Certificate

This is to certify that this review entitled Li-ion Battery Technology and Electric Vehicles- A Gap Assessment Study, submitted towards the partial fulfillment for the award of degree of Bachelor of science in chemistry at Christ College, Irinjalakuda represents original research carried out by, ASWATHY M [Reg. No.: CCASSCH043], under the supervision of Dr. Dijo Damien during the academic year 2020-2021.

Student

Aswathy M

Supervisor

Dr. DIJO DAMIEN

affron



University of Calicut

"Li- ION BATTERY TECHNOLOGY AND ELECTRIC VEHICLES- A GAP ASSESSMENT STUDY"

Dissertation submitted to Christ College (Autonomous)

in partial fulfillment of the requirements for the degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Submitted by:

SANUKRISHNA K S [Reg. No.: CCASSCH046]



Under the supervision of

Dr. DIJO DAMIEN

Assistant Professor, PG & Research Department of Chemistry

Christ College, Irinjalakuda-680125

Thrissur, Kerala, India

May -2021

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

Irinjalakuda

Certificate

This is to certify that this review entitled Li-ion Battery Technology and Electric Vehicles- A Gap Assessment Study, submitted towards the partial fulfillment for the award of degree of Bachelor of science in chemistry at Christ College, Irinjalakuda represents original research carried out by, SANUKRISHNA K S [Reg. No.: CCASSCH046] under the supervision of Dr. Dijo Damien during the academic year 2020-2021.

Student

Sanukrishna K S

Supervisor

Dr. DIJO DAMIEN

affgory

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



University of Calicut

"Li- ION BATTERY TECHNOLOGY AND ELECTRIC VEHICLES- A GAP ASSESSMENT STUDY"

Dissertation submitted to Christ College (Autonomous)

in partial fulfillment of the requirements for the degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Submitted by:

SWETHA A P [Reg. No.: CCASSCH047]



Under the supervision of

Dr. DIJO DAMIEN

Assistant Professor, PG & Research Department of Chemistry

Christ College, Irinjalakuda-680125

Thrissur, Kerala, India

May -2021

affront



Certificate

This is to certify that this review entitled Li-ion Battery Technology and Electric Vehicles- A Gap Assessment Study, submitted towards the partial fulfillment for the award of degree of Bachelor of science in chemistry at Christ College, Irinjalakuda represents original research carried out by, SWETHA A P [Reg. No.: CCASSCH047] under the supervision of Dr. Dijo Damien during the academic year 2020-2021.

Student

Swetha A P

Supervisor

Dr. DIJO DAMIEN

affron



University of Calicut

"Li- ION BATTERY TECHNOLOGY AND ELECTRIC VEHICLES- A GAP ASSESSMENT STUDY"

Dissertation submitted to Christ College (Autonomous)

in partial fulfillment of the requirements for the degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Submitted by:

NIMI ANN JACOB [Reg. No.: CCASSCH048]



Under the supervision of

Dr. DIJO DAMIEN

Assistant Professor, PG & Research Department of Chemistry

Christ College, Irinjalakuda-680125

Thrissur, Kerala, India

May -2021

officery



Certificate

This is to certify that this review entitled Li-ion Battery Technology and Electric Vehicles- A Gap Assessment Study, submitted towards the partial fulfillment for the award of degree of Bachelor of science in chemistry at Christ College, Irinjalakuda represents original research carried out by, NIMI ANN JACOB [Reg. No.: CCASSCH048] under the supervision of Dr. Dijo Damien during the academic year 2020-2021.

Student

Nimi Ann Jacob

Supervisor

Dr. DIJO DAMIEN

affor



(11)

NEIGHBOURHOOD SUPPLY PROJECT REPORT

Submitted By

Aljo Jose
Reg. No. CCASSCS001
For the award of the Degree of
Bachelor of Science (B.Sc.)
in Computer Science
(University of Calicut)
under the guidance of

Ms. Priyanga K.K Assistant Professor



BSC. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE
IRINJALAKUDA, KERALA
March 2018-2021





CERTIFICATE

This is to certify that the project report entitled "Neighbourhood Supply Android Application" is a bonfide record of the project work done by Aljo Jose in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms.Priyanga K.K Assistant Professor,CS Internal Guide Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER



LIBRARY MANAGEMENT PROJECT REPORT

Submitted By

VISHNUPRIYA K.U

Reg. No. CCASSCS002

For the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science

(University of Calicut)

under the guidance of

Ms. Dincy Arikkat

Assistant Professor



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

Fr. Dr. Jolly Andrews

Assistant ProfessorIn-charge of Principal
Christ College (Alifornimology Andrews
Irinjalakudassistant ProfessorIn-charge of Principal
Christ College (Autonomous)
Irinjalakuda





CERTIFICATE

This is to certify that the project report entitled "Library Management Android Application" is a bonfide record of the project work done by VISHNUPRIYA K.U(RegNo:CCASSCS002) in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms.Dincy Arikkat Assistant Professor,CS Internal Guide Ms. Viji Viswanathan Head of the Department Computer Science

gory

EXTERNAL EXAMINER

INTERNAL EXAMINER



NEIGHBOURHOOD SUPPLY

PROJECT REPORT

Submitted By

ABHINAND P GOPAL

Reg. No. CCASSCS003

For the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science

(University of Calicut)

under the guidance of

Ms. Priyanga K.K

Assistant Professor



BSC. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE
IRINJALAKUDA, KERALA
March 2018-2021





CERTIFICATE

This is to certify that the project report entitled "Neighbourhood Supply Android Application" is a bonfide record of the project work done by Abhinand P Gopal in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms.Priyanga K.K Assistant Professor,CS Internal Guide Ms. Viji Viswanathan Head of the Department Computer Science

Hoy

EXTERNAL EXAMINER

INTERNAL EXAMINER



NEIGHBOURHOOD SUPPLY

PROJECT REPORT

Submitted By

Akhila Babu Reg. No. CCASSCS004

For the award of the Degree of

Bachelor of Science (B.Sc.) in Computer Science

(University of Calicut)

under the guidance of

Ms. Priyanga K.K

Assistant Professor



BSC. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE
IRINJALAKUDA, KERALA
March 2018-2021

Hoy

Assistant Professor-Christ College (Autonomous)





CERTIFICATE

This is to certify that the project report entitled "Neighbourhood Supply Android Application" is a bonfide record of the project work done by Akhila Babu in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms Priyanga K.K Assistant Professor, CS

Internal Guide

Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER



PETZ-ONLINE PET SHOP

PROJECT REPORT

Submitted By

ASHIK C SURESH

Reg. No. CCASSCS007

for the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science (University of Calicut)

under the guidance of

Ms. Sini Thomas

Assistant Professor



BSc. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

Hoy

Assistant Professor.
Christ College (Autonomous)





CERTIFICATE

This is to certify that the project report entitled "Petz - Online Pet Shop" is a bonfied record of the project work done by Ashik C Suresh in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA.

Ms. Sini Thomas Assistant Professor, CS Internal Guide

Ms. Viji Viswanathan Head of the Department Computer Science

Thong

EXTERNAL EXAMINER

INTERNAL EXAMINER

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



QUESTRA

in

partial fulfillment for the award

of

Degree

in

Computer Science

by

GOKUL V CHANDRAN

Reg. No. CCASSCS009

under the guidance of

Mr.Linto George

Assistant Professor



BSc COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

1170



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this project entitled "Questra" submitted by "Gokul V Chandran(Reg. No.CCASSCS009)" in partial fulfillment for the award of the degree of Bachelor of Computer Science under University of Calicut during the year 2019-2020, is the bonafide work carried out by them under my guidance and supervision.

affery



LIBRARY MANAGEMENT PROJECT REPORT

Submitted By

HRIDYA SIVAN

Reg. No. CCASSCS010

For the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science (University of Calicut)

under the guidance of

Ms. Dincy Arikkat

Assistant Professor



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

affort





CERTIFICATE

This is to certify that the project report entitled "Library Management Android Application" is a bonfide record of the project work done by HRIDYA SIVAN(RegNo:CCASSCS010) in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms.Dincy Arikkat
Assistant Professor,CS
Internal Guide

Ms. Viji Viswanathan Head of the Department Computer Science

ery.

EXTERNAL EXAMINER

INTERNAL EXAMINER



PALM SQUARE

in

partial fulfillment for the award

of

Degree

in

Computer Science

by

JENTA ROSE M.S

Reg. No. CCASSCS011

under the guidance of

Ms.Sowmya PS

Assistant Professor



BSc COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

affron

F.F.D.P.D.O.IR.J.X.A.N.G.W.S. A. A. R.S.ISHA.M. B. G. S.S.S.O. IN J. C. ISHA.M. B. G. S.S.S.O. IN J. C. ISHA.M. B. G. S.S.O. IN J. G. ISHA.M. B. G. S. S.O. IN J. G. S.O.



