


**A HISTORY OF THE COASTLINES OF CENTRAL KERALA, AN EVALUATION
STUDY USING GIS AND REMOTE SENSING**

**Dissertation submitted
in partial fulfillment for the award of Degree of
MASTER OF SCIENCE IN APPLIED GEOLOGY**



Submitted by,
NAZAR ABDUL RASHEED
Register NO: CCATMAG012

**DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE CHRIST
COLLEGE (AUTONOMOUS), IRINJALAKUDA, KERALA, 680125**
(Affiliated to University of Calicut and re-accredited by NAAC with A grade)


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This to certify that the dissertation entitled, "A HISTORY OF THE COASTLINES OF CENTRAL KERALA, AN EVALUATION STUDY USING GIS AND REMOTE SENSING" is a bonafied record of genuine work done by Mr. NAZAR ABDUL RASHEED (Reg. No. CCATMAG012), MSc. Applied Geology Christ College (Autonomous) Irinjalakuda under the guidance of **GOPAKUMAR P G**, Assistant Professor, Department Geology and Environmental Science, Christ College Irinjalakuda, in partial fulfillment of requirements for the degree of Master of Science (Applied Geology) during the year 2019-2021.



GOPAKUMAR PG

Assistant Professor.

Dept. of Geology and Environmental science.

Christ College (Autonomous) Irinjalakuda.


Kerala- 680125.

Place:

Date:

External Examination

1



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A REVIEW ON THE 'MAKING' AND 'BREAKING' OF
CHARNOCKITES IN SOUTHERN KERALA: PETROGENETIC AND
TECTONIC IMPLICATIONS**

**Dissertation submitted
in partial fulfilment for the award of Degree of
MASTER OF SCIENCE
in
APPLIED GEOLOGY**



By,

NEELIMA N

Reg. No: CCATMAG013

2019-2021

**DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA, KERALA, 680125
(Affiliated to University of Calicut and re-accredited by NAAC with A grade)**

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the dissertation entitled — **A REVIEW ON THE 'MAKING' AND 'BREAKING' OF CHARNOCKITES IN SOUTHERN KERALA: PETROGENETIC AND TECTONIC IMPLICATIONS** is a bonafide record of work done by **Ms. Neelima N** (Reg. No. CCATMAG013), M.Sc. Applied Geology, Christ College (Autonomous), Irinjalakuda, under my guidance in partial fulfilment of requirements for the degree of Master of Science in Applied Geology during the year 2019-2021.

Ms. Asha Merin Jolly
Assistant Professor,
Dept. of Geology and Environmental Science,
Christ College (Autonomous), Irinjalakuda
Kerala- 680125


Place: Irinjalakuda

Date:

External Examiners:

1.....

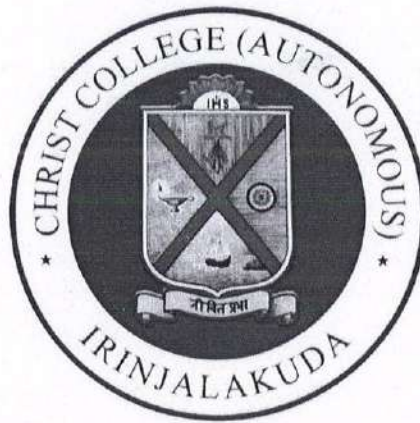
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Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**GROUNDWATER QUALITY ASSESSMENT AND WATER QUALITY INDEX (WQI)
MAPPING OF PHREATIC AQUIFER SYSTEM, PALAKKAD DISTRICT, KERALA**

**Dissertation submitted
in partial fulfillment for the award of Degree of
MASTER OF SCIENCE
in
APPLIED GEOLOGY**



By,

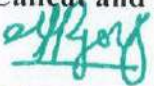
REMITHA RAJAN

Reg no: CCATMAG014

2019 - 2021

**DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA, KERALA, 680125
(Affiliated to University of Calicut and re-accredited by NAAC with A grade)**




Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous),
Irinjalakuda

CERTIFICATE

This is to certify that the Dissertation entitled – “GROUNDWATER QUALITY ASSESSMENT AND WATER QUALITY INDEX (WQI) MAPPING OF PHREATIC AQUIFER, PALAKKAD DISTRICT, KERALA” is a bonafide record of work done by Ms. REMITHA RAJAN (Reg No. CCATMAG014), M.Sc. Applied Geology, Christ College (Autonomous), Irinjalakuda, under my guidance in partial fulfillment of requirements for the degree of Master of Science in Applied Geology during the year 2019-2021.



Dr. Swetha T.V

Assistant Professor

Dept. of Geology and Environmental Science,

Christ College (Autonomous), Irinjalakuda,

Kerala – 680125

Place: Irinjalakuda

Date:

External Examiners;

1

2

3



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

**COMPARATIVE STUDY OF MORPHOMETRIC PARAMETERS OF
KURUMALI RIVER BASIN, KERALA, USING MULTISOURCE
GEOSPATIAL DATA**

**Dissertation submitted
in partial fulfilment for the award of Degree of
MASTER OF SCIENCE
in
APPLIED GEOLOGY**



By,
SACHIN VALLATH
Reg.No: CCATMAG015
2019-2021

**DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA, KERALA, 680125**
(Affiliated to University of Calicut and re-accredited by NAAC with A grade)


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This to certify that the dissertation entitled, **“COMPARATIVE STUDY OF MORPHOMETRIC PARAMETERS OF KURUMALI RIVER BASIN, KERALA, USING MULTISOURCE GEOSPATIAL DATA”** is a bonafide record of genuine work done by **Mr. SACHIN VALLATH (Reg. No. CCATMAG015)**, MSc. Applied Geology Christ College (Autonomous), Irinjalakuda under my guidance for the partial fulfillment of requirements for the degree of Master of Science (Applied Geology) during the year 2019-2021. It is further certified that this project report has not been previously form the base for award of any Degree, Diploma, Fellowship or other similar title of recognition by any other university or institution.



Mr. Tharun R

Assistant Professor


Dept. of Geology and Environmental science

Christ College (Autonomous) Irinjalakuda

Kerala- 680125

Place:

Date:



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



External Examination

1

2

3

20

**COMPARITIVE STUDY ON ANATOMY AND PHYTOCHEMICAL ANALYSIS
OF *SAUROPOUS ANDROGYUS* (L.)Merr AND *TALINUM
PROTULACIFOLIUM*(FORSSK.)**

Dissertation submitted to

CHRIST COLLAGE (AUTONOMUS), IRINJALAKUDA

(Affiliated to university of Calicut)

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

MASTER OF SCIENCE IN BOTANY

Submitted by

NIRMALYA P PRADEEP

Reg. No: CCATMBTO12

Under the guidance of

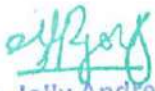
Mrs. SWEETY M.S



DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

SEPTEMBER 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTOMONOUS) IRINJALAKUDA

(Affiliated to University of Calicut & Nationally re- accredited by

NAAC with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled **"COMPARATIVE STUDY ON ANATOMY AND PRELIMINARY PHYTOCHEMICAL ANALYSIS OF SAUROPOUS ANDROGYNOUS (L)Merr AND TALINUM PROTULACIFOLIUM (Forssk)"** submitted to Christ college (Autonomous), Irinjalakuda, affiliated to the University of Calicut for the partial fulfilment for the award of the degree of **master of science in Botany**, Christ College (Autonomous), Irinjalakuda is bonafied record of the research work carried out by **Miss. NIRMALYA P PRADEEP, Reg.No:CCAMBT012** IV th semester M.sc Botany under the supervision and guidance of **Mrs. Sweety M. S**, Guest Lecturer, Department of Botany Christ College (Autonomous), Irinjalakuda. It is also certifying that no part of the present work has formed basis for the award of any other degree or diploma previously.

Irinjalakuda

Date:

Prof.E.J. Vincent

co-ordinator

PG Department of Botany

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**COMPARATIVE ALLELOPATHIC EFFECT OF THREE WEED
EXTRACTS *Cleome rutidosperma* DC., *Tridax procumbens* L. and
Wedelia trilobata (L.) HITCHC. ON SEED GERMINATION AND
SEEDLING GROWTH OF *Abelmoschus esculentus* L. and *Vigna unguiculata*
(L.) WALP.**

Dissertation submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

In partial fulfilment of the required for the requirement for the award of the Degree of

MASTER OF SCIENCE IN BOTANY

Submitted by

JALWA KP

Reg. No: CCATMBT010

Under the guidance of,

Miss. SWEETY. M. S



DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

JUNE 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut & Nationally re-accredited by NAAC with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled “**COMPARATIVE ALLELOPATHIC EFFECT OF THREE WEED EXTRACTS *Cleome rutidosperma* DC., *Tridax procumbens* L. and *Wedelia trilobata* (L.) HITCHC. ON SEED GERMINATION AND SEEDLING GROWTH OF *Abelmoschus esculents* L. AND *Vigna unguiculata* (L.) WALP**”. Submitted to Christ College (Autonomous) Irinjalakuda, affiliated to the University of Calicut for the partial fulfilment for the award of the degree of **Master of science in Botany**, Christ College (Autonomous), Irinjalakuda is a bonafide record of the research work carried out by **Miss. JALWA KP, Reg. No. CCATMBT010** IVth semester M.Sc. Botany under the supervision and guidance of **Miss Sweety. M.S.** Assistant Prof, Department of Botany, Christ College (Autonomous), Irinjalakuda. It is also certifying that no part of the present work has formed the basis for the award of any other degree or diploma previously.


Prof. E.J. Vincent

Co-ordinator, PG Department of Botany

Irinjalakuda

Date:

Signature of Examiners:

1.

2.


Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**COMPARATIVE STUDY ON IMPACT OF AIR POLLUTION ON LEAF
MORPHOLOGY, ANATOMY AND CHLOROPHYLL CONTENT OF SIX
SELECTED PLANT SPECIES GROWING IN TWO SELECTED SITES OF
SHORANUR**

Dissertation submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

In partial fulfillment of the requirement for the award of the Degree of

MASTER OF SCIENCE IN BOTANY

Submitted by

ASWATHY V. S.

Reg. No: CCATMBT006

Under the guidance of,

Mrs. SWEETY M. S.



DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

JUNE 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)





DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

(Affiliated to University of Calicut & Nationally re-accredited by NAAC with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled "**COMPARATIVE STUDY ON IMPACT OF AIR POLLUTION ON LEAF MORPHOLOGY, ANATOMY AND CHLOROPHYLL CONTENT OF SIX SELECTED PLANT SPECIES GROWING IN TWO SELECTED SITES OF SHORANUR**" submitted to Christ College (Autonomous), Irinjalakuda, affiliated to the University of Calicut for the partial fulfillment for the award of the degree of **Master of Science in Botany**, Christ College (Autonomous), Irinjalakuda is a bonafide record of the research work carried out by **Miss. ASWATHY V. S., Reg. No: CCATMBT006** IVth semester M. Sc. Botany under the supervision and guidance of **Mrs. Sweety M. S.,** Guest Lecturer, Department of Botany Christ College (Autonomous), Irinjalakuda. It is also certifying that no part of the present work has formed the basis for the award of any other degree or diploma previously.

Irinjalakuda

Date :

Prof. E. J. VINCENT

Co-ordinator

P. G. Department of Botany

Christ College, Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A PRELIMINARY STUDY ON TAXONOMIC, ETHANO BOTANICAL
AND INVASIVE NATURE OF PLANTS IN KUNNAMANGALAM
GRAMAPANCHAYATH**

KOZHIKODE

DISTRICT KERALA

Dissertation Submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

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

MASTER OF SCIENCE IN BOTANY

Submitted by

RANJIMA M

Reg. No: CCATMBT0013

Under the guidance of,

Prof. JACOB ABRAHAM PULIKAL

ASSOCIATE PROFESSOR



POST GRADUATE DEPARTMENT OF BOTANY

CHRIST COLLEGE, IRINJALAKKUDA (AUTONOMOUS)

Assistant Professor-
In-charge
JUNE 2021
Christ College (Autonomous)
Irinjalakuda





POST GRADUATE DEPARTMENT OF BOTANY
CHRIST COLLEGE, (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut & Nationally accredited with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled "**A PRELIMINARY STUDY ON TAXONOMIC, ETHANO BOTANICAL AND INVASIVE NATURE OF PLANTS IN KUNNAMANGALAM GRAMAPANCHAYATH, KOZHIKODE DISTRICT KERALA**" submitted to the University of Calicut by Ms.Ranjima M, Reg. No. CCATMBT0013, 4th Semester M.Sc. Botany in partial fulfillment for the award of the degree of Master of Science in Botany is a bonafide record of the research work carried out by her under the supervision and guidance of Prof. Jacob Abraham Pulikal, Associate Professor, Department of Botany, Christ College, Irinjalakuda. No part of the present work has formed the basis for the award of any other degree or diploma previously.

Prof.E.J.Vincent

Co-ordinator
PG Department of Botany
Christ college(Autonomous)
Irinjalakkuda

Irinjalakkuda

Date:

Examiners

1:

2

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



20

**A FLORISTIC STUDY AND MEDICINAL USES OF
PLANTS IN UNNIKULAM GRAMAPANCHAYATH,CALICUT
DISTRICT KERALA .**

**Dissertation Submitted to
CHRIST COLLEGE(AUTONOMOUS),IRINJALAKUDA
(Affiliated to University of Calicut)**

**In partial fulfillment of the requirement for the award of the degree of
MASTER OF SCIENCE IN BOTANY**


**Submitted by
ADHITHYA P RATHISH
Reg. No: CCATMBT001**

**Under the guidance of,
Prof. JACOB ABRAHAM PULIKAL
ASSOCIATE PROFESSOR**



**POST GRADUATE DEPARTMENT OF BOTANY
CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)**

JUNE, 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





**POST GRADUATE DEPARTMENT OF BOTANY CHRIST COLLEGE, (AUTONOMOUS),
IRINJALAKUDA**

(Affiliated to University of Calicut & Nationally accredited with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled "**A FLORISTIC STUDY AND MEDICINAL USES OF PLANTS IN UNNIKULAM GRAMAPANCHAYATH, KOZHIKODE DISTRICT KERALA**" submitted to the University of Calicut by **Ms. ADHITHYA P RATHISH, Reg. No. CCATMBT001**, 4th Semester M.Sc. Botany in partial fulfillment for the award of the degree of Master of Science in Botany is a bonafide record of the research work carried out by her under the supervision and guidance of **Prof. Jacob Abraham Pulikal, Associate Professor**, Department of Botany, Christ College, Irinjalakuda. No part of the present work has formed the basis for the award of any other degree or diploma previously.

Prof. E. J. Vincent

Co-ordinator

PG Department of
Christ College (Autonomous)
Irinjalakuda

Irinjalakuda

Date:
Botany

Examiners :

- 1.
- 2.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**ALLELOPATHIC ACTIVITY OF *Pueraria phaseoloides* (Roxb.)
Benth. ON SEED GERMINATION AND SEEDLING GROWTH
OF *Vigna unguiculata* (L.) Walp.**

Dissertation submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

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

MASTER OF SCIENCE IN BOTANY

Submitted by

FATHIMA MOHAMMED SAUD

Reg no: CCATMBT009

Under the guidance of,

SABEENA A.M

Guest lecturer, Department of Botany

Christ College(Autonomous),

Irinjalakuda



DEPARTMENT OF BOTANY

Assistant Professor-

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Christ College (Autonomous)

JUNE 2021





DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut & Nationally accredited with A grade)

CERTIFICATE

This is to certify that the dissertation entitled “*Allelopathic activity of Pueraria phaseoloides* (Roxb.) Benth. on seed germination and seedling growth of *Vigna unguiculata* (L.) Walp.” Submitted by Miss **FATHIMA MOHAMMED SAUD**, Reg.No. **CCATMBTOO9** IVth semester M.Sc. Botany in partial fulfillment for the award of degree **Master of Science in Botany**, Christ College (Autonomous), Irinjalakuda is a bonafide record of the research work carried out by her under the supervision and guidance of **Sabeena.A.M**, Guest lecturer, Department of Botany, Christ College(Autonomous), Irinjalakuda.

Irinjalakuda

Date :

Prof.E.J.Vincent

Coordinator

P. G. Department of Botany

Signature of Examiners:

1.....

2.....

Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



**PHYTOREMEDIATION OF DOMESTIC WASTE WATER
USING THE PLANT *Canna indica* L.**

Dissertation submitted to

CHRIST COLLEGE (AUTONOMOUS),IRINJALAKUDA

(Affiliated to University of Calicut)

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

MASTER OF SCIENCE IN BOTANY

Submitted by

BINCY DAVIS

Reg no:CCATMBT008

Under the guidance of,

SABEENA A.M

Guest lecturer, Department of Botany


Christ College(Autonomous),Irinjalakuda



DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA JUNE 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

**(Affiliated to University of Calicut & Nationally accredited with A
grade) CERTIFICATE**

This is to certify that the dissertation entitled **“PHYTOREMEDIATION OF DOMESTIC WASTE WATER USING THE PLANT *Canna indica* L.”** Submitted by **Miss BINCY DAVIS Reg.No.CCATMBTOO8** IVth semester M.Sc. Botany in partial fulfillment for the award of degree **Master of Science in Botany**, Christ College (Autonomous), Irinjalakuda is a bonafide record of the research work carried out by her under the supervision and guidance of **Sabeena .A.M,** Guest lecturer, Department of Botany, Christ College(Autonomous),Irinjalakuda.

Irinjalakuda:

Prof.E.J.Vincent

Coordinator

PG Department of Botany

Date:

Signature of Examiners:

1.....

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

2.....



**PHYTOSOCIOLOGICAL ANALYSIS OF ANGIOSPERMIC
PLANTS AND THEIR MEDICINAL PROPERTIES IN WARD
VIII OF PUTHUR GRAMA PANCHAYATH, THRISSUR
DISTRICT, KERALA**

Dissertation submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

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

MASTER OF SCIENCE IN BOTANY

Submitted by

ANAMICA U S

Reg.No: CCATMBT005

Under the guidance of,

SABEENA A.M

Guest lecturer, Department of Botany
Christ College(Autonomous),
Irinjalakuda



Fr. Dr. Jolly Andrews
In-charge of Principal
Christ College (Autonomous)

**DEPARTMENT OF BOTANY
CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA JUNE**

2021



DEPARTMENT OF BOTANY
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
(Affiliated to University of Calicut & Nationally accredited with A
grade) CERTIFICATE

This is to certify that the dissertation entitled **“PHYTOSOCIOLOGICAL ANALYSIS OF ANGIOSPERMIC PLANTS AND THEIR MEDICINAL PROPERTIES IN WARD VIII OF PUTHUR GRAMA PANCHAYATH, THRISSUR DISTRICT, KERALA.”**

Submitted by **Miss ANAMICA U S** Reg. No. **CCATMBT005** IVth semester M.Sc. Botany in partial fulfillment for the award of degree **Master of Science in Botany**, Christ College (Autonomous), Irinjalakuda is a bonafide record of the research work carried out by her under the supervision and guidance of **Sabeena.A.M**, Guest lecturer, Department of Botany, Christ College (Autonomous), Irinjalakuda.

Irinjalakuda:
Vincent

Prof. E. J.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Coordinator
PG Department of Botany

**A PRELIMINARY TAXONOMIC INVESTIGATION ON THE
ECOLOGICAL AND ECONOMIC IMPORTANCE OF INVASIVE
ALIEN ANGIOSPERMS IN MARUTHONKARA
GRAMAPANCHAYATH , KOZHIKODE DISTRICT, KERALA**

Dissertation submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

In partial fulfillment of the requirement for the award of the Degree of

MASTER OF SCIENCE IN BOTANY

Submitted by

REJIN GEORGE

Reg. No: CCATMBT014

Under the guidance of,

Prof. E J VINCENT



DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

JUNE 2021

Fr. Dr. Jolly Andrews
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

(Affiliated to University of Calicut & Nationally re-accredited by NAAC with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled "**A PRELIMINARY TAXONOMIC INVESTIGATION ON THE ECOLOGICAL AND ECONOMIC IMPORTANCE OF INVASIVE ALIEN ANGIOSPERMS IN MARUTHONKARA GRAMAPANCHAYATH, KOZHIKODE DISTRICT, KERALA**" submitted to Christ College (Autonomous), Irinjalakuda, affiliated to the University of Calicut for the partial fulfillment for the award of the degree of Master of Science in Botany, Christ College (Autonomous), Irinjalakuda is a bonafide record of the research work carried out by **Mr. Rejin George., Reg. No: CCATMBT014** IVth semester M. Sc. Botany under the supervision and guidance of **Prof. E. J. Vincent.,** Co-ordinator, Department of Botany Christ College (Autonomous), Irinjalakuda. It is also certifying that no part of the present work has formed the basis for the award of any other degree or diploma previously.

Irinjalakuda

Date :

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

Prof. E. J. VINCENT

Co-ordinator

P. G. Department of
Botany Christ College,
Irinjalakuda



**COMPARATIVE STUDY ON MORPHOLOGY, ANATOMY AND
MYCOFLORA OF *Bambusa vulgaris* FROM POLLUTED AND
NON-POLLUTED SITES OF PUTHUR PANCHAYATH**

Dissertation Submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

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

MASTER OF SCIENCE IN BOTANY

Submitted by

VISMAYA SHIBU

Reg. No.: CCATMBT016

Under the guidance of,

Mrs. SREE LAKSHMI V. V



P.G DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

JUNE 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





P. G DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut & Nationally re-accredited by NAAC with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled "**COMPARATIVE STUDY ON MORPHOLOGY, ANATOMY AND MYCOFLORA OF *Bambusa vulgaris* FROM POLLUTED AND NON-POLLUTED SITES OF PUTHUR PANCHAYATH**" submitted to Christ College (Autonomous), Irinjalakuda, affiliated to the University of Calicut for the partial fulfilment for the award of the degree of Master of Science in Botany. Christ College (Autonomous), Irinjalakuda is a bonafide record of the research work carried out by **Mrs. VISMAYA SHIBU**, Reg. No: **CCATMBT016** Ivth semester M. Sc. Botany under the supervision and guidance of **Mrs. Sreelakshmi V. V.**, Assistant Professor, P. G. Department of Botany, Christ College (Autonomous), Irinjalakuda. It is also certifying that no part of the present work has formed the basis for the award of any other degree or diploma previously.

Irinjalakuda

Date:

Signature of the Examiners


1.

2.


Prof. E. J. Vincent

Co-ordinator

P. G. Department of Botany


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**ANATOMICAL AND PRELIMINARY PHYTOCHEMICAL
INVESTIGATION OF PLANT *Jatropha multifida* L. LEAVES**

Dissertation submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

In partial fulfillment of the requirement for the award of the Degree of

MASTER OF SCIENCE IN BOTANY

Submitted by

SARANYA VIJAYAN E.

Reg. No: CCATMBT015

Under the guidance of,

Mrs. SREELAKSHMI V. V.



DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

affg

AGUSUT 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut & nationally re-accredited by NAAC with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled "**ANATOMICAL AND PHYTOCHEMICAL INVESTIGATION OF *Jatropha multifida* L. LEAVES**" submitted to Christ College (Autonomous), Irinjalakuda, affiliated to the University of Calicut for the partial fulfillment for the award of the degree of **Master of Science in Botany**, Christ College (Autonomous), Irinjalakuda is a bonafide record of the research work carried out by **Mrs. SARANYA VIJAYAN E., Reg. No:CCATMBT015** IVth semester M.Sc. Botany under the supervision and guidance of **Mrs. Sreelakshmi V. V.,** Assistant Professor, Department of Botany Christ College(Autonomous), Irinjalakuda. It is also certifying that no part of the present work has formed the basis for the award of any other degree or diploma previously.

Irinjalakuda

Date:


Prof. E. J. Vincent

Co-ordinator

P. G. Department of Botany

Signature of the examiners:

1.
2.



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**PHYTOCHEMICAL INVESTIGATION OF LEAVES AND
STEMS EXTRACT OF *Glycosmis pentaphylla* (Retz.) Correa**

Dissertation submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

In partial fulfillment of the requirement for the award of the Degree of

MASTER OF SCIENCE IN BOTANY

Submitted by

AKHILA KHAN C. A

Reg. No: CCATMBT003

Under the guidance of,

Mrs. SREELAKSHMI V. V.



DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

24/8/21
AUGUST 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





DEPARTMENT OF BOTANY

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

(Affiliated to University of Calicut & nationally re-accredited by NAAC with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled "**Phytochemical investigation of leaves and stem extract of *Glycosmis pentaphylla* (Retz.) Correa**" submitted to Christ College (Autonomous), Irinjalakuda, affiliated to the University of Calicut for the partial fulfillment for the award of the degree of **Master of Science in Botany**, Christ College (Autonomous), Irinjalakuda is a bonafide record of the research work carried out by **Mrs. AKHILA KHAN C. A., Reg. No:CCATMBT003** IVth semester M.Sc. Botany under the supervision and guidance of **Mrs. Sreelakshmi V. V., Assistant Professor, Department of Botany Christ College (Autonomous), Irinjalakuda**. It is also certifying that no part of the present work has formed the basis for the award of any other degree or diploma previously.

Irinjalakuda

Date:


Prof. E. J. Vincent

Co-ordinator

P.G. Department of Botany

Signature of Examiners:

1:

2:


P. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON MYCOFLORA ASSOCIATED WITH SELECTED
SEEDS AND THE EFFECT OF THREE MEDICINAL PLANT
EXTRACT ON SEED VIABILITY AND SEEDLING GROWTH IN
VARIOUS CONCENTRATION**

Dissertation submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

(Affiliated to University of Calicut)

In partial fulfillment of the requirement for the award of the Degree of

MASTER OF SCIENCE IN BOTANY

Submitted by

AJIN GEORGE

Reg. No: CCATMBT002

Under the guidance of

Mrs. SREELAKSHMI V. V.



AJIN GEORGE

Fr. Dr. Jolly Andrews

DEPARTMENT OF BOTANY

In-charge of Principal

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

JUNE 2021





DEPARTMENT OF BOTANY
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
(Affiliated to University of Calicut & Nationally accredited with 'A' grade)

CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON MYCOFLORA ASSOCIATED WITH SELECTED SEEDS AND THE EFFECT OF THREE MEDICINAL PLANT EXTRACT ON SEED VIABILITY AND SEEDLING GROWTH IN VARIOUS CONCENTRATION" submitted to University of Calicut by **Mr. AJIN GEORGE.**, Reg. No. **CCATMBT002** 4th semester M. Sc Botany in partial fulfillment for the award of the degree of Master of Science in Botany is a bonofide record of the research work carried out by him, under the supervision and guidance of **Mrs. SREELAKSHMI V. V.** Assistant Professor, P. G. Department of Botany, Christ College, Irinjalakuda. No part of the present work has formed the basis for the award of any other degree or diploma previously.

Irinjalakuda

Date:

Signature of Examiners:

1.
2.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda


Prof. L. J. Vincent

Co-ordinator

P.G. Department of Botany



21

DEVELOPMENT OF ANION EXCHANGE MEMBRANE FOR FUEL CELL AND ZINC IRON REDOX FLOW BATTERIES

**Project work submitted to University Of Calicut in
partial fulfilment of the requirements for the award
of Degree**

**MASTER OF SCIENCE IN CHEMISTRY
BY
AMRUTHA ANTONY
CCATMCH001**

DEPARTMENT OF CHEMISTRY



**CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
2019-2021**

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





**PG Department of Chemistry, Christ College,
Irinjalakuda-680125, Thrissur**

17 June 2021

CERTIFICATE

Certified that the thesis entitled "**DEVELOPMENT OF ANION EXCHANGE MEMBRANE FOR FUEL CELL AND ZINC IRON REDOX FLOW BATTERIES**" Submitted by Ms. Amrutha Antony is an authentic record of project work carried out at PG, Department of Chemistry, Christ College, Irinjalakuda, by her under my supervision in partial fulfilment of the requirements for the degree of Master of Science in Chemistry and further that no part thereof has been presented before for any other degree.

Dr.V.T. Joy
(Supervising Guide)

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**FENTON AND PHOTO FENTON REACTION FOR THE
DEGRADATION OF WATER POLLUTANTS: A MINI REVIEW**

*Project report submitted to Christ College (Autonomous), in partial fulfilment
of the Curriculum for the fourth semester of*

MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED BY:
ANAYA YOHANNAN
(Reg.No: CCATMCH002)

UNDER THE GUIDANCE OF:
Dr. RANI VARGHESE
ASSISTANT PROFESSOR



asf/gary

PG AND RESEARCH DEPARTMENT OF CHEMISTRY
Fr. Dr. Jolly Andrews

Assistant Professor
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
Christ College (Autonomous)
Irinjalakuda

2019-2021



CERTIFICATE



Dr . Rani Varghese

Assistant professor

Department of Chemistry

Christ College (Autonomous) Irinjalakuda

This is to certify that ANAYA YOHANNAN (Reg. No : CCATMCH002) has carried out a review work entitled **"FENTON AND PHOTO FENTON REACTION FOR THE DEGRADATION OF WATER POLLUTANTS :A MINI REVIEW"** is an authentic record of the review work carried out by my supervision and guidance in the Department of Chemistry, Christ College, Irinjalakuda. It is further certified that this project report has not previously formed the basis for the award of any Degree, Diploma, Fellowship or other similar title of recognition by any other University or Institution.

A handwritten signature in black ink, appearing to be "Rani Varghese".

Dr.Rani Varghese

Forwarded by

Head of Department

External Examiner :

Place : Irinjalakuda

Date :

A handwritten signature in blue ink, appearing to be "Jolly Andrews".

