that this project work titled "**IMPLEMENTATION OF CHESS GAME SYSTEM USING MACHINE LEARNING**" Was carried out by all of us jointly for the award of the degree of **BACHELOR OF COMPUTER APPLICATIONS** is our original work.



N.V. Bhargavi
(N.V.BHARGAVI)



C. Pechiammal
(C.PECHIAMMAL)



R. Saranya
(R.SARANYA)

M. BudarVeni
Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhava priya's blessings. We wish to convey our respect to our Principal Dr.(Smt). N.Kamala., M.Com., Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt.P. Anusha., MCA., M.Phil., DGT., Assistant Professor & Head, Department of Computer Applications for her constant encouragement.

We would like to thank Dr. S. Sethu M.Sc (Psy)., M.Sc (Yoga)., M.P.Ed., M.Phil., Ph.D., PGDY, CNIS, Assistant Professor, Dept of Physical Education and Sports, Manonmaniam Sundaranar University, Tirunelveli for his valuable support

We submit our honest and humble reverence to our guide Smt.,M.Sudarveni@Subha CA.,M.Phil.,DGT,Assistant Professor of Computer Applications for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

IPL DATA ANALYSIS AND VISUALIZATION USING PYTHON

A project work report submitted to the
Department of Computer Applications
In partial fulfillment of the requirements for the award of the degree of
BACHELOR OF COMPUTER APPLICATIONS



Submitted in November 2022 by

K.INDHUSELVI	-2020UCA09
S.KALEESWARI	-2020UCA11
M.AMBIKA	-2020UCA04

Under the Guidance of
Selvi.S.VIMALA,MCA.,M.Phil.,
Assistant Professor, Department of Computer Applications
SRI SARADA COLLEGE FOR WOMEN

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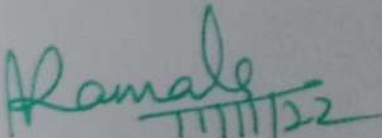
Institution recognized u/s 2(f) and 12(B) of UGC & Re-accredited with 'A' Grade by NAAC

(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

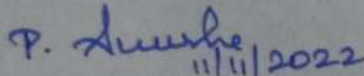
Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,
TIRUNELVELI-627 011, TAMIL NADU, INDIA.

CERTIFICATE

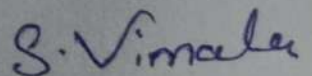
This is to certify that this project work titled "IPL DATA ANALYSIS AND VISUALIZATION USING PYTHON" is a bonafide work of K.INTHUSELVI, M.AMBIKA, S.KALEESWARI, of Final Year of Computer Applications, Sri Sarada College For Women (Autonomous), Tirunelveli-627 011 in partial fulfillment of the requirements for the award of degree of **BACHELOR OF COMPUTER APPLICATIONS** during the academic year 2022-2023.


11/11/22

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TIRUNELVELI - 627 011.



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11/11/22
EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project work titled **"IPL DATA ANALYSIS AND VISUALIZATION PYTHON"** Was carried out by all of us jointly for the award of the degree of **BACHELOR OF COMPUTER APPLICATIONS** is our original work.



K. Indhuselvi
(K.INDHUSELVI)



S. Kaleeswari
(S.KALEESWARI)



M. Ambika
(M.AMBIKA)

S. Vimala

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt)N. Kamala,M.Com.,M.Phil.,NET.,PGDCA.,Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt.P. Anusha., MCA., M.Phil., DGT., Assistant Professor & Head, Department of Computer Applications for her constant encouragement. I would like to thank Mr.Sethu for his valuable support.

We all submit our honest and humble reverence to our guide Ms.S.Vimala., MCA.,M.Phil., Assistant Professor of Computer Applications for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

ONLINE VOTING SYSTEM

A project work report submitted to the
Department of Computer Applications
In partial fulfillment of the requirements for the award of the degree of
BACHELOR OF COMPUTER APPLICATIONS



Submitted in April 2023 by

M.AARTHI - 2020UCA01
S.SANGEETHA - 2020UCA19
C.K.SANTHIYA - 2020UCA20

Under the Guidance of

Dr.(Smt).B.Parvathi Devi.,MCA.,M.Phil.,Ph.D.,
Assistant Professor, Department of Computer Applications
SRI SARADA COLLEGE FOR WOMEN
(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627 011)
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(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)
Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,
TIRUNELVELI-627 011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this project work titled "ONLINE VOTING SYSTEM" is a bonafide work done by M.AARTHI, S.SANGEETHA, C.K.SANTHIYA of Final Year of Computer Applications, Sri Sarada College for Women (Autonomous), Tirunelveli-627 011 in partial fulfillment of the requirements for the award of degree of BACHELOR OF COMPUTER APPLICATIONS during the academic year 2022-2023.