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this project entitled "Palm Square" submitted by "Jenta Rose M.S(Reg. No.CCASSCS011)" in partial fulfillment for the award of the degree of Bachelor of Computer Science under University of Calicut during the year 2020-2021, is the bonafide work carried out by them under my guidance and supervision.

Ms. Sowmya P.S Assistant Professor, CS Internal Guide Ms. Viji Viswanathan. Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER



LIBRARY MANAGEMENT PROJECT REPORT

Submitted By

JYOTHI KRISHNA P.R.

Reg. No. CCASSCS012

For the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science

(University of Calicut)

under the guidance of

Ms. Dincy Arikkat

Assistant Professor



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

affron





CERTIFICATE

This is to certify that the project report entitled "Library Management Android Application" is a bonfide record of the project work done by JYOTHI KRISHNA P.R(RegNo:CCASSCS012) in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms.Dincy Arikkat

Ms.Dincy Arikkat
Assistant Professor, CS
Internal Guide

Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER



PALM SQUARE

in

partial fulfillment for the award

of

Degree

in

Computer Science

by

KRISHNAPRIYA KB

Reg. No. CCASSCS013

under the guidance of

Ms.Sowmya PS

Assistant Professor



BSc COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

affgork



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this project entitled "Palm Square" submitted by "Krishnapriya KB(Reg. No.CCASSCS013)" in partial fulfillment for the award of the degree of Bachelor of Computer Science under University of Calicut during the year 2020-2021, is the bonafide work carried out by them under my guidance and supervision.

Ms. Sowmya P.S Assistant Professor, CS Internal Guide Ms. Viji Viswanathan. Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

Assistant Professor-In-charge of Principal prist College (Autonomous) Iringalakuda



PALM SQUARE

in

partial fulfillment for the award

of

Degree

in

Computer Science

by

M.GOPIKA

Reg. No. CCASSCS014

under the guidance of

Ms.Sowmya PS

Assistant Professor



BSc COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

affron



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this project entitled "Palm Square" submitted by "M Gopika(Reg. No. CCASSCS014)" in partial fulfillment for the award of the degree of Bachelor of Computer Science under University of Calicut during the year 2020-2021, is the bonafide work carried out by them under my guidance and supervision.

Ms. Sowmya P.S Assistant Professor, CS Internal Guide Ms. Viji Viswanathan. Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

affor



PETZ-ONLINE PET SHOP

PROJECT REPORT

Submitted By

MIBIN MURALEEDHARAN

Reg. No. CCASSCS015

for the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science (University of Calicut)

under the guidance of

Ms. Sini Thomas

Assistant Professor



BSc. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

afflory





CERTIFICATE

This is to certify that the project report entitled "Petz - Online Pet Shop" is a bonfied record of the project work done by Mibin Muraleedharan in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA.

Ms Sini Thomas Assistant Professor,CS Internal Guide

Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

afflory



QUESTRA

in

partial fulfillment for the award

of

Degree

in

Computer Science

by

NAVANEETH KRISHNAN P

Reg. No. CCASSCS016

under the guidance of

Mr.Linto George

Assistant Professor



BSc COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

DEPARTMENT OF COMPUTER SCIENCE

 $\begin{array}{c} \textbf{Christ College(Autonomous)} \\ \\ \textbf{Irinjalakuda} \end{array}$



CERTIFICATE

Certified that this project entitled "Questra" submitted by "Navaneeth Krishnan P(Reg. No.CCASSCS016))" in partial fulfillment for the award of the degree of Bachelor of Computer Science under University of Calicut during the year 2019-2020, is the bonafide work carried out by them under my guidance and supervision.



PETZ-ONLINE PET SHOP

PROJECT REPORT

Submitted By

PAUL JACOB

Reg. No. CCASSCS017

for the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science (University of Calicut)

under the guidance of

Ms. Sini Thomas

Assistant Professor



BSc. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

affloy





CERTIFICATE

This is to certify that the project report entitled "Petz - Online Pet Shop" is a bonfied record of the project work done by Paul Jacob in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA.

Ms. Sini Thomas Assistant Professor, CS Internal Guide Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

affery

Fr. Dr. Jolly Andrews
Assistant Professors
In-charge of Principal
Christ College (A. 1998) (S)



GAME DEVELOPMENT

PROJECT REPORT

Submitted By

SANGEETHA K P

Reg. No. CCASSCS018

for the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science (University of Calicut)

under the guidance of

Ms. MINU MARY P J

Assistant Professor



BSc. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

affery



DEPARTMENT OF COMPUTER SCIENCE CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA



CERTIFICATE

This is to certify that the project report entitled "Game Development" is a bonfied record of the project work done by Sangeetha K P in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms. Minu Mary P J Assistant Professor, CS Internal Guide Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

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

Immalakuda



LIBRARY MANAGEMENT PROJECT REPORT

Submitted By

SOUNDARYA K.S

Reg. No. CCASSCS019

For the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science

(University of Calicut)

under the guidance of

Ms. Dincy Arikkat

Assistant Professor



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

offgorg



DEPARTMENT OF COMPUTER SCIENCE CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA



CERTIFICATE

This is to certify that the project report entitled "Library Management Android Application" is a bonfide record of the project work done by SOUNDARYA K.S(RegNo:CCASSCS019) in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms.Dincy Arikkat Assistant Professor,CS Internal Guide Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER



NEIGHBOURHOOD SUPPLY PROJECT REPORT

Submitted By

Antony Lonappan Reg. No. CCASSCS021

For the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science (University of Calicut)

under the guidance of

Ms. Priyanga K.K

Assistant Professor



BSC. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE
IRINJALAKUDA, KERALA
March 2018-2021

Fr. Dr. Jolly Andrews
Assistant Professor-

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



DEPARTMENT OF COMPUTER SCIENCE CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA



CERTIFICATE

This is to certify that the project report entitled "Neighbourhood Supply Android Application" is a bonfide record of the project work done by Antony Lonappan in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms.Priyanga K.K Assistant Professor,CS Internal Guide Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER



QUESTRA

in

partial fulfillment for the award

of

Degree

in

Computer Science

by

Jeswin Sebastian

Reg. No. CCASSCS025

under the guidance of

Mr.Linto George

Assistant Professor



BSc COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

afflor



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this project entitled "Questra" submitted by "Jeswin Sebastian (Reg. No. CCASSCS025)" in partial fulfillment for the award of the degree of Bachelor of Computer Science under University of Calicut during the year 2019-2020, is the bonafide work carried out by them under my guidance and supervision.

afflyory



PALM SQUARE

in

partial fulfillment for the award

of

Degree

in

Computer Science

by

NEEMA BABU

Reg. No. CCASSCS026

under the guidance of

Ms.Sowmya PS

Assistant Professor



BSc COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

affyorg



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this project entitled "Palm Square" submitted by "Neema Babu(Reg. No.CCASSCS026)" in partial fulfillment for the award of the degree of Bachelor of Computer Science under University of Calicut during the year 2020-2021, is the bonafide work carried out by them under my guidance and supervision.

Ms. Sowmya P.S Assistant Professor, CS Internal Guide Ms. Viji Viswanathan. Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER

ayport



QUESTRA

in

partial fulfillment for the award

of

Degree

in

Computer Science

by

P B DEVARAJ

Reg. No. CCASSCS027

under the guidance of

Mr.Linto George

Assistant Professor



BSc COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021



DEPARTMENT OF COMPUTER SCIENCE

Christ College(Autonomous)

Irinjalakuda



CERTIFICATE

Certified that this project entitled "Questra" submitted by "P B Devaraj (Reg. No.CCASSCS027)" in partial fulfillment for the award of the degree of Bachelor of Computer Science under University of Calicut during the year 2019-2020, is the bonafide work carried out by them under my guidance and supervision.

affgor



GAME DEVELOPMENT

PROJECT REPORT

Submitted By

SNEHA K B

Reg. No. CCASSCS028

for the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science (University of Calicut)

under the guidance of

Ms. MINU MARY P J

Assistant Professor



BSc. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

afflory



DEPARTMENT OF COMPUTER SCIENCE CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA



CERTIFICATE

This is to certify that the project report entitled "Game Development" is a bonfied record of the project work done by Sneha K B in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

Ms. Minu Mary P J
Assistant Professor, CS
Internal Guide

Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER



PETZ-ONLINE PET SHOP

PROJECT REPORT

Submitted By

SREERAG M R

Reg. No. CCASSCS030

for the award of the Degree of

Bachelor of Science (B.Sc.)

in Computer Science (University of Calicut)

under the guidance of

Ms. Sini Thomas Assistant Professor



BSc. COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
CHRIST COLLEGE(Autonomous)
IRINJALAKUDA, KERALA
INDIA

March 2021

alles !



DEPARTMENT OF COMPUTER SCIENCE CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA



CERTIFICATE

This is to certify that the project report entitled "Petz - Online Pet Shop" is a bonfied record of the project work done by Sreerag M R in partial fulfillment of the requirement for the sixth semester of Bachelor of Computer Science in Department of Computer Science of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA.

Ms. Sini Thomas Assistant Professor, CS Internal Guide

Ms. Viji Viswanathan Head of the Department Computer Science

EXTERNAL EXAMINER

INTERNAL EXAMINER



CHANGES IN FOOD PRODUCTON AND SERVICE IN SELECTED FIVE STAR HOTELS IN COVID-19 SCENARIO AT COCHIN

(Research report submitted in partial fulfillment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted by

AJIL V JINAN

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT001

UNDER THE GUIDANCE OF Mr. TOYBE JOSEPH

(HOD, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS) Irinjalakuda, Thrissur Dist: 680125 (Affiliated to the University of Calicut)

affer



This is to certify that the research submitted on the topic "Changes in Food Production and Service in Selected Five Star Hotels in Covid-19 scenario at Cochin" is a bonafide record of work done by Mr. AJIL V JINAN, Reg.No: CCASSCT001, B.Sc. HM & CS student towards partial fulfillment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Mr.Toybe Joseph

(Research Guide)

Mr. Toybe Joseph

(H.O.D)

Rev. Dr. Jolly Andrews C.M.I (Principal)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

Internal Examiner

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal

Christ College (Autonomous) Irinjalakuda External Examiner



SCOPE OF PILGRIM TOURISM AT ALUVA MANAPPURAM, ERNAKULAM DISTRICT, KERALA

(Research report submitted in partial fulfilment of the award of Degree in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

AJMAL K B

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT002

UNDER THE GUIDANCE OF Prof. JENNY THOMAS

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125
(Affiliated to the University of Calicut)

affgory



This is to certify that the research submitted on the topic "SCOPE OF PILGRIM TOURISM AT ALUVA MNAPPURAM, ERNAKULAM DISTRICT, KERALA" is a bonafede record of work done by Mr. AJMAL K B, Reg.No: CCASSCT002 Final year B.Sc. HM & CS student towards partial fulfilment of his final year Bachelor Degree in Hotel Management at Christ College (Autonomous), affiliated to the University of Calicut during 2018-2021 academic year.

Prof. JENNY THOMAS (Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous, Irinjalakuda

Internal Examiner

External Examiner

affor



DEVELOPMENT OF STANDARD RECIPES WITH BAMBOO TUBES AS A COOKING AID

(Research report submitted in partial fulfilment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

AKHIL THILAKAN

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT0003

UNDER THE GUIDANCE OF

Prof. AJITH MANI

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)

affyorg



This is to certify that the research submitted on the topic "DEVELOPMENT OF STANDARD RECIPE WITH BAMBOO TUBES AS A COOKING AID" is a bonafide record of work done by Mr. AKHIL THILAKAN, Reg.No: CCASSCT0003, B.Sc. HM & CS student towards partial fulfilment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. AJITH MANI

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous, Irinjalakuda

Internal Examiner

External Examiner

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

Irinjalakuda



AN EXPLORATION OF THE CULTURAL IDENTITY OF JEWISH COMMUNITY IN FORT KOCHI WITH SPECIAL EMPHASIS ON THIER CUISINE

(Research report submitted in partial fulfillment of the award of UG in

B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

ALEN PL

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT004

UNDER THE GUIDANCE OF

Prof. PIUS JOSEPH T

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

afflor

(Affiliated to the University of Calicut)

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

Irinjalakuda



This is to certify that the research submitted on the topic "AN EXPLORATION OF THE CULTURAL IDENTITY OF JEWISH COMMUNITY IN FORT KOCHI WITH SPECIAL EMPHASIS ON THIER CUISINE" is a bonafide record of work done by Mr. ALEN PL., Reg.No: CCASSCT004, B.Sc. HM & CS student towards partial fulfillment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Pius Joseph T

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

Internal Examiner

External Examiner

afflory



"PREPARATION OF INNOVATIVE COCKTAIL WITH BASE SPIRIT VODKA AND CRANBERRY JUICE"

(Research report submitted in partial fulfillment of the award of Degree in

B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

AMALPRAKASH K B

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT005

UNDER THE GUIDANCE OF

Prof. TOYBE JOSEPH

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)

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

rinjalakuda



This is to certify that the research submitted on the topic "YOUR TOPIC" is a bonafide record of work done by Mr. AMALPRAKASH K B, Reg.No:CCASSCT005 Final year B.Sc. HM & CS student towards partial fulfillment of his final year Bachelor Degree in Hotel Management at Christ College (Autonomous), affiliated to the University of Calicut during 2018-2021 academic year.

Prof.Toybe Joseph (Research Guide) Prof. Toybe Joseph (H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

Internal Examiner

External Examiner

afflory



PREPARATION OF INNOVATIVE DISH WITH DRY FRUITS

(Research report submitted in partial fulfillment of the award of degree in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:
ANANDU MS
B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT006

UNDER THE GUIDANCE OF Prof. JENNY THOMAS

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125
(Affiliated to the University of Calicut)

affron



This is to certify that the research submitted on the topic "PREPARATION OF INNOVATIVE DISH WITH DRY FRUITS" is a bonafide record of work done by Mr. ANANDU MS, Reg.No: CCASSCT006 Final year B.Sc. HM & CS student towards partial fulfillment of degree in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Jenny Thomas (Guide)

Prof. Toybe Joseph (H.O.D)

Submitted for the research Viva-Voice held at Christ College Autonomous,
Irinjalakuda

Internal Examiner

External Examiner

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

Irinjalakuda



"A FEASIBILITY STUDY ON ADVENTUER TOURISM CHOKKANA CHALAKUDY THRISSUR DIST"

(Research report submitted in partial fulfillment of the award of UG in B.Sc. of

Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted by

ANS K DAVIS

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT007

UNDER THE GUIDANCE OF

Mr. AJITH MANI

(HOD, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS) Irinjalakuda, Thrissur Dist:680125
(Affiliated to the University of Calicut)



CERTIFICATE OF THE RESEARCH GUIDE

This is to certify that the Research work titled "A FEASIBILITY STUDY ON ADVENTUER TOURISM CHOKKANA CHALAKUDY THRISSUR DIST" is a bonafide record of work done by Mr. ANS K DAVIS, Reg. No: CCASSCT007 for the partial fulfillment of the requirements for the award of, UG in B.Sc. Hotel Management and Catering Science under University of Calicut, carried out his study under my guidance. This research work is original and has not formed any basis prior to this for the award of any Diploma/ Degree under this University/ Institution. Therefore, this Research Work is completely currently and correct.

Mr.AJITH MANI

affers



The Bungee Jumping and the Advent of a New Era of Adventure Tourism in Kerala: A Study

(Research report submitted in partial fulfilment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

Name: ANTONY CHRISTY

(B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT008

UNDER THE GUIDANCE OF

Prof. PIUS JOSEPH

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)



This is to certify that the research submitted on the topic The Bungee Jumping and the Advent of a New Era of Adventure Tourism in Kerala: A Study is a bonafide record of work done by Mr ANTONY CHRISTY, Reg.No: CCASSCT008, B.Sc. HM & CS student towards partial fulfilment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Prus Joseph

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous,
Irinjalakuda

Internal Examiner

External Examiner



INTRODUCING CIRCUIT TOURISM IN THRISUUR DISTRICT, KERALA: AN ANALYTICAL STUDY

(Research report submitted in partial fulfilment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

ANTONY SIMON

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT009

UNDER THE GUIDANCE OF

Prof. Toybe Joseph

(Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)

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

Irinjalakuda

This is to certify that the research submitted on the topic ("Introducing Circuit Tourism in Thrisuur District, Kerala: An Analytical Study") is a bonafide record of work done by Mr ANTONY SIMON, Reg.No: CCASSCT009, B.Sc. HM & CS student towards partial fulfilment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Toybe Joseph

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous, Irinjalakuda

Internal Examiner

External Examiner



AN ANALYSIS OF HOW THE HYATT, HOLIDAYINN, MARRIOT HOTELS IN KOCHI USED THE SCOPE OF FACEBOOK FOR THEIR ADVERTISEMENT

(Research report submitted in partial fulfilment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

ANVIN CJ

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT010

UNDER THE GUIDANCE OF

Prof. JENNY TONY

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)

afflory

This is to certify that the research submitted on the topic ."AN ANALYSIS OF HOW THE HYATT, HOLIDAY INN, MARRIOTT HOTELS IN KOCHI USED THE SCOPE OF FACEBOOK FOR THEIR ADVERTISEMENT." is a bonafide record of work done by Mr. ANVIN CJ, Reg.No: CCASSCT010, B.Sc. HM & CS student towards partial fulfilment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Pro. Jenny tony

(Research Guide)

Pro. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous, Irinjalakuda

Internal Examiner

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

External Examiner



SCOPE OF PILGRIM TOURISM AT KURISUMALA NEAR EZHATTUMUGHAM, THRISSUR DISTRICT, KERALA: A FEASIBILTY STUDY.

(Research report submitted in partial fulfillment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

ASHWIN TB

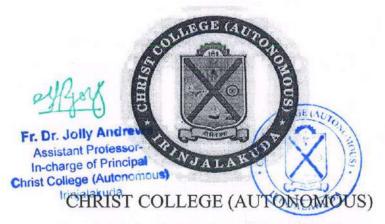
B.Sc. HM &CS -2018-2021

REG.NO: CCASSCT011

UNDER THE GUIDANCE OF

Prof. AJITH MANI

(Assistant Professor, Department of Hotel Management)



Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)

This is to certify that the research submitted on the topic ("SCOPE OF PILGRIM TOURISM AT KURISUMALA NEAR EZHATTUMUGHAM, THRISSUR DISTRICT, KERALA: A FEASIBILTY STUDY") is a bonafide record of work done by Mr. ASHWIN T B, Reg.No: CCASSCT011, B.Sc. HM & CS student towards partial fulfillment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof.Ajith Mani

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

External Examiner

Submitted on for the research Viva-Voice held at Christ College Autonomous, Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

Internal Examiner

"ROLE OF KERALA ARTS IN BOOSTING OF THE STATE TOURISM INDUSTRY"

(Research report submitted in partial fulfilment of the award of Degree in B.Sc. of Hotel Management and Catering Science, University of Calicut

RESEARCH REPORT

Submitted By:

CHRIS ANJO C V

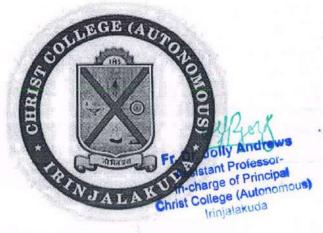
B.Sc. HM & CS (2018-2021)

REG NO: CCASSCTO13

UNDER THE GUIDANCE OF

PROF. TOYBE JOSEPH

(Assistant Professor, Department of Hotel Management)





CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)

This is to certify that the research submitted on the topic "ROLE OF KERALA ARTS IN BOOSTING OF THE STATE TOURISM INDUSTRY" is a bonafide record of work done by Mr. CHRIS ANJO C V, Reg No:CCASSCTO13 Final year B.Sc. HM & CS student towards partial fulfilment of his final year Bachelor Degree in Hotel Management at Christ College(Autonomous), affiliated by the University of Calicut during 2018-2021 academic year.

Prof. Toybe Joseph

(ResearchGuide)

Prof. Toybe Joseph

(H.O.D)

Rev. Dr. Jolly Andrews C.M.I

(Principal)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

Internal Examiner

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

External Examiner

THE IMPACT ON HOTEL FUNCTIONING DURING COVID -19-A CASE STUDY ON HOTEL GRAND HYATT KOCHI

(Research report submitted in partial fulfillment of the award of the Degree of Bachelor of Science in Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted by

DENES GEORGE

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT014

UNDER THE GUIDANCE OF Ms. JENNY THOMAS

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS) Irinjalakuda, Thrissur Dist:680125 (Affiliated to the University of Calicut)

This is to certify that the research report submitted on the topic "The impact on hotel functioning during COVID 19-A case study on Grand Hyatt Kochi" is a bonafide record of work done by Mr. DENES GEORGE, Reg.No: CCASSCT014, B.Sc. HM & CS student towards partial fulfillment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Ms. Jenny Thomas

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on

for the research Viva-Voice held at Christ College

Autonomous, Irinjalakuda

Internal Examiner

Fr. Dr. Jolly Andrews

Assistant ProfessorIn-charge of Principal
In-charge (Autonomous)

Christ College (Autonomous)

External Examiner

"PREPARATION OF INNOVATIVE COCKTAIL WITH BASE SPIRIT VODKA AND GUAVA JUICE"

(Research report submitted in partial fulfillment of the award of Degree in

B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

DHANUSH K GOPAN

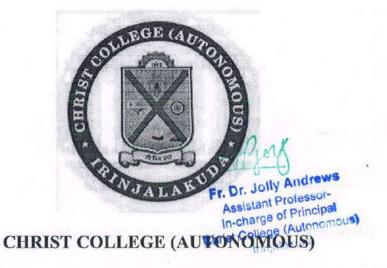
B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT015

UNDER THE GUIDANCE OF

Prof. AJITH MANI

(Assistant Professor, Department of Hotel Management)



Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)



This is to certify that the research submitted on the topic "YOUR TOPIC" is a bonafide record of work done by Mr. DHANUSH K GOPAN, Reg.No:CCASSCT015 Final year B.Sc. HM & CS student towards partial fulfillment of his final year Bachelor Degree in Hotel Management at Christ College (Autonomous), affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Afith Mani (Research Guide) Prof. ToybeJoseph (H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

Internal Examiner

afflyory

Fr. Dr. Jolly Andrews
Assistant ProtessorIn-charge of Principal
Christ College (Autonomous)
Itirijalakuda

External Examiner



The Scope of Developing Pattathipara, Thrissur, Kerala as a Tourist Destination

(Research report submitted in partial fulfilment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

HRITHUGHOSH S EKKALAYIL

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT016

UNDER THE GUIDANCE OF Prof. PIUS JOSEPH

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.: 680125

(Affiliated to the University of Chalieut)

Fr. Dr. Jolly And Assistant Professor-In-sharge of Principal Christ College (Autonomous)



This is to certify that the research submitted on the topic ("Introducing Circuit Tourism in Thrissur District, Kerala: An Analytical Study") is a bonafide record of HRITHUGHOSH S EKKALAYIL, Reg. No: Mr. by CCASSCT016 B.Sc. HM & CS student towards partial fulfilment of UG Science Management and Catering at Christ inB.Sc. Hotel CollegeAutonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. PIUS JOSEPH

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous, Irinjalakuda

Fr. Dr. Jolly Andrews

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

Irinjalakuda



Internal Examiner

External Examiner

MARKET FEASIBILITY OF STARTING A COMMERCIAL LAUNDRY IN THRISSUR

Research report submitted in partial fulfillment of the award of degree

Bachelor of Hotel Management, University of Calicut

RESEARCH REPORT

Submitted By:

JANEESH JOSEPH

B.Sc.HM & CS (2018 - 2021)

REG.NO: CCASSCT017

UNDER THE GUIDANCE OF

PROF.TOYBE JOSEPH

(HOD, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.: 680125

(Affiliated to the University of Calicution

Christ College (Autonomous)



This is to certify that the research submitted on the topic "MARKET FEASIBILITY OF STARTING A COMMERCIAL LAUNDRY IN THRISSUR" is a bonafide record of work done by Mr. JANEESH JOSEPH, Reg.No: CCASSCT017, B.Sc. HM & CS student towards partial fulfillment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Toybe Joseph

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

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

Irinjalakuda

Internal Examiner

External Examiner

A STUDY ABOUT NEW TECHNOLOGIES IMPLEMENTED IN FIVE STAR HOTEL GUEST ROOM

(Research report submitted in partial fulfillment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

JOJI JOSE

B.Sc. HM &CS -2018-2021

REG.NO: CCASSCT011

UNDER THE GUIDANCE OF

Prof. AJITH MANI

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Trissur Dist.:680125

(Affiliated to the University of Califour)

In-charge of Principal Christ College (Autonomous)

Irinjalakuda



This is to certify that the research submitted on the topic ("A STUDY ABOUT NEW TECHNOLOGIES IN FIVE STAR HOTEL GUEST ROOM") is a bonafide record of work done by Mr. JOJI JOSE, Reg.No: CCASSCT019, B.Sc. HM & CS student towards partial fulfillment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Ajith Mani (Research Guide) Prof. Toybe Joseph (H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous, Irinjalakuda

Internal Examiner

External Examiner



SCOPE OF FOREIGN DIRECT INVESTMENT IN TOURISM SECTOR IN SOUTH KERALA

(Research report submitted in partial fulfillment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted by