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



SYNTHESIS AND BIOLOGICAL ACTIVITIES OF SCHIFF BASE COMPLEXES OF COPPER: A REVIEW

*Project report submitted to Christ College (Autonomous)
in partial fulfilment of the Curriculum for the fourth semester of*

MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED BY:

ANJU MARIA SYMON

(Reg.No: CCATMCH003)

UNDER THE GUIDANCE OF:


Dr. Digna Varghese

ASSISTANT PROFESSOR



**PG AND RESEARCH DEPARTMENT OF CHEMISTRY, CHRIST COLLEGE
(AUTONOMOUS), IRINJALAKUDA**

2019-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





PG Department of Chemistry, Christ College, Irinjalakuda-
680125, Thrissur

17 June 2021

CERTIFICATE

Certified that the thesis entitled "SYNTHESIS AND BIOLOGICAL ACTIVITIES OF SCHIFF BASE COMPLEXES OF COPPER: A REVIEW" submitted by Ms. Anju Maria Symon is an authentic record of project work carried out at PG & Research Department of Chemistry, Christ College (Autonomous), Irinjalakuda, by her under my supervision in partial fulfillment of the requirements for the degree of Master of Science in Chemistry and further that no part there of has been presented before for any other degree.

A handwritten signature in black ink, appearing to read "Digna Varghese".

Dr. Digna Varghese
(Supervising Guide)

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



THE GREEN SYNTHESIS, CHARACTERIZATION AND EVALUATION OF THE BIOLOGICAL ACTIVITIES OF SILVER NANO PARTICLES SYNTHESIZED FROM DIFFERENT PLANT EXTRACTS: A REVIEW

**PROJECT WORK SUBMITTED TO UNIVERSITY OF CALICUT IN PARTIAL
FULFILMENT OF THE REQUIREMENT FOR THE AWARD OF DEGREE**

MASTER OF SCIENCE IN CHEMISTRY

BY

ARDRA N R

Reg No: CCATMCH004

UNDER THE GUIDANCE OF

Dr ROBINSON PONMINI ESSARY

DEPARTMENT OF CHEMISTRY



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

2019-2021





CHRIST COLLEGE (Autonomous),

IRINJALAKUDA

**POSTGRADUATE & RESEARCH DEPARTMENT OF
CHEMISTRY**

IRINJALAKUDA NORTH, CHRIST COLLEGE RD

IRINJALAKUDA, KERALA-680125

PHONE(O): 0480 282 5258, (M): +91-8594030034

WEBSITE: www.christcollegeijk.edu.in

E-mail: robinsonpp@gmail.com

Date: 14th june 2021

Dr. Robinson Ponminiessary

Asst. Professor in Chemistry

CERTIFICATE

This is to certify that Ardra N.R. (Reg No. CCATMCH004) has carried out a review work entitled 'THE GREEN SYNTHESIS, CHARACTERIZATION AND EVALUATION OF THE BIOLOGICAL ACTIVITIES OF SILVER NANO PARTICLES SYNTHESIZED FROM DIFFERENT PLANT EXTRACTS' is an authentic record of review work carried out by my supervision and guidance in the Department of Chemistry, Christ college, Irinjalakuda. It is further certified that this project report has not previously formed the basis for the award of any Degree, Diploma, Fellowship or other similar title of recognition by any other university or institutions.


Dr. Robinson Ponminiessary


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



REVIEW ON SYNTHESIS OF BENZIMIDAZOQUINAZOLINONE DERIVATIVES: A PROMISING ANTICANCER DRUG ANALOGUE

*A dissertation submitted to University of Calicut in partial fulfilment of the requirements for
awarding the degree of*

**MASTER OF SCIENCE IN
CHEMISTRY**

**SUBMITTED BY
ARUN ROY
(Reg. No. CCATMCH005)
2019-2021**

**DISSERTATION ADVISOR: DR. TITTO VARUGHESE
Assistant Professor**



**PG AND RESEARCH DEPARTMENT OF CHEMISTRY
CHRIST COLLEGE, IRINJALAKUDA
THRISSUR-680125**

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

Dr. Titto Varughese

Assistant Professor

Department of Chemistry

Christ College (autonomous) Irinjalakuda

This is to certify that the thesis entitled **“REVIEW ON SYNTHESIS OF BENZIMIDAZOQUINAZOLINONE DERIVATIVES: A PROMISING ANTICANCER DRUG ANALOGUE”** submitted to the Department of Chemistry, Christ College (autonomous), Irinjalakuda for the award of the degree of **Master of Science in Chemistry** is the original work carried out by **ARUN ROY (CCATMCH005)** in the Department of Chemistry, Christ College (autonomous), Irinjalakuda under my supervision and guidance during the period of February 2021 to April 2021.

Dr. Titto Varughese

Supervisor's signature

Forwarded by

Head of Department

External examiner:

Place: Irinjalakuda

Date:

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



REVIEW ON MULTICOMPONENT REACTIONS

*Dissertation submitted to the Christ College (Autonomous) in partial
fulfilment of the requirements for the Degree of*

MASTER OF SCIENCE

IN

CHEMISTRY

Submitted by

ATHIRA C S

Reg. No: ---CCATMCH006-----

2019-2021

DISSERTATION ADVISOR: DR. ARUN S

ASSISSTANT PROFESSOR




PG AND RESEARCH DEPARTMENT OF CHEMISTRY

CHRIST COLLEGE, IRINJALAKUDA

THRISSUR-680125

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



	<p style="text-align: center;">CHRIST COLLEGE (Autonomous), IRINJALAKUDA POSTGRADUATE & RESEARCH DEPARTMENT OF CHEMISTRY</p> <p style="text-align: center;">IRINJALAKUDA NORTH, CHRIST COLLEGE RD, IRINJALAKUDA, KERALA 680125. PHONE (O): 0480 282 5258, (M): +91-8594030034. Website: www.christcollegeijk.edu.in, Email : arunkalazans@gmail.com</p>
<p>Date: 14 th June 2021</p>	<p style="text-align: center;">Dr. ARUN S Asst. Professor in chemistry</p>

CERTIFICATE

This is to certify that ATHIRA C S (Reg.No.--CCATMCH006-----) has carried out a review work entitled “**REVIEW ON MULTICOMPONENT REACTIONS**” is an authentic record of the review work carried out by my supervision and guidance in the Department of Chemistry, Christ College, Irinjalakuda. It is further certified that this project report has not previously formed the basis for the award of any Degree, Diploma, Fellowship or other similar title of recognition by any other university or Institutions.


Dr. ARUN S


Fr. Dr. Jolly Andrews
 Assistant Professor-
 In-charge of Principal
 Christ College (Autonomous)
 Irinjalakuda



**IN SILICO STUDIES OF INHIBITION EFFICIENCY OF
PYRAMIDINES DERIVATIVES AGAINST SARS COV-2
RECEPTORS**

*Dissertation submitted to the Christ College (Autonomous) in partial fulfilment
of the requirement for the Degree of*

MASTER OF SCIENCE

IN

CHEMISTRY

Submitted by

DEEPA T A

Reg. No: CCATMCH007

2019-2021

Under the guidance of

Dr.TOM CHERIAN



P.G AND RESEARCH DEPARTMENT OF CHEMISTRY

CHRIST COLLEGE, IRINJALAKUDA

THRISSUR-680125

Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda





CHRIST COLLEGE (Autonomous), IRINJALAKUDA.
POSTGRADUATE & RESEARCH DEPARTMENT OF CHEMISTRY
IRINJALAKUDA NORTH, CHRIST COLLEGE RD, IRINJALAKUDA, KERALA
680125.

PHONE (O): 0480 282 5258, (M): +91-8594030034.

Website: www.christcollegeijk.edu.in, Email : drtomcherian@gmail.com

Ref. CC/CHEM/TM/2019-2021

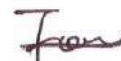
Date: 26th July 2021

Dr. Tom Cherian

Asst. Professor in Chemistry

CERTIFICATE

This is to certify that Deepa T A (Reg.No-CCATMCH007) has carried out a project work entitled '**IN SILICO STUDIES OF INHIBITION EFFICIENCY OF PYRAMIDINES DERIVATIVES AGAINST SARS COV-2 RECEPTORS**' is an authentic record of the research project carried out by my supervision and guidance in the Department of Chemistry, Christ College, Irinjalakuda. It is further certified that this project report has not previously formed the basis for the award of any Degree, Diploma, Fellowship or other similar title of recognition by any other university or Institutions.



Dr. Tom Cherian



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON RECENT PROGRESS IN ELECTROLYTE
FOR ZINC-AIR BATTERY: A MINI REVIEW**

*Project report submitted to Christ College (Autonomous), in partial fulfilment of the
Curriculum for the fourth semester of*

MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED BY:

KRISHNA SREENIVASAN

(Reg. No: CCATMCH008)

UNDER THE GUIDANCE OF:

Dr. JIBIN A. K.

ASSISTANT PROFESSOR



PG AND RESEARCH DEPARTMENT OF CHEMISTRY
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

THRISSUR-680125

2019-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify the project named "RECENT PROGRESS IN ELECTROLYTE FOR ZINC-AIR BATTERY" is an authentic record of project done by KRISHNA SREENIVASAN under guidance of Dr. JIBIN A. K. Assistant professor, Department of Chemistry, Christ college, Irinjalakuda (Autonomous) submitted to university of Calicut in partial fulfilment of the requirement for the degree of Master of Science in Chemistry.




Signature of the Head of the Department



Signature of Internal Guide

External Examiner

Date:



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**DEVELOPMENT OF ANION EXCHANGE
MEMBRANE FOR ALKALINE FUEL CELLS AND
REDOX FLOW BATTERIES**

A project work submitted to University of Calicut in partial
fulfilment of the requirement for awarding the degree of

MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED

BY

MARY SHERIN THOMAS

CCATMCH009

DEPARTMENT OF CHEMISTRY



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
2019-2021

all good
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

Dr.V.T.Joy

Assistant Professor

Department of Chemistry

Christ College (autonomous) Irinjalakuda

This is to certify that the thesis entitled **"DEVELOPMENT OF ANION EXCHANGE MEMBRANE FOR ALKALINE FUEL CELL AND REDOX FLOW BATTERIES"** submitted to the Department of Chemistry, Christ College (autonomous), Irinjalakuda for the award of degree of **Master of Science in Chemistry** is the original work carried out by **Mary Sherin Thomas (CCATMCH009)** in the Department of Chemistry, Christ College (autonomous), Irinjalakuda under my supervision and guidance during the period of July 2021.

Dr.V.T.Joy

Supervisor's signature

Forwarded by

Head of Department

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEGRADATION OF ATRAZINE BY ADVANCED OXIDATION PROCESSES: A MINI REVIEW

*Project report submitted to Christ College (Autonomous), in partial fulfillment
of the Curriculum for the fourth semester of*

MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED BY:

NAHLA

(Reg.No: CCATMCH010)

UNDER THE GUIDANCE OF:

Dr. RANI VARGHESE

ASSISTANT PROFESSOR



PG AND RESEARCH DEPARTMENT OF CHEMISTRY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

2019-2021





PG Department of Chemistry
Christ College (Autonomous)
Irinjalakuda-680125, Thrissur

CERTIFICATE

This is to certify that review work entitled **“DEGRADATION OF ATRAZINE BY ADVANCED OXIDATION PROCESSES: A MINI REVIEW”** is an authentic record of work carried out by my NAHLA under my supervision and guidance in the Department of Chemistry, Christ College, Irinjalakuda.in partial requirement for fulfillment of curriculum of MSc. Chemistry.

Dr. RANI VARGESE


Fr. Dr. Villy Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**SYNTHESIS AND CATALYTIC ACTIVITIES OF COPPER
COMPLEXES DERIVED FROM SCHIFF BASES: A REVIEW**

*Project report submitted to Christ College (Autonomous), in partial fulfilment
of the Curriculum for the fourth semester of*

MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED BY:

NILA CM

(Reg.No: CCATMCH011)

UNDER THE GUIDANCE OF:

Dr. Digna Varghese

ASSISTANT PROFESSOR



**PG AND RESEARCH DEPARTMENT OF CHEMISTRY,
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

2019-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





**PG Department of Chemistry, Christ College,
Irinjalakuda-680125, Thrissur**

17 June 2021

CERTIFICATE

Certified that the thesis entitled **“SYNTHESIS AND CATALYTIC ACTIVITIES OF COPPER COMPLEXES DERIVED FROM SCHIFF BASES: A REVIEW”** submitted by Ms. Nila C M is an authentic record of project work carried out at PG, Department of Chemistry, Christ College (Autonomous), Irinjalakuda, by her under my supervision in partial fulfillment of the requirements for the degree of Master of Science in Chemistry and further that no part thereof has been presented before for any other degree.

Dr. Digna Varghese
(Supervising Guide)

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**GREEN SYNTHESIS OF SILVER
NANOPARTICLES AND ITS USE AS CATALYST AND
AS SERS SUBSTRATE: A REVIEW**

Dissertation submitted to the Christ College (Autonomous) in

Partial fulfillment of the requirement for degree of

MASTER OF SCIENCE

IN

CHEMISTRY

Submitted by

SANDRA FRANCIS

Reg. No. —CCATMCH012—

2019-2021

Under the guidance of

Dr ROBINSON PONMINI ESSARY

Coordinator



P.G AND RESEARCH DEPARTMENT OF CHEMISTRY

CHRIST COLLEGE, IRINJALAKUDA


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

THRISSUR-680125





**CHRIST COLLEGE (Autonomous)
IRINJALAKUDA
POST GRADUATE & RESEARCH
DEPARTMENT OF CHEMISTRY**

Irinjalakuda North, Christ College Road,
Irinjalakuda, Kerala-680125.

Phone: 0480-2825258; +91-8594030034

Website: www.christcollegeijk.edu.in

E-mail: robinsonapp@gmail.com

Date: 14 JUNE 2021

Dr. Robinson Ponminiessary
Asst. Professor in Chemistry

CERTIFICATE

This is to certify that Sandra Francis (Reg no: CCATMCH012) has carried out a review work entitled '**GREEN SYNTHESIS OF SILVER NANOPARTICLES AND IT'S USE AS CATALYST AND AS SERS SUBSRATE**' is an authentic record of review work carried out by my supervision and guidance in the Department of Chemistry, Christ College, Irinjalakuda. It is further certified that this project report has not previously formed the basis for the award of any Degree, Diploma, Fellowship or other similar title of recognition by any other university or institution.

Dr. Robinson Ponminiessary

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



REVIEW ON THE DIELS-ALDER REACTION FOR THE SYNTHESIS OF POLYCYCLIC AROMATIC COMPOUNDS

*A Dissertation submitted to the Christ College(Autonomous) in partial
fulfilment of the requirements for awarding the Degree of*

MASTER OF SCIENCE

IN

CHEMISTRY

Submitted by

SHERIN C RAPPAI

(Reg.No:CCATMCH013)

2019-2021

DISSERTATION ADVISOR : DR.TITTO VARUGHESE

ASSISSTANT PROFESSOR



PG AND RESEARCH DEPARTMENT OF CHEMISTRY

CHRIST COLLEGE, IRINJALAKKUDA

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of PG and Research
Christ College (Autonomous)
Irinjalakuda

THRISSUR-6



APRIL 2021

CERTIFICATE

Dr. Titto varughese

Assistant Professor

Department of Chemistry

Christ college (autonomous) Irinjalakuda.

This is to certify that the thesis entitled “**REVIEW ON DIELS-ALDER REACTION FOR SYNTHESIS OF POLYCYCLIC AROMATIC COMPOUNDS**” submitted to the Department of Chemistry, Christ college (autonomous), Irinjalakuda for the award of the degree of **Master of Science in Chemistry** is the original work carried out by **SHERIN C RAPPAL (CCATMCH013)** in the Department of Chemistry, Christ college(AUTONOMOUS), Irinjalakuda under my supervision and guidance during the period of February 2021 to April 2021.


Dr. Titto Varughese

Supervisor's signature

Forwarded by


Dr. Joy V. T

Head of Department

External examiner:

Place: Irinjalakuda

Date:


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



REVIEW ON MULTICOMPONENT REACTIONS
Dissertation submitted to the Christ College (Autonomous) in
Partial fulfillment of the requirement for degree of
MASTER OF SCIENCE

IN
CHEMISTRY

Submitted by

SREEDEVI RAMESH

Reg.No. –CCATMCH014—

2019-2021

Under the guidance of

Dr. ARUN S

Coordinator



P.G AND RESEARCH DEPARTMENT OF CHEMISTRY

CHRIST COLLEGE, IRINJALAKUDA

THRISSUR-680125


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





**CHRIST COLLEGE (Autonomous),
IRINJALAKUDA.**

**POSTGRADUATE & RESEARCH
DEPARTMENT OF CHEMISTRY**
IRINJALAKUDA NORTH, CHRIST COLLEGE
RD,
IRINJALAKUDA, KERALA 680125.
PHONE (O): 0480 282 5258, (M): +91-
8594030034.

Website: www.christcollegeijk.edu.in, Email :
arunkalazans@gmail.com


Date: 14th June 2021

Dr. ARUN S
Asst .Professor in chemistry

CERTIFICATE

This is to certify that SREEDEVI RAMESH (Reg.No.--CCATMCH014-----) has carried out a review work entitled **"REVIEW ON MULTICOMPONENT REACTIONS"** is an authentic record of the review work carried out by my supervision and guidance in the Department of Chemistry, Christ College, Irinjalakuda. It is further certified that this review work has not previously formed the basis for the award of any Degree, Diploma, Fellowship or other similar title of recognition by any other university or Institutions


Dr. ARUN S


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



MOLECULAR DOCKING STUDIES OF SOME NATURALLY OCCURRING FLAVONOIDS AGAINST SARS COV-2 RECEPTORS

*Dissertation submitted to the Christ College (Autonomous) in
Partial fulfillment of the requirement for degree of*

MASTER OF SCIENCE

IN

CHEMISTRY

Submitted by

SREELAKSHMI P V

Reg. NO: CCATMCH015

2019-2021

Under the guidance of

Dr TOM CHERIAN


Coordinator



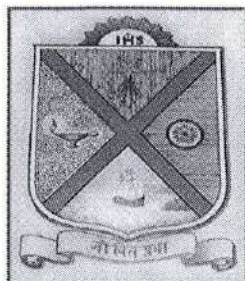
P.G AND RESEARCH DEPARTMENT OF CHEMISTRY

CHRIST COLLEGE, IRINJALAKUDA

THRISSUR-680125


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





CHRIST COLLEGE (Autonomous), IRINJALAKUDA.

POSTGRADUATE & RESEARCH DEPARTMENT OF CHEMISTRY

IRINJALAKUDA NORTH, CHRIST COLLEGE RD,

IRINJALAKUDA, KERALA 680125.

PHONE (O): 0480 282 5258, (M): +91-8594030034.

Website: www.christcollegeijk.edu.in, Email : drtomcherian@gmail.com

Ref. CC/CHEM/TM/2019-21

Date: 28th July 2021

Dr. Tom Cherian

Asst. Professor in Chemistry

CERTIFICATE

This is to certify that Sreelakshmi P V (Reg.No:CCATMCH015) has carried out a project work entitled “**MOLECULAR DOCKING STUDIES OF SOME NATURALLY OCCURRING FLAVONOIDS AGAINST SARS COV-2 RECEPTORS**” is an authentic record of the research project carried out by my supervision and guidance in the Department of Chemistry, Christ College, Irinjalakuda. It is further certified that this project report has not previously formed the basis for the award of any Degree, Diploma, Fellowship or other similar title of recognition by any other university or Institutions.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

Dr. Tom Cherian



REVIEW ON DETERMINATION OF CRUDE PROTEIN, RDP, RUP, NDF & ADF IN DIFFERENT FEED SAMPLES AVAILABLE IN THE MARKET

PROJECT REVIEW

Dissertation submitted to University of Calicut in partial
fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by,

TEENA A S

CCATMCH016

2021

Under the Guidance of:

DR.JIBIN A K

Asst. Professor



Handwritten signature in green ink.

Chemistry Department

P.G AND RESEARCH DEPARTMENT OF CHEMISTRY
CHRIST COLLEGE, IRINJALAKUDA, THRISSUR-680125

Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that dissertation entitled "Determination of crude protein, RDP, RUP, NDF &ADF in different feed samples available in the market" submitted to the Faculty of Science, University of Calicut in partial fulfillment of the Degree Master of Science in Chemistry is bonafide record of review carried out by TEENA A S under the guidance of **DR.JIBIN AK** .This dissertation was written under my guidance and supervision.



Dr. JIBIN A K

Lecturer in charge



Dr. V T JOY

Head of the Department
Christ College, Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



22

**“BRAND PROMISE AND PRODUCT REPURCHASE
INTENTION OF HEALTH DRINKS.”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

ALEENA M THOMAS

(Reg. No: CCATMCM001)

Under the guidance of

Ms. NEELIMA P.A



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

UNIVERSITY OF CALICUT

MARCH 2021


Fr. Dr. Jolly Andrews

Assistant Professor-


In charge of Department

**Christ College (Autonomous)
Irinjalakuda**



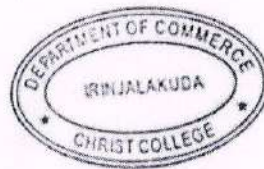
CERTIFICATE

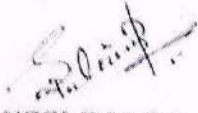
This is to certify that the project entitled "BRAND PROMISE AND PRODUCT REPURCHASE INTENTION OF HEALTH DRINKS" by Ms. Aleena M Thomas is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree in Master of Commerce.


Dr. JOSHEENA JOSE

Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Ms. NEELIMA P.A


Fr. Dr. Jolly Andrews

Assistant Professor-
In-charge of Principal

Christ College (Autonomous)
Irinjalakuda



**“A STUDY ON BRAND PREFERENCES OF MOBILE
PHONES AMONG YOUTH”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

AMAL VINCENT


(Reg No. CCATMCM003)

Under the Guidance of

Dr. JOSHEENA JOSE



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT
MARCH 2021**


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "A STUDY ON BRAND PREFERENCE OF MOBILE PHONES AMONG YOUTH" by Mr. Amal Vincent is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree in Master of Commerce.



Dr JOSHEENA JOSE

(Head of the Department)


Dr JOSHEENA JOSE

(Project Guide)

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., Phd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“PERCEPTION OF STUDENTS TOWARDS E-LEARNING
DURING COVID 19 PANDEMIC”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

ANEESH.T

(Reg.No:CCATMCM004)

Under the guidance of

Ms. SHINE PAUL



**POST GRADUATE DEPARTMENT OF COMMERCE CHRIST
COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**

MARCH 2021

Handwritten signature in blue ink.

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "PERCEPTION OF STUDENTS TOWARDS E-LEARNING DURING COVID 19 PANDEMIC" by Mr. is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of Commerce.


Dr. JOSHEENA JOSE

Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Prof, SHINE PAUL

Ms. SHINE PAUL

(Project Guide)


Fr. Dr. Jolly Andrews
Assistant Professor-
In charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“FINANCIAL PERFORMANCE ANALYSIS WITH
REFERENCE TO SNA OUSHADHASALA PVT. LTD,
THRISSUR”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

ANJALY FRANCIS P

(Reg. No: CCATMCM005)

Under the guidance of

Dr. TOM JACOB



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

UNIVERSITY OF CALICUT

MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



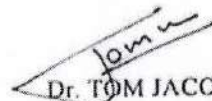
CERTIFICATE

This is to certify that the project entitled "FINANCIAL PERFORMANCE ANALYSIS WITH REFERENCE TO SNA OUSHADHASALA PVT. LTD, THRISSUR " by Ms. Anjaly Francis P is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Master of Commerce.



Dr. JOSHEENA JOSE

(HOD of Commerce)
Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125



Dr. TOM JACOB

(project guide)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



“CULT BRANDING ON I PHONES”

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

ANJU V S

(Reg.No:CCATMCM006)

Under the guidance of

Dr. ARUN BALAKRISHNAN MB



POST GRADUATE DEPARTMENT OF COMMERCE

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT


MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Practical
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “**CULT BRANDING ON I PHONES**” by Ms.Anju V S is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Master of Commerce.



Dr. JOSHEENA JOSE
Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125


Dr. ARUN BALAKRISHNAN

(Project Guide)




Fr. Dr. John Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“USE OF MOBILE-WALLETS AMONG THE YOUTH: A STUDY ON
PRE AND POST COVID -19 SCENARIO”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

ANNMARIA MALIAKKAL

(Reg.No:CCATMCM007)

Under the guidance of

Prof. JEBIN K DAVIS



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**


MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



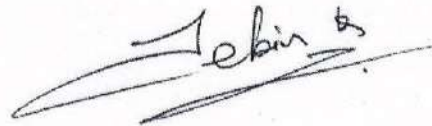
CERTIFICATE


This is to certify that the project entitled “ USE OF MOBILE-WALLETS AMONG THE YOUTH: A STUDY ON PRE AND POST COVID-19 SCENARIO ” by Miss. Annmaria Maliakkal is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree in Master of Commerce


Dr. JOSHEENA JOSE
Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125






Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“THE STUDY ON THE EFFECT OF CELEBRITY
ENDORSEMENT ON BUYING BEHAVIOUR OF WEARING
APPARELS AMONG YOUTH”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

ARYA VIJAYAN

(Reg.No:CCATMCM008)

Under the guidance of

MUVISH K M



POST GRADUATE DEPARTMENT OF COMMERCE

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT

MARCH 2021

Fr. Dr. Jolly Andrews

Assistant Professor-
In-charge of Principal

Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "THE STUDY ON THE EFFECT OF CELEBRITY ENDORSEMENT ON BUYING BEHAVIOUR OF WEARING APPARELS AMONG YOUTH" by Ms. Arya Vijayan is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree in Master of Commerce.



Dr. JOSHEENA JOSE

(Head of the department)




Prof. Muvish K.M

(Project Guide)

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“TAX MANAGEMENT OF AIDED HIGHER SECONDARY
SCHOOL TEACHERS: A STUDY ON TEACHERS OF
ANGAMALY EDUCATION SUB DISTRICT”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

DELVIN DAVIS

(Reg.No: CCATMCM009)

Under the guidance of

PROF. RENSON JOHN



POST GRADUATE DEPARTMENT OF COMMERCE

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT

Fr. Dr. Jolly Andrews
Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda

MARCH 2021



CERTIFICATE

This is to certify that the project entitled "TAX MANAGEMENT OF AIDED HIGHER SECONDARY SCHOOL TEACHERS: A STUDY ON TEACHERS OF ANGAMALY EDUCATION SUB DISTRICT" by Mr. Delvin Davis is a bona-fide record of work done under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of Masters of Commerce.



Prof. Dr. JOSHEENA JOSE

(Head of the department)

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., Ph.d.
Head of the Department of Commerce

Prof. RENSON JOHN

(Project Guide)

RENSON JOHN
Assistant Professor

Fr. Dr. Jolly Andrews

Assistant Professor-
In charge of Principal

Christ College (Autonomous)
Irinjalakuda



**“THE APPLICATION OF FUNDAMENTAL AND TECHNICAL
ANALYSIS IN INVESTMENT DECISION MAKING: AN EMPIRICAL
STUDY ON SELECTED AUTOMOBILE COMPANIES IN INDIAN
CAPITAL MARKET”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

DIVYA PIOUS

(Reg.No:CCATMCM010)

Under the guidance of

Prof. Neelima P.A.



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

UNIVERSITY OF CALICUT


MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE


This is to certify that the project entitled "THE APPLICATION OF FUNDAMENTAL AND TECHNICAL ANALYSIS IN INVESTMENT DECISION MAKING: AN EMPIRICAL STUDY ON SELECTED AUTOMOBILE COMPANIES IN INDIAN CAPITAL MARKET" by Ms. Divya Pious is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Commerce.



Dr. JOSHEENA JOSE

Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Ms. NEELIMA P.A


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“STUDY ON EFFECTS OF COPING STRATEGIES ON
MANAGEMENT OF STRESS AMONG HEALTH
PROFESSIONALS IN KERALA DURING COVID -19”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

GLORY JOHNSON

(Reg.No:CCATMCM011)

Under the guidance of

Dr. JOSHEENA JOSE



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

UNIVERSITY OF CALICUT


MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "STUDY ON EFFECTS OF COPING STRATEGIES ON MANAGEMENT OF STRESS AMONG HEALTH PROFESSIONALS IN KERALA DURING COVID -19" by Mrs. Glory Johnson is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree in Master of Commerce

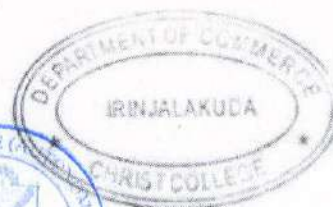

Dr JOSHEENA JOSE
(Head of the Department)


Dr JOSHEENA JOSE
(Project Guide)

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., Ph.d.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125

Fr. Dr. Jolly Andrew
Assistant Professor-
In-charge of Principal

Christ College (Autonomous)
Irinjalakuda



“CUSTOMER SATISFACTION OF REDMI PHONES”

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

JITHIN FRANCIS

(Reg.No:CCATMCM012)

Under the guidance of

Prof. SHINE PAUL



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**

MARCH 2021

Fr. Dr. J. B. ...
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "CUSTOMER SATISFACTION OF REDMI PHONES" by Mr. Jithin Francis is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Master of Commerce.


Dr. JOSHEENA JOSE


Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Prof, SHINE PAUL

(Project Guide)


Fr. Dr. Mathy Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“EFFECTIVENESS OF ONLINE ADVERTISEMENT IN
CREATING CONSUMER’S BUYING BEHAVIOUR AMONG
YOUTH”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

KRISHNAPRIYA.T.G

(Reg. No: CCATMCM013)


Under the guidance of

Dr. TOM JACOB



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**

MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-Charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE


This is to certify that the project entitled **"EFFECTIVENESS OF ONLINE ADVERTISEMENT IN CREATING CONSUMER'S BUYING BEHAVIOUR AMOUNG YOUTH"** by **KRISHNAPRIYA.T.G** is a bonafide record of work done under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of Master of Commerce.


Dr. JOSHEENA JOSE

(HOD of Commerce)
Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125


Dr. TOM JACOB

(project guide)


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“A STUDY ON PERCEPTION ON POLITICAL
ADVERTISEMENTS AMOUNG COLLEGE STUDENTS”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Submitted by

NAMITHA T.M

(Reg.No:CCATMCMO14)

Under the guidance of

Dr. ARUN BALAKRISHNAN



**POST GRADUATE DEPARTMENT OF COMMERCE CHRIST
COLLEGE (AUTONOMOUS), IRINJALAKUDA**

UNIVERSITY OF CALICUT


MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



CERTIFICATE

This is to certify that the project entitled "A STUDY ON PERCEPTION ON POLITICAL ADVERTISEMENTS AMONG COLLEGE STUDENTS" by Ms. Namitha T.M is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree in master of Commerce.