Ramale
28/4/23
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TIRUNELVELI - 627 011

P. Lube
28.4.2023
HEAD OF THE DEPARTMENT
HEAD, DEPARTMENT OF COMPUTER APPLICATIONS
SRI SARADA COLLEGE FOR WOMEN
(Autonomous)
TIRUNELVELI - 627 011,
A. Parvath
4/5/23
EXTERNAL EXAMINER

B. Parthip
INTERNALGUIDE



DECLARATION

We do hereby declare that this project work titled "ONLINE VOTING SYSTEM " was carried out by all of us jointly for the award of the degree of BACHELOR OF COMPUTER APPLICATIONS is our original work.



M. Aarthi
(M.AARTHI)



S. Sangeetha
(S.SANGEETHA)



Santhiya
(C.K.SANTHIYA)


Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya nba's blessings. We wish to convey our respect to our Principal .(Smt).N.Kamala.,M.Com., M.Phil.,NET.,PGDCA.,Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank it.P.Anusha..MCA.,M.Phil.,DGT., Assistant Professor & Head, Department of mputer Applications for her constant encouragement.

We all submit our honest and humble reverence to our guide .(Smt).B.ParvathiDevi.,MCA.,M.Phil.,Ph.D.,Assistant Professor of Computer applications for her consistent review, constructive suggestion and critical interpretation oughout the work which enabled us to complete this project harmoniously and cessfully.

We further acknowledge the inquisitive interactions of faculty members at the artment, our beloved parents and siblings at home and our classmates and ntemporary graduate friends who have rendered their help and time directly and irectly.

IMPLEMENTING THE AUTOMATED ATTENDANCE SYSTEM USING FACE RECOGNITION TECHNIQUE

A project work report submitted to the
Department of Computer Applications
In partial fulfilment of the requirements for the award of the degree of
BACHELOR OF COMPUTER APPLICATIONS



Submitted in April 202 by

UMA DEVI S - 2020UCA23
SUMATHY S - 2020UCA22
NIKILA V - 2020UCA16

Under the Guidance of
Dr. M. Malini

Director & Head of PG, Department of Computer Applications
SRI SARADA COLLEGE FOR WOMEN
(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli-627 011)

Institution recognized u/s 2(f) and 12(B) of UGC & Re-accredited with 'A' Grade by NAAC
(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai) Ariyakulam,
Maharaja Nagar Post, Thoothukudi NH,
Tirunelveli-627 011, Tamil Nadu, India.

CERTIFICATE

This is to certify that this project work titled **"IMPLEMENTING THE AUTOMATED ATTENDANCE SYSTEM USING FACE RECOGNITION TECHNIQUE"** is a bonafied work of S.SUMATHY, V.NIKILA, S.UMA DEVI of Final Year of Computer Applications, Sri Sarada College For Women (Autonomous), Tirunelveli-627 011 in partial fulfilment of the requirements for the award of degree of **BACHELOR OF COMPUTER APPLICATIONS** during the academic year 2022-2023.

Ramade
27/4/23
PRINCIPAL

PRINCIPAL
SRI SARADA COLLEGE FOR WOMEN
(Autonomous)
TIRUNELVELI - 627 011

P. Anurag
27.4.2023
HEAD OF THE DEPARTMENT
HEAD, DEPARTMENT OF COMPUTER APPLICATIONS
SRI SARADA COLLEGE FOR WOMEN
(Autonomous)
TIRUNELVELI - 627 011.

A. Ravi
6/5/23
EXTERNAL EXAMINER

Dr. K. Mahalingam
28/4/23
INTERNAL GUIDE
(Dr. K. Mahalingam)



DECLARATION

We do hereby declare that this project work titled “**IMPLEMENTING THE AUTOMATED ATTENDANCE SYSTEM USING FACE RECOGNITION TECHNIQUE**” Was carried out by all of us jointly for the award of the degree of **BACHELOR OF COMPUTER APPLICATIONS** is our original work.



S. Uma devi
(S.UMA DEVI)



S. Sumathy
(S.SUMATHY)



V. Nikila
(V.NIKILA)

A handwritten signature in blue ink, appearing to be 'S. Uma devi' with a date '28/12/23' written below it.

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr. (Smt).N. Kamala., M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With a deep sense of respect, we profusely thank Smt.P. Anusha., MCA., M.Phil., DGT., Assistant Professor & Head, Department of Computer Applications for her constant encouragement.