MIDHUN S

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT020

UNDER THE GUIDANCE OF Prof.PIUS JOSEPH

(HOD, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS) Irinjalakuda, Thrissur Dist:680125 (Affiliated to the University of Calicut)

Fr. Dr. Jolly Andrews

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



This is to certify that the research submitted on the topic "SCOPE OF FOREIGN DIRECT INVESTMENT IN TOURISM SECTOR IN SOUTH KERALA" is a Bonafede record of work done by Mr. MIDHUN S, Reg.No: CCASSCT020, B.Sc. HM & CS student towards partial fulfillment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Pins Joseph

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Rev. Dr. Jolly Andrews C.M.I
(Principal)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Internal Examiner

External Examiner



FEASIBILITY STUDY ON SCOPE OF DENTAL TOURISM IN THRISSUR

(Research report submitted in partial fulfillment of the award of UG in

B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

MILAN MB

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT021

UNDER THE GUIDANCE OF

Prof. TOYBE JOSEPH

(HOD, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)



This is to certify that the research submitted on the topic "FEASIBILITY STUDY ON SCOPE OF DENTAL TOURISM IN THRISSUR" is a bonafide record of work done by Mr. MILAN MB, Reg.No: CCASSCT021, B.Sc. HM & CS student towards partial fulfillment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Toybe Joseph

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

Internal Examiner

External Examiner

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

Christ College (Autonomous) Irinjalakuda



FEASIBILITY OF TEA TOURISM IN INDIA

(Research report submitted in partial fulfillment of the award of degree in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

MILAN PAUL B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT022

UNDER THE GUIDANCE OF

Ms. JENNY THOMAS

(Assistant Professor, Department of Hotel Management)



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

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125
(Affiliated to the University of Calicut)

This is to certify that the research submitted on the topic ("FEASIBILITY OF TEA TOURISM IN INDIA") is a bonafide record of work done by Mr. MILAN PAUL, Reg.No: CCASSCT022, B.Sc. HM & CS student towards partial fulfillment of degree in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Ms. JENNY THOMAS
(Research Guide)

Mr. TOYBE JOSEPH (H.O.D)

External Examiner

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

Internal Examiner

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

PREPARATION AND DEVELOPMENT OF INNOVATIVE ENTREMENT WITH KIWI

(Research report submitted in practical fulfilment of the award of UG in B.Sc. of Hotel

Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

PAUL DAVIS

B.Sc. HM&CS (2018-2021)

REG. NO: CCASSCT023

UNDER THE GUIDANCE OF

Prof. AJITH MANI

(Assistant professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)

Jolly Andrew

Christ College (Autono)



This is to certify that the research submitted on the topic "PREPARATION AND DEVELOPMENT OF INNOVATIVE ENTREMENT WITH AVOCADO AND KIWI" is a bonafide record of work done by Mr.PAUL DAVIS, Reg. No: CCASSCTO23 Final year B.Sc. HM &CS student towards partial fulfilment of UG in B.Sc. Hotel Management and Catering Science at Christ College Autonomous, affiliated to the University of Calicut during 2018-2021 academic year.

Prof.Ajith Mani (Research Guide) Prof.Toybe Joseph (H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous, Irinjalakuda

Internal Examiner

External Examiner



"PREPARATION OF INNOVATIVE RECIPE WITH OATS AND SEMOLINA"

(Research report submitted in partial fulfillment of the award of Degree in

B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

SAM JOHN

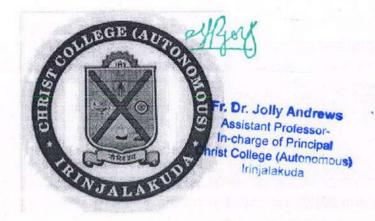
B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT024

UNDER THE GUIDANCE OF

Prof. PIUS JOSEPH

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)



This is to certify that the research submitted on the topic "YOUR TOPIC" is a bonafide record of work done by Mr.SAM JOHN, Reg.No:CCASSCT024 Final year B.Sc. HM& CS student towards partial fulfillment of his final year Bachelor Degree in Hotel Management at Christ College (Autonomous), affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Pius Joseph

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

Internal Examiner

External Examiner

afflory



MERITS OF A FIVE STAR HOTEL IN CO-OPERATIVE SECTOR: WAYANAD, KERALA - A CASE STUDY

(Research report submitted in partial fulfillment of the award of Degree in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By: SANGEETH P B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT025

UNDER THE GUIDANCE OF Prof. TOYBE JOSEPH

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)



CERTIFICATE OF THE RESEARCH GUIDE

This is to certify that the Research work titled Merits of a five star hotel in cooperative sector: Wayanad, Kerala - A case study is a bonafide record of work done by Mr. SANGEETH P, Reg. No: CCASSCT025 for the partial fulfillment of the requirements for the award of Degree in Bachelor of Science in Hotel Management, under University of Calicut, carried out his study under my guidance. This research work is original and has not formed any basis prior to this for the award of any Diploma/ Degree under this University/ Institution. Therefore, this Research Work is completely currently and correct.

Prof. Toybe joseph

(Research Guide)



CATERING SERVICE IN SELECTED MULTY SPECIALTY HOSPITALS IN ERNAKULAM; A CASE STUDY

(Research report submitted in partial fulfilment of the award of UG in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

SHARON KRISHNAN T

B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT026

UNDER THE GUIDANCE OF

Prof. Jenny Tony

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)



Submitted on for the research Viva-Voice held at Christ College Autonomous,
Irinjalakuda

Internal Examiner

External

Examiner

CERTIFICATE OF THE RESEARCH GUIDE

This is to certify that the Research work titled "Catering service in selected multi specialty hospital in ernakulam; A case study" is a bonafide record of work done by Mr. SHARON KRISHNAN T, Reg. No: CCASSCT026 for the partial fulfilment of the requirements for the award of, UG in B.Sc. Hotel Management and Catering Science under University of Calicut, carried out his study under my guidance. This research work is original and has not formed any basis prior to this for the award of any Diploma/ Degree under this University/ Institution. Therefore, this Research Work is completely currently and correct.

Prof. JENNY TONY



"A STUDYABOUT MEASURES TO OVERCOME THE COVID-19 CRISIS OF TOURISM INDUSTRY IN KERALA, WITH REFERENCE TO SELECTED DESTINATIONS"

(Research report submitted in partial fulfilment of the award of Degree in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By:

SOURAV SUNIL B.Sc. HM &CS (2018-2021)

REG.NO: CCASSCT027

UNDER THE GUIDANCE OF Prof. AJITH MANI



(Assistant Professor, Department of Hotel Management)

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125
(Affiliated to the University of Calicut)



This is to certify that the research submitted on the topic "A STUDY ABOUT MEASURES TO OVERCOME THE COVID-19 CRISIS OF TOURISM INDUSTRY IN KERALA WITH REFERENCE TO SELECTED DESTINATIONS" is a bonafede record of work done by Mr.Sourav Sunil, Reg.No: CCASSCT027 Final year B.Sc. HM & CS student towards partial fulfilment of his final year Bachelor Degree in Hotel Management at Christ College (Autonomous), affiliated to the University of Calicut during 2018-2021 academic year.

Prof. Ajith Mani

(Research Guide)

Prof. Toybe Joseph

(H.O.D)

Submitted on for the research Viva-Voice held at Christ College Autonomous,

Irinjalakuda

Internal Examiner

External Examiner

INTRODUCTION OF A STUDY ABOUT THE MECHANICAL EQUIPMENTS USED IN FIVE STAR HOTELS

(Research report submitted in partial fulfillment of the award of Degree in B.Sc. of Hotel Management and Catering Science, University of Calicut)

RESEARCH REPORT

Submitted By: SREEJITH P

B.Sc. HM &CS (2018-2021) REG.NO: CCASSCT028

UNDER THE GUIDANCE OF

Prof. PIUS JOSEPH

(Assistant Professor, Department of Hotel Management)



CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda, Thrissur Dist.:680125

(Affiliated to the University of Calicut)



CERTIFICATE OF THE RESEARCH GUIDE

This is to certify that the Research work titled INTRODUCTION OF A STUDY ABOUT THE MECHANICAL EQUIPMENTS USED IN FIVE STAR HOTELS is a bonafide record of work done by Mr. SREEJITH P, Reg. No: CCASSCT028 for the partial fulfillment of the requirements for the award of Degree in Bachelor of Science in Hotel Management, under University of Calicut, carried out his study under my guidance. This research work is original and has not formed any basis prior to this for the award of any Diploma/ Degree under this University/ Institution. Therefore, this Research Work is completely currently and correct.

Prof. Pius Joseph

(Research Guide)



(13

INTRODUCTION TO GENERAL TOPOLOGY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

MARIA BOBBY K

Reg. No. CCASSMT001



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

1 Jigan



This is to certify that the project entitled "INTRODUCTION TO GENERAL TOPOLOGY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. MARIA BOBBY K (CCASSMT001) during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

Mr. Aravind Krishnan R

Ad-Hoc Lecturer

Shawind

Department of Mathematics

Christ College (Autonomous),

Irinjalakuda

Dr. Seena V

HoD in Charge

Department of Mathematics

Dung e

Christ College (Autonomous),

Irinjalakuda

External Examiner:
Shum Jose I
Assistant Phofusor
Depostment of Mathematics
Phosph's College
Isinjalakkuda

Place: Irinjalakuda

Date: 3 May 2021

afflyory



CRYPTOGRAPHY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
AADITHYAN C A (CCASSMT002)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

TITO



This is to certify that the project entitled "CRYPTOGRAPHY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Mr. AADITHYAN C A (CCASSMT002) during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

Aravind Krishnan R

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Shum Jose I

Assistant Phofusor

Depostment of Mathematicy

H. Joseph's College

Tempelakkuda

Placo: Irinjalakuda

Date: 03 May 2021



INTEGRAL EQUATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
ANJANA BENNY
Reg. No. CCASSMT003



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)
Irinjalakuda

2021



This is to certify that the project entitled "INTEGRAL EQUATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. ANJANA BENNY(CCASSMT003), 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

Department of Mathematics

Christ College, Irinjalakuda

Dr.Seena V

HOD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner:

Shem Jose 1

Department of Mather St. Joseph's College

Trinjalakkuda

Place: Irinjalakuda

Date:8 May 2021

off for



INTRODUCTION TO GENERAL TOPOLOGY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

ANN MARIYA FRANCIS

Reg. No. CCASSMT004



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

1



This is to certify that the project entitled "INTRODUCTION TO GENERAL TOPOLOGY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. ANN MARIYA FRANCIS (CCASSMT004) during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

Mr. Aravind Krishnan R

Ad-Hoc Lecturer

Department of Mathematics

Christ College (Autonomous),

Irinjalakuda

Dr. Seena V

HoD in Charge

Department of Mathematics

Hump

Christ College (Autonomous),

Irinjalakuda

External Examiner:
Sherin Jose 1
Assistant Professor
Deportment of Mathematics
St. Joseph's College
Tain is takked a

Place: Irinjalakuda

Date:3 May 2021

affgor



LATTICE THEORY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
BLAISE MARIYA
CCASSMT005



DEPARTMENT OF MATHEMATICS CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "LATTICE THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. BLAISE MARIYA (CCASSMT005), 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.

Aravind Krishnan R

Department of Mathematics

Christ College, Irinjalakuda

External Examiner:

Shem Jose 1

Depositment of Mathematic

Tamialakkuda

Date: 2 May 2021

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



Diagonalization of Matrices

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

Daya Dinesh (CCASSMT006)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "Diagonalization of Matrices" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Daya Dinesh 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 Irinjalakuda

External Examiner: Sheem Jose T Assistant Phofesson Deportment of Mathematry Place: Irinjalakuda St. Joseph's College, Date:31/03/2021 Tsinjalakkuda

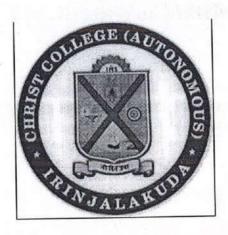


Diagonalization of Matrices

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

Irene Alex (CCASSMT009)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

Fr. Dr. Jolly Andrews
Assistant Professor-

In-charge of Principal
Christ College (Autonomous)

Irinjalakuda



This is to certify that the project entitled "Diagonalization of Matrices" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Irene Alex 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 Irinjalakuda

External Examiner:

Shum Jose T

Assistant Phofusor

Place: Irinjalakutta positment of Mathematics

St. Joseph's College,

Date: 31/03/202 Tamialakku

Fr. Dr. Jolly Andrews

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

Irinjalakuda



BOOLEAN ALGEBRA

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By JIBI BIJU (CCASSMT010)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "BOOLEAN ALGEBRA" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. JIBI BIJU (CCASSMT010) 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.

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:
Shum Jose 1
Assistant Plofusor
Department of Mathematics
84. Joseph's College

Place: drinjalakuda

Date: 31 March 2021

affgory

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



LATTICE THEORY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
KARTHIK P MARAR
CCASSMT011



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)
Irinjalakuda

2021

affgor



This is to certify that the project entitled "LATTICE THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Mr. KARTHIK P MARAR (CCASSMT011), 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.

Aravind Krishnan R

Marinal

Department of Mathematics

Christ College, Irinjalakuda

Dr. Seena V

HOD in Charge

Qual

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Assistant Ptoferson

Department of Manners

Place: drinjalakuda

Date: 2 May 2021



CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED COMPLEX PLANE

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

By
LINTA JOY
CCASSMT012



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

2021

EGE (A Trinjalakuda

This is to certify that the project entitled "CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED PLANE" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. LINTA JOY (CCASSMT012) 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

Department of Mathematics

Christ College, Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:
Sheem Jose T
Assistant Profesor
Depositment of Mathematics
St. Joseph's College

Place: Irinjalakuda

Date: 10 May 2021

Fr. Dr. Jolly An



GRAPH THEORY

A project report submitted to Christ College (Autonomous) in partial fulfillment of the requirement for the award of the B.Sc. Degree Programme in Mathematics

By
MALAVIKA JAYAKUMAR
CCASSMT013



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda



This is to certify that the project entitled "GRAPH THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. MALAVIKA JAYAKUMAR (CCASSMT013) 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.

Aravind Krishnan R

Department of Mathematics

Christ College (Autonomous), Irinjalakuda

Dr. Seena V

HOD in charge

Department of Mathematics

Christ College (Autonomous), Irinjalakuda

External Examiner:
Shem Jose
Assistant Professor
Department of Mathematics
St Joseph's College
Isinjelakkuda

Place: Irinjalakuda

Date:

Diagonalization of Matrices

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

Melwin Wilson (CCASSMT014)



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "Diagonalization of Matrices" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Melwin Wilson 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

Herro C Dr. Seena V

HOD-in-Charge

Department of Mathematics

Christ college Irinjalakuda

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

Irinjalakuda

External Examiner: Swings

Sherin Jose T

Assistant Phofessor

Place: Irinjalakuda poortment of Mathematicy

Date: 31/03/2021 St. Joseph's College,

Iginjalakuda

INTEGRAL EQUATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
SEYIN.C.J
Reg. No. CCASSMT015



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)
Irinjalakuda
2021



This is to certify that the project entitled "INTEGRAL EQUATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme a bonafide record of original research work done by Ms. is Mathematics, SEYIN.C.J(CCASSMT015), 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

Department of Mathematics

Christ College, Irinjalakuda

Dr.Seena V

HOD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

Shem Jose Profesor Assistant Profesor Deportment of Mathematics 84 Joseph's College, Isinjalakkuda

Place: Irinjalakuda

Date: 8 May 2021



Diagonalization of Matrices

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

Shahana VM (CCASSMT016)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021





This is to certify that the project entitled "Diagonalization of Matrices" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Shahana VM 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 Irinjalakuda

External Examiner:

Assurbant Ptofessor

Deportment of Mathematics

Place: Irinjalakuda

Sinjalakuda

Date:31/03/2021



FRACTAL GEOMETRY AND ITS APPLICATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

SHERIN P. JOHNSON

Reg. No. CCASSMT017



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda



This is to certify that the project titled "FRACTAL GEOMETRY AND ITS APPLICATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement of the BSc, Degree Programme in Mathematics, is a bonafide record of the original research done by Ms. SHERIN P. JOHNSON (CCASSMT017) 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.

Fr. Dr. Vincent N S

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HoD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda.

External Examiner:

Desirbut Professor

Department of Mathemat

St Jouph's College

1 xmjaraxxua

Irinjalakuda

03 May 2021

effery

BOOLEAN ALGEBRA

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
ALITHA K S (CCASSMT018)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

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

CHARGE IVE

This is to certify that the project entitled "BOOLEAN ALGEBRA" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. ALITHA K S (CCASSMT018) 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.