Dr. JOSHEENA JOSE
Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125


Dr. ARUN BALAKRISHNAN

(Project Guide)




Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“THE STUDY ON IMPULSIVE BUYING BEHAVIOUR
IN SOCIAL COMMERCE ENVIRONMENT”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Submitted by

NEEMA JETTO

(Reg.No:CCATMCM015)


Under the guidance of

PROF. JEBIN KANJIRATHINGAL



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**


MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

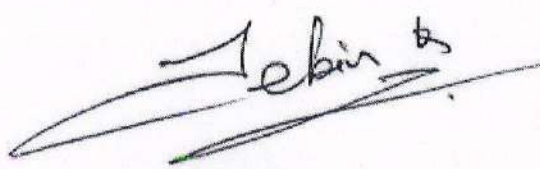


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This is to certify that the project entitled "THE STUDY ON IMPULSIVE BUYING BEHAVIOUR IN SOCIAL COMMERCE ENVIRONMENT" by Ms. NEEMA JETTO is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Master of Commerce.


Dr. JOSHEENA JOSE
Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125


(Project Guide)




Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“A STUDY ON STUDENTS ATTITUDE TOWARDS
ENTREPRENEURSHIP WITH SPECIAL REFERENCE
TO CHRIST COLLEGE, IRINJALAKUDA”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

POOJA SURENDRAN

(Reg.No: CCATMCM016)

Under the guidance of

Prof. MUVISH K M



POST GRADUATE DEPARTMENT OF COMMERCE

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT

MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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
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This is to certify that the project entitled " A STUDY ON STUDENTS ATTITUDE TOWARDS ENTREPRENEURSHIP WITH SPECIAL REFERENCE TO CHRIST COLLEGE, IRINJALAKUDA" by Ms. Pooja Surendran is a bona-fide record of work done under my guidance and supervision in partial fulfilment of the requirement for the award of the degree in Master of Commerce



Dr. JOSHEENA JOSE
Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Prof. Muvish K.M

(Project Guide)


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“A STUDY ON PASSENGERS PERCEPTION
TOWARDS KSRTC WITH SPECIAL REFERENCE TO
IRINJALAKUDA MUNICIPALITY”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

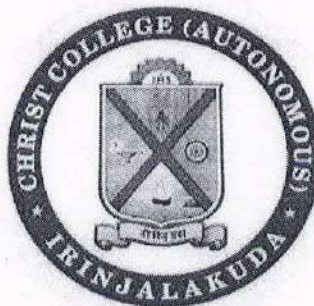
Submitted by

RENJITHA U. R.

(Reg. No: CCATMCM017)

Under the guidance of

Prof. RENSON JOHN



POST GRADUATE DEPARTMENT OF COMMERCE

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT

MARCH 2021

all boys
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled **“A STUDY ON PASSENGERS PERCEPTION TOWARDS KSRTC WITH SPECIAL REFERENCE TO IRINJALAKUDA MUNICIPALITY”** by RENJITHA U. R. is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Master of Commerce.


Dr. JOSHEENA JOSE


Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Prof. RENSON JOHN

(Project Guide)


Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“A STUDY ON WORK- LIFE BALANCE TOWARDS
JOB COMMITMENT OF EMPLOYEES WITH
SPECIAL REFERENCE TO SELECTED IT
COMPANIES”**

Project report submitted to

CHRISTCOLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Submitted by

ROSEMARIYA NELSON

(Reg.No:CCATMCM018)


Under the guidance of

PROF. MUVISH K M



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**


MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

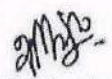
This is to certify that the project entitled "A STUDY ON WORK- LIFE BALANCE TOWARDS JOB COMMITMENT OF EMPLOYEES WITH SPECIAL REFERENCE TO SELECTED IT COMPANIES" by Ms. Rosemariya Nelson is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree in Master of Commerce.


Dr. JOSHEENA JOSE

Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Prof. Muvish K.M


Dr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“A STUDY OF CUSTOMER PERCEPTION TOWARDS FOOD
DELIVERY APPLICATIONS DURING COIVD-19”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

Siyeshma P J

(Reg.No: CCATMCM019)

Under the guidance of

Prof. JEBIN K DAVIS



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**

MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "A STUDY OF CUSTOMER PERCEPTION TOWARDS FOOD DELIVERY APPLICATIONS DURING COVID-19" by Mrs. Siyeshma P J is a bona-fide record of work done under my guidance and supervision in partial fulfilment of the requirement for the award of the degree in Master of Commerce.


Dr. JOSHEENA JOSE

Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., Ph.D.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O: Thrissur Dist, Kerala
India - 680 125
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda




Asst.Prof. JEBIN K DAVIS

(Project Guide)

**CUSTOMER PERCEPTION ON TV
ADVERTISEMENTS ON PRODUCTS RELATED TO
FIGHT CORONA VIRUS**

Project Report Submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF COMMERCE

Submitted By

SNIJI.T.S

REG No: CCATMCM020

UNDER THE GUIDANCE OF

Dr. ARUN BALAKRISHNAN




**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE IRINJALAKUDA
UNIVERSITY OF CALICUT
MAY 2021**

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principals
Christ College (Autonomous)



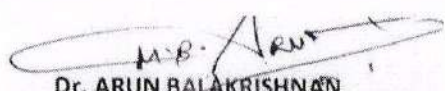
CERTIFICATE

This is to certify that the project entitled "CUSTOMER PERCEPTION ON TV ADVERTISEMENTS ON PRODUCTS RELATED TO FIGHT CORONA VIRUS" by Miss. Sniji. T.S is a bona-fide record of work done under my guidance and supervision in partial fulfilment of the requirement for the award of the Master of Commerce.


Dr. JOSHEENA JOSE


Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.h.d.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125


Dr. ARUN BALAKRISHNAN

(Project guide)




Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“AN EMPIRICAL INVESTIGATION ON CAPITAL MARKET
INTEGRATION OF ASEAN COUNTRIES”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

STEBIYA .M.V

(Reg. No: CCATMCM021)

Under the guidance of

Dr. TOM JACOB



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**

MARCH 2021

Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



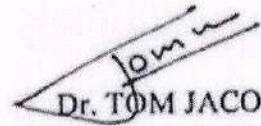
CERTIFICATE

This is to certify that the project entitled "AN EMPIRICAL INVESTIGATION ON CAPITAL MARKET INTEGRATION OF ASEAN COUNTRIES" by Ms.STEBIYA M.V is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Master of Commerce.



Dr. JOSHEENA JOSE

(HOD of Commerce)
Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125



Dr. TOM JACOB

(project guide)



Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



**“WORK LIFE BALANCE AMONG WOMEN TEACHERS
IN AUTONOMOUS COLLEGES
WITH SPECIAL REFERENCE TO THRISSUR
DISTRICT”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Commerce

Submitted by

SWATHY E T

(Reg.No:CCATMCM022)

Under the guidance of

PROF. SHINE PAUL



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**


MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "WORK LIFE BALANCE AMONG WOMEN TEACHERS IN AUTONOMOUS COLLEGES WITH SPECIAL REFERENCE TO THRISSUR DISTRICT" by Mrs. SWATHY E T is a bonafide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree in Master of Commerce.


Dr. JOSHEENA JOSE
Head of department

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., Ph.D.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Prof, SHINE PAUL

Ms. SHINE PAUL
(Project Guide)


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal

Christ College (Autonomous)
Irinjalakuda



**“THE RELEVANCE OF THE IRRELEVANCE THEORY”
A STUDY ON THE IMPACT OF CAPITAL STRUCTURE ON
THE FINANCIAL PERFORMANCE OF OIL EXTRACTION
COMPANIES IN INDIAN STOCK MARKET**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF COMMERCE

Submitted by

THOMAS LAL

(REG NO CCATMCM023)

Under the guidance of


Dr. JOSHEENA JOSE



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

UNIVERSITY OF CALICUT


MARCH 2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE


This is to certify that the project entitled "THE RELEVANCE OF THE IRRELEVANCE THEORY" - A STUDY ON THE IMPACT OF CAPITAL STRUCTURE ON THE FINANCIAL PERFORMANCE OF OIL EXTRACTION COMPANIES IN INDIAN STOCK MARKET by Mr. Thomas Lal is a bona-fide record of work done under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Master of Commerce.


Dr JOSHEENA JOSE
(Head of the Department)


Dr JOSHEENA JOSE
(Project Guide)

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125




Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“TEACHERS’ PERCEPTION ON ONLINE TEACHING:
PROBLEMS AND PROSPECTS”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF COMMERCE

Submitted by

VISMAYA JAISON

(Reg No: CCATMCM024)

Under the guidance of

Ms. NEELIMA P.A



**POST GRADUATE DEPARTMENT OF COMMERCE
CHRIST COLLEGE (AUTONOMOUS) , IRINJALAKUDA
UNIVERSITY OF CALICUT**

MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

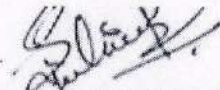


CERTIFICATE

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PROF. Dr. JOSHEENA JOSE
(Head of the department)



Ms. NEELIMA P.A
(Project Guide)

Dr. JOSHEENA JOSE
M.Com, MBA, PGDCA, B.Ed., P.hd.
Head of the Department of Commerce
Christ College (Autonomous)
Irinjalakuda P.O. Thrissur Dt., Kerala
India - 680 125


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**LIFE SATISFACTION AND PSYCHOLOGICAL DISTRESS AMONG DIABETES
MELLITUS PATIENTS**

Dissertation

Submitted in partial fulfillment of the requirement of the degree of

**MASTER OF SCIENCE IN
CLINICAL PSYCHOLOGY**

By

AHANA LAWRENCE


Register no.CCATMCP001



DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE AUTONOMOUS IRINJALAKUDA

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE AUTONOMOUS IRINJALAKUDA




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This is to certify that this dissertation entitled, **“LIFE SATISFACTION AND PSYCHOLOGICAL DISTRESS AMONG DIABETIC MELLITUS PATIENTS”** is a bonafide record of research work carried out by Ms. AHANA LAWRENCE , Register no: CCATMCP001, during the fourth semester of M.Sc. Clinical Psychology during the academic year 2019-2021.


Head of the Department

Principal

Guide


Mrs. Nimy P.G


Fr. Dr. Jolly Andrews



Mrs. Betty Paul

Submitted for the examination held on

Examiners

1.

2.


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



MENTAL HEALTH AND LIFE SATISFACTION: A COMPARATIVE STUDY AMONG WORKING AND NON-WORKING WOMEN'S

*Dissertation submitted to Christ College (Autonomous) in partial fulfilment of
the requirements for the award of the degree of Master of Science in Clinical
Psychology*

Submitted by

AKHILA P.J

Register no:CCATMCP002



MSc CLINICAL PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2019-2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

DEPARTMENT OF PSYCHOLOGY 2019-2021



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Head of the Department

Mrs. Nimy P.G


Guide 

Mrs. Betty Paul

Submitted for the examination held on _____

Examiners

- 1.
- 2.


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



EMOTIONAL INTELLIGENCE AND AGGRESSION AMONG ADOLESCENT BOYS

WITH AND WITHOUT GAME ADDICTION

Dissertation

submitted in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN

CLINICAL PSYCHOLOGY

By

Ms. DEVIKA SUNDAR


Register no – CCATMCP003



DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2019-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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DEPARTMENT OF PSYCHOLOGY



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Head of the Department

Mrs. Nimy P.G


Guide 

Mrs. Nimy P.G

Submitted for the examination held on _____

Examiners

- 1.
- 2.


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**RELATIONSHIP AMONG GRATITUDE, SELF-ESTEEM AND
LIFE SATISFACTION IN SPIRITUAL TEACHERS**

*Dissertation submitted to Christ College (Autonomous) in partial fulfilment of the
requirements for the award of the degree of Master of Science in Clinical
Psychology*

Submitted by,

FAEZA MOHAMED ASHRAF

REG.NO – CCATMCP004



MSc CLINICAL PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2019-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

DEPARTMENT OF PSYCHOLOGY

2019-2021



CERTIFICATE

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HEAD OF THE DEPARTMENT

Ms. Nimy P.G

GUIDE

Ms. Ann Maria Vincent

Submitted for the examination held on

Examiners

1.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



**ROLE OF SPIRITUALITY AND AGGRESSION IN MALE AND
FEMALE COLLEGE STUDENTS**

*Dissertation submitted to Christ College (Autonomous) in partial fulfilment of
the requirements for the award of the degree of Master of Science in Clinical
Psychology*

Submitted by,

FARSANA SHAFI R

REG.NO – CCATMCP005



MSc CLINICAL PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2019-2021

Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

DEPARTMENT OF PSYCHOLOGY

2019-2021



CERTIFICATE

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Head of the Department

Ms. Nimy P.G



Guide

Ms. Ann Maria Vincent

Submitted for the examination held on _____

Examiners

- 1.
- 2.


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



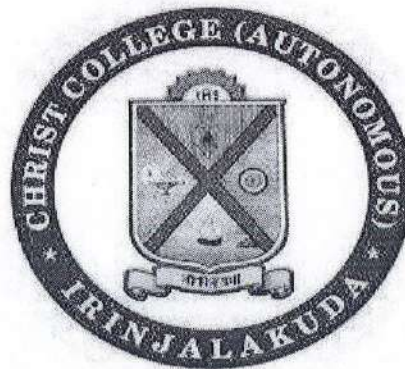
**ALLEVIATING WORRY AND ENHANCING SAVOURING
USING POSITIVE PSYCHOLOGY TECHNIQUES- AN
INTERVENTION STUDY AMONG SIBLINGS DURING
COVID 19**

*Dissertation submitted to Christ College (Autonomous) in partial fulfilment of
the requirements for the award of the degree of Master of Science in Clinical
Psychology*

Submitted by,

KALAI VANI M

REG.NO – CCATMCP006




MSc CLINICAL PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2019-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

DEPARTMENT OF PSYCHOLOGY

2019-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, “**ALLEVIATING WORRY AND ENHANCING SAVOURING USING POSITIVE PSYCHOLOGY TECHNIQUES- AN INTERVENTION STUDY AMONG SIBLINGS DURING COVID 19**” is a bona-fide record of research work carried out by Ms. **KALAI VANI M**, Register no: **CCATMCP006**, during the fourth semester of M.Sc. Clinical Psychology of the academic year 2019-2021.

Mrs. Nimy P.G

HEAD OF THE DEPARTMENT

Mrs. Nimy PG

GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**EMOTIONAL INTELLIGENCE AND PSYCHOLOGICAL DISTRESS AMONG
MENOPAUSAL AND NON- MENOPAUSAL WOMEN.**

Dissertation

Submitted in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN

CLINICAL PSYCHOLOGY

By

Ms. MINNU THOMAS

Register no.CCATMCP007



DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

2019-2021

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)



DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA



CERTIFICATE

This is to certify that this dissertation entitled, **“EMOTIONAL INTELLIGENCE AND PSYCHOLOGICAL DISTRESS AMONG MENOPAUSAL AND NON- MENOPAUSAL WOMEN”** is a bonafide record of research work carried out by Ms. MINNU THOMAS, Register no: CCATMCP007, during the fourth semester of M.Sc. Clinical Psychology during the academic year 2019-2021.

Head of the Department

Mrs. Nimy P.G

Guide

Mrs. Renya C.V

Submitted for the examination held on

.....

Examiners

- 1.
- 2.


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**RELATIONSHIP BETWEEN LONELINESS, DEPRESSION, AND
PERCEIVED SOCIAL SUPPORT IN GERIATRICS.**

*Dissertation submitted to Christ College (Autonomous) in partial fulfilment of
the requirements for the award of the degree of Master of Science in Clinical
Psychology*

Submitted by,

MURSHIDA C

REG.NO – CCATMCP008



MSc CLINICAL PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2019-2021




CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
DEPARTMENT OF PSYCHOLOGY


2019-2021



CERTIFICATE

This is to certify that this dissertation entitled, "RELATIONSHIP BETWEEN LONELINESS, DEPRESSION AND PERCEIVED SOCIAL SUPPORT IN GERIATRICS" is a bona-fide record of research work carried out by **Ms. MURSHIDA C, Reg.No: CCATMCP008**, during the fourth semester of M.Sc. Clinical Psychology for the academic year 2019-2021



Head of the Department
Mrs. Nimy P.G


Guide
Mrs. Glossy John

Submitted for the examination held on _____

Examiners

- 1.
- 2.


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE AUTONOMOUS IRINJALAKUDA



CERTIFICATE

This is to certify that this dissertation entitled, **“SLEEP QUALITY AND DEPRESSION AMONG FEMALES WITH AND FEMALES WITHOUT POLYCYSTIC OVARY SYNDROME”** is a bonafide record of research work carried out by Ms.NAYANA C. JOHNSON, Register no: CCATMCP009, during the fourth semester of M.Sc. Clinical Psychology during the academic year 2019-2021.

Head of the Department

Principal

Guide

Mrs. Nimy P.G

Fr. Dr. Jolly Andrews

Ms. Durga K.S

Submitted for the examination held on

Examiners

.....

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



1.

2.

**EFFECT OF ACADEMIC SELF CONCEPT ON SELF- ESTEEM
AMONG MALE AND FEMALE COLLEGE STUDENTS**

*Dissertation submitted to Christ College (Autonomous) in partial fulfilment of
the requirements for the award of the degree of Master of Science in Clinical
Psychology*

Submitted by,

RUHMA JAMES

REG.NO- CCATMCP010



MSc CLINICAL PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2019-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**EFFECT OF ACADEMIC SELF CONCEPT ON SELF- ESTEEM
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*Dissertation submitted to Christ College (Autonomous) in partial fulfilment of
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Psychology*

Submitted by,

RUHMA JAMES

REG.NO- CCATMCP010



MSc CLINICAL PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2019-2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
DEPARTMENT OF PSYCHOLOGY

2019-2021



CERTIFICATE

This is to certify that this dissertation entitled, **"EFFECT OF ACADEMIC SELF CONCEPT ON SELF-ESTEEM AMONG MALE AND FEMALE COLLEGE STUDENTS"** is a bona-fide record of research work carried out by **Ms. RUHMA JAMES, Reg. No: CCATMCP010**, during the fourth semester of M.Sc. Clinical Psychology for the academic year 2019-2021

Head of the Department

Mrs. Nimy P.G

A handwritten signature in black ink, appearing to be "Nimy", written over a horizontal line.

Guide

Mrs. Renya Varghese

A handwritten signature in blue ink, appearing to be "Renya", written over a horizontal line.

Submitted for the examination held on _____

Examiners

- 1.
- 2.

A handwritten signature in blue ink, appearing to be "Jolly", written over a horizontal line.
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**BODY DISSATISFACTION AND SOCIAL ANXIETY AMONG
OBESE AND NON OBESE YOUNG ADULT FEMALES**

Dissertation

Submitted in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN

CLINICAL PSYCHOLOGY

By

Ms. SRUTHI K V

REG.NO – CCATMCP011



DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2019-2021


Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF PSYCHOLOGY
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



This is to certify that the dissertation entitled, **“BODY DISSATISFACTION AND SOCIAL ANXIETY AMONG OBESE AND NON OBESE YOUNG ADULT FEMALES”** is a bona-fide record of research work carried out by **Ms SRUTHI K V**, Register no: **CCATMCP011**, during the fourth semester of M.Sc. Clinical Psychology of the academic year 2019-2021.

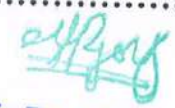

Mrs. Nimy P.G
HEAD OF THE DEPARTMENT

Mrs. Christina Francis
GUIDE



Submitted for the examination held on

.....


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Examiners

- 1.
- 2.

24

SMART AUTOMATED PETROL PUMP SYSTEM USING RFID PREPAID CARD, IOT BILLING AND MACHINE LEARNING BASED SECURITY

PROJECT REPORT

Submitted By

ANN MARIYA PAUL

Reg. No. CCATMCS001

For the award of the Degree of

Master of Science

in Computer Science
(University of Calicut)

under the guidance of

Ms.VIJI VISWANATHAN

Assistant Professor



M.Sc in COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
2020-2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this thesis entitled "Smart Automatic Petrol Pump System using RFID Prepaid Card, IOT Billing And Machine Learning Based Security" submitted by "Ann Mariya Paul(Reg. No. CCATMCS001)" in partial fulfillment for the award of the degree of Master of Science in Computer Science under University of Calicut during the year 2019-2020, is the bonafide work carried out by him under my guidance and supervision.

Ms. Viji Viswanathan
Assistant Professor, CSE
Internal Guide

Ms. Viji Viswanathan
Head of the Department
Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



FACE MASK DETECTION SYSTEM

PROJECT REPORT

Submitted By

JOBY K. J.

Reg. No. CCATMCS003

For the award of the Degree of

Master of Science

in Computer Science
(University of Calicut)

under the guidance of

Ms.PRIYANGA K K

Assistant Professor



**M.Sc in COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
2020-2021**

affg
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this thesis entitled "Face Mask Detection System" submitted by "JOBY K. J. (Reg. No. CCATMCS003)" in partial fulfillment for the award of the degree of Master of Science in Computer Science under University of Calicut during the year 2019-2020, is the bonafide work carried out by him under my guidance and supervision.

Ms. Priyanga K K
Assistant Professor, CSE
Internal Guide

Ms. Viji Viswanathan
Head of the Department
Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

Mr. Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



SOCIAL DISTANCING MONITORING ROBOT

PROJECT REPORT

Submitted By

SONA JOY

Reg. No. CCATMCS005

For the award of the Degree of

Master of Science

in Computer Science

(University of Calicut)

under the guidance of

Ms.VARSHA GANESH and Ms .VANDHANA T.V

Assistant Professors



M.Sc in COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
2019-2020

Sona Joy
Sona Joy Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this thesis entitled "IOT-based social distancing monitoring robot" submitted by "Sona Joy(Reg. No. CCATMCS005)" in partial fulfillment for the award of the degree of Master of Science in Computer Science under University of Calicut during the year 2019-2020, is the bonafide work carried out by him under my guidance and supervision.

Ms. Varsha Ganesh, Ms. Vandhana T.V
Assistant Professors, CSE
Internal Guide

Ms. Viji Viswanathan
Head of the Department
Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



IOT Road Safety

PROJECT REPORT

Submitted By

SOWPARNIKA B MANAKKATTIL

Reg. No. CCATMCS006

For the award of the Degree of

Master of Science

in Computer Science

(University of Calicut)

under the guidance of

Ms.MINU MARY and Mr.JOJU SEBASTIAN

Assistant Professors



**M.Sc in COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
2020-2021**

P. D. Joseph Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this thesis entitled "IOT Road Safety" submitted by "Souparnika B Manakkattil(Reg. No. CCATMCS006)" in partial fulfillment for the award of the degree of Master of Science in Computer Science under University of Calicut during the year 2020-2021, is the bonafide work carried out by him under my guidance and supervision.

A handwritten signature in blue ink, likely belonging to Ms. Minu Mary and Mr. Joju Sebastian.

Ms. Minu Mary and Mr. Joju Sebastian
Assistant Professor, CSE
Internal Guide

A handwritten signature in blue ink, likely belonging to Ms. Viji Viswanathan.

Ms. Viji Viswanathan
Head of the Department
Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

A handwritten signature in green ink, likely belonging to Dr. Jolly Andrews.

Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



25

**A STUDY ON THE SELF EMPLOYMENT PROGRAMME
UNDER NATIONAL URBAN LIVELIHOODS MISSION IN
IRINJALAKUDA MUNICIPALITY**

Project report submitted to **CHRIST COLLEGE(AUTONOMOUS),
IRINJALAKUDA** in partial fulfillment of the requirement for the award of
the degree of

MASTER OF ARTS IN ECONOMICS

Submitted By

AMAL B RAJ (Reg. No: CCATMEC001)

Under the supervision of

Sr. Rosy V. O




RESEARCH DEPARTMENT OF ECONOMICS

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



UNIVERSITY OF CALICUT

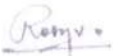
MARCH 2021


CERTIFICATE

This is to certify that the project report entitled "**A STUDY ON THE SELF EMPLOYMENT PROGRAMME UNDER NATIONAL URBAN LIVELIHHODS MISSION IN IRNJALAKUDA MUNICIPALITY**" is a Bonafede record of project work done by Mr. Amal B Raj in partial fulfillment of requirement for the award of the degree of Master of Arts in Economics under my guidance and supervision and that it has not previously formed the basis for awarding for any degree, diploma, associate ship or fellowship.

Place: Irinjalakuda.

Date: 30/03/2021


Sr. Rosy V. O,
Head of the Department
Department of Economics
Christ College
(Autonomous), Irinjalakuda


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**IMPACT OF COVID-19 ON PERFORMING ARTISTS IN
KERALA: A CASE STUDY**

Project report submitted to
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

*In partial fulfilment of the requirement for the award of the degree of
Master of Arts in Economics*

BY

**ANAGHA V. S
CCATMEC002**

Under the supervision of

Dr. FRANCO T. FRANCIS



**RESEARCH DEPARTMENT OF ECONOMICS
CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKUDA**

APRIL 2021

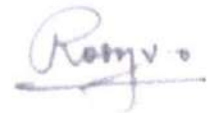

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal

Christ College (Autonomous)
Irinjalakuda



CERTIFICATE OF THE HEAD OF THE DEPARTMENT

I certify that the project report entitled on **IMPACT OF COVID-19 ON PERFORMING ARTISTS IN KERALA : A CASE STUDY** is a bonafide work done by **Anagha V S** under the guidance and supervision of **Dr. Franco T. Francis**, Assistant Professor, Research Department of Economics, Christ College (Autonomous), Irinjalakuda. The project report is worth submitting as an optional paper in partial fulfillment of the requirement of Master of Arts in Economics and that it has not previously formed the award of any degree, diploma or fellowship.



Prof. Sr. Rosy V.O

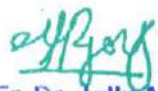
Head of the department

Place : Irinjalakuda

Date : 30/3/2021

Research Department of Economics

Christ College (Autonomous), Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CONSUMER BEHAVIOR TOWARDS LIFE INSURANCE: A CASE STUDY OF KODUNGALLUR MUNICIPALITY

Project report submitted to Christ College (Autonomous) Irinjalakuda in partial fulfillment of the requirement for the award of the degree of

MASTER OF ARTS

BY

ANAKHA. O. V

(Reg No CCATMEC003)


Under the guidance of

Prof. Sasi. C



**POST GRADUATES DEPARTMENT OF ECONOMICS CHRIST COLLEGE
(AUTONOMOUS) IRINJALAKUDA UNIVERSITY OF CALICUT**

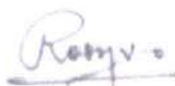
March 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE FOR THE HEAD OF THE DEPARTMENT

I certify that the project report entitled on **CONSUMER BEHAVIOR TOWARDS LIFE INSURANCE : A CASE STUDY OF KODUNGALLUR MUNICIPALITY** is a bonafide work done by Anakha. O. V under guidance and supervision of Prof. Sasi. C. The project report is worth submitting as an optional paper in partial fulfillment of the requirement of the Master of Arts in Economics and that it has not previously formed the award of any degree, diploma and fellow ship.



Prof. Sr. Rosy. V. O

Head of the Department

Research Department of Economics

Christ College (Autonomous) Irinjalakuda

Place: Irinjalakuda

Date: 30/03/2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



POPULARITY OF INTERNET BANKING AMONG RURAL POPULATION: A CASE STUDY ON IRINJALAKUDA MUNICIPALITY

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF ARTS IN ECONOMICS

Submitted by

ANANYA K. A.

(Reg. No: CCATMEC004)

Under the guidance of

Mrs. JEAN MARIA GEORGE



POST GRADUATE DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT

all gory
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

MARCH 2021

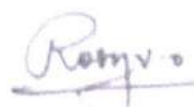


CERTIFICATE

This is to certify that the project report entitled “**POPULARITY OF INTERNET BANKING AMONG RURAL POPULATION – A CASE STUDY ON IRINJALAKUDA MUNICIPALITY**” is a bonafide record of project work done by **Ms. Ananya KA** of the Degree of Master of Arts in Economics under the guidance and supervision of **Mrs. Jean Maria George** and that it has not previously formed the basis for awarding for Degree, Diploma, Associate ship or Fellowship.

Place: Irinjalakuda

Date: 30/3/2021



Sr. Rosy V.O

Head of the department

Department of Economics

Christ College, Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON IMPACTS OF ONLINE LEARNING ON
POST GRADUATE STUDENTS IN CHRIST
COLLEGE IRINJALAKUDA**

Project submitted to

CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA

for the award of the degree of

MASTER OF ECONOMICS

By

ANJU M SUBRAMANIAN (CCATMEC005)

Under the supervision of

Mrs. ANN MARY CHERIAN



DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT

MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project report entitled “A STUDY ON IMPACTS OF ONLINE LEARNING ON POST GRADUATE STUDENTS IN CHRIST COLLEGE IRINJALAKUDA” is a bonafide record of project work done by **Ms. ANJU M SUBRAMANIAN** of the Degree of Master of Arts in Economics under the guidance and supervision of **Mrs. Ann Mary Cherian** and that it has not previously formed the basis for awarding for Degree, Diploma, Associate ship or Fellowship.



Sr. Rosy V.O

Head of the department

Department of Economics

Christ college (autonomous),

Irinjalakuda

Place: Irinjalakuda

Date: 30.03.2021



Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON THE WASTE MANAGEMENT SYSTEM IN
IRINJALAKUDA MUNICIPALITY**

Project submitted to

Christ College (Autonomous) Irinjalakuda

in partial fulfilment on the requirement of award of the degree of

MASTER OF ARTS IN ECONOMICS

Submitted By

ASHA SURESH NAIR (Reg No:CCATMEC006)


Under the supervision of

Sr. Rosy V.O.



POST GRADUATE DEPARTMENT OF ECONOMICS
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
AFFILIATED TO UNIVERSITY OF CALICUT

MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

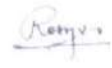


CERTIFICATE

This is to certify that the project report entitled "A STUDY ON THE WASTE MANAGEMENT SYSTEM IN IRINJALAKUDA MUNICIPALITY" is a bonafide record of project work done by Ms. Asha Suresh Nair in the partial fulfilment of requirement for the award of the degree in Master of Arts in Economics under my guidance and supervision and that it has not previously formed the basis of awarding any degree, diploma, associateship or fellowship.

Place: Irinjalakuda

Date: 30/03/2021



Sr. Rosy V. O.

Head of the Department

Department of Economics

Christ College (Autonomous)

Irinjalakuda.


Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**EMERGENCE OF HOMEpreneurs IN KERALA
WITH SPECIAL REFERENCE TO LOCKDOWN 2020**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Arts in Economics

BY

ASMABI K .S

CCATMEC007

Under the supervision of

Dr. FRANCO T. FRANCIS



**RESEARCH DEPARTMENT OF ECONOMICS
CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA
UNIVERSITY OF CALICUT**

MARCH 2021


Handwritten signature in green ink.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE OF THE SUPERVISING TEACHER

I certify that the project report entitled on **EMERGENCE OF HOMEpreneurs in Kerala with special reference to Lockdown 2020** is a bonafide work done by **Asmabi K S** under my guidance and supervision. The project report is worth submitting as an optional paper in partial fulfillment of the requirement of Master of Arts in Economics and that it has not previously formed the award of any degree, diploma or fellowship.



Dr. Franco T. Francis

Assistant Professor

Research Department of Economics

Christ College (Autonomous) Irinjalakuda

Place: Irinjalakuda

Date: 31.03.2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**COMPARISON OF PUBLIC AND PRIVATE
EDUCATION SYSTEM :
A CASE STUDY IN IRINJALAKUDA REGION**

Project report submitted to Christ College (Autonomous), Irinjalakuda in partial
fulfillment of the requirements for the award of the degree of

MASTER OF ARTS IN ECONOMICS

Submitted by

DEEPA K B (CCATMEC008)

Under the supervision of

Mr. SASI C



POST GRADUATE DEPARTMENT OF ECONOMICS
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT

MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is certify that the project report entitled “**COMPARISON OF PUBLIC AND PRIVATE EDUCATION SYSTEM : A CASE STUDY IN IRINJALAKUDA REGION**” is a bonafide record of project work done by Ms. Deepa K B, in partial fulfillment of requirement for the degree of Master of Arts in Economics under my guidance and supervision and that it has not previously formed the basis for awarding for any degree, diploma, associate ship or fellowship.

Place : Irinjalakuda

Date : 30/3/2021



Mr. SASI C

Professor

Department of economics
Christ College (Autonomous)

Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**LOCAL ECONOMIC DEVELOPMENT UNDER KUDUMBASHREE
MISSION: AN ANALYSIS OF IRINJALAKUDA MUNICIPALITY**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

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

MASTER OF ARTS IN ECONOMICS

by

Gokul V Gopal

(Register Number: CCATMEC009)



RESEARCH DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

March 2021

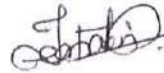


CERTIFICATE

I certify that the project report entitled **Local Economic Development Under Kudumbashree Mission: An Analysis of Irinjalakuda Municipality** is a bonafide work done by Gokul V Gopal under my guidance and supervision. The project report is worth submitting as an optional paper in partial fulfilment of the requirement of Master of Arts in Economics and that it has not previously formed the award of any degree, diploma or fellowship.

Place: Irinjalakuda

Date: 30/3/2021



Mrs Jean Maria George

Assistant Professor

Research Department of Economics

Christ College (Autonomous)

Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STUDY ON WOMEN UNEMPLOYMENT IN VARANDARAPILLY PANCHAYATH, THRISSUR

Project report submitted to
CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

In partial fulfilment of the requirements for the award of the degree of
MASTER OF ECONOMICS

Submitted By
KRISTIN DAVIS
(Reg.No: CCATMEC010)

Under the guidance of
Mrs. ANN MARY CHERIAN



**POST GRADUATE DEPARTMENT OF ECONOMICS
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda


**UNIVERSITY OF CALICUT
MARCH 2021**

CERTIFICATE

This is to certify that the project report entitled "**A STUDY ON WOMEN UNEMPLOYMENT IN VARANDARAPILLY PANCHAYATH, THRISSUR**" is a bonafide record of project work done by **Ms. Kristin Davis** of the Degree of Master of Arts in Economics under the guidance and supervision of Mrs. Ann Mary Cherian and that it has not previously formed the basis for awarding for Degree, Diploma, Associate ship or Fellowship.

Place: Irinjalakuda

Date:30/3/2021



Sr. Rosy V.O.

Head of the Department
Department of Economics
Christ College, Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



WOMEN EMPOWERMENT THROUGH SELF HELP GROUPS: A STUDY OF ALOOR GRAMA PANCHAYAT

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF ARTS

By

MEGHA MADHAVAN

CCATMEC011

Under the supervision of

Sr. Rosy V O



**POST GRADUATE DEPARTMENT OF ECONOMICS
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

UNIVERSITY OF CALICUT

MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

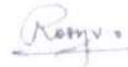


CERTIFICATE

This is to certify that the project report entitled **“WOMEN EMPOWERMENT THROUGH SELF HELP GROUP; A CASE STUDY OF ALOOR GRAMA PANCHAYAT”** is a bonafide project work done by **Ms. Megha Madhavan** under my guidance and supervision. The project report is worth submitting as an optional paper in partial fulfillment of requirement for the award of the degree of Master of Arts in Economics under my guidance and supervision and that it has not previously formed the basis for awarding for any degree, diploma, associate ship or fellowship.

Place:

Rosy.V.O.



Date: 30/03/2021

Head of the Department

Department of Economics

Christ College Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**“IMPACT OF COVID-19 ON SMALL SCALE
RETAILSECTORS: A CASE STUDY FROM
IRINJALAKUDA MUNICIPALITY”**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

Master of Arts in Economics

Submitted by

MISHMA DAVIS

(Reg.No:CCATMEC012)

Under the guidance of

Dr.FRANCO T FRANCIS



POST GRADUATE DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT

Fr. Dr. Jolly Andrews

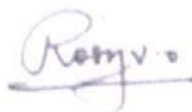
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

MARCH 2021



CERTIFICATE OF THE HEAD OF THE DEPARTMENT

I certify that the project report entitled on **IMPACT OF COVID-19 ON SMALL SCALE RETAIL SECTORS: A CASE STUDY FROM IRINJALAKUDA MUNICIPALITY** is a bonafide work done by **Mishma Davis** under the guidance and supervision of Dr. Franco T. Francis, Assistant Proffessor, Research Department of Economics, Christ College (Autonomous), Irinjalakuda. The project report is worth submitting as an optional paper in partial fulfillment of the requirement of Master of Arts in Economics and that it has not previously formed the award of any degree, diploma or fellowship.



Place: Irinjalakuda

Prof. Sr. Rosy V.O

Date: 30/03/202

Head of the department

Research Department of Economics

Christ College (Autonomous), Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



HEALTH PROBLEMS IN IRINJALAKUDA REGION

Project report submitted to

Christ College (Autonomous), Irinjalakuda

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

MASTER OF ARTS IN ECONOMICS

Submitted by

RESHMA K.C (Reg No: CCATMEC013)

Under the supervision of

PRO. SASI C



RESEARCH DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that project report titled "A STUDY ON THE HEATH PROBLEMS IN IRINJALAKUDA REGION" is a bona fide work done by RESHMA K.C under the super vision and guidance of Pro. Sasi C during 2021 in partial fulfilment of the requirement of the Master of Arts in Economics and that it has not previously formed the award of any degree, diploma and fellow ship.

Place: Irinjalakuda


Date: 30-03-2021


PRO. SR. ROSY V.O

Head of Department

Research Department of Economics

Christ College (Autonomous), Irinjalakuda


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**CONSUMER BEHAVIOUR ON MICRO FINANCE:
A CASE STUDY ON MURIYAD GRAMA PANCHAYATH**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF ARTS IN ECONOMICS

by

SALINI BABU

(REGISTER NO: CCATMEC014)

Under the supervision of

Mrs. JEAN MARIA GEORGE



**POST GRADUATE DEPARTMENT OF ECONOMICS
CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA**

UNIVERSITY OF CALICUT

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

MARCH 2021



CERTIFICATE

This is to certify that the project report entitled " CONSUMER BEHAVIOUR ON MICRO FINANCE :A CASE STUDY ON MURIYAD GRAMA PANCHAYATH " is a bonafide work done by SALINI BABU under the guidance and supervision of Mrs. Jean Maria George. The project report is worth submitting as an optional paper in partial fulfillment of the requirement of Bachelors of Arts in Economics and that it has not previously formed the basis for the Award of any Degree, Diploma, Associated ship or Fellowship.

PLACE : Irinjalakuda


Sr. ROSY VO

DATE:30 -03-2021

Head of the Department of Economics

Christ College (Autonomous), Irinjalakuda


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON THE EFFECTIVENESS OF PUBLIC
DISTRIBUTION SYSTEM IN KATTOOR GRAMA
PANCHAYAT**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF ECONOMICS

By

SHEMEENA P A

(Reg. CCATMEC015)

Under the supervision of


Mrs. ANN MARY CHERIAN



POST GRADUATION DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project report entitled “A STUDY ON THE EFFECTIVENESS OF PUBLIC DISTRIBUTION SYSTEM IN KATTOOR GRAMA PANCHAYAT” is a bonafide record of project work done by Ms. SHEMEENA P A of the Degree of Master of Arts in Economics under the guidance and supervision of Mrs. Ann Mary Cherian and that it has not previously formed the basis for awarding for Degree, Diploma, Associate ship or Fellowship.

Place: Irinjalakuda.

Date: 30-03-2021



Prof. Sr. Rosy V.O.

Assistant Professor

Head of the Department

Department of Economics

Christ College (Autonomous),
Irinjalakuda



Fr. Dr. Jolly Andrews

Assistant Professor-
In-charge of Principal

Christ College (Autonomous)
Irinjalakuda



**OPERATION AND MAINTANENCE OF URBAN WATER SUPPLY IN
IRINJALAKUDA MUNICIPALITY**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF ARTS IN ECONOMICS

Submitted by

SHEREENA. K. S

(REG. No. CCATMEC016)

Under the supervision of

Sr. ROSY. V.O.




RESEARCH DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

UNIVERSITY OF CALICUT

MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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This is to certify that the project report entitled "**OPERATION AND MAINTENANCE OF URBAN WATER SUPPLY IN IRINJALAKUDA MUNICIPALITY**" is a bonafide work done by Mis. Shereena, K. S. in partial fulfillment of requirement for the award of the degree of Master of Arts in Economics under my guidance and supervision and that it has not previously formed the basis for awarding for any degree, diploma or fellowship.

Place: Irinjalakuda

Date: 30/03/2021

Rosy V. O.

Sr. Rosy. V. O

Head of the Department

Department of Economics

Christ College (Autonomous),

Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Jolly Andrews



**EVALUATING THE PERFORMANCE OF JALANIDHI
PROJECT IN VELLANGALLUR GRAMA PANCHAYAT**

Project Report Submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

*In partial fulfillment of the requirements for the award of the degree of
Master of Arts in Economics*

Submitted by

SIMNA JOSE

(Reg.No: CCATMEC017)

Under the supervision of

Dr. FRANCO T. FRANCIS



POST GRADUATE DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

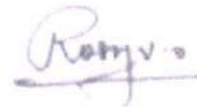
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

UNIVERSITY OF CALICUT

MARCH 2021

CERTIFICATE

I certify that the project report entitled “**EVALUATING THE PERFORMANCE OF JALANIDHI PROJECT IN VELLANGALLUR GRAMA PANCHAYAT**” is a bonafide work done by **Simna Jose** under the guidance and supervision of **Dr. Franco T. Francis**, Assistant professor, Research Department of Economics, Christ College (Autonomous), Irinjalakuda. The project report is worth submitting as an optional paper in partial fulfillment of the requirement of Mater of Arts in Economics and that it has not previously formed the award of any degree, diploma or fellowship.



Prof. Sr. Rosy V. O

Head of the Department

Research Department of Economics

Christ College (autonomous), Irinjalakuda

Place: Irinjalakuda

Date: 30 - 03 - 2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON THE INFLUENCE OF ONLINE SHOPPING
AMONG COLLEGE STUDENTS IN IRINJALAKUDA
MUNICIPALITY**

Project report submitted to

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF ARTS IN ECONOMICS

Submitted by

SNEHA MATHEW

(REG. No. CCATMEC018)


Under the supervision of

Prof : SASI C



RESEARCH DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

UNIVERSITY OF CALICUT

MARCH 2021

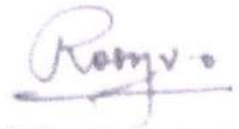


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Place: Irinjalakuda

Date: 30/03/2021



Prof. Sr. Rosy V.O

Head of the Department

Research Department of Economics

Christ College (Autonomous), Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**THE IMPACT OF COVID-19 PANDEMIC ON
CONSUMER BEHAVIOUR:
A CASE STUDY ON IRINJALAKUDA MUNICIPALITY**

Project report submitted to
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
in partial fulfillment of the requirement for the award of the degree of
MASTER OF ARTS IN ECONOMICS

By

TEENA JOSE (Reg. No: CCATMECO19)

Under the supervision of

Mrs. JEAN MARIA JEORGE



all good

**POST GRADUATE DEPARTMENT OF ECONOMICS
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
UNIVERSITY OF CALICUT**

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

MARCH 2021

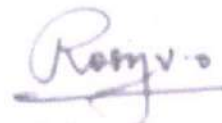


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This is to certify that the project report entitled "**THE IMPACT OF COVID-19 PANDEMIC ON CONSUMER BEHAVIOUR: A CASE STUDY ON IRINJALAKUDA MUNICIPALITY**" is a bonafide work done by TEENA JOSE, under the guidance and supervision of Mrs. Jean Maria George and that it has not previously formed the basis for awarding for Degree, Diploma, Associate ship or fellowship.

Place: Irinjalakuda

Date: 30-3-2021



Prof. Sr. Rosy V.O

Head of the Department

Department of Economics

Christ College (Autonomous),

Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON THE IMPACT OF COVID-19 PANDEMIC ON
MONEY MANAGEMENT OF HOUSEHOLDS IN VELIANCODE
PANCHAYATH, MALAPPURAM**

Project submitted to

CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA

for the award of the degree of

MASTER OF ECONOMICS

By

VIDYA K (Reg. CCATMEC020)

Under the supervision of

Mrs. ANN MARY CHERIAN




DEPARTMENT OF ECONOMICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

UNIVERSITY OF CALICUT

MARCH 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

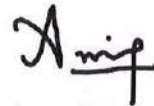


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I certify that the project report entitled “A Study on the Impact of Covid-19 Pandemic on Money Management of Households in Veliancode panchayath, Malappuram ” is a bonafide record of project work done by **Ms. VIDYA k** of the Degree of Master of Arts in Economics under my guidance and supervision and that it has not previously formed the basis for awarding for Degree, Diploma, Associate ship or Fellowship.

Place: Irinjalakuda.

Date: 30.03.2021



Mrs. Ann Mary Cherian

Assistant Professor

Department of Economics

Christ College (Autonomous),

Irinjalakuda



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



26

**Wounds That Cry Out: Exploration of Female Trauma and
Insanity in Laurie Halse Anderson's *Speak* and Sylvia Plath's
*The Bell Jar***

*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

Master of Arts

In

English Language and Literature

By

Anju Mariya Babu V

Reg. No. CCATMEG001




March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda,

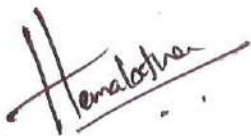
Kerala – 680125


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Dr. Rani Paul Ukkan

Associate Professor

P.G. Department of English

Christ College Irinjalakuda

(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**The Saga of Awakening: A Study of Bama's *Sangati* and Baby
Kamble's *The Prisons We Broke*.**

*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Anmol Babu

Reg. No. CCATMEG002



March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda

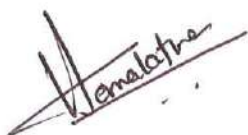
Kerala – 680125

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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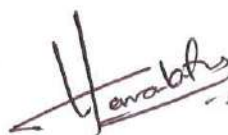


Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Dr. Hemalatha. P.

Associate Professor

P.G Department of English

(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**Voice of the Voiceless: Tracing the Elements of Dalit feminism in
the novels *Untouchable God* by Kancha Ilaiah and *Mother Wit* by
Urmila Pawar**

*Dissertation submitted to the University of Calicut in partial fulfillment of the
requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Anna James

Reg. No. CCATMEG003



March 2021

P. G. Department of English

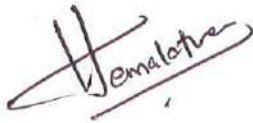
Christ College (Autonomous), Irinjalakuda, Kerala – 680125

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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Dr. Hemalatha P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Ms. Priya V. B

Assistant Proffessor

P. G. Department of English

(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**From Obscurity to Luminescence : A Phenomenal Exploration of
Transphobia in Jhimli Mukherjee Pandey's *A Gift of Goddess
Lakshmi* and A Revathi's *The Truth About Me***

*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Athira Das

Reg. No. CCATMEG004



MARCH 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Certificate

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Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Ms. Priya V. B

Assistant Professor

P.G. Department of English

Christ College Irinjalakuda

(Supervising Teacher)



Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



**Unleashing Marxist elements in the selected novels of
J.K.Rowling's Harry Potter series**

*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Fainy Joji P

Reg. No. CCATMEG005



March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda


Kerala – 680125

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Certificate

This is to certify that this dissertation entitled **Unleashing Marxist elements in the selected novels of J.K. Rowling's Harry Potter series**, is an authentic record of research work carried out by Ms. Fainy Joji P under my supervision and guidance in partial fulfillment of the requirements for the award of the degree of Master of Arts in English Language and Literature submitted to the University of Calicut.



Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Ms. Sruthy Mohan

Assistant Professor

P.G. Department of English

(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**Feminist Reading of Orhan Pamuk's *My Name Is Red* In The Light of
Cultural Theory**

*Dissertation submitted to the University of Calicut in partial fulfillment of the
requirements for the degree of*

Master of Arts

In

English Language and Literature

By

Grace Evangeline D

Reg. No. CCATMEG006



March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda, Kerala – 680125

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Certificate

This is to certify that this dissertation entitled **Feminist Reading of Orhan Pamuk's *My Name Is Red*** In the light Of Cultural Theory, is an authentic record of research work carried out by Ms. Grace Evangeline D under my supervision and guidance in partial fulfillment of the requirements for the award of the degree of Bachelor of Arts in English Language and Literature submitted to the University of Calicut.



Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Shahana K.M.

Assistant Professor

P.G. Department of English Irinjalakuda

(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Ram Gopal Varma as an Auteur: A Study on his Gangster Films

Dissertation submitted to the University of Calicut in partial fulfillment of the requirements for the degree of

Master of Arts

In

English Language and Literature

By

Hela Ashkar Babu

Reg. No. CCATMEG007



March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda,

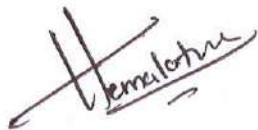
Kerala – 680125


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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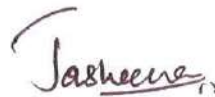


Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Ms. Jasheena P. B.

Assistant Professor

P.G. Department of English

Christ College Irinjalakuda

(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**Tuneful Reflections: A Comparative Analysis of Shelley and
Faiz as Romantic Poets.**

*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Keloth Harsha Jyothi

Reg. No. CCATMEG008




March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda

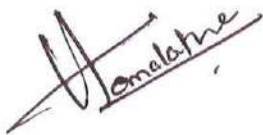
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Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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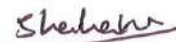


Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Shahana K.M.

Assistant Professor

P.G Department of English

(Supervising Teacher)



Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



**Tarkovsky Strikes Back: How a Russian filmmaker created
anti *Space Odyssey* titled *Solaris*!**

*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Lanjo Jose .M

Reg. No. CCATMEG009



March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda

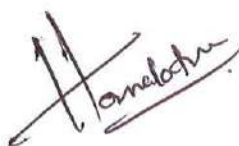
Kerala – 680125

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Certificate

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Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Ms. Adeela V. N

Assistant Professor

P.G. Department of English

(Supervising Teacher)



Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



**Mindscape's Armour: Scrutinizing Defence Mechanisms in Bapsi
Sidhwa's *The Pakistani Bride***

*Dissertation submitted to the University of Calicut in partial fulfillment of the
requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Nimmy Denny

Reg. No. CCATMEG011



March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda

Kerala – 680125

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Certificate

This is to certify that this dissertation entitled **Mindscape's Armour: Scrutinizing Defence Mechanisms in Bapsi Sidhwa's *The Pakistani Bride*** is an authentic record of research work carried out by Ms. Nimmy Denny under my supervision and guidance in partial fulfillment of the requirements for the award of the degree of Master of Arts in English Language and Literature submitted to the University of Calicut.



Dr. Hemalatha. P.

Coordinator, P. G. Department of English
Christ College (Autonomous)
Irinjalakuda



Ms. Sruthy Mohan

Assistant Professor
P.G. Department of English
Christ College Irinjalakuda
(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**Quest for Power and Disturbances in Mental Health as the
Causes of Violence in Selected Literary Works**

*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Niranjana Anil

Reg. No. CCATMEG012



March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda

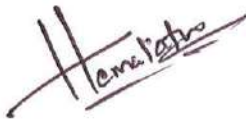
Kerala – 680125


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda (Supervising Teacher)



Ms. Clintia .P.S

Assistant Professor

P.G. Department of English



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



Voice of the Bruises : A Black Feminist Critique of Alice Walker's

The Color Purple

*Dissertation submitted to the University of Calicut in partial fulfillment of the
requirements for the degree of*

Master of Arts

In

English Language and Literature

By

P.S Sruthi Krishna

Reg. No. CCATMEG013



March 2021

P.G. Department of English

Christ College (Autonomous), Irinjalakuda

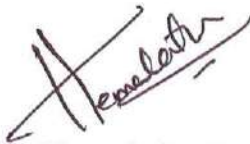
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Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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Dr. Hemalatha. P

Coordinator, P. G. Department of English
Christ College (Autonomous)
Irinjalakuda



Ms. Adeela V.N

Assistant Professor
P.G. Department of English
(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Comparative Analysis on *The Story of My Life And Ray*

*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Riya Bobby

Reg. No. CCATMEG014



March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

Kerala – 680125



Certificate

This is to certify that this dissertation entitled **Comparative Analysis on *The Story of My Life And Ray***, is an authentic record of research work carried out by Ms. Riya Bobby under my supervision and guidance in partial fulfillment of the requirements for the award of the degree of Master of Arts in English Language and Literature submitted to the University of Calicut.



Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Ms. Sreedevi Madhavan Kutty

Assistant Professor

P.G. Department of English

(Supervising Teacher)



Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



Representation of Disability in *Clear Light of Day* and *Cracking India*
*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

Master of Arts

in

English Language and Literature

By

Shafna Ashmi V M

Reg. No. CCATMEG015



March 2021

P. G. Department of English

Christ College (Autonomous), Irinjalakuda

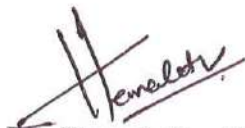
Kerala – 680125


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Certificate

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Dr. Hemalatha. P.

Coordinator, P. G. Department of English

Christ College (Autonomous)

Irinjalakuda



Ms. Sreedevi Madhavan Kutty

Assistant Professor

P.G. Department of English

(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**Portrayal of Resistance in Paul Kalanithi's *When Breath
Becomes Air* and Ananya Mukherjee's *Tales From The Tail
End: My Cancer Diary* in the background of Disability Studies.**

*Dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the degree of*

**Master of Arts
in
English Language and Literature**

**By
Swathi
Reg. No. CCATMEGO16**



March 2021

**P. G. Department of English
Christ College (Autonomous), Irinjalakuda**

Signature

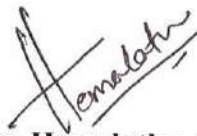
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Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



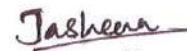
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Dr. Hemalatha. P.

Coordinator, P. G. Department of English
Christ College (Autonomous)
Irinjalakuda



Ms. Jasheena P.B

Assistant Professor
P.G. Department of English
(Supervising Teacher)



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



27

1

**The study of physico –chemical properties of soil under
*Syzygium travancoricum***

*Dissertation submitted to the University of Calicut , Thenjipalam in partial
Fulfillment of the requirements of the degree of
Master of Science in Environmental Science*

Submitted by

AMRUTHA N S

(Register no:CCATMES001)



**DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE,
CHRIST COLLEGE (AUTONOMOUS IRINJALAKUDA**

2019-2021

all for

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE
CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA



CERTIFICATE

This is to certify that dissertation entitled " **The study of physico –chemical properties of soil under *Syzygium travancoricum*** " submitted by **Amrutha N S** in partial fulfillment of the requirement for the award of master of Science in Environmental Science ,Christ College (Autonomous) , Irinjalakuda to the University of Calicut is a bonafide work carried out during the period of study.


DR.SUBIN K JOSE

Head of environmental Science


Department of Geology and Environmental Science,

Christ College (Autonomous) Irinjalakuda

Examiners:

1.....

2.....


Fr. Dr. Jolly Andrews
Assistant Professor
In Charge of Principal
(Autonomous)



**THE STUDY OF COMPARISON ON DIVERSITY OF ODONATES IN
CULTIVATED AND NON-CULTIVATED AREAS**

**Submitted in Partial Fulfilment of the Requirement for the Award of
the Degree of**

MASTER OF ENVIRONMENTAL SCIENCE

University of Calicut

Submitted by

ANUSREE N P

Reg.No. CCATMES002

Under the Guidance of

Dr. SUBIN K JOSE

Associate Professor



DEPARTMENT OF GEOLOGY & ENVIRONMENTAL SCIENCE

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

2019-2021

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda.



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Dr. LINTO ALAPPAT

[Head of the Department]

Dr. SUBIN K JOSE

[Supervising Teacher]

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



***An assessment of effluent generation and Environmental compliance of
Industries within the coastal belt of Chavakkad municipality and
Vadakkekad panchayath***

Dissertation submitted to
The University of Calicut, Thenhipalam

In partial fulfilment of the requirement for the award of the degree of
Master of Science in Environmental Science

By
Beegum Bahjidha B
(Register no: CCATMES003)



CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA

Under the Guidance of
Er. Suseela Nair V. A.
Environmental Engineer
Thrissur District Office
Kerala State Pollution Control Board



Kerala State Pollution Control Board
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Committed to protection of environment

AND
Dr. MANJU N J
Assistant professor
Department of Geology and Environmental Science
Christ College (Autonomous), Irinjalakuda - 680125

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)



DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



CERTIFICATE

This is to certify that dissertation entitled "*An assessment of effluent generation and Environmental compliance of Industries within the coastal belt of Chavakkad municipality and Vadakkekad panchayath*" submitted by **Beegum Bahjidha B** in partial fulfilment of the requirement for the award of Master of Science in Environmental Science, Christ college (Autonomous), Irinjalakuda to the University of Calicut is a bonafide work carried out during the period of study.

Dr. LINTO ALAPPAT

Head, Dept. of Geology and Environmental Science,
Christ College (Autonomous), Irinjalakuda

Examiners:

1.....

2.....

3.....


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Principal, Christ College



Potential point sources of coastal pollution in Kodungallur municipality – A survey

Dissertation submitted to

The University of Calicut, Thenhipalam

In partial fulfilment of the requirement for the award of the degree of
Master of Science in Environmental Science

By

BLESSY JOGY

(Register no:CCATMES004)



CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA

Under the Guidance of

Er. Suseela Nair V. A.
Environmental Engineer
Thrissur District Office
Kerala State Pollution Control Board



Kerala State Pollution Control Board

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Committed to protection of environment

AND

DR.MANJU N.J

Assistant professor

Department of Geology and Environmental science
Christ college (Autonomous), Irinjalakuda – 680125

Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



CERTIFICATE

This is to certify that dissertation entitled "**Potential point sources of coastal pollution in Kodungallur municipality – A survey**" submitted by **Blessy Jogy** in partial fulfillment of the requirement for the award of master of Science in Environmental Science, Christ college (Autonomous), Irinjalakuda to the University of Calicut is a bonafide work carried out during the period of study.

DR.LINTO ALAPPAT

Head, Dept. of Geology and Environmental Science
Christ College (Autonomous), Irinjalakuda

Examiners:

1.....

2.....

3.....

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**ENVIRONMENTAL COMPLIANCE SURVEY OF INDUSTRIES IN
THE COASTAL BELT OF THALIKULAM PANCHAYAT, THRISSUR
DISTRICT USING ENVICLEAN SOFTWARE**

A Dissertation Submitted to

THE UNIVERSITY OF CALICUT, THENHIPALAM

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

MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE

Submitted by

DEEPTHI K DILEEP

(Reg. no. CCATMES005)



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

Under the Guidance of

Er. SUSEELA NAIR V. A.

ENVIRONMENTAL ENGINEER

THRISSUR DISTRICT OFFICE

KERALA STATE POLLUTION CONTROL BOARD



Kerala State Pollution Control Board

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Committed to protection of environment

And

DR. MANJU N J

ASSISTANT PROFESSOR

DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA - 680125

Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE
CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKUDA, THRISSUR - 680125



CERTIFICATE

This is to certify that the dissertation titled **“ENVIRONMENTAL COMPLIANCE SURVEY OF INDUSTRIES IN THE COASTAL BELT OF THALIKULAM PANCHAYAT, THRISSUR DISTRICT USING ENVICLEAN SOFTWARE”** is a record of original work done by DEEPTHI K DILEEP (Reg. No. CCATMES005), in partial fulfilment of the requirement for the award of the degree of Master of Science in Environmental Science from Calicut University, Thenhipalam for the academic year 2019-2021. The research work has not previously formed the basis for the award of any degree or any work on the part of the candidate.

Dr. Linto Alappat


Head, Dept. of Geology & Environmental Science

Examiners:

1.....

2.....

3.....