We all submit our honest and humble reverence to our guide Dr.Smt.M.Malini., The Director & Head of PG, Department of Computer Applications for her consistent review, constructive suggestion, and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home, and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

ONLINE UNITED CARGO MANAGEMENT SYSTEM

A project work report submitted to the
Department of Computer Applications
In partial fulfilment of the requirements for the award of the degree of
BACHELOR OF COMPUTER APPLICATIONS



Submitted in November 2022 by
R. ALAMELUMANGAI -2020UCA03
K. KARTHIKA -2020UCA13
V. KALPANA PRABHA -2020UCA12

Under the Guidance of
SELVI. V.DURGA JAYANTHI M.Sc., M.Phil.,
Assistant Professor, Department of Computer Applications
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Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,

TIRUNELVELI-627 011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this project work titled "ONLINE UNITED CARGO MANAGEMENT SYSTEM" is a bonafide work of R.ALAMELUMANGAI, K.KARTHIKA, V. KALPANA PRABHA of Final Year of Computer Applications, Sri Sarada College For Women (Autonomous), Tirunelveli-627011 in partial fulfilment of the requirements for the award of degree of BACHELOR OF COMPUTER APPLICATIONS during the academic year 2022-2023.

Ramale
11/11/22
PRINCIPAL

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P. Luvu
11/11/2022
HEAD OF THE DEPARTMENT

HEAD, DEPARTMENT OF COMPUTER APPLICATIONS
SRI SARADA COLLEGE FOR WOMEN
(Autonomous)
TIRUNELVELI - 627 011.

V. Durga Jayanthi
INTERNAL GUIDE

[Signature]
EXTERNAL EXAMINER



DECLARATION

We do hereby declare that this project work titled "ONLINE UNITED CARGO MANAGEMENT SYSTEM" was carried out by all of us jointly for the award of the degree of BACHELOR OF COMPUTER APPLICATIONS is our original work.



R. Alamelumangai
(R. ALAMELUMANGAI)



K. Karthika
(K. KARTHIKA)



V. Kalpana Prabha
(V. KALPANA PRABHA)

V. Durga Jayanthi
Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt) N.Kamala, M.Com., M.Phil., NET., PGDCA., Ph.D., for her ceaseless support.

With deep sense of respect, we profusely thank Smt. P.Anusha, MCA.,M.Phil. DGT., Head, Department of Computer Applications for her constant encouragement.

We all submit our honest and humble reverence to our guide Selvi. V. Durga Jayanthi, M.Sc., M.Phil., for her consistent review, constructive suggestion and critical interpretation throughout the work which enabled us to complete this project harmoniously and successfully.

We further acknowledge the inquisitive interactions of faculty members at the department, our beloved parents and siblings at home and our classmates and contemporary graduate friends who have rendered their help and time directly and indirectly.

ONLINE FOOD ORDERING WEBSITE IN e-COMMERCE

A project work report submitted to the
Department of Computer Applications
In partial fulfillment of the requirements for the award of the degree of
BACHELOR OF COMPUTER APPLICATIONS



Submitted in April 2023 by

M. MARIAMMAL	-2020UCA14
J. BHUVANA	-2020UCA07
T. ESAKKIAMMAL	-2020UCA08

Under the Guidance of
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Institution recognized u/s 2(f) and 12(B) of UGC & Re-accredited with 'A' Grade by NAAC
(A Branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)
Ariyakulam, Maharaja Nagar Post, Thoothukudi NH,
TIRUNELVELI-627 011, TAMIL NADU, INDIA.

CERTIFICATE

This is to certify that this project work titled "ONLINE FOOD ORDERING WEBSITE IN e-COMMERCE" is a bonafide work done by M.MARIAMMAL, J.BHUVANA, T.ESAKKIAMMAL Final Year of Computer Applications, Sri Sarada College For Women (Autonomous), Tirunelveli-627 011 in partial fulfillment of the requirements for the award of degree of **BACHELOR OF COMPUTER APPLICATIONS** during the academic year 2022-2023.

Ramale
27/4/23.

PRINCIPAL

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P. Suresh
27.4.2023

HEAD OF THE DEPARTMENT

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SRI SARADA COLLEGE FOR WOMEN

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TIRUNELVELI - 627 011.

A. Ramale
4/5/23

EXTERNAL EXAMINER

P. Suresh

INTERNAL GUIDE



DECLARATION

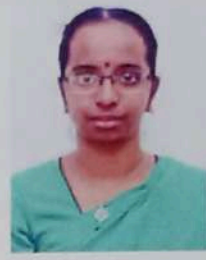
We do hereby declare that this project work titled **"ONLINE FOOD ORDERING WEBSITE IN e-COMMERCE"** was carried out by all of us jointly for the award of the degree of **BACHELOR OF COMPUTERAPPLICATIONS** is our original work.



M. Mariammal
(M.MARIAMMAL)



J. Bhuvana
(J.BHUVANA)



T. Esakkiammal
(T.ESAKKIAMMAL)

P. Ananda

Signature of the Internal Guide

ACKNOWLEDGEMENT

We express our deep gratitude to our Secretary Yatiswari Saravanabhavapriya Amba's blessings. We wish to convey our respect to our Principal Dr.(Smt).N.Kamala.,M.Com.,M.Phil.,NET.,PGDCA.,Ph.D., for her ceaseless support.

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