Naveen V V

Ad-hoc Lecturer

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HOD in-charge

Deuro e

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Sherin Jose 1 Assistant Plaferson

Deportment of Mathema

Tanjalakuda Place: Irinjalakuda

Date: 31 March 202 V



CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED COMPLEX PLANE

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

By
SREELAKSHMIDAS.P.M
CCASSMT019



affer

DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

This is to certify that the project entitled "CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED PLANE" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. SREELAKSHMIDAS.P.M (CCASSMT019) 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

Department of Mathematics

Christ College, Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Assistant Professor

St. Jouph's College

Tamjalakkuda

Place: Irinjalakuda

Date: 10 May 2021



CRYPTOGRAPHY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
ANJANA M DAS (CCASSMT020)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "CRYPTOGRAPHY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. ANJANA M DAS (CCASSMT020) 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.

Aravind Krishnan R

namind

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:
There Jose Profesor
Deportment of Mathemat

84. Joseph's College Isinjalakkuda

Date: 03 May 2021

affgory



LATTICE THEORY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
ANN ROSE SHAJU PANADAN
CCASSMT021



DEPARTMENT OF MATHEMATICS CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "LATTICE THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. ANN ROSE SHAJU PANADAN (CCASSMT021), 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.

Aravind Krishnan R

Department of Mathematics

Christ College, Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Assistant Ptofessor Depostment of Mathematics 84. Jouph's College

Date: 2 May 2021



INTRODUCTION TO GENERAL TOPOLOGY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

ANSA JAMES

Reg. No. CCASSMT022



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda



This is to certify that the project entitled "INTRODUCTION TO GENERAL TOPOLOGY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. ANSA JAMES (CCASSMT022) during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

Mr. Aravind Krishnan R

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:
Shum Jose I
Assistant Ptopusor
Deportment of Mathematics
84. Jouph's College
Tempidakkuda

Place: Irinjalakuda

Date: 3 May 2021



Diagonalization of Matrices

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
Aparna K (CCASSMT023)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

afflyor



This is to certify that the project entitled "Diagonalization of Matrices" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Aparna K 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 Irinjalakuda

Shem Jose T Assistant Phofusor Deportment of Mathematics 84. Joseph's College Trinjetakkuda External Examiner:

Place: Irinjalakuda

Date:31/03/2021 Fr. Dr. Jolly Andrews

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



GRAPH THEORY

A project report submitted to Christ College (Autonomous) in partial fulfillment of the requirement for the award of the B.Sc. Degree Programme in Mathematics

By
ATHIRA C D
CCASSMT024



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)
Irinjalakuda

2021

affery



This is to certify that the project entitled "GRAPH THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. ATHIRA C D (CCASSMT024) 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.

Aravind Krishnan R

Department of Mathematics

Christ College (Autonomous), Irinjalakuda

Dr. Seena V

HOD in charge

Department of Mathematics

Christ College (Autonomous), Irinjalakuda

External Examiner:
Shein Jose T
Assistant Ptoperor
Deportment of Mathematics
St. Jouph's College,
Tanjalakkuda

Place: Irinjalakuda

Date:



FRACTAL GEOMETRY AND ITS APPLICATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

AUSTIN FRANCIS

Reg. No. CCASSMT025



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

affery

Irinjalakuda



This is to certify that the project titled "FRACTAL GEOMETRY AND ITS APPLICATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement of the BSc, Degree Programme in Mathematics, is a bonafide record of the original research done by Mr. AUSTIN FRANCIS (CCASSMT025) 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.

Fr. Dr. Vincent N S

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HoD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda.

External Examiner:
Sheem Jose 1
Assistant Professor
Deportment of Mathematics
84. Joseph's College
Trinjalakkuda

Irinjalakuda

03 May 2021 4 9 1



INTEGRAL EQUATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
CHARUDARSAN P
Reg. No. CCASSMT028



DEPARTMENT OF MATHEMATICS CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

affery



This is to certify that the project entitled "INTEGRAL EQUATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Mr. CHARUDARSAN P (CCASSMT028), during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

Dr.Shinto K G

Department of Mathematics Christ College, Irinjalakuda Dr.Seena V

HOD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner:
Shum Jose 1
Assistant Ploperor
Deportment of Mathematics
St. Jouph's College,
Isinjalakkuda

Place: Irinjalakuda

Date:8 May 2021



CRYPTOGRAPHY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
EZABEL SHAJAN (CCASSMT029)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

ayyang



This is to certify that the project entitled "CRYPTOGRAPHY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. **EZABEL SHAJAN** (CCASSMT029) 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.

Aravind Krishnan R

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:
Sherin Jose
Assistant Plofessor
Department of Mathematics
St. Jouph's College
Tamialakkuda

Place. Irinjalakuda

Date: 03 May 2021



CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED COMPLEX PLANE

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

By
IZABEL SIBY
CCASSMT030



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

This is to certify that the project entitled "CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED PLANE" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. IZABEL SIBY (CCASSMT030) 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

Department of Mathematics

Christ College, Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:
Sherin Jose 1
Assistant Plofusor
Department of Mathematics
St. Jouch's College

Place: Irinjalakuda

Date: 10 May 2021

affery



INTEGRAL EQUATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
AISHWARYA V.S
Reg. No. CCASSMT032



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

affer



This is to certify that the project entitled "INTEGRAL EQUATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. AISHWARYA V.S (CCASSMT032), 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

Department of Mathematics

Christ College, Irinjalakuda

Dr.Śeena V

HOD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner:

Assistant Plaferson Department of Mathematic

Tamjalakkuda

Place: Irinjalakuda

Date:8 May 2021

affery



GRAPH THEORY

A project report submitted to Christ College (Autonomous) in partial fulfillment of the requirement for the award of the B.Sc. Degree Programme in Mathematics

By
KAVYA V R
CCASSMT033



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "GRAPH THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. KAVYA V R (CCASSMT033) 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.

Aravind Krishnan R

Department of Mathematics

Christ College (Autonomous), Irinjalakuda

Dr. Seena V

HOD in charge

Department of Mathematics

Christ College (Autonomous), Irinjalakuda

External Examiner:
Shum Jose 1
Assistant Phofusor
Department of Mathematics
84. Joseph's College,
Isinjalakkuda

Place: Irinjalakuda

Date:

affgory



INTRODUCTION TO GENERAL TOPOLOGY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

KRISHNAPRIYA P S

Reg. No. CCASSMT034



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "INTRODUCTION TO GENERAL TOPOLOGY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. KRISHNAPRIYA P S (CCASSMT034) during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

Mr. Aravind Krishnan R

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: Shern Jose Assistant Professor

St. Jouph's College

Place: Irinjalakuda

Date: 3 May 2021

afflory



LATTICE THEORY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
MEGHNA DAS O
CCASSMT035



DEPARTMENT OF MATHEMATICS CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "LATTICE THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. MEGHNA DAS O (CCASSMT035), 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.

Aravind Krishnan R

Department of Mathematics

Christ College, Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Assistant Plofes

External Examiner:

Department of Mathemat

Temialakkuda

Date: 2 May 2021

affgory



METRIC SPACE AND IT'S GENERALIZATION

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

MRITHULKUMAR T.M

Reg. No. CCASSMT036



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

1

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

COULT GE (AUTORCIA)

This is to certify that the project entitled "METRIC SPACE AND IT'S GENERALIZATION" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Mr. MRITHULKUMAR T.M (CCASSMT036) 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.

Pons

Fr. Dr Vincent N.S

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

Dr, Seena V

HOD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner:

Shum Jose 1

Assistant Plafusor

Depoitment of Mathematic

10/05/2021 jalakkuda

afflory



BOOLEAN ALGEBRA

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

NIRUPAMA KONIKKARA (CCASSMT037)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

299484



This is to certify that the project entitled "BOOLEAN ALGEBRA" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. NIRUPAMA KONIKKARA (CCASSMT037) 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.

Naveen V V

Ad-hoc Lecturer

Adrian

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HOD in-charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner

Assistant Professor

Department of Mathemat

St. Joseph's College,

Place: Irinjalakuda

Date: 31 March 2021

afflyor

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

Irinjalakuda



FRACTAL GEOMETRY AND ITS APPLICATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

AJAYNA THILAKAN

Reg. No. CCASSMT038



affgorg

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal
Christ College (Autonomous)
Irinalakuda



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

This is to certify that the project titled "FRACTAL GEOMETRY AND ITS APPLICATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement of the BSc, Degree Programme in Mathematics, is a bonafide record of the original research done by Ms. AJAYNA THILAKAN (CCASSMT038) 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.

Fr. Dr. Vincent N S

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HoD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda.