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**IDENTIFICATION AND MAPPING OF POTENTIAL INDUSTRIAL SOURCES OF COASTAL
POLLUTION IN GURUVAYUR MUNICIPALITY**

Dissertation submitted to

The University of Calicut, Thenjipalam

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

MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE

By

LENSA THOTTAN

(Register No: **CCATMES006**)



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

Under the Guidance of

Er. SUSEELA NAIR V. A.

Environmental Engineer

Thrissur District office

Kerala State Pollution Control Board



Kerala State Pollution Control Board
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Committed to protection of environment

AND

Dr. MANJU N.J

Assistant professor

Department of Geology and Environmental Science

Christ College (Autonomous), Irinjalakuda - 680125

1

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



CERTIFICATE

This is to certify that dissertation entitled "*Identification and Mapping of Potential Industrial Sources of Coastal Pollution in Guruvayur Municipality*" submitted by **Lensa Thottan** in partial fulfillment of the requirement for the award of Master of Science in Environmental Science, Christ College (Autonomous), Irinjalakuda to the University of Calicut is a bonafide work carried out during the period of study.

DR. LINTO ALAPPAT

Head, Dept. of Geology and Environmental Science,
Christ College (Autonomous), Irinjalakuda

Examiners:

1.....

2.....

3.....

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principals
Christ College (Autonomous)
Irinjalakuda



**ENVIRONMENTAL COMPLIANCE SURVEY OF INDUSTRIES IN
THE COASTAL BELT OF KADAPPURAM AND PUNNAYURKULAM
PANCHAYAT, CHAVAKKAD, THRISSUR DISTRICT USING
ENVICLEAN SOFTWARE**

A Dissertation Submitted to

THE UNIVERSITY OF CALICUT, THENHIPALAM

In partial fulfilment of the requirement for the award of the Degree of
MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE

Submitted by

MERIN M SHAJI

(Reg. no. CCATMES007)



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

Under the Guidance of

Er. SUSEELA NAIR V. A.

ENVIRONMENTAL ENGINEER

THRISSUR DISTRICT OFFICE

KERALA STATE POLLUTION CONTROL BOARD



Kerala State Pollution Control Board
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Committed to protection of environment

And

DR. MANJU N J

ASSISTANT PROFESSOR

DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA- 680125

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE
CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKUDA, THRISSUR - 680125



CERTIFICATE

Date:

This is to certify that the dissertation titled "**ENVIRONMENTAL COMPLIANCE SURVEY OF INDUSTRIES IN THE COASTAL BELT OF KADAPPURAM AND PUNNAYURKULAM PANCHAYAT, CHAVAKKAD, THRISSUR DISTRICT USING ENVICLEAN SOFTWARE**" is a record of original work done by MERIN M SHAJI (Reg. No. CCATMES007), in partial fulfilment of the requirement for the award of the degree of Master of Science in Environmental Science from Calicut University, Malappuram for the academic year 2019-2021. The research work has not previously formed the basis for the award of any degree or any work on the part of the candidate.

A handwritten signature in blue ink, belonging to Dr. Linto Alappat.

Dr. Linto Alappat

Head, Dept. of Geology and Environmental Science

Examiners:

1.....

2.....

3.....

A handwritten signature in green ink, belonging to Fr. Dr. Jolly Andrews.
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



THE STUDY OF COMPARISON ON SPECIES DIVERSITY OF ODONATES IN LENTIC AND LOTIC HABITATS

*Project Report Submitted in Partial Fulfillment of the
Requirement for the Award of Degree of*

MASTER OF ENVIRONMENTAL SCIENCE

University of Calicut

Submitted by

ROSE MARIA SEBASTIAN

Reg No: CCATMES008



**DEPARTMENT OF GEOLOGY AND
ENVIRONMENTAL SCIENCE**

**CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKKUDA**

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

2019-2021



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[Head of the Department]

[Supervising Teacher]

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakkuda

2



**ECOLOGICAL ASSESSMENT OF MINING AT KANIYAMBETTA
PANCHAYAT, WAYANAD**

Project Report Submitted to the

UNIVERSITY OF CALICUT

In Partial Fulfilment of the Requirements for the Degree of Master of Science in

ENVIRONMENTAL SCIENCE

By

SANA MARIYA JAMES

Reg No: CCATMES009



CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Batch: 2019-2021

Under the Supervision of

Dr. T V SAJEEV

Principal scientist & Research Coordinator

Department of Forest Entomology



Kerala Forest Research Institute

2/1/2021
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

Peechi, Thrissur, Kerala



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



CERTIFICATE

Certified that this dissertation entitled —"**Ecological Assessment of Mining At Kanaiyambetta Panchayat, Wayanad,**" is the bonafide work of **Sana Mariya James** under the co-guidance of **Ms.Rekha V B**, Assistant Professor, Department of Geology and Environmental science, Christ College (Autonomous) Irinjalakuda in partial fulfillment of the requirements for the degree of Master of Science in Environmental science is submitted to the University of Calicut during the academic year 2021.

Dr. Rekha V B

Assistant Professor

Dept. of Geology & Env. Science

Christ College (Autonomous) Irinjalakuda

Dr. Subin K Jose

Assistant Professor & Head of Env. Science

Dept. of Geology & Env. Science

Christ College (Autonomous) Irinjalakuda

Examiners:

1.

2. **Fr. Dr. Jolly Andrews**
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**FEASIBILITY STUDY OF LANDSLIDE AT KUNJALIPARA,
THRISSUR DISTRICT, KERALA**

*Dissertation submitted to the Calicut University in partial fulfillment of the
requirements of the degree of*

M. Sc. DEGREE IN ENVIRONMENTAL SCIENCE

Submitted by

SANDRA T. S

REG No: CCATMES010



**POST GRADUATE DEPARTMENT OF GEOLOGY
AND ENVIRONMENTAL SCIENCE, CHRIST COLLEGE AUTONOMOUS
IRINJALAKUDA, THRISSUR-680121**

UNDER THE SUPERVISION OF

Dr. T V SAJEEV

**SENIOR PRINCIPAL SCIENTIST
DEPARTMENT OF FOREST ENTOMOLOGY,
FOREST HEALTH DIVISION,
KERALA FOREST RESEARCH INSTITUTE
PEECHI, THRISSUR, KERALA**



Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



CERTIFICATE

Certified that this dissertation entitled “ **Feasibility Study of Landslide at Kunjalipara, Thrissur District, Kerala,**” is the bonafide work of **Sandra T. S** under the co-guidance of **Ms.Rekha V B**, Assistant Professor, Department of Geology and Environmental science, Christ College (Autonomous) Irinjalakuda in partial fulfillment of the requirements for the degree of Master of Science in Environmental science is submitted to the University of Calicut during the academic year 2021.

Dr. Rekha V B

Assistant Professor

Dept. of Geology & Env. Science

Christ College (Autonomous) Irinjalakuda

Dr. Subin K Jose

Assistant Professor & Head of Env.sc

Dept. of Geology & Env. Science

Christ College (Autonomous) Irinjalakuda

Examiners:

1.

2.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**HEXAVALENT CHROMIUM REMOVAL FROM
TANNERY WATER USING CHEMICAL
PRECIPITATION AND ELECTRO-COAGULATION**

*Dissertation submitted to the Calicut University in partial
fulfillment of the requirements of the degree of*

M.Sc. DEGREE IN ENVIRONMENTAL SCIENCE

Submitted by

SETHULAKSHMI M.J.

REG No: CCATMES011



**POST GRADUATE DEPARTMENT OF GEOLOGY AND
ENVIRONMENTAL SCIENCE**

**CHRIST COLLEGE AUTONOMOUS IRINJALAKKUDA -680121
THRISSUR**

UNDER THE SUPERVISION OF

Dr. P.N. DAMODARAN

**SENIOR SCIENTIST & HEAD
DEPARTMENT OF SOLID WASTE
MANAGEMENT DIVISION**

**INTEGRAL RURAL TECHNOLOGY CENTRE
MUNDOOR, PALAKKAD 678592**



IRTC

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE FROM IRTC



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**LAND USE LAND COVER CHANGE OF PUTHUVYPE
VILLAGE & EFFECTS ON MANGROVE ECOSYSTEM**

*Dissertation submitted to the Calicut University in partial fulfillment of the requirements of
the degree of*

M.Sc. DEGREE IN ENVIRONMENTAL SCIENCE
Submitted by

SHREYAS SAJEEV T.

REG No: CCATMES012



**POST GRADUATE DEPARTMENT OF GEOLOGY
AND ENVIRONMENTAL SCIENCE, CHRIST COLLEGE AUTONOMOUS
IRINJALAKKUDA, THRISSUR - 680121**

UNDER THE SUPERVISION OF

Dr. T V SAJEEV

SENIOR PRINCIPAL SCIENTIST

DEPARTMENT OF FOREST ENTOMOLOGY,

FOREST HEALTH DIVISION,

KERALA FOREST RESEARCH INSTITUTE

PEECHI, THRISSUR, KERALA



Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews¹
Assistant Professor-
In charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



CERTIFICATE

Certified that this dissertation entitled "**Land use land cover change of Puthuvype village and effects on mangrove ecosystem**" is the bonafide work of **Mr. Shreyas Sajeer T** under the co-guidance of **Ms. Rekha V B**, Assistant Professor, Department of Geology and Environmental science, Christ College (Autonomous) Irinjalakuda, in partial fulfillment of the requirements for the degree of Master of Science in Environmental science is submitted to the University of Calicut during the academic year 2021.

A handwritten signature in blue ink, appearing to read "Rekha V B".

Dr. Rekha V B

Assistant Professor

Dept. of Geology & Env. Science

Christ College (Autonomous), Irinjalakuda

A handwritten signature in blue ink, appearing to read "Linto Alappat".

Dr. Linto Alappat

Head of Department

Dept. of Geology & Env. Science

Christ College (Autonomous), Irinjalakuda

Examiners:

1.

2.

A handwritten signature in blue ink, appearing to read "Jolly Andrews".

Fr. Dr. Jolly Andrews

Assistant Professor-
In-charge of Principal

Christ College (Autonomous)
Irinjalakuda



**ASSESSMENT OF SALTWATER INTRUSION ALONG THE
SELECTED AREAS OF MALAPPURAM DISTRICT ,KERALA**

*Dissertation submitted to the University of Calicut, Thenjipalam in partial
fulfillment of the requirements of the degree of*

Master of Science in Environmental Science

BY

SREERAM VARIER K V

(Register no:CCATMES013)

Under the Guidance of

Dr.Subin K Jose

Assistant professor

Department of Geology and Environmental Science

Christ College Irinjalakuda



**DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE,
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA,**

2019-2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



CERTIFICATE

Certified that this dissertation entitled **"ASSESSMENT OF SALTWATER INTRUSION ALONG THE SELECTED AREAS OF MALAPPURAM DISTRICT, KERALA"** is a bona fide work of **SREERAM VARIER K V** under the guidance of **Dr. Subin K. Jose**, Assistant Professor, Department of Geology and Environmental science, Christ College (Autonomous) Irinjalakuda in partial fulfilment of the requirements for the degree of Master of Science in Environmental science is submitted to the University of Calicut during the academic year 2021.


Dr. SUBIN K JOSE

Head of Environmental science,
Dept. of Geology and Environmental Science,
Christ College (Autonomous), Irinjalakuda

Examiners:

1.
2. **Fr. Dr. Jolly Andrews**
Assistant Professor-
In-charge of Principal
3. **Christ College (Autonomous)**
Irinjalakuda



**LAND USE LAND COVER CHANGE IN KOLAZHY GRAMA
PANCHAYAT,**

THRISSUR DISTRICT

A Project Report Submitted to the

UNIVERSITY OF CALICUT

In Partial Fulfilment of the Requirements for the Degree of Master of Science in

ENVIRONMENTAL SCIENCE

By

THERESE T.T

Reg. No: CCATMES014



CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Batch: 2019-2021

Under the Guidance of

Dr. T.V SAJEEV

Principal Scientist & Research Coordinator

Department of Forest Entomology



Kerala Forest Research Institute

Peechi, Thrissur, Kerala

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



CERTIFICATE

Certified that this dissertation entitled "**Land Use And Land Cover Change In Kolazhy Grama Panchayat, Thrissur District**" is the bonafide work of **Ms. Therese T.T** under the co-guidance of **Ms. Rekha V B**, Assistant Professor, Department of Geology and Environmental science, Christ College (Autonomous) Irinjalakuda in partial fulfillment of the requirements for the degree of Master of Science in Environmental science is submitted to the University of Calicut during the academic year 2020.

Dr. Rekha V.B

Assistant Professor

Dept.of Geology & Env. Science

Christ College (Autonomous) Irinjalakuda

Dr. Subin K. Jose

Assistant Professor & Head of Env.science

Dept. of Geology & Env. Science

Christ College (Autonomous) Irinjalakuda

Examiners:

1.

2.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



28

**JESUIT MISSIONARIES IN KERALA; A STUDY ON THE
REFLECTIONS OF THRISSUR SOCIETY IN ARNOS
PADIRI'S LITERARY WORKS**

Dissertation submitted to Christ College Autonomous Irinjalakuda, Thrissur
in partial fulfilment of the requirements for the award of the Degree of
MASTER OF ARTS IN HISTORY

BY

ABEL P RAPHEAL

Register No: CCATMHI001

Under the Supervision of

Dr. SREEVIDHYA V



P.G. DEPARTMENT OF HISTORY & RESEARCH

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA

SEPTEMBER-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the dissertation, ***JESUIT MISSIONARIES IN KERALA; A STUDY ON THE REFLECTIONS OF THRISSUR SOCIETY IN ARNOS PADIRI'S LITERARY WORKS*** is a bonafide record of a study done by Abel P Rapheal, under my supervision in partial fulfillment of the requirements of M.A. Degree in History. It has not to the best of my knowledge been the basis of the award of any other Degree.

Place: Irinjalakuda

Dr. SREEVIDHYA. V.

Date:

Supervising Teacher


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



LOCATING THE ROLE OF C. R. KESAVAN VAIDYAR IN THE DEVELOPMENTAL HISTORY OF IRINJALAKUDA

Dissertation submitted to Christ College (Autonomous), Irinjalakuda

In partial fulfillment of the Degree of

MASTER OF ARTS IN HISTORY

By

ABITHA K R

Register No: CCATMHI002

Under the Supervision of

Ms. LISHA K. K.



2019-2021

POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

CHRIST COLLEGE (AUTONOMOUS),

Assistant Professor-
IRINJALAKUDA
Christ College (Autonomous)
Irinjalakuda



DECLARATION

I, ABITHA K R hereby declare that this dissertation entitled **'LOCATING THE ROLE OF C. R. KESAVAN VAIDYAR IN THE DEVELOPMENTAL HISTORY OF IRINJALAKUDA'** is a bonafide record of research work done by me in partial fulfillment of the requirements for the award of Degree of the Master of Arts in History under the supervision of Ms. Lisha K. K., Assistant Professor, Research Center and Post Graduate Department of History, Christ College (Autonomous), Irinjalakuda.

I also declare that this dissertation has not previously formed the basis for the award of any other degree.

Place : Irinjalakuda

ABITHA K R

Date : 12.09.2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A LOCAL HISTORY OF KANNAMBRA WITH
SPECIAL REFERENCE TO THE PARAYA
COMMUNITY**

Dissertation submitted to Christ College,
Irijalakuda (Autonomous) in partial fulfilment for
the Degree of **MASTER OF ARTS IN
HISTORY**

By

ADITHYAN C P

REG.NO. CCATMHI003

Under the Supervision of

Dr. BINU M. JOHN



POST-GRADUATE AND RESEARCH DEPARTMENT OF HISTORY
CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA

Fr. Dr. Jolly Andrews
AUGUST - 2021
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DECLARATION

I hereby declare that this dissertation entitled “**A Local History of Kannambra with Special Reference to the Paraya Community**” submitted to Christ College (Autonomous), Irinjalakuda for the fulfilment of requirements for Master of Arts in History is a bonafide record of original research work carried out by me under the guidance and supervision of Dr. Binu M John, Assistant Professor, Department of History, Christ College (Autonomous), Irinjalakuda as the guide.

The study represents the independent work conducted by me and has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar type.

Place: Irinjalakuda

Mr. Adithyan C P

Date:

Fr. Dr. Jolly Andrews

Assistant Professor

BONAFIDE CERTIFICATE

Christ College (Autonomous)



REPRESENTATION OF EMERGENCY IN MALAYALAM LITERATURE : A POLITICO-HISTORICAL OVERVIEW.

Dissertation submitted to Christ College (Autonomous)

Irinjalakuda In partial fulfillment of the Degree of

MASTER OF ARTS IN HISTORY

By

AISWARYA K JAYAN

Register No: CCATMHI004

Under the Supervision of

Ms. LISHA K. K.



2019-2021

POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

Fr. Dr. Jolly Andrews

CHRIST COLLEGE (AUTONOMOUS),

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



DECLARATION

I, Aiswarya K Jayan hereby declare that this dissertation entitled **'REPRESENTATION OF EMERGENCY IN MALAYALAM LITERATURE : A POLITICO-HISTORICAL OVERVIEW.'** is a bonafide record of research work done by me in partial fulfillment of the requirements for the award of Degree of the Master of Arts in History under the supervision of Ms. Lisha K. K., Assistant Professor, Research Center and Post Graduate Department of History, Christ College (Autonomous), Irinjalakuda. I also declare that this dissertation has not previously formed the basis for the award of any other degree.

Place : Irinjalakuda

AISWARYA K JAYAN

Date :12-09-2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



HISTORY OF MARKETS IN KERALA WITH SPECIAL REFERENCE TO KANDASSANKADAVU

Dissertation submitted to Christ College (Autonomous) ,Irinjalakuda

In partial fulfillment of the Degree of

MASTER OF ARTS IN HISTORY

By

ANJANA. V. S Register No : CCATMHI005

Under the Supervision of MS.

LISHA K. K.



2021

POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

CHRIST COLLEGE (AUTONOMOUS),

IRINJALAKUDA

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

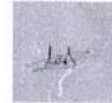


CERTIFICATE

This is to certify that the dissertation entitled, “ HISTORY OF MARKETS IN KERALA WITH SPECIAL REFERENCE TO KANDASSANKADAVU” is a record of genuine work done by ANJANA V S, under my guidance and supervision, in partial fulfilment for the requirement of the award of the degree of Master of Arts in History and that no part of it has been submitted before the award of any degree or diploma.

Place: Irinjalakuda

Date : 12.09.2021



MS. LISHA K K

Supervising Teacher



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHEKKUTTY DOLLS: A RAY OF HOPE FOR KERALA HANDLOOM AND THE SURVIVAL STORY OF CHENDAMANGALAM HANDLOOM

Dissertation submitted to the
Christ College (Autonomous) Irinjalakuda
In partial fulfilment for the Degree of

MASTER OF ARTS IN HISTORY

By

ANRISE SELIN
Register No: CCATMHI006

Under the supervision of
Ms. Jincy S. R.



**POST GRADUATE AND RESEARCH
DEPARTMENT OF HISTORY
CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA
2021**

1


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



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This is to certify that this dissertation *Chekkutty Dolls- a Ray of Hope for Kerala Handloom and the Survival Story of Chendamangalam Handloom* is a record of bonafide research work done by **ANRISE SELIN** under my guidance and supervision in partial fulfillment of the requirements of M. A. Degree in History. It has not been the basis of the award of any other Degree.

Place: Irinjalakuda

Ms. JINCY S.R

Date:

Supervising Teacher

Forwarded by : Ms. Lisha K.K.

H.O.D

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



HANDLOOMS IN KERALA: A CASE STUDY OF CHENNAMANGALAM HANDLOOM

*A dissertation submitted to
Christ College, Autonomous, Irinjalakuda, Trissur
in partial fulfilment of the requirements for the award of the
Degree of Master of Arts in History*

BY

ATHIRA AJI

Reg No: CCATMHI007

Under the supervision of

Dr. SREEVIDHYA.V



**P.G DEPARTMENT OF HISTORY & RESEARCH
CHRIST COLLEGE, IRINJALAKUDA**

SEPTEMBER-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DECLARATION

I, **Athira Aji** hereby declare that this dissertation **HANDLOOMS IN KERALA A CASE STUDY OF CHENNAMANGALAM HANDLOOM**, submitted by me in partial fulfillment for the degree of Master of Arts in History is a record of the study done by me during the year 2019-2021 under the supervision of **Dr. Sreevidhya V.** Department of History, Christ College Autonomous, Irinjalakuda. This has not been the basis for the award of any other Degree.

Place: Irinjalakuda

Athira Aji

Date:

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A HISTORICAL ENQUIRY INTO THE AYURVEDAM IN
KERALA WITH SPECIAL REFERENCE TO CHOLAYIL
KUNJUMAAMI VAIDYAR OF EDAMUTTAM**

Dissertation submitted to Christ College (Autonomous), Irinjalakuda

In Partial Fulfillment of the Degree of

MASTER OF ARTS IN HISTORY

By

ATHULYA.T. R

Register No. CCATMHI008

Under the supervision of

MR DEEPAK. J




CHRIST
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA

POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKKUDA-680125

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
(Principal's Signature)

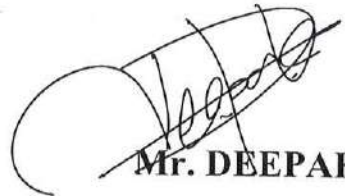


CERTIFICATE

This is certified that the dissertation entitled **“A HISTORICAL ENQUIRY INTO THE AYURVEDAM IN KERALA WITH SPECIAL REFERENCE TO CHOLAYIL KUNJUMAAMI VAIDYAR OF EDAMUTTAM”** is a record of genuine work done by **ATHULYA.T. R**, under my guidance and supervision, in partial fulfilment for the requirement of the award of the Degree of Master of Arts in History and that no part of it has been submitted before for the award of any degree or diploma.

Ms. LISHA. K.K

HEAD OF THE DEPARTMENT



Mr. DEEPAK.J

RESEARCH SUPERVISOR



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Trinjallakudi



**A STUDY ON THE ANGLO-INDIANS OF KERALA
WITH SPECIAL REFERENCE TO MATHILAKAM**

Dissertation submitted to Christ College (Atonomous), Irinjalauda

In partial fulfillment of the Degree of

MASTER OF ARTS IN HISTORY

By

JESNIYA T A

Register No: CCATMHI012

Under the Supervision of

Ms. LISHA K K




**POST GRADUATE AND RESEARCH DEPARTMENT OF
HISTORY**

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKKUDA

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



CERTIFICATE

This is to certify that the dissertation "**A STUDY ON ANGLO – INDIANS OF KERALA WITH SPECIAL REFERENCE TO MATHILAKAM, THRISSUR DISTRICT**" is a bona-fide record of study done by **JESNIYA T. A** under my supervision in partial fulfillment of the requirements of the degree of Master of Arts in History and that no part of this dissertation has been submitted before the award of any Degree or Diploma.




Place: Irinjalakuda

Ms. LISHA K. K

Date: 12.09.2021.

Supervising Teacher


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**POSITION AND POWER STRUCTURE OF
TACHUDAYA KAIMAL; KOODALMANIKYAM
TEMPLE, IRINJALAKUDA**

Dissertation submitted to the
Christ College (Autonomous) Irinjalakuda
In partial fulfillment for the degree of

MASTER OF ARTS IN HISTORY

By

LAKSHMIPRIYA A

Register number: CCATMHI013

Under the supervision of

Ms. JINCY S.R.



**POST GRADUATE AND RESEARCH
DEPARTMENT OF HISTORY
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

2021

Fr. Dr. Jolly Andrews
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the dissertation entitled 'Position and Power Structure of Tachudaya Kaimal; Koodalmanikyam Temple, Irinjalakuda' is a record of bonafied research work done by Ms. Lakshmipriya A. under my guidance and supervision in partial fulfillment for the requirement of Master of Arts in History. It has not the best of my knowledge been the basis of the award of any other degrees.

Place: Irinjalakuda

Ms. Jincy S. R.

Date:

Supervising Teacher

Forwarded by: Ms. Lisha K.K.
H.O.D

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



THE HISTORY OF RAVUTHERS IN IRINJALAKUDA: LIFE, CULTURE AND HISTORY OF RAVUTHARANGADI

Dissertation submitted to Christ College (Autonomous), Irinjalakuda

In partial fulfillment of the Degree of

MASTER OF ARTS IN HISTORY

By

NISHADA SUDHEER

REG NO. CCATMHIS015

Under the supervision of

MR. DEEPAK.J



CHRIST
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA

DEPARTMENT OF HISTORY

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA- 680125

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

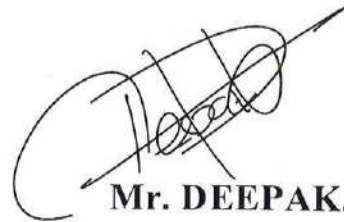


CERTIFICATE

This is to certify that the Project Report titled **THE HISTORY OF RAVUTHERS IN IRINJALAKUDA: LIFE, CULTURE AND HISTORY OF RAVUTHARANGADI** is a record of genuine work done by **Ms.NISHADA SUDHEER**, under my guidance and supervision, in partly fulfillment of the requirements for the award of the Degree of Master of Arts in History and that no part of it has been submitted before the award of any degree or diploma.


Ms. LISHA. K.K

HEAD OF THE DEPARTMENT



Mr. DEEPAK.J

RESEARCH SUPERVISOR



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



FOLK ARTS: A STUDY ON THRISSUR KUMMATTIKALI

*A dissertation submitted to
Christ College, Autonomous, Irinjalakuda, Trissur
in partial fulfilment of the requirements for the award of the
Degree of Master of Arts in History*

BY

PRISTINE JOSHY

Reg No: CCATMHI016

Under the supervision of

Dr. SREEVIDHYA.V



P.G DEPARTMENT OF HISTORY & RESEARCH
CHRIST COLLEGE, IRINJALAKUDA

SEPTEMBER-2021

Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DECLARATION

I **Pristine Joshy** hereby declare that the dissertation **FOLK ARTS: A STUDY ON THRISSUR KUMMATTIKALI** submitted by me in partial fulfilment for the degree of Master of Arts in History is a record of the study done by me during the year 2019 - 2020 under the supervision of **Dr. Sreevidhya. V**, P.G Department of History, Christ College, Irinjalakuda. This has not been the basis for the award of any other degree.

Place: Irinjalakuda

Pristine Joshy

Date:


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**HISTORY OF CHALAKUDY WITH
SPECIAL REFERENCE TO THE CHALAKUDY RIVER**

Dessertation submitted to
Christ college ,irinjalakuda(autonomous)

In partial fulfillment of degree of

MASTER OF ART IN HISTORY

By

ROSMY JOSE Reg: CCATMHI017

Under the supervision of

MR. BINU M JOHN



2019-2021

POST GRAGUATE AND RESEARCHDEPARTMENT OF HISTORY

CHRIST COLLEGE (AUTONOMOUS)

IRINGALAKODA

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Postgraduate
Christ College (Autonomous)



CERTIFICATE

I hereby certify that this dissertation entitled History of **Chalakudy with Special Reference To The Chalakudy River** is a bona fide research work done independently by **ROSMY JOSE** in partial fulfilment of Degree of Master of Arts in History under my guidance and supervision and that no part of it has been presented earlier for award of any Degree , in other university .

Chalakudy

Dr. Binu. M. John ,
assistant professor,
Christ college (autonomous)irinjalakuda.


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Principal's Office



TRACING THE HISTORICAL AND CULTURAL IMPORTANCE OF PERUVANAM TEMPLE

Dissertation submitted to Christ College (Autonomous) Irinjalakuda in
partial fulfillment of the Degree of
MASTER OF ARTS IN HISTORY

By

SANA SALIM

Register No: CCATMHI018

Under the Supervision of

Ms. LISHA K. K



2021

POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKKUDA

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the dissertation, **"TRACING THE HISTORICAL AND CULTURAL IMPORTANCE OF PERUVANAM TEMPLE"**

is a bona-fide record of study done by **MS. SANA SALIM** under my supervision in partial fulfillment of the requirement of M.A Degree in History and that no part of this dissertation has been submitted before the award of any degree or diploma.

Place: Irinjalakuda.


Ms. LISHA K. K

Date:

Supervising Teacher



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A HISTORICAL APPRAISAL OF THE ROLE OF KOTTAPURAM MARKET IN THE TRADE RELATIONS OF KODUNGALLUR

Dissertation submitted to the
Christ College (Autonomous) Irinjalakuda
In partial fulfilment for the degree of
MASTER OF ARTS IN HISTORY

By,

SIDDHIV S. ALGERI

Register No : CCATMHI019

Under the Supervision of

Ms. JINCY S. R.



**POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY
CHRIST COLLEGE (AUTONOMOUS)**

IRINJALAKUDA

2021
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



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Place: Irinjalakuda


Ms.JINCY.S.R

Date:

Supervising Teacher

Forwarded by: Ms. Lisha K.K

H.O.D


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



**HISTORICIZING RITUAL PERFORMANCE:
A SPECIAL REFERENCE TO *MALAVAZHIYATTAM* OF
PARAYA'S IN THRISSUR**

Dissertation submitted to the
Christ College (Autonomous) Irinjalakuda

In partial fulfillment for the Degree of

MASTER OF ARTS IN HISTORY

By

SNEHA K

Register No: CCATMHI020

Under the Supervision of

MS. JINCY S.R.



POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA

2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
(Christ College Autonomous)



CERTIFICATE

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Place: Irinjalakuda

Date:

Ms. Jincy S.R.

Supervising Teacher

Forwarded by: Ms. Lisha K.K.

H.O.D

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Trinjalakuda, Thrissur



HISTORY OF PONNANI:

WITH SPECIAL REFERENCE TO CULTURAL TRADITIONS AND ISLAMIC INFLUENCE

Dissertation submitted to Christ College, Irinjalakuda
(Autonomous).

In partial fulfillment for the Degree of

MASTER OF ARTS IN HISTORY

By

SREELAKSHMI.C

RegisterNo: CCATMHI021

Under the Supervision of

Dr. BINU M. JOHN



POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)



CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA 2021


DECLARATION

I, SREELAKSHMI.C hereby declare that this dissertation **HISTORY OF PONNANI :
WITH SPECIAL REFERENCE TO CULTURAL TRADITIONS AND ISLAMIC INFLUENCE**,
submitted by me in partial fulfillment for the degree of Master of Arts in History
is a record of the study done by me during the year 2019-2021 under the
supervision of Dr. Binu M John , Department of History, Christ College,
Irinjalakuda. This has not been the basis for the award of any other Degree.

Place: Irinjalakuda

SREELAKSHMI.C

Date:


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



LOCAL HISTORY OF CHENAM; A STUDY OF INSTITUTIONS AND SOCIAL RELATIONS

A Dissertation submitted to Christ College, (Autonomous) Irinjalakuda,
Thrissur in partial fulfillment of the requirements for the award of the
Degree of Master of Arts in History

BY

SUHAINA Y H

Register No: CCATMHI022

Under the Supervision of

Dr SREEVIDHYA V



**P.G.DEPARTMENT OF HISTORY&RESEARCH CHRIST
COLLEGE (AUTONOMOUS)**

IRINJALAKUDA

SEPTEMBER-2021

28/9/21

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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Place: Irinjalakuda

Date:

Dr. SREEVIDHYA. V.

Supervising Teacher


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**HISTORY OF THOLPAVAKOOTH IN KERALA WITH
SPECIAL REFERENCE TO THOLPAVAKOOTH IN
PALAPETTY TEMPLE**

**dissertation submitted to Christ College, Irinjalakuda (Autonomous) in
partial fulfilment for the degree of Master of Arts in History**

BY

SWETHA TS

REGISTER NO: CCATMHI023

UNDER THE SUPERVISION OF

DR. BINU M JOHN



POST GRADUATION AND RESEARCH DEPARTMENT OF HISTORY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Department
Christ College (Autonomous)
Irinjalakuda



DECLARATION

I, SWETHA TS hereby declare that this dissertation **HISTORY OF THOLPAVAKOOTH IN KERALA WITH SPECIAL REFERENCE THOLPAVAKOOTH IN PALAPETTY TEMPLE**, submitted by me in partial fulfillment for the degree of Master of Arts in History is a record of the study done by me during the year 2019-2021 under the supervision of Dr.Binu M John , Department of History, Christ College, Irinjalakuda. This has not been the basis for the award of any other Degree.

Place: Irinjalakuda

Swetha TS

Date:

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CODING THEORY

Project report submitted to Christ College (Autonomous) in partial fulfilment of
the requirement for the award of the M.Sc Degree programme in Mathematics

by

ALIYA T K

Register No. CCATMMS001



Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2021

Fr. Dr. Jolly Andrews
Assistant Professor
In charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "**CODING THEORY**" submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms. ALIYA T K (CCATMMS001)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019-2021.



Dr. SHINTO K G

Assistant Professor

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda



Dr. SEENA V

HoD in Charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Matroid Theory

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

AMAYA P M

Register No.CCATMMS002



Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. J. Andrews

Assistant Professor-

In-charge of Principal


Christ College (Autonomous)

Irinjalakuda



CERTIFICATE

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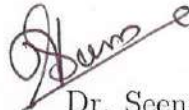

Mr. Jomesh Jose

Adhoc Lecturer

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda



Dr. Seena V

HoD in Charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STUDY ON ENERGY OF GRAPH

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

AMRITHA K S

Register No.CCATMMS003



Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

2021

Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "**A STUDY ON ENERGY OF GRAPH**" submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms. AMRITHA K S (CCATMMS003)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021



Dr. Joju K T

Associate Professor(Rtd)

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda



Dr. seena V

HoD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Digital Topology

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

AMRUTHA PRIYA

Register No.CCATMMS004



Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

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Mr. Jomesh Jose

Adhoc Lecturer

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda



Dr. Seena V

HoD in Charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A study on semigroups

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

ANJANA N P

Register No.CCATMMS005



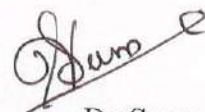
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda
2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “A study on Semigroups” submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms.ANJANA N P (CCATMMS005)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021



Dr Seena V

HoD in Charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



PELL'S EQUATION

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

ANNA ROSE K

Register No. CCATMMS006



Department of Mathematics
Christ College (Autonomous)

Irinjalakuda

2021

Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "PELL'S EQUATION " submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by Ms. ANNA ROSE K (CCATMMS006) during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019-2021.



NAVEEN V V

Ad-hoc Lecturer

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



Dr. SEENA V

HoD In-charge

Department of Mathematics


Christ College (Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



QUEUEING THEORY

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

APARNA DEVAN

Register No. CCATMMS007



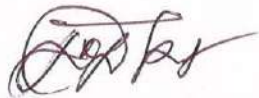
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda
2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "QUEUEING THEORY " submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms. APARNA DEVAN (CCATMMS007)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019-2021.



Dr. JOJU K T
Associate Professor(Retired)
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

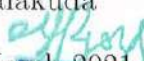


Dr. Seena V
HoD in Charge
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021


P. D. Joy Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Concepts And Results On Fuzzy Metric Space

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

APARNA MURALEEDHARAN

Register No.CCATMMS008



Department of Mathematics
Christ College (Autonomous)
Irinjalakuda
2021

Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

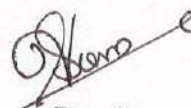


CERTIFICATE

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Dr. V. Vibitha Kochamani
Ad-hoc Faculty
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda



Dr. Seena V
HoD in Charge
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



An Introduction To Topological Manifold

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

Aysha Thanseeha K S

Register No.CCATMMS009



Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

2021

[Handwritten signature]

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “**An Introduction To Topological Manifold** ” submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms. Aysha Thanseeha K S (CCATMMS009)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019-2021



Dr. V.Vibitha Kochamani
Ad-hoc Faculty
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda



Dr.Seena v
HoD in charge
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021 

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



BILINEAR FORMS

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by


DAS GEORGE TENSION

Register No.CCATMMS010



Department of Mathematics

Christ College (Autonomous)

 Irinjalakuda
2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “**Bilinear Forms**” submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Mr. Das George Tenson (CCATMMS010)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019 -2021


Fr. Dr. Vincent N S
Assistant Professor
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

Prof. Tintumol Sunny
Head of the Department
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Irinjalakuda

31 March 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Net And Filters

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics by

JESLIN JOHNSON

Register No.CCATMMS011



Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "Net And Filters" submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms. Jeslin Johnson (CCATMMS011)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021



Mr. Jomesh Jose
Adhoc Lecturer
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

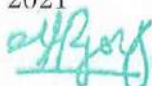


Dr. Seena V
HoD in charge
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Study On Devaney Chaos, Turbulent Functions And Erratic Functions

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

LIYA CHACKO

Register No.CCATMMS012



Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2021

Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “Study On Devaney Chaos, Turbulent Functions And Erratic Functions” submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by Ms. **LIYA CHACKO (CCATMM012)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019-2021

Dr.V Vibitha Kochamani
Ad-hoc Faculty
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

Dr Seena V
HoD in Charge
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



SEMIGROUPS

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

MANIMEGHALA ACHUTHAN

Register No.CCATMMS013



Department of Mathematics
Christ College (Autonomous)

Irinjalakuda

2021

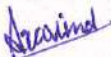
Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “SEMIGROUPS” submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms. MANIMEGHALA ACHUTHAN (CCAT-MMS013)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019-2021

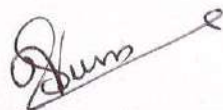

Mr. Aravind Krishnan R

Ad-hoc Faculty

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda



Dr. Seena V

HOD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Krull Dimension

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

MEERA NOURIN KALAKKAT

Register No.CCATMMS014



Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

21/12/2021
2021

Er. Dr. Jolly Andrews

Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

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Dr.V.Vibitha Kochamani
Ad-hoc Faculty
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda



Dr.Seena V
HoD in charge
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College(Autonomous)
Irinjalakuda



FIXED POINT THEOREMS IN TOPOLOGY AND GEOMETRY

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

SAFA.E.S

Register No. CCATMMS015



Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2021

SAFA.E.S
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "**FIXED POINT THEOREMS IN TOPOLOGY AND GEOMETRY**" submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms.SAFA.E.S (CCATMMS015)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019-2021.



NAVEEN.V.V

Ad-hoc Lecturer

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda



Dr. Seena V

HoD in-Charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Fr. Dr. Jolly Andrews
Date: 31 March 2021
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Domination In Graphs

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

SANJANA K B

Register No.CCATMMS016



Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda

2021



CERTIFICATE

This is to certify that the project entitled "**Domination in Graphs**" submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms.SANJANA K B (CCATMMS016)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021.



Dr. Seena V


HoD in charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner :


Place : Irinjalakuda
Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Date : 31 March 2021
Christ College (Autonomous)
Irinjalakuda



GRAPH LABELING

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

SILPA K

Register No. CCATMMS017



Department of Mathematics
Christ College (Autonomous)

Irinjalakuda

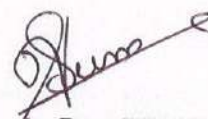
2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “GRAPH LABELING ” submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by Ms. SILPA K (CCATMMS017) during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019-2021.



Dr. SEENA V

HoD-in-Charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021



Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Rhotrix Theory

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

SNEHA FRANCIS

Register No.CCATMMS018



Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "**Rhotrix Theory**" submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms. SNEHA FRANCIS (CCATMMS018)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021



Dr. Shinto K G

Assistant Professor

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda



Dr. Seena V

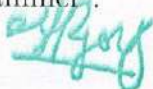
HoD In Charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :



Place : Irinjalakuda

Date : 31 March 2021

Fr. Dr. Jolly Andrews
Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Stationary Solutions of Navier Stokes Equations

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

Varghese Chacko

Register No.CCATMMS019

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda


2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “Stationary Solutions of Navier Stokes Equations” submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Mr. Varghese Chacko (CCATMMS019)** during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2019-2021



Mr Naveen V V
Ad-hoc Lecturer
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



Dr. Seena V
Head of the Department (In-Charge)
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31 March 2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Lattice Topolgy

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of the M.Sc Degree
programme in Mathematics

by

VRINDHA VENUGOPAL

Register No.CCATMMS020




Department of Mathematics
Christ College (Autonomous)
Irinjalakuda
2021

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "**Lattice Topology**" submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms. VRINDHA VENUGOPAL (CCAT-MMS020)** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021



Dr. Seena V

HoD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 31/03/2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



30

TECHNIQUES FOR MEASURING PERMITTIVITY
AND THICKNESS OF DIELECTRIC SHEETS USING
BROADSIDE- COUPLED SPLIT- RING RESONATOR
METAMATERIAL STRUCTURE

Submitted

By

ABHAY PINTO

Reg no:CCATMPH001



Post Graduate and Research Department of Physics
Christ College (Autonomous), Irinjalakuda

CALICUT UNIVERSITY

July 2021

In Partial Fulfilment of the Requirement for the Degree

MASTER OF SCIENCE IN PHYSICS


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project report entitled "TECHNIQUES FOR MEASURING PERMITTIVITY AND THICKNESS OF DIELECTRIC SHEETS USING BROADSIDE- COUPLED SPLIT-RING RESONATOR METAMATERIAL STRUCTURE" is a bonafide work done by Mr.ABHAY PINTO (Reg no:CCATMPH001) in the Electromagnetic Research lab,Department of Physics, Christ college (Autonomous), Irinjalakuda in partial fulfilment of the requirement for the award of degree of Master of Science in Physics of Calicut University.

Rev Dr. Jolly Andrews
Assistant Professor
Department of Physics
Christ College(Autonomous)
Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



STUDY OF ECLIPSING BINARY STARS FROM KEPLER DATABASE

Project Report submitted to
DEPARTMENT OF PHYSICS
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



In Partial Fulfilment of the requirement for the award of the degree of
MASTER OF SCIENCE IN PHYSICS

Submitted by
ALOYSIA FRANCIS VADUKUT CCATMPH002

Under the supervision of

Dr. Shaju K Y
Associate Professor
Department of Physics
Christ College (Autonomous), Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)

JULY 2021



CERTIFICATE

This is to certify that the project report entitled "**Study of Eclipsing Binary Stars from Kepler database**" is a bona fide work done by **Ms. Aloysia Francis Vadukut, Reg. no.:CCATMPH002**) at Department of Physics, Christ College (Autonomous), Irinjalakuda in partial fulfilment of the requirement for the award of **Degree of Master of Science in Physics** of *University Of Calicut*.

Dr. Shaju K Y

Associate Professor

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



**A COMPREHENSIVE STUDY OF CZTS SOLAR CELL
SIMULATION WITH DIFFERENT SULPHUR BASED BUFFER
LAYER**

Project Report submitted to

**DEPARTMENT OF PHYSICS
CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA**



In partial fulfilment of the requirement for the award of the degree
of **MASTER OF SCIENCE IN PHYSICS**

Submitted by

ANJU CHACKO

CCATMPH003

Under the supervision of

**Dr. Edwin Jose
Assistant
Professor
Department of
Physics**

Christ College (Autonomous) Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)

JUNE 2021




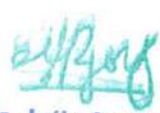
DECLARATION

I **Anju Chacko**, hereby declare that, this project work entitled "**A COMPREHENSIVE STUDY OF CZTS SOLAR CELL SIMULATION WITH DIFFERENT SULPHUR BASED BUFFER LAYER**" submitted to the Department of Physics, Christ College (Autonomous) Irinjalakuda, is a record of the original work done by me under the guidance of Dr. Edwin Jose, Assistant professor, Department of Physics, Christ College (Autonomous) Irinjalakuda.

Date:

Anju Chacko


Edwin Jose


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



SIMULATION STUDIES ON PEROVSKITE SOLAR CELLS FOR ENHANCED EFFICIENCY

Project report submitted to the
DEPARTMENT OF PHYSICS
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

MASTER OF SCIENCE IN PHYSICS

Submitted By

ASWANI K J

Reg No. CCATMPH004

Under The Supervision Of

Dr. SUDHEER SEBASTIAN K



DEPARTMENT OF PHYSICS
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
JUNE 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work entitled "SIMULATION STUDIES ON PEROVSKITE SOLAR CELLS FOR ENHANCED EFFICIENCY" is a bone fide work done by Ms. ASWANI K J (REG No. CCATMPH004), Department of physics, Christ college (Autonomous) Irinjalakuda in partial fulfillment of the requirements for the award of Degree of Master of Science in physics under the university of Calicut.



Dr. SUDHEER SEBASTIAN K.

Associate professor

Department of Physics

Christ College (Autonomous)

Irinjalakuda



Place: Irinjalakuda

Date: 31/08/2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



LIGHT CURVE ANALYSIS OF CLASSICAL CEPHEIDS

*Project report submitted in partial fulfilment of the requirement for the
award of the degree of*

MASTER OF SCIENCE IN PHYSICS

by

ATHIRA K

Reg: No: ---CCATMPH005-----


2019-2021

Guide: Dr. K.Y. SHAJU

Post Graduate and Research Department of Physics

Christ College (Autonomous), Irinjalakuda




Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Post Graduate and Research Department of Physics, Christ College
(Autonomous). Irinjalakuda

CERTIFICATE

This is to certify that the project report entitled "LIGHT CURVE ANALYSIS OF CLASSICAL CEPHEIDS" submitted to the Post Graduate and Research Department of Physics by ATHIRA K (Reg: No: ---CCATMPH005-----) is bona-fide work done by her under my guidance at Post Graduate and Research Department of Physics, Christ College (Autonomous), Irinjalakuda in partial fulfilment of the requirements for MSc Degree in Physics.

Irinjalakuda

August, 2021



DR. SHAJU K.Y

Associate professor



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



SIMULATION STUDIES ON BULK HETEROJUNCTION ORGANIC SOLAR CELL USING SCAPS-1D

Project report submitted to the

**DEPARTMENT OF PHYSICS
CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA**

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

MASTER OF SCIENCE IN PHYSICS

Submitted by

DIVYA A

Reg.no.: CCATMPH006

Under the supervision of

Dr. SUDHEER SEBASTIAN K



DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

Fr. Dr. J. J. Andrews

Assistant Professor-

In-charge of Physics

Christ College (Autonomous)

Irinjalakuda

JUNE 2021



BONAFIDE CERTIFICATE

This is to certify that the project titled **SIMULATION STUDIES ON BULK HETEROJUNCTION ORGANIC SOLAR CELL USING SCAPS-1D** is a bonafide record of the work done by

DIVYA A (CCATMPH006)

in partial fulfilment of the requirement for the award of the degree of **Master of Science in Physics of Christ College (Autonomous), Irinjalakuda**, during the year 2019-2021



Dr. SUDHEER SEBASTIAN K

Project Guide

Associate Professor

Department of Physics



Dr. K Y SHAJU

Head of the Department

Associate Professor

Department of Physics

Project Viva-Voce held on

Internal Examiner
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



External Examiner

ANALYSIS OF NEAR FIELD DISTRIBUTION AND
ITS CAPACITIVE EFFECTS ON THE RESONANCE
PROPERTIES OF SPLIT RING RESONATOR AND
BROADSIDE COUPLED SPLIT RING RESONATOR
METAMATERIAL STRUCTURES

Submitted

By

DONA JOSEPH

Reg no:CCATMPH007




Post Graduate and Research Department of Physics
Christ College (Autonomous), Irinjalakuda

CALICUT UNIVERSITY
JULY 2021

In Partial Fulfilment of the Requirement for the Degree

MASTER OF SCIENCE IN PHYSICS


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project report entitled "Analysis of near field distribution and its capacitive effects on the resonance properties of split ring resonator and broadside coupled split ring resonator structures" is a bonafide work done by Ms.DONA JOSEPH (Reg no:CCATMPH007) in the Electromagnetic Research lab, Department of Physics, Christ college (Autonomous), Irinjalakuda in partial fulfilment of the requirement for the award of degree of Master of Science in Physics of Calicut University.

Rev Dr. Jolly Andrews
Assistant Professor
Department of Physics
Christ College(Autonomous)
Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**STUDY OF ECLIPSING BINARY STARS
FROM
OGLE DATABASE**

**Project Report submitted to
DEPARTMENT OF PHYSICS
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**



In Partial Fulfillment of the requirement for the award of the degree of

MASTER OF SCIENCE IN PHYSICS


Submitted by

GOPIKA C T

CCATMPH008

Under the supervision of

**Dr. Shaju K Y
Associate Professor
Department of Physics
Christ College (Autonomous), Irinjalakuda
JULY 2021**


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

IRINJALAKUDA NORTH, 680125



CERTIFICATE

This is to certify that the project report entitled “**STUDY OF ECLIPSING BINARY STARS FROM OGLE DATABASE**” is a bonafide record of **GOPIKA C T (Reg No: CCATMPH008)** under the guidance of Dr. Shaju K Y (Associate Professor Department of Physics, Christ College Irinjalakuda) In partial fulfillment of the requirement for the award of the degree of Master of Science in physics during the academic year 2019-2021.

Dr. Shaju K Y

Associate Professor

Department of Physics

Christ College (Autonomous) Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



PERMITTIVITY MEASUREMENTS OF DIELECTRIC
MATERIALS USING SPLIT RING RESONATOR
METAMATERIAL STRUCTURES

Submitted

By

NAVYA JOY P

Reg no:CCATMPH009



Post Graduate and Research Department of Physics
Christ College (Autonomous), Irinjalakuda

CALICUT UNIVERSITY
JULY 2021

In Partial Fulfilment of the Requirement for the Degree

MASTER OF SCIENCE IN PHYSICS


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project report entitled "Permittivity measurements of dielectric materials using split ring resonator metamaterial structures" is a bonafide work done by Ms.NAVYA JOY P (Reg no:CCATMPH009) in the Electromagnetic Research lab, Department of Physics, Christ college (Autonomous), Irinjalakuda in partial fulfilment of the requirement for the award of degree of Master of Science in Physics of Calicut University.

Rev Dr. Jolly Andrews
Assistant Professor
Department of Physics
Christ College(Autonomous)
Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**OPTIMISATION OF INORGANIC HOLE TRANSPORT LAYERS
FOR PEROVSKITE SOLAR CELLS USING SCAPS-1D**

Project Report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA



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

MASTER OF SCIENCE IN PHYSICS

Submitted by

NAVYA K GIGIMON

CCATMPH010

Under the supervision of

**Dr. Edwin Jose
Assistant Professor
Department of Physics
Christ College (Autonomous) Irinjalakuda**

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

JUNE 2021




DECLARATION

I Navya K Gigimon, hereby declare that, this project work entitled "**OPTIMISATION OF INORGANIC HOLE TRANSPORT LAYERS FOR PEROVSKITE SOLAR CELLS USING SCAPS-1D**" submitted to the Department of Physics, Christ College (Autonomous) Irinjalakuda, is a record of the original work done by me under the guidance of Dr. Edwin Jose, Assistant professor, Department of Physics, Christ College (Autonomous) Irinjalakuda.

Date:

Navya K Gigimon


Edwin Jose


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A REVIEW ON FABRICATION METHODS OF ZINC OXIDE THIN FILMS AND ITS APPLICATIONS

Submitted By,

NENA MOHAMED IQBAL

Reg No: CCATMPH011

In Partial Fulfilment

Of the Requirements for the Degree

MASTER OF SCIENCE IN PHYSICS

SUPERVISING GUIDE

Dr. XAVIER JOSEPH



Post Graduate & Research Department of Physics

Christ College (Autonomous), Irinjalakuda

CALICUT UNIVERSITY

JULY 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "A REVIEW ON FABRICATION METHODS OF ZINC OXIDE THIN FILMS AND ITS APPLICATIONS" submitted by NENA MOHAMED IQBAL is an authentic record of project work carried out by her under my guidance and supervision in partial fulfilment of the award of degree of Master of Physics under the faculty of science of the University of Calicut. The work presented in this dissertation has not been submitted earlier for the award of any other degree.

IRINJALAKUDA

31-08-2021

Dr. Xavier Joseph

Associate Professor

Dept. of Physics

Christ College Irinjalakuda

(Supervising Guide)

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



STUDIES ON TRANSPARENT CONDUCTING OXIDES FOR THERMOELECTRIC POWER GENERATION

Submitted

By

REEBA WILSON

Reg no :CCATMPH012



Post Graduate and Research Department of Physics
Christ College (Autonomous), Irinjalakuda

CALICUT UNIVERSITY

JUNE 2021

In Partial Fulfilment of the Requirement for the Degree

MASTER OF SCIENCE IN PHYSICS

Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



BONAFIDE CERTIFICATE

This is to certify that the project titled **STUDIES ON TRANSPARENT CONDUCTING OXIDES FOR THERMOELECTRIC POWER GENERATION** is a bonafide record of the work done by

REEBA WILSON (CCATMPH012)

in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics of the **CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA**, during the year 2019-2021.



Dr. ANJU PAULSON

Project Guide.

Department of physics



Dr. SHAJU K.Y

Head of the department

Associate professor

Department of physics

Project viva held on

Internal Examiner



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

External Examiner



STUDIES ON OXIDE MATERIALS FOR THERMOELECTRIC POWER GENERATION

Submitted

By

SNEHA T S

Reg no: CCATMPH013



Post Graduate and Research Department of Physics

Christ College (Autonomous), Irinjalakuda

CALICUT UNIVERSITY

JUNE 2021

In Partial Fulfillment of the Requirement for the Degree

MASTER OF SCIENCE IN PHYSICS

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



BONAFIDE CERTIFICATE

This is to certify that the project titled OXIDE MATERIALS FOR THERMOELECTRIC POWER GENERATION is a bonafide record of the work done by

SNEHA T S (CCATMPH013)

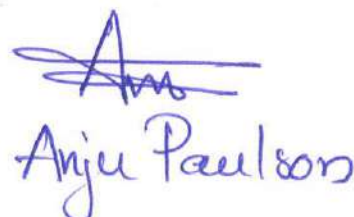
in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics of the CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA, during the year 2019 – 2021.

DECLARATION

I SNEHA T S hereby declare that, this project work entitled “**Studies on oxide materials for thermoelectric power generation**” submitted to the Department of Physics, Christ College (Autonomous) Irinjalakuda, is a record of the original work done by me under the guidance of Dr. Anju Paulson, Assistant professor, Department of Physics, Christ College (Autonomous) Irinjalakuda.



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

**A REVIEW ON RARE EARTH DOPED TELLURITE GLASSES FOR
INFRA RED AND WAVEGUIDE APPLICATIONS**

Submitted By

SUMY PAUL

Reg No: CCATMPHO14

In Partial Fulfillment

Of the Requirements for the Degree

MASTER OF SCIENCE IN PHYSICS

SUPERVISING GUIDE

Dr. XAVIER JOSEPH



Post Graduate & Research Department of Physics

Christ College (Autonomous), Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of P.G. Department
Christ College (Autonomous)
Irinjalakuda

CALICUT UNIVERSITY

2021



CERTIFICATE


This is to certified that the project report entitled " A review on rare earth doped tellurite glass for infrared and waveguide application" is a bonafide work done by Ms. SUMY PAUL , under my guidance in the Department of Physics, Christ Collge, Irinjalakuda.

Irinjalakuda


Dr. Xavier Joseph

31-08-2021

Supervising Guide


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



31

A STATISTICAL ANALYSIS OF CRIME IN INDIA

Project report submitted to Christ College (Autonomous) in
partial fulfillment of the requirement for the award of the M.Sc
Degree programme in Statistics

by

Adithya Narayanan

Register No.CCATMST001



Department of Statistics

Christ College (Autonomous)

Irinjalakuda

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "A statistical Analysis of Crime in India " submitted to Department of Statistics in partial fulfillment of the requirement for the award of the Masters Degree in Statistics, is a bonafide record of original research work done by Ms. Adithya Narayanan (CCATMST001) during the period of his study in the Department of Statistics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021.

Megha.C.M

Megha.C.M

Assistant Professor

Department of Statistics

Christ College(Autonomous)

Irinjalakuda

Dr. Davis Antony Mundassery

Dr. Davis Antony Mundassery

Head of the Department

Department of Statistics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : *21/12/2021*

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



STATISTICAL ANALYSIS AND PREDICTION OF GOLD PRICE IN INDIA

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of M.Sc. Degree
programme in Statistics

by

AGNES XAVIER

Register No.CCATMST002



Department of Statistics

Christ College (Autonomous)

Irinjalakuda

Handwritten signature in green ink.

2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled 'STATISTICAL ANALYSIS AND PREDICTION OF GOLD PRICE IN INDIA', submitted to the Department of Statistics in Partial fulfillment of the requirements for the award of the Masters Degree in Statistics, is a bonafied record of original research work done by **AGNES XAVIER (CCATMST002)** during the period of her study in the Department of Statistics, Christ College (Autonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the year 2020-2021.



Sruthi Mohan
Assistant Professor
Department of Statistics
Christ College (Autonomous)
Irinjalakuda



Dr. Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College (Autonomous)
Irinjalakuda

External Examiner:

Place: Irinjalakuda

Date: 05/08/2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



Application of Principal Component And Factor Analysis to Cricket Data

Project report submitted to Christ College (Autonomous) in
partial fulfillment of the requirement for the award of the M.Sc
Degree programme in Statistics

by


Alanya.P.P

Register No.CCATMST003



Department of Statistics
Christ College (Autonomous)
Irinjalakuda

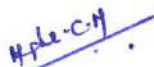
2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “**Application of Principal Component And Factor Analysis to Cricket Data**” submitted to Department of Statistics in partial fulfillment of the requirement for the award of the Masters Degree in Statistics, is a bonafide record of original research work done by **Ms. Alanya.P.P (CCATMST003)** during the period of his study in the Department of Statistics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021.


Megha.C.M
Assistant Professor
Department of Statistics
Christ College(Autonomous)
Irinjalakuda


Dr. Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date :5/8/2021


Fr. Dr. John Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



ANALYSIS ON BIKE BUYING HABIT OF AN INDIVIDUAL USING FACTOR ANALYSIS

Project report submitted to Christ College (Autonomous) in
partial fulfillment of the requirement for the award of the M.Sc
Degree programme in Statistics

by

Aparna K R

Register No.CCATMST004



Department of Statistics
Christ College (Autonomous)
Irinjalakuda


2019

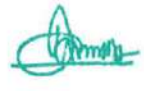

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



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This is to certify that the report entitled **ANALYSIS ON BIKE BUYING HABIT OF AN INDIVIDUAL USING FACTOR ANALYSIS** is a bonafide record of work done by **Aparna K R (CCATMST004)** during the academic year 2019-2021 . This report is submitted to the Department of Statistics, Christ College (Autonomous), Irinjalakuda, for the partial fulfilment of the requirement for the award of degree of Master of Science in Statistics.



Asst Prof. Geethu Gopinath
Department of Statistics
Christ College (Autonomous)
Irinjalakuda


Dr. Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College (Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 5/8/2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STATISTICAL STUDY ON CRIMES AGAINST WOMEN IN INDIA

Project report submitted to Christ College (Autonomous)
in partial fulfilment for the award of the M.Sc. Degree
programme in Statistics

by

ASWATHY M S

Register No. CCATMST005




Department of Statistics
Christ College (Autonomous)

Irinjalakuda

2021

1


Fr. Dr. J. Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled '**A STATISTICAL STUDY ON CRIMES AGAINST WOMEN IN INDIA**', submitted to the Department of Statistics in Partial fulfillment of the requirements for the award of the Masters Degree in Statistics, is a bonafied record of original research work done by **ASWATHY M S (CCATMST005)** during the period of her study in the Department of Statistics, Christ College (Autonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the year 2020-2021.