External Examiner:
Shum Jose
Assistant Ptopusar
Department of Mathemathy
St. Joseph's College,
Isinjalakkuda

Irinjalakuda

03 May 2021

affling



BOOLEAN ALGEBRA

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
NOBLE BENNY (CCASSMT039)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "BOOLEAN ALGEBRA" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Mr. NOBLE BENNY (CCASSMT039) during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

Naveen V V

Ad-hoc Lecturer

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HOD in-charge

Department of Mathematics

Down e

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Assistant Professor. Department of Mathematics

St. Jouph's College,

Tomjálakuda Place:drinjalakuda

Date: 31 March 2021

affigery



INTRODUCTION TO GENERAL TOPOLOGY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By

RAHUL P V

Reg. No. CCASSMT040



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

1



This is to certify that the project entitled "INTRODUCTION TO GENERAL TOPOLOGY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Mr. RAHUL P V (CCASSMT040) during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

Mr. Aravind Krishnan R

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:
Shum Jose
Assistant Profusor
Deportment of Mathematics
84. Joseph's College
Isinjalakkuda

Place: Irinjalakuda

Date: 3 May 2021

afflyory



GRAPH THEORY

A project report submitted to Christ College (Autonomous) in partial fulfillment of the requirement for the award of the B.Sc. Degree Programme in Mathematics

By
SANJU B
CCASSMT041



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

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



This is to certify that the project entitled "GRAPH THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. SANJU B (CCASSMT041) 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.

Aravind Krishnan R

Jaminal

Department of Mathematics

Christ College (Autonomous), Irinjalakuda

Dr. Seena V

HOD in charge

Department of Mathematics

Christ College (Autonomous), Irinjalakuda

External Examiner:
Sherin Jose T
Assistant Professor
Department of Mathematics
84 Joseph's College
Tempilaktuda

Place: Irinjalakuda

Date:



CRYPTOGRAPHY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By SREELAKSHMI VALSAN (CCASSMT042)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "CRYPTOGRAPHY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. SREELAKSHMI VALSAN (CCASSMT042) 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.

Aravind Krishnan R

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:
Sherin Jose
Assistant Ploferior
Deportment of Mathematics
St. Jouph's College
Trinjalaktuda
Place: Irinjalaktuda

Date: 03 May 2021



INTEGRAL EQUATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree programme in Mathematics

By
VIDHUKRISHNA. M. S
Reg. No. CCASSMT043



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)
Irinjalakuda

2021



This is to certify that the project entitled "INTEGRAL EQUATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms.VIDHUKRISHNA. M. S(CCASSMT043), 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

Department of Mathematics

Christ College, Irinjalakuda

Dr.Seena V

HOD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

External Examiner:
Shum Jose I
Assistant Ptofersor
Deportment of Mathematry
I Joseph's College
Tempolakkuda

Place: Irinjalakuda

Date:8 May 2021



METRIC SPACE AND IT'S GENERALIZATION

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

ALVIA DAVID

Reg. No. CCASSMT044



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project entitled "METRIC SPACE AND IT'S GENERALIZATION" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done ALVIA DAVID (CCASSMT044) 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.

Fr. Dr Vincent N.S

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

Dr, Seena V

HOD in charge

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

Shum Jose T Shum Jose T Department of Mathematics St. Joseph's College Trinjalakuda

Irinjalakuda

10/05/2021

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



CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED COMPLEX PLANE

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

By
ALWIN JOHN
CCASSMT045



DEPARTMENT OF MATHEMATICS CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda 📉



This is to certify that the project entitled "CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED PLANE" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Mr. ALWIN JOHN (CCASSMT045) 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

Department of Mathematics

Christ College, Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:
Shem Jose Them Jose Thematics
Deportment of Mathematics
St Joseph's College
Tamjelakkuda

Place: Irinjalakuda

Date: 10 May 2021

affyory



METRIC SPACE AND IT'S GENERALIZATION

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

ANET JOHNY

Reg. No. CCASSMT046



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

1



This is to certify that the project entitled "METRIC SPACE AND IT'S GENERALIZATION" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done ANET JOHNY (CCASSMT046) during the period of her study in the Department of by Ms. Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

Fr. Dr Vincent N.S

Department of Mathematics

Christ College(Autonomous)

Irinjalakuda

Dr, Seena V

HOD in charge

Department of Mathematics

Huse

Christ College(Autonomous)

Irinjalakuda

External Examiner: Jose T Assistant Professor Deportment of Mathematics Irinjalakuda St. Joseph's College, Isinjalakuda

10/05/2021

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

Irinjalakuda



FRACTAL GEOMETRY AND ITS APPLICATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

HRIDYA HARIPRAKASH

Reg. No. CCASSMT047



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021



This is to certify that the project titled "FRACTAL GEOMETRY AND ITS APPLICATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement of the BSc, Degree Programme in Mathematics, is a bonafide record of the original research done by Ms. HRIDYA HARIPRAKASH (CCASSMT047) 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.

Fr. Dr. Vincent N S

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HoD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda.

External Examiner :

Assistant Ptopesor

St. Jouph's College

Tamjalakuda Irinjalakuda

00.34 2021

03 May 2021

affery



LATTICE THEORY

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By
SANGMAROSE BENNY
CCASSMT048



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)
Irinjalakuda

2021



This is to certify that the project entitled "LATTICE THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. SANGMAROSE BENNY (CCASSMT048), 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.

Aravind Krishnan R

Department of Mathematics

Christ College, Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:

Asirtant Profesor

Department of Mahamas

Tamialakkuda Place: drinjalakuda

Date: 2 May 2021



BOOLEAN ALGEBRA

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

By SANTHIKRISHNA T U (CCASSMT049)



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

2021

affer



This is to certify that the project entitled "BOOLEAN ALGEBRA" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. SANTHIKRISHNA T U (CCASSMT049) 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.

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

St. Jouph's College,

Isinjalakuda Place. Irinjalakuda

Date: 31 March 2021



CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED COMPLEX PLANE

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

By SHIKHA. K.S CCASSMT050

affery

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



DEPARTMENT OF MATHEMATICS
CHRIST COLLEGE (AUTONOMOUS)
Irinjalakuda

2021

This is to certify that the project entitled "CONFORMAL AND MÖBIUS TRANSFORMATIONS IN THE EXTENTED PLANE" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by Ms. SHIKHA.K.S (CCASSMT050) 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

Department of Mathematics

Christ College, Irinjalakuda

Dr. Seena V

HOD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

External Examiner:
Shum Jose
Assirbant Professor
Department of Mathematic

njálakkuda

Place: Irinjalakuda

Date: 10 May 2021

allyon



FRACTAL GEOMETRY AND ITS APPLICATIONS

A project report submitted to Christ College (Autonomous) in partial fulfillment of requirement for the award of the B.Sc. Degree Programme in Mathematics

ANAGHA A H

Reg. No. CCASSMT051



DEPARTMENT OF MATHEMATICS

CHRIST COLLEGE (AUTONOMOUS)

Irinjalakuda

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



2021

This is to certify that the project titled "FRACTAL GEOMETRY AND ITS APPLICATIONS" submitted to the Department of Mathematics in partial fulfillment of the requirement of the BSc, Degree Programme in Mathematics, is a bonafide record of the original research done by Ms. ANAGHA A H (CCASSMT051) 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.

Fr. Dr. Vincent N S

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

HoD in Charge

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda.

External Examiner:

Irinjalakuda

03 May 2021





"DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ANEX JOSHY C

CCASSPH001

Under the supervision of

Dr. SUDHEER SEBASTIAN K 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 IRINJALAKUDA (AUTONOMOUS) CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project report entitled "DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM" is a bonafied record of project done by Anex Joshy C (CCASSPH001) under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

July 2021

Dr. Sudheer Sebastian K

(Project Guide)

affgary



"ANALYSIS AND STUDY ON THERMOELECTRIC MATERIALS FOR FUTURE POWER GENERATION"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

PAULMON T JAISON

CCASSPH002

Under the supervision of

Dr. ANJU PAULSON

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
MAY 2021

afflore

1

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



Certified that the work presented in this project report is a bonafide work done by these students under my guidance in the department of physics, Christ College, Irinjalakuda.

Irinjalakuda

Dr. Anju Paulson

April 2021

(Supervising guide)

Fr. Dr. Jolly Andrews

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





"A STUDY ON CALCULATING THE AGE OF STAR CLUSTERS USING H-R DIAGRAMS"

Project Report Submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



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

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SREELAKSHMI H NATH - CCASSPH003

Under the supervision of

Dr. EDWIN JOSE

ASSISTANT PROFESSOR

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

JUNE 2021



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project report entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a Bonafide record of project done by Sreelakshmi H Nath (CCASSPH003) under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

June 2021

Edwin Jose

(Project Guide)

afflory



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

"A STUDY ON CALCULATING THE AGE OF STAR CLUSTERS"

Project Report