Mary Priya Jose

Assistant Professor

Department of Statistics

Christ College (Autonomous)

Irinjalakuda



Dr. Davis Antony Mundassery

Head of the Department

Department of Statistics

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Place: Irinjalakuda

Date: 05-08-2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



STATISTICAL STUDY ON EMPLOYEE PERFORMANCE OF COMPANY DATA

Project report submitted to Christ College (Autonomous)
in partial fulfilment for the award of the M.Sc. Degree
programme in Statistics

by

CHRISTY JOHNS

Register No. CCATMST006



Department of Statistics
Christ College (Autonomous)
Irinjalakuda
2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled 'STATISTICAL STUDY ON EMPLOYEE PERFORMANCE OF COMPANY DATA', submitted to the Department of Statistics in Partial fulfillment of the requirements for the award of the Masters Degree in Statistics, is a bonafied record of original research work done by **CHRISTY JOHNS (CCATMST006)** during the period of her study in the Department of Statistics, Christ College (Autonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the year 2020-2021



Mrs. Jiji M B
Assistant Professor
Department of Statistics
Christ College (Autonomous)
Irinjalakuda



Dr. Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College (Autonomous)
Irinjalakuda

External Examiner:

Irinjalakuda

05/Aug/2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STATISTICAL STUDY ON AGRICULTURAL SCENARIO IN INDIA

Project report submitted to Christ College (Autonomous)
in partial fulfilment for the award of the M.Sc. Degree
programme in Statistics

by

DINI DAVIS

Register No. CCATMST007



Department of Statistics

Christ College (Autonomous)

Irinjalakuda

2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled 'A STATISTICAL STUDY ON AGRICULTURAL SCENARIO IN INDIA', submitted to the Department of Statistics in Partial fulfillment of the requirements for the award of the Masters Degree in Statistics, is a bonafied record of original research work done by **DINI DAVIS (CCATMST007)** during the period of her study in the Department of Statistics, Christ College (Autonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the year 2020-2021



Ms.Sreedevi P N
Assistant Professor
Department of Statistics
Christ College (Autonomous)
Irinjalakuda



Dr.Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College (Autonomous)
Irinjalakuda

External Examiner:

Place:Irinjalakuda

Date: 05/08/2021

 **Dr. Jolly Andrews**
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STATISTICAL ANALYSIS OF STROKE PATIENTS

Project report submitted to Christ College (Autonomous),
Irinjalakuda in partial fulfillment of the requirement for the
award of the M.Sc Degree programme in Statistics

by

Jini T.R

Register No. CCATMST008



Department of Statistics

Christ College (Autonomous)

Irinjalakuda

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "A Statistical Analysis of Stroke patients " submitted to Department of Statistics in partial fulfillment of the requirement for the award of the M.Sc Degree programme in Statistics, is a bonafide record of original research work done by **Mrs. Jini T.R (CCATMST008)** during the period of his study in the Department of Statistics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021.



Ms. Linett George
Assistant professor
Department of Statistics
Christ College(Autonomous)
Irinjalakuda




Dr. Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date :



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



STUDY ON STRESS AND THEIR ASSOCIATED FACTORS AMONG HEALTH CARE WORKERS DURING COVID-19 PANDEMIC IN KERALA

Project report submitted to
Christ College (Autonomous)

in partial fulfilment for the award of the
M.Sc. Degree programme in Statistics

By

KRIPA P J

Register No. CCATMST009



Department of Statistics
Christ College (Autonomous)
Irinjalakuda

2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “**STUDY ON STRESS AND THEIR ASSOCIATED FACTORS AMONG HEALTH CARE WORKERS DURING COVID-19 PANDEMIC IN KERALA**”, submitted to the Department of Statistics in Partial fulfillment of the requirements for the award of the Masters Degree in Statistics, is a bonafied record of original research work done by **KRIPA P J (CCATMST009)** during the period of her study in the Department of Statistics, Christ College (Autonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the year 2020-2021.



Dr. Sr. Mariyamma K D
Assistant Professor
Department of Statistics
Christ College (Autonomous)
Irinjalakuda




Dr. Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College (Autonomous)
Irinjalakuda

External Examiner:

Place: Irinjalakuda

Date: 05/08/2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STUDY ON ROAD ACCIDENTS IN KERALA

Project report submitted to Christ College (Autonomous)

in partial fulfilment for the award of the M.Sc. Degree

programme in Statistics

by

LINNET MARY.

Register No. CCATMST010



Department of Statistics

Christ College (Autonomous)

Linnet Mary
Irinjalakuda
2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled '**A STUDY ON ROAD ACCIDENTS IN KERALA**', submitted to the Department of Statistics in Partial fulfillment of the requirements for the award of the Masters Degree in Statistics, is a bonafied record of original research work done by **LINNET MARY (CCATMST010)** during the period of her study in the Department of Statistics, Christ College (Autonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the year 2020-2021



Sreedevi P.N

Assistant Professor

Department of Statistics

Christ College (Autonomous)

Irinjalakuda



Dr.Davis Antony Mundassery

Head of the Department

Department of Statistics

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Place: Irinjalakuda

Date: 05/08/2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Analysis of Hockey Men's World Cup 2018 using Multivariate Techniques

Project report submitted to Christ College (Autonomous) in
partial fulfillment of the requirement for the award of the M.Sc
Degree programme in Statistics

by

Midhin.M.M

Register No.CCATMST011



Department of Statistics
Christ College (Autonomous)
Irinjalakuda

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled “Analysis of Hockey Men’s World Cup 2018 using Multivariate Techniques” submitted to Department of Statistics in partial fulfillment of the requirement for the award of the Masters Degree in Statistics, is a bonafide record of original research work done by **Mr. Midhin.M.M (CCATMST011)** during the period of his study in the Department of Statistics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021.




Sruthi Mohan
Assistant Professor
Department of Statistics
Christ College(Autonomous)
Irinjalakuda



Dr. Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College(Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 05/08/2021 
Billy Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CREDIT CARD FRAUD DETECTION

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of M.Sc. Degree
programme in Statistics

by

NEHA JOHNSON

Register No.CCATMST012



Department of Statistics
Christ College (Autonomous)
Irinjalakuda

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda




CERTIFICATE

This is to certify that the project entitled '**CREDIT CARD FRAUD PRE-
DICTION**', submitted to Department of Statistics in partial fulfillment of the
requirements for the award of the Masters Degree in Statistics, is a bonafied record
of original research work done by **NEHA JOHNSON (CCATMST012)** dur-
ing the period of her study in the Department of Statistics, Christ College (Au-
tonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the
year 2020-2021.



Linett George

Assistant Professor
Department of Statistics
Christ College(Autonomous)
Irinjalakuda




Dr. Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College(Autonomous)
Irinjalakuda

External Examiner:

Place:Irinjalakuda

Date:05/08/2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



PYRAMID SCHEME PREDICTING PROFIT OR LOSS

Project report submitted to Christ College (Autonomous)
in partial fulfilment for the award of the M.Sc. Degree
programme in Statistics

by

ROSS CYRIAC

Register No. CCATMST013



Department of Statistics

Christ College (Autonomous)

Irinjalakuda

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled '**PYRAMID SCHEME PREDICTING PROFIT OR LOSS**', submitted to the Department of Statistics in Partial fulfillment of the requirements for the award of the Masters Degree in Statistics, is a bonafied record of original research work done by **ROSS CYRIAC (CCATMST013)** during the period of her study in the Department of Statistics, Christ College (Autonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the year 2020-2021



Jiji M B

Assistant Professor

Department of Statistics

Christ College (Autonomous)

Irinjalakuda



Dr. Davis Antony Mundassery

Head of the Department

Department of Statistics


Christ College (Autonomous)

Irinjalakuda

External Examiner:

Irinjalakuda

05/08/2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



FORECASTING MONTHLY WEATHER OF INDIA

Project report submitted to Christ College (Autonomous)
in partial fulfilment of the requirement for the award of the M.Sc. Degree
programme in Statistics

by

SARATH KUMAR T S

Register No. CCATMST014



Department of Statistics

Christ College (Autonomous)

Irinjalakuda

2021


Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "**FORECASTING MONTHLY WEATHER OF INDIA**" submitted to Christ College (Autonomous), Irinjalakuda, in partial fulfillment of the requirement for the award of the Masters Degree in Statistics, is a bonafide record of original research work done by **SARATH KUMAR T S (CCATMST014)** during the period of his study in the Department of Statistics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2020-2021.

Geethu Gopinath

Assistant Professor

Department of Statistics

Christ College(Autonomous)

Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 05/08/2021

Dr. Davis Antony Mundassery

Head of the Department

Department of Statistics

Christ College(Autonomous)

Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STATISTICAL STUDY ON CRUDE OIL PRICE IN INDIA

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of M.Sc. Degree
programme in Statistics

by


SHIMILA MARIYA K J

Register No.CCATMST015



Department of Statistics
Christ College (Autonomous)
Irinjalakuda

2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled 'A STATISTICAL STUDY ON CRUDE OIL PRICE IN INDIA', submitted to the Department of Statistics in Partial fulfillment of the requirements for the award of the Masters Degree in Statistics, is a bonafied record of original research work done by **SHIMILA MARIYA K J (CCATMST015)** during the period of her study in the Department of Statistics, Christ College (Autonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the year 2020-2021



Sruthy Mohan

Assistant Professor

Department of Statistics

Christ College (Autonomous)

Irinjalakuda



Dr. Davis Antony Mundassery

Head of the Department

Department of Statistics

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Place: Irinjalakuda

Date: 05-08-2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



STATISTICAL ANALYSIS OF HEART DISEASE PATIENTS

Project report submitted to Christ College (Autonomous) in partial
fulfilment of the requirement for the award of M.Sc. Degree
programme in Statistics

by

SUSMI MANOJ

Register No.CCATMST016



Department of Statistics
Christ College (Autonomous)
Irinjalakuda


2021

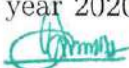

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project entitled "**STATISTICAL ANALYSIS OF HEART DISEASE PATIENTS** " submitted to the Department of Statistics in Partial fulfillment of the requirements for the award of the Masters Degree in Statistics, is a bonafied record of original research work done by **SUSMI MANOJ (CCATMST016)** during the period of her study in the Department of Statistics, Christ College (Autonomous) Irinjalakuda, Thrissur, under my supervision and guidance during the year 2020-2021.



Miss Linett George
Assistant Professor
Department of Statistics
Christ College (Autonomous)
Irinjalakuda


Dr. Davis Antony Mundassery
Head of the Department
Department of Statistics
Christ College (Autonomous)
Irinjalakuda

External Examiner :

Place : Irinjalakuda

Date : 05-08-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



32

A STUDY ON STRESS AMONG CAREGIVERS OF MENTALLY CHALLENGED AND PHYSICALLY HANDICAPPED CHILDREN

*A dissertation submitted to Christ College (Autonomous),
Irinjalakuda, Affiliated to the University of Calicut in partial
fulfillment of the Degree of*

MASTER OF SOCIAL WORK
Specializing in Medical & Psychiatry

Submitted by
AKHILA JOSE
REG.NO CCATMSW001

Under the Guidance of
Mr. AJEESH K.G
Asst. Professor in Social Work



all good

DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS),

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the dissertation entitled “**A Stress among Caregivers of Mentally Challenged and Physically Handicapped Children**”, submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms. AKHILA JOSE (Reg.No.CCATMSW001)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University .



Mr. AJEESH K.G

Guide and Supervisor



Ms. ROSEMARY T GEORGE

HOD, Dept. of Social Work

Signature of External Examiner

Name of External Examiner



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A study on the coping mechanism of the informal sector enterprises during the post-lockdown period in Ernakulam market

A dissertation submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in partial fulfillment of the Degree of

MASTER OF SOCIAL WORK
Specializing In
Community Development
Submitted by

AKSHA E.R
(REG. NO: CCASMSW002)

Under the Guidance of
Mrs. DHANYA K
Asst. Professor in Social Work



asf/gos

DEPARTMENT OF SOCIAL WORK

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

CHRIST COLLEGE
(AUTONOMOUS), IRINJALAKUDA

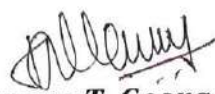
MARCH 2021



CERTIFICATE

This is to certify that the dissertation entitled "**A study on the coping mechanism of the informal sector enterprises during the post-lockdown period in Ernakulam market**", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Mrs.AKSHA E.R (Reg.No.CCATMSW002)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship and or similar title to any candidate of any University.


Ms. Dhanya .K


Rosemary T. George

Guide and Supervisor HOD, Dept. of

Social Work

Signature of External Examiner

Name of External Examiner



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A study on the effective use of social media in public health
education given by the government of Kerala**

**A dissertation submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the
University of Calicut in partial fulfillment of the Degree of**

MASTER OF SOCIAL WORK

**Specializing In
Medical and Psychiatric Social Work**

Submitted by

**ALISHA K S
(REG. NO: CCASMSW003)**

Under the Guidance of

**Mrs. DHANYA K
Asst. Professor in Social Work**



all 2021

**DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA**

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the dissertation entitled "**A study on the effective use of social media in public health education given by the government of Kerala**", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Mrs. ALISHA K S (Reg.No.CCATMSW003)** during the period **2019-2021** under the supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University.


Ms. Dhanya K

Guide and Supervisor


Rosemary T. George

HOD, Dept. of Social Work

Signature of External Examiner

Name of External Examiner


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



ANALYSIS OF ATTITUDE TOWARDS SPORTS AMONG BOYS AND GIRLS STUDENTS

*A dissertation submitted to Christ College (Autonomous),
Irinjalakuda, Affiliated to the University of Calicut in partial
fulfillment of the Degree of*


MASTER OF SOCIAL WORK
Specializing in Medical & Psychiatry

Submitted by
ASHLY JOSEPH
REG.NO CCATMSW004

Under the Guidance of
Ms. ASHA C.J
Asst. Professor in Social Work





Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda


DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA
MARCH 2019-2021

CERTIFICATE

This is to certify that the dissertation entitled “ **Analysis of attitude towards sports among boys and girls students** ”, submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms. ASHLY JOSEPH (Reg.No.CCATMSW004)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University .


Mr. ASHA C.J
Guide and Supervisor


Ms. ROSEMARY T GEORGE
HOD, Dept. of SocialWork

Signature of External Examiner

Name of External Examiner



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON ACADEMIC STRESS DUE TO
VIRTUAL LEARNING AMONG HIGHER
SECONDARY SCHOOL STUDENTS**

*A dissertation submitted to Christ College (Autonomous), Irinjalakuda,
Affiliated to the University of Calicut in partial fulfilment of the Degree of*

MASTER OF SOCIAL WORK

Specializing In Community Development

Submitted by

BINOY.KP

(REG. NO: CCATMSW005)

Under the Guidance of

Mr. SAIJITH N.S



**DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE
(AUTONOMOUS),**

IRINJALAKUDA

MARCH 2021

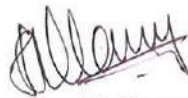
Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the dissertation entitled “**A study on academic stress due to virtual learning among higher secondary school students**”, submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Mr.BINOY.KP (Reg.No.CCATMSW005)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University .



Mrs.Rosemary.T.George

HOD,Dept.ofSocialWork

Mr.Saijith N.S



Guide and Supervisor

Signature of External Examiner

Name of External Examiner



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON THE RELATIONSHIP BETWEEN
SOCIAL MEDIA ADDICTION AND SOCIAL
ANXIETY AMONG ADOLESCENTS**

*A dissertation submitted to Christ College (Autonomous),
Irinjalakuda, Affiliated to the University of Calicut in partial
fulfillment of the Degree of*

MASTER OF SOCIAL WORK

Specializing In

Medical and Psychiatry

Submitted by

BONSY M P

(REG. NO: CCATMSW007)

Under the Guidance of

Mr. Allwin Thomas

Asst. Professor in Social Work



asf/2021

DEPARTMENT OF SOCIAL WORK

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

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(AUTONOMOUS), IRINJALAKUDA**

MARCH 2021

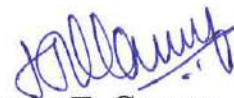
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This is to certify that the dissertation entitled "**A Study on the relationship between Social Media Addiction and Social Anxiety among adolescents**", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms. BONSY M P (Reg.No.CCATMSW007)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University .



Mr. Allwin Thomas

Guide and Supervisor



Rosemary T. George

HOD, Dept. of Social Work

Signature of External Examiner

Name of External Examiner


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STUDY ON BODY IMAGE PERCEPTION AND SELF-ESTEEM AMONG COLLEGE STUDENTS

*A dissertation submitted to Christ College (Autonomous), Irinjalakuda,
Affiliated to the University of Calicut in partial fulfilment of the Degree of*

MASTER OF SOCIAL WORK

Specializing In

Medical and Psychiatry

Submitted by

**GAYATHRY VENUGOPAL
(REG. NO: CCATMSW008)**

Under the Guidance of

**Ms. REMEEZA KHAN
Asst. Professor in Social Work**



DEPARTMENT OF SOCIAL WORK

**CHRIST COLLEGE
(AUTONOMOUS), IRINJALAKUDA**

MAY 2021

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Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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This is to certify that the dissertation entitled "**A Study on body image perception and self-esteem among College students**", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms. GAYATHRY VENUGOPAL (Reg.No.CCATMSW008)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship and or similar title to any candidate of any University.


Ms. Remeeza Khan


Guide and Supervisor


Rosemary T. George

**HOD, Dept. of
Social Work**

Signature of External Examiner

Name of External Examiner

 **Name of External Examiner**

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON UNIFORM BEHAVIOUR TRAITS IN CHILDREN
AND ELDERLY**

*A dissertation submitted to Christ College (Autonomous),
Irinjalakuda, Affiliated to the University of Calicut in partial
fulfillment of the Degree of*

MASTER OF SOCIAL WORK

Specializing In

Medical and psychiatry

Submitted by

GREESHMA MANI

(REG. NO: CCATMSW010)

Under the Guidance of

Mrs. ASHA JOSEPH

Asst. Professor in Social Work



**DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA**


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the dissertation entitled "**a study on uniform behaviour traits in children and elderly**", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by Ms. **GREESHMA MANI (Reg. No. CCATMSW010)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University .


Mrs. ASHA JOSEPH

Guide and Supervisor


Mrs. ROSEMARY T. GEORGE

HOD, Dept. of Social Work

Signature of External Examiner

Name of External Examiner


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON KNOWLEDGE AND INVOLVEMENT OF TRIBAL
COMMUNITY IN VANAVAKASHA GRAMSABHA (FOREST RIGHT
GRAMA SABHA), SPECIAL REFERENCE TO KADAR COMMUNITY.**

A dissertation submitted to Christ College (Autonomous), Irinjalakuda,

Affiliated to the University of Calicut in partial fulfillment of the Degree of

MASTER OF SOCIAL WORK

Specializing In

RURAL AND URBAN

COMMUNITY

DEVELOPMENT

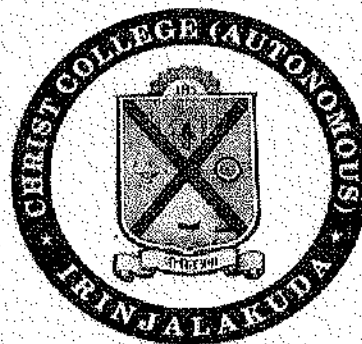
Submitted by

**GREESHMA P S
(REG. NO: CCATMSW011)**

Under the Guidance of

Mr. ALLWIN THOMAS N T

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK


CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MARCH 2021

CERTIFICATE

This is to certify that the dissertation entitled "**A STUDY ON KNOWLEDGE AND INVOLVEMENT OF TRIBAL COMMUNITY IN VANAVAKASHA GRAMSABHA (FOREST RIGHT GRAMA SABHA), SPECIAL REFERENCE TO KADAR COMMUNITY**", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Mrs. GREESHMA P S (Reg.No.CCATMSW011)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University .


Mr. ALLWIN THOMAS N T
Guide and Supervisor


Mrs. ROSEMARY T. GEORGE
HOD, Dept. of Social Work

Signature of External Examiner

Name of External Examiner



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



AN ANALYZE OF SPORTS ANXIETY AMONG ATHLETES DURING THE COMPETITION PERIOD

*A dissertation submitted to Christ College (Autonomous), Irinjalakuda,
Affiliated to the University of Calicut in partial fulfillment of the Degree of*

MASTER OF SOCIAL WORK
Specializing in Medical & Psychiatry

Submitted by
JESLY JUSTIN
REG.NO CCATMSW012

Under the Guidance of
Ms. ROSEMARY T GEORGE
Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA

MARCH 2019-2021

asfjg
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the dissertation entitled “**An Analyze of Sports Anxiety among Athletes during the Competition Period**”, submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms. JESLY JUSTIN (Reg.No.CCATMSW012)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University .

Ms. ROSEMARY T GEORGE

Guide and Supervisor

Ms. ROSEMARY T GEORGE

HOD, Dept. of Social Work

Signature of External Examiner

Name of External Examinee

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON THE IMPACT OF ONLINE EDUCATION ON SPECIAL
EDUCATION DURING COVID-19 PANDEMIC WITH SPECIAL
REFERENCE TO MITHRALAYAM SPECIAL SCHOOL, MALA.**

*A dissertation submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the
University of Calicut in partial fulfillment of the Degree of*

MASTER OF SOCIAL WORK

Specializing In

Medical and Psychiatry

Submitted by

JESMY JOHN

(REG. NO: CCATMSW013)

Under the Guidance of

Mrs. DHANYA K

Asst. Professor in Social Work



affgorg

DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda




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This is to certify that the dissertation entitled “**A Study on the impact of online education on special education during Covid-19 Pandemic with special reference to Mithralaym Special School, Mala**”, submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms. JESMY JOHN (Reg.No.CCATMSW013)** during the period **2018-2020** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University .


Ms. DHANYA K

Guide and Supervisor


Mrs. ROSEMARY T GEORGE

HOD, Dept. of Social Work

Signature of External Examiner

Name of External Examiner


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON PERCEIVED STRESS OF
ADOLESCENTS DURING THE PERIOD OF COVID-19
PANDEMIC**

*A dissertation submitted to Christ College (Autonomous),
Irinjalakuda, Affiliated to the University of Calicut in partial
fulfillment of the Degree of
MASTER OF SOCIAL WORK*

Specializing In Medical and Psychiatry

Submitted by

JINUPRIYA GIMMY (REG.NO: CCATMSW014)

**Under the guidance of Mr. Saijith N.S
Asst. Professor in Social Work**



**DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA
MARCH 2021**


Fr. Dr. Jolly Andrews

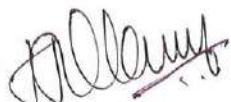
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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This is to certify that the dissertation entitled "**A Study on Perceived Stress of Adolescents during the period of COVID 19 pandemic**", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms. JINUPRIYA GIMMY (Reg.No : CCATMSW014)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship and or similar title to any candidate of any University.


Mr. Saijith N.S
Guide and Supervisor


Rosemary T. George
HOD, Dept. of
Social Work

Signature of External Examiner

Name of External Examiner


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



PERCEIVED STRESS OF HEALTH INSPECTORS DURING COVID 19 PANDEMIC

*A dissertation submitted to Christ College (Autonomous),
Irinjalakuda, Affiliated to the University of Calicut in partial
fulfillment of the Degree of
MASTER OF SOCIAL WORK*

Specializing In

Medical & Psychiatric Social Work

Submitted by

JOSMY JOSE

(REG. NO: CCATMSW015)

Under the Guidance of

Mrs. Rosemary. T. George

Asst. Professor



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS),

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



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Mrs. Rosemary. T. George

Guide and Supervisor

Mrs. Rosemary. T. George

HOD, Dept. of Social Work

Signature of External Examiner

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Name of External Examiner

**‘A STUDY ON PARENTING STYLES AND ACADEMIC
PERFORMANCE OF ADOLESCENTS’**

*A dissertation submitted to Christ College (Autonomous), Irinjalakuda,
Affiliated to the University of Calicut in partial fulfillment of the Degree of*

MASTER OF SOCIAL WORK

Specializing in

Medical and Psychiatric Social Work

Submitted by

NAIR SREELAKSHMI VIJAYAKUMAR

(REG. NO: CCATMSW016)

Under the Guidance of

Mr. AJEESH K GEORGE

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MARCH 2021

aj George

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



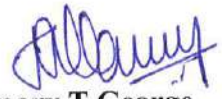
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Mr. AJEESH K GEORGE

Guide and Supervisor



Mrs. Rosemary T George

HOD, Dept. Of Social Work

Signature of External Examiner



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)

Name of External Examiner



**"EMERGENCE OF NEW INCOME GENERATION
PROGRAMMES IN RESPONSE TO COVID-19
PANDEMIC- A CASE STUDY"**

**A dissertation submitted to Christ College
(Autonomous), Irinjalakuda, Affiliated to the
University of Calicut in partial fulfillment of the
Degree of**

MASTER OF SOCIAL WORK

Specializing In Medical

and Psychiatry

Submitted by

NAVYA ROBBY

(REG. NO: CCATMSW017)

Under the Guidance of

Mr. Allwin Thomas

Asst. Professor in Social Work



allgong

DEPARTMENT OF SOCIAL WORK

**CHRIST COLLEGE (AUTONOMOUS),
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MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda




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This is to certify that the dissertation entitled, "**Emergence of New Income Generation Programmes in Response to Covid-19 Pandemic- A case study**", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms. NAVYA ROBBY (Reg.No.CCATMSW017)** during the period **2019-2021** under the supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship and or similar title to any candidate of any University .


Mr. Allwin Thomas

Guide and Supervisor


Rosemary T. George

**HOD, Dept. of
Social Work**

Signature of External Examiner

Name of External Examiner


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**A STUDY ON AWARENESS AMONG ADULTS ON
'MAINTENANCE AND WELFARE OF PARENTS AND SENIOR
CITIZENS ACT, 2007'**

*A dissertation submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to
the University of Calicut in partial fulfillment of the Degree of*

MASTER OF SOCIAL WORK

Specializing in

Rural and Urban Community Development

Submitted by

SAJANA K S

(REG. NO: CCATMSW018)

Under the Guidance of

Mr. AJEESH K GEORGE

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

 **CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



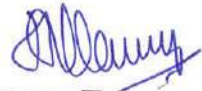
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Mr. Ajeesh K George

Guide and Supervisor



Mrs. Rosemary T George

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



A STUDY ON THE ATTITUDE AND KNOWLEDGE OF MENSTRUAL CUP AMONG NURSES AT THRISSUR DISTRICT

A dissertation submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the
University of Calicut in partial fulfillment of the Degree of

MASTER OF SOCIAL WORK

Specializing in

Medical and Psychiatry

Submitted by

SOPHIYA BABU

(REG. NO: CCATMSW019)

Under the Guidance of

Ms. REMEEZHA KHAN

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MARCH 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)



CERTIFICATE

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Ms. REMEEZHA KHAN

Guide and Supervisor



Mrs. ROSEMARY T GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner



Fr. Dr. Dolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)

Name of External Examiner



**A STUDY ON THE KNOWLEDGE AND PERCEPTION OF
SOCIAL WORK PRACTITIONERS ON SEXUAL HARASSMENT
OF WOMEN AT WORKPLACE (PREVENTION, PROHIBITION
AND REDRESSAL) ACT, 2013.**

*A dissertation submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the
University of Calicut in partial fulfillment of the Degree of*

MASTER OF SOCIAL WORK

Specializing in

Medical and psychiatry

Submitted by: **Sruthi M.S**

(REG. NO: CCATMSW020)

Under the Guidance of

Mr. Saijith N.S

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA,

MARCH 2021

Handwritten signature in green ink.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)

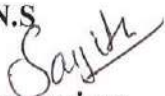


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This is to certify that the dissertation entitled "A study on the knowledge and perception of social work practitioners on sexual harassment of women at workplace (prevention, prohibition and redressal) Act, 2013", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms. SRUTHI M.S (Reg.No.CCATMSW020)** during the period **2019-2021** under the supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University.

Mr. Saijith N.S

Guide and Supervisor



Rosemary T. George

HOD, Dept. of



Social Work

Signature of External Examiner

Name of External Examiner



Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal



**SEX EDUCATION IN CHILDRENS: A STUDY ON THE
ATTITUDE OF PARENTS.**

**A dissertation submitted to Christ College (Autonomous),
Irinjalakuda, Affiliated to the University of Calicut in
partial fulfillment of the Degree of**

MASTER OF SOCIAL WORK

Specializing In Medical

and Psychiatry

Submitted by

STEPHY.P.S

(REG. NO: CCATMSW021)

Under the Guidance of

Mrs. Asha C.J

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

**CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA**

MARCH 2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous), Irinjalakuda

CERTIFICATE

This is to certify that the dissertation entitled "**Sex education in children's: a study on the attitude of parents.**", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Master of Social Work is a record of original research work done by **Ms.STEPHY.P.S (Reg.No.CCATMSW021)** during the period **2019-2021** under my supervision and guidance and that this dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship and or similar title to any candidate of any University .


Mrs. Asha C.J

Guide and Supervisor


Rosemary T. George

**HOD, Dept. of
Social Work**

Signature of External Examiner

Name of External Examiner


Fr. Dr. Jolly Andrews
Assistant Professor -
Social



23

A STUDY ON THE SENSITIVITY OF INSECTS TO DIFFERENT TYPES OF LIGHTS

*Project report submitted to the university of Calicut in partial fulfilment of the
requirement for the award of the Degree*

MASTER OF SCIENCE IN ZOOLOGY

ANN TREESA SEBI

REG NO: CCATMZL001



**DEPARTMENT OF ZOOLOGY,
CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA
THRISSUR, KERALA-680 125**

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**Christ College (Autonomous),
Irinjalakuda, Thrissur- 680 125**

Dr Bijoy C.
Assistant Professor,
Research Department of Zoology,
drbijoyc@gmail.com
Mob: 9895551003

CERTIFICATE

This is to certify that the content of this project work entitled **"A STUDY ON THE SENSITIVITY OF INSECTS TO DIFFERENT TYPES OF LIGHTS"** is an authentic record of research work carried out by **Ann Treesa Sebi** as a part of the MSc. project work during the year 2020-2021 under my supervision and guidance at the Department of Zoology, Christ College (Autonomous), Irinjalakuda. I further certify that no part of the work has been presented for the award of any other Degree or Diploma.

Place: Irinjalakuda

Date:


Dr Bijoy C.

Project Supervisor


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



TEMPERATURE AS AN ECOLOGICAL DETERMINENT ON THE BEHAVIOURAL PLASTICITY OF ZEBRAFISH

*Project report submitted to the University of Calicut in partial fulfillment of
the requirement for the*

Degree of Master of Science in Zoology

by

ANNLU GEORGE T

REG NO: CCATMZL002

aslg



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF ZOOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

THRISSUR, KERALA – 680 125

JUNE 2021


CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to certify that the project work entitled **"TEMPERATURE AS AN ECOLOGICAL DETERMINENT ON THE BEHAVIOURAL PLASTICITY OF ZEBRAFISH"** is an authentic record of research work carried out by **Annu George T** as part of the M.Sc. project work during the year 2020-2021 and the results of this work has not been presented for the award of any other degree/diploma in any university.


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Dr. SUDHIKUMAR A. V.

Place: Irinjalakuda

Head, Department of Zoology

Date: 05-06-2021

**Christ College (Autonomous),
Irinjalakuda**

**DIVERSITY OF EUSOCIAL AND SOLITARY WASPS (HYMENOPTERA:
INSECTA) FROM IN AND AROUND CHRIST COLLEGE CAMPUS,
IRINJALAKUDA**

*Dissertation submitted to the University of Calicut in partial fulfillment of the
requirement for the
Degree of Master of Science in Zoology*

CHRISTIYA JOY

REG NO: CCATMZL003

DEPARTMENT OF ZOOLOGY



CHRIST
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA

APRIL 2021

Christi



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

CHRIST COLLEGE, IRINJALAKUDA

DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to certify that the project work entitled **“DIVERSITY OF EUSOCIAL AND SOLITARY WASPS (HYMENOPTERA: INSECTA) FROM IN AND AROUND CHRIST COLLEGE CAMPUS, IRINJALAKUDA”** is an authentic record of research work carried out by **Christiya Joy** as part of the M.Sc dissertation work during the year 2020-2021 and the results of this work has not been presented for the award of any other degree/diploma in any university.

Place: Irinjalakuda

Date: 15-06-2021

Dr. Sudhikumar A.V

Head

Department of Zoology

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



AMINO ACID PROFILING OF SOME COMMON SPIDER WEBS

*Project report submitted to the University of Calicut in partial fulfillment of
the requirement for the award of Degree of
Master of Science in Zoology*

GREESHMA. M.K
REG. NO : CCATMZL004



To
DEPARTMENT OF ZOOLOGY
CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA
THRISSUR – 680125

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work entitled '**AMINO ACID PROFILING OF SOME COMMON SPIDER WEBS**' is an authentic record of the project work carried out by Greeshma.M.K, Reg. No:CCATMZL004, during the academic year 2020-2021 for partial fulfillment of the requirement for award of the degree of Master of science in Zoology, from Christ College(Autonomous), Irinjalakuda.

Dr Sudhikumar A.V.
Head of the Department

Submitted for the university examination
held on

Internal Examiner :

External Examiner :

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STUDY OF ODONATE SPECIES DIVERSITY BETWEEN ORGANIC AND CONVENTIONAL PADDY FIELD OF CENTRAL KERALA

Dissertation submitted in partial fulfilment of the requirement for the award of the degree of

MASTER OF SCIENCE IN ZOOLOGY UNIVERSITY OF CALICUT

By

JOSLIN TREESA JACOB

REG NO: CCATMZLOO5



**DEPARTMENT OF ZOOLOGY CHRIST COLLEGE
IRINJALAKUDA, THRISSUR, KERALA- 680125**

JULY 2021

[Handwritten signature]
Examiners: Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

- 1.
- 2.



CHRIST COLLEGE, IRINJALAKUDA
DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to certify that the project work entitled "**A STUDY OF ODONATE SPECIES DIVERSITY BETWEEN ORGANIC AND CONVENTIONAL PADDY FIELD OF CENTRAL KERALA**" is an authentic record of research work carried out by Ms. **Joslin Treesa Jacob (Reg. No. CCATMZL005)** as part of the M.sc project work during the year 2020-2021 and the result of this work has not been presented for the award of any other degree/diploma in any university.

Dr. Sudhikumar A.V

Head, Department of zoology


Place: Irinjalakuda
Date:
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



A STUDY ON THE ROLE OF *HERMETIA ILLUCENS* (DIPTERA: STRATIOMYIDAE) AS A BIOCONVERSION AGENT

*Project report submitted to the University of Calicut in partial fulfillment of the requirement
for the award of the Degree,*

MASTER OF SCIENCE IN ZOOLOGY

KAVYA G. PILLAI

REG NO: CCATMZL006



DEPARTMENT OF ZOOLOGY,
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA,
THRISSUR, KERALA-680 125

Examiners:

1.

2.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

2



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to certify that the project work entitled “A STUDY ON THE ROLE OF *HERMETIA ILLUCENS* (DIPTERA: STRATIOMYIDAE) AS A BIOCONVERSION AGENT” is an authentic record of research work carried out by **Kavya G. Pillai** as a part of the MSc. project work during the year 2020-2021 and the results of this work has not been presented for the award of any other degree/diploma in any University.

Place: Irinjalakuda

Dr. Sudhikumar A.V.

Date:

Head, Department of Zoology,

Christ College, Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**STUDY ON EFFICACY OF LEAF EXTRACTS FOR THE
BIOCONTROL OF IMMATURE STAGES OF *CULEX*
QUINQUEFASCIATUS SAY**

Project report submitted to the University of Calicut in partial fulfilment of the
requirement for the

Degree of Master of Science in Zoology

By

MITHRA M. M.

REG NO: CCATMZL007



DEPARTMENT OF ZOOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

THRISSUR, KERALA - 680125


JULY, 2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to certify that this is an authentic record of the dissertation entitled 'Study on efficacy of leaf extracts for the biocontrol of immature stages of *Culex quinquefasciatus* Say' carried out by Mithra M. M., at the Department of Zoology, Christ College, Irinjalakuda, in partial fulfilment of the requirements for the Degree of Master of Science in Zoology of the University of Calicut.

Irinjalakuda,

09-07-2021.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

Dr. Sudhikumar A.V.,
Head, Department of Zoology,
Christ College (Autonomous),
Irinjalakuda.



Dissertation submitted in partial fulfilment of the requirement for the
award of the degree of

MASTER OF SCIENCE IN ZOOLOGY UNIVERSITY OF CALICUT

By

NANDITHA B EDATHEDATH

REG NO: CCATMZLOO9



DEPARTMENT OF ZOOLOGY CHRIST COLLEGE
IRINJALAKUDA, THRISSUR, KERALA- 680125
JUNE 2021

Handwritten signature in green ink.

Examiners:
Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

2.



CHRIST COLLEGE, IRINJALAKUDA
DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to certify that the project work entitled **“AN INVESTIGATION ON SALTWATER INTRUSION OF MURUKKUMBAD ISLAND IN PONNANI RIVER, KERALA”** is an authentic record of research work carried out by **Ms. Nanditha B. Edathedath (Reg. No. CCATMZL009)** as part of the M.sc project work during the year 2020-2021 and the result of this work has not been presented for the award of any other degree/diploma in any university.

Fr. Dr. Jolly Andrews

Place:
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Dr. Sudhikumar A V

Dr. Sudhikumar A V
Head, Department of zoology

**ANNOTATED LIST OF NOCTUID MOTHS (LEPIDOPTERA: NOCTUIDAE)
FROM KADUKUTTY, CHALAKUDY**

*Dissertation submitted to the University of Calicut in partial fulfillment of the
requirement for the
Degree of Master of Science in Zoology*

NIMISHA P. N.

REG NO: CCATMZL010

DEPARTMENT OF ZOOLOGY



CHRIST

COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA

APRIL 2021

Fr. Dr. Jolly Andrews

Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE, IRINJALAKUDA

DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to certify that the project work entitled “**ANNOTATED LIST OF NOCTUID MOTHS (LEPIDOPTERA: NOCTUIDAE) FROM KADUKUTTY, CHALAKUDY**” is an authentic record of research work carried out by **Nimisha P. N.** as part of the M.Sc dissertation work during the year 2020-2021 and the results of this work has not been presented for the award of any other degree/diploma in any university.

Place: Irinjalakuda

Date: 15-06-2021

Dr. Sudhikumar A.V.

Head

Department of Zoology

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**MORPHOLOGICAL, BIOCHEMICAL AND
BACTERIOLOGICAL ANALYSIS OF THE VENOM GLAND
OF THE SPIDER- *HETEROPODA VENATORIA***

*Project report submitted to the University of Calicut in partial fulfillment of
the requirement for the award of Degree of
Master of Science in Zoology*

By

SANDHRA LOY

REG. NO : CCATMZL011



To

DEPARTMENT OF ZOOLOGY
CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA
THRISSUR - 680125



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

CERTIFICATE

This is to certify that the project work entitled 'MORPHOLOGICAL, BIOCHEMICAL AND BACTERIOLOGICAL ANALYSIS OF THE VENOM GLAND OF THE SPIDER - HETEROPODA VENATORIA' is an authentic record of the project work carried out by Sandhra Loy, Reg No: CCATMZL011, during the academic year 2020-2021 for partial fulfillment of the requirement for award of the degree of Master of Science in Zoology, from Christ College (Autonomous), Irinjalakuda.



Dr. Sudhikumar A.V.
Head of the Department

Submitted for the university examination
held on



Internal Examiner :

External Examiner :

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**THE NATURAL HISTORY OF SCIENTIFIC AND
VERNACULAR NAME OF FRESHWATER FISHES OF THE
CHALAKUDYPUZHA**

*Project report submitted to the university of Calicut in partial fulfillment
of the requirement for the*

Degree of Master of Science in Zoology

SITHIFATHIMA

REG NO: CCATMZL012



DEPARTMENT OF ZOOLOGY

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

THRISSUR, KERALA -680125

JULY 2021

**CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA DEPARTMENT
OF ZOOLOGY**

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE (AUTONOMOUS) DEPARTMENT OF ZOOLOGY (DST FIST)
CHRIST COLLEGE (AUTONOMOUS)

Dr. Binu Ramachandran



Irinjalakuda
Kerala-680125

India <https://www.christcollegeiik.edu.in>

E-mail: ramanbinu@gmail.com

CERTIFICATE

This is to certify that the contents of this project work entitled "***THE NATURAL HISTORY OF SCIENTIFIC AND VERNACULAR NAME OF FRESHWATER FISHES OF THE CHALAKUDYPUZHA***" is the original research work done by **Sithifathima** under my supervision and guidance at the Department Of Zoology, Christ college(Autonomous), Irinjalakuda.

I further certify that no part of the work has been presented before for the award of any other degree/ diploma.

Place:Irinjalakuda

Date: 05-06-2021

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



17

MOLECULAR DOCKING STUDIES OF SELECTED AMINOGLYCOSIDES TO PREDICT THEIR GELATINASE INHIBITORY POTENTIAL

Dissertation submitted to

UNIVERSITY OF CALICUT

in partial fulfillment of the requirement for the award of

MASTER OF SCIENCE IN ZOOLOGY

BY

SWEETY S KOLLANNUR

(Reg.No.CCATMZL013)




DEPARTMENT OF ZOOLOGY, CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA, THRISSUR DISTRICT, KERALA-680125

2021

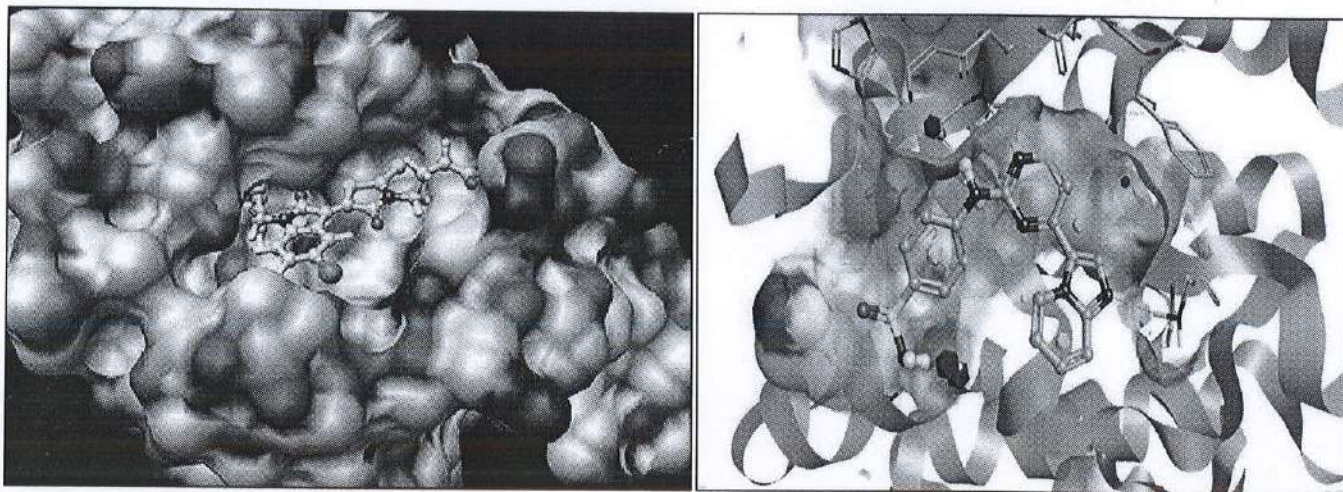
EXAMINERS

- 1.
- 2.


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



MOLECULAR DOCKING STUDIES OF SELECTED AMINOGLYCOSIDES TO PREDICT THEIR GELATINASE INHIBITORY POTENTIAL



Dissertation submitted to

UNIVERSITY OF CALICUT


in partial fulfillment of the requirement for the award of

MASTER OF SCIENCE IN ZOOLOGY

BY

SWEETY S KOLLANNUR

(Reg.No.CCATMZL013)


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



**DEPARTMENT OF ZOOLOGY, CHRIST COLLEGE (AUTONOMOUS),
IRINJALAKUDA, THRISSUR DISTRICT, KERALA-680125**

2021



PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In Partial Fulfillment of the Degree of

BACHELOR OF

LIBRARY AND INFORMATION SCIENCE

By

ABRAHAM ABEL JOHN

Reg: CCAUBLS001

2020-2021

Under the Supervision of

Ms. SAJITHA K.R., MA, MLISc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

all good
Fr. Dr. Jolly Andrews
Assistant Professor-
In-Charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work is a record of genuine work done by ABRAHAM ABEL JOHN (Reg. No: CCAUBLS001) under my guidance and supervision. In partial fulfillment for the requirement of the award of the degree of Bachelor of Library and Information Science and that no part of it has been submitted before for the award of any degree or diploma.

Original
23/7/21

SAJITHA. K. R, MA, MLISC, MPhil

Assistant Professor (ad hoc)

Coordinator and guide

Department of Library and Information Science

Christ College (Autonomous)

all good



Department of
Library and Information
Science

Christ College (Autonomous)

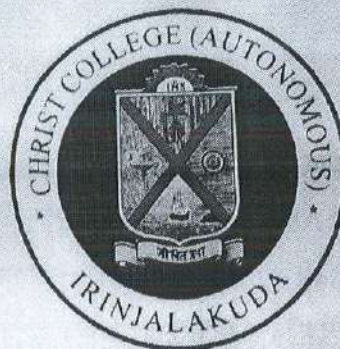
Innjalakuda - 686125

Fr. Dr. Jolly Andrews
Assistant Professor -
In-charge of Principal
Christ College (Autonomous)
Innjalakuda

Place: Innjalakuda

Date: 22-07-2021





PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In partial fulfilment of degree of

BACHELOR OF LIBRARY AND INFORMATION SCIENCE

(B.Lib.I.Sc)

By

ANIL PEENIKAPARAMBIL

Reg.no. CCAUBLS002

2020-2021

Under the supervision of

MS.SAJITHA. K.R, MA, MLISc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

all good
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In partial fulfilment of degree of

BACHELOR OF LIBRARY AND INFORMATION SCIENCE

(B.Lib.I.Sc)

By

ASWANI R

Reg.no. CCAUBL3004

2020-2021

Under the supervision of

MS.SAJITHA. K.R, MA, MLISc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

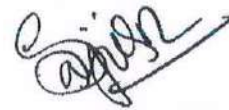
IRINJALAKUDA, THRISSUR

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work is a record of genuine work done by **ASWANI R** (reg.no. CCAUBL8004) under my guidance and supervision in partial fulfilment for the requirement of the award of degree of **Bachelor of Library and Information Science** and that no part of it has been submitted before for the awarded of any degree or diploma.



SAJITHA K R, MA, MLISc, MPhil

Assistant Professor

Coordinator and Guide

Dept of Library and Information Science

Christ College (Autonomous)

Place: Irinjalakuda

Date: 22-01-2021



Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work is a record of genuine work done by ANIL PEENIKAPARAMBIL (reg.no. CCAUBLS002) under my guidance and supervision in partial fulfillment for the requirement of the award of degree of **Bachelor of Library and Information Science** and that no part of it has been submitted before for the awarded of any degree or diploma.

[Signature]
22/7/2021

SAJITHA K R, MA, MLISc, MPhil

Assistant Professor ~~and Librarian~~ (Ad hoc)

Coordinator and Guide

Dept of Library and Information
Science

Christ College (Autonomous)

[Signature]



Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125

Place: Irinjalakuda
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Practical
Christ College (Autonomous)
Irinjalakuda

22.7.2021



PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In Partial Fulfillment of the Degree of

BACHELOR OF

LIBRARY AND INFORMATION SCIENCE (B.Lib.I.Sc)

By

BHAGYALAKSHMI.P.T

Reg.No. CCAUBLS005

2020-2021

Under the Supervision of

Ms. SAJITHA.K.R., M.A, M.Lib.I.Sc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

all good

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CHRIST COLLEGE
(AUTONOMOUS) IRINJALAKUDA

CERTIFICATE

This is to certify that the project work, is a record of genuine work done by **BHAGYALAKSHMI.P.T** (Reg.NO. CCAUBLS005) under my guidance and supervision. In partial fulfillment for the requirement of the award of the degree of **Bachelor of Library and Information Science** and that no part of it has been submitted before for the award of any degree or diploma.

[Signature]
23.07.2021

SAJITHA.K.R, M.A, M.Lib.I.Sc, Mphil

Assistant Professor (On Contract)

Co ordinator and Guide

Department of Library and Information Science

Christ College (Autonomous)



Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125

[Signature]
Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

Place: Irinjalakuda

Date: 23.7.21





PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In Partial Fulfillment of the Degree of

BACHELOR OF

LIBRARY AND INFORMATION SCIENCE

By

EBIN WILSON

Reg.CCAUBL.S006

2020-2021

Under the Supervision of

Ms. SAJITHA K.R., MA, MLISc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

all right
Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work is a record of genuine work done by **EBIN WILSON** (Reg.NO. CCAUBLS006) under my guidance and supervision. In partial fulfillment for the requirement of the award of the degree of **Bachelor of Library and Information Science** and that no part of it has been submitted before for the award of any degree or diploma.

[Handwritten Signature]
23/7/21

SAJITHA. K. R, MA, MLISC, MPhil

Assistant Professor (Ad hoc)

Department of Library and Information Science

Christ College (Autonomous)



Department of
Library and Information
Science

Christ College (Autonomous)

Irinjalakuda - 680125

[Handwritten Signature]

Fr. Dr. C. Andrews
Place: Irinjalakuda

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)
Irinjalakuda

Date

23/07/2021





PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In partial fulfilment of degree of

BACHELOR OF LIBRARY AND INFORMATION SCIENCE

(B.Lib.I.Sc)

By

GOKUL G.S

Reg.no. CCAUBLS007

2020-2021

Under the supervision of

MS.SAJITHA, K.R, MA, MLISc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

Signature

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKUDA, THRISSUR



CERTIFICATE

This is to certify that the project work in a record of genuine work done by GOKUL G S (reg.no. CCAUBLS007) under my guidance and supervision in partial fulfillment for the requirement of the award of degree of Bachelor of Library and Information Science and that no part of it has been submitted before for the awarded of any degree or diploma.

 23/7/21

SAJITHA K R, MA, MLISc, MPhil

Assistant Professor and HOD
(Ad hoc)


Coordinator and Guide

Dept of Library and Information Science


Christ College (Autonomous)

Place : Irinjalakuda

Date : 22/7/2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



 Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125



PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In partial fulfilment of degree of

BACHELOR OF LIBRARY AND INFORMATION SCIENCE

(B.Lib.I.Sc)

By

HARI KRISHNA

Reg.no. CC40B23006

2020-2021

Under the supervision of

MS.SAJITHA. K.R. MA, MLISc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

Handwritten signature in green ink.

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work is a record of genuine work done by **HARI KRISHNA** (reg.no. **CCAUBLS 008**) under my guidance and supervision in partial fulfillment for the requirement of the award of degree of **Bachelor of Library and Information Science** and that no part of it has been submitted before for the awarded of any degree or diploma.



SAJIITHA K.R. MA, MLISc, MPhil

Assistant Professor and HOD
(Ad. woc.)

Coordinator and Guide

Dept of Library and Information Science

Christ College (Autonomous)

Place: Irinjalakuda

Date: 23/07/2021



Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125



Dr. Jolly Andrews
Assistant Professor-
in-charge of Principal
Christ College (Autonomous)
Irinjalakuda





PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In partial fulfilment of degree of

BACHELOR OF LIBRARY AND INFORMATION SCIENCE

(B.Lib.I.Sc)

By

JINCY P V

Reg.no. CCAUBLS009

2020-2021

Under the supervision of

MS.SAJITHA. K.R, MA, MLISc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work is a record of genuine work done by JINCY P V (reg.no. CCAUBLS009) under my guidance and supervision in partial fulfillment for the requirement of the award of degree of Bachelor of Library and Information Science and that no part of it has been submitted before for the awarded of any degree or diploma.



SAJITHA K R, MA, MLISc, MPhil

Assistant Professor and ~~HOD~~ Ad hoc

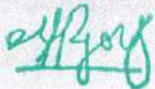
Coordinator and Guide

Dept of Library and Information Science

Christ College (Autonomous)


Place: Irinjalakuda

Date: 22-07-2021



Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



 Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125

PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In Partial Fulfillment of the Degree of

BACHELOR OF

LIBRARY AND INFORMATION SCIENCE

By

KEERTHI PV

CCAUBLS010

2020-2021

Under the Supervision of

Ms. NIMITHA K. , MLISc

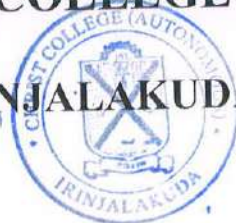
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 **LIBRARY AND INFORMATION SCIENCE**

CHRIST COLLEGE (AUTONOMOUS)

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

IRINJALAKUDA, THRISSUR



CERTIFICATE

This is to certify that the project work is a record of genuine work done by **KEERTHI P V (Reg.NO. CCAUBLS010)** under my guidance and supervision. In partial fulfillment for the requirement of the award of the degree of **Bachelor of Library and Information Science** and that no part of it has been submitted before for the award of any degree or diploma.

NIMITHA K

Assistant Professor (Ad hoc)

Guide

SAJITHA. K. R, MA, MLISC, MPhil

Assistant Professor (Ad hoc)

Coordinator

Department of Library and Information Science

Christ College (Autonomous)

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125

Place: Irinjalakuda

Date: 23/7/2021

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PROJECT WORK

Submitted to the

UNIVERSITY OF CALICUT

In Partial Fulfillment of the Degree of

BACHELOR OF

LIBRARY AND INFORMATION SCIENCE

By

MEGHA RAHUL. K

Reg No. CCAUBLS011

2020-2021

Under the Supervision of

Ms. NIMITHA K., MLISc,

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR



Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

CERTIFICATE

This is to certify that the project work is a record of genuine work done by **MEGHA RAHUL. K (Reg NO. CCAUBLS011)** under my guidance and supervision. In partial fulfillment for the requirement of the award of the degree of **Bachelor of Library and Information Science** and that no part of it has been submitted before for the award of any degree or diploma.

NIMITHA K

Assistant Professor (Ad hoc)
Guide

SAJITHA. K. R, MA, MLISC, MPhil

Assistant Professor (Ad hoc)
Coordinator

Department of Library and Information Science
Christ College (Autonomous)

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

Place: Irinjalakuda

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Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125



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BACHELOR OF LIBRARY AND INFORMATION SCIENCE

(B.Lib.I.Sc)

By

Pranav Sivadas A

Reg.no.CCAUBLS012

2020-2021

Under the supervision of

MS.SAJITHA. K.R, MA, MLISc, MPhil

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work in a record of genuine work done by **Pranav Sivadas A (reg.no. CCAUBL9012)** under my guidance and supervision in partial fulfillment for the requirement of the award of degree of **Bachelor of Library and Information Science** and that no part of it has been submitted before for the awarded of any degree or diploma.


20/7/2021
SAJITHA K R, M.A.MLISc.MPhil

Assistant Professor (on contract) and HOD

Coordinator and Guide

Dept of Library and Information Science

Christ College (Autonomous)

 Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125

Place : Irinjalakuda

Date : 22/7/2021

all good

Ft. Fr. Jolly Andrews
Assistant Professor
In Charge of Principal
Christ College (Autonomous)



PROJECT WORK

Submitted to the

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BACHELOR OF

LIBRARY AND INFORMATION SCIENCE

By

REKHA A

Reg.No.CCAUBLS013

2020-2021

Under the Supervision of

Ms. NIMITHA.K., MLISc

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

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NIMITHA K

Assistant Professor (Ad hoc)
Guide

SAJITHA. K. R, MA, MLISC, MPhil

Assistant Professor (Ad hoc)

Coordinator

Department of Library and Information Science

Christ College (Autonomous)

Department of
Library and Information
Science

Irinjalakuda - 680125

Dr. L. J. Andrews
Assistant Professor
In charge of Principal
Christ College (Autonomous)
Irinjalakuda



Place: Irinjalakuda

Date: 23-7-2021



PROJECT WORK

Submitted to the

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BACHELOR OF LIBRARY AND INFORMATION SCIENCE

(B.Lib.I.Sc)

By

SHAHANAZ T M

Reg.no: CCAUBLS016

2020-2021

Under the supervision of

Mrs. SAJITHA.K.R, MA, MLISc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

Signature

Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal

Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work in a record of genuine work done by SHAHANAZ T M (Reg.no. CCAUBLS016) under my guidance and supervision in partial fulfillment for the requirement of the award of degree of Bachelor of Library and Information Science and that no part of it has been submitted before for the awarded of any degree or diploma.

Sajitha K.R.
22/7/2021

SAJITHA.K.R, MA, MLISc, MPhil


Assistant Professor and HOD
(Ad hoc)
Coordinator and Guide

Department of Library and Information Science

Christ College (Autonomous)

Place: Irinjalakuda

Date: 22-7-2021

 Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125

Fr. Dr. Jolly Andrews

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





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BACHELOR OF LIBRARY AND INFORMATION SCIENCE

(B.Lib.I.Sc)

By

SREYA TONY

Reg.no: CCAUBLS017

2020-2021

Under the supervision of

MS. SAJITHA. K.R, MA, MLISc, MPhil

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

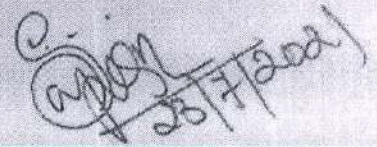
IRINJALAKUDA, THRISSUR

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



CERTIFICATE

This is to certify that the project work in a record of genuine work done by **SREYA TONY** (reg.no: CCAUBLS017) under my guidance and supervision in partial fulfillment for the requirement of the award of degree of Bachelor of Library and Information Science and that no part of it has been submitted before for the awarded of any degree or diploma.



25/7/2021

SAJITHA K R, MA,MLISc,MPhil

Assistant Professor (Ad hoc)


Coordinator and Guide

Dept of Library and Information Science

 Christ College (Autonomous)
Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125

Place : Irinjalakuda

Date : 22/07/2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda





PROJECT WORK

Submitted to the

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BACHELOR OF

LIBRARY AND INFORMATION SCIENCE

By

SRUTHY A V

Reg.CCAUBLS018

2020-2021

Under the Supervision of

Ms. NIMITHA K, BSC, MLISC

DEPARTMENT OF

LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

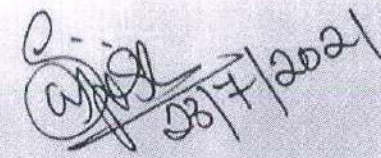


CERTIFICATE

This is to certify that the project work is a record of genuine work done by **SRUTHY A V (Reg. No. CCAUBLS018)** under my guidance and supervision. In partial fulfillment for the requirement of the award of the degree of **Bachelor of Library and Information Science** and that no part of it has been submitted before for the award of any degree or diploma.


NIMITHA K

Assistant Professor (Ad hoc)
Guide


SAJITHA. K. R, MA, MLISC, MPhil

Assistant Professor (Ad hoc)

Coordinator

Department of Library and Information Science

Christ College (Autonomous)


Place: Irinjalakuda

Date: 22.07.2021

Fr. Dr. Andrews
Assistant Professor
In-charge of Principal (Ad hoc)





PROJECT WORK

Submitted to the

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BACHELOR OF LIBRARY AND INFORMATION SCIENCE

(B.Lib. & I.Sc)

by

Vishnu M.S

Reg. No. CCALIBS019

2020-2021

Under the supervision of

MR. SAJITHA K.R. MA, MLIS, MPhil

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

CHRIST COLLEGE (AUTONOMOUS)

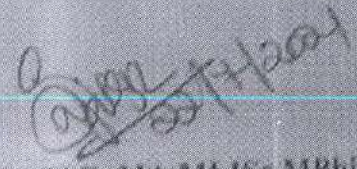
Fr. Dr. Jolly Andrews
Assistant Professor
In-charge of Principal
Christ College (Autonomous)
Irithalukuda

KUNJALAKSHMI, THRISSUR



CERTIFICATE

This is to certify that the project work in a record of genuine work done by **VISHNU M.S** (reg.no. CCAUHL8019) under my guidance and supervision in partial fulfillment for the requirement of the award of degree of Bachelor of Library and Information Science and that no part of it has been submitted before for the awarded of any degree or diploma.


SAJITHA K.R, MA, MLISc, MPhil

Assistant Professor (on contract) and HOD

Coordinator and Guide

Dept of Library and Information Science

Christ College (Autonomous)



Department of
Library and Information
Science
Christ College (Autonomous)
Irinjalakuda - 680125

Place : Irinjalakuda

Date : 22-7-2021


Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)

Fr. Dr. Jolly Andrews
Assistant Professor-
In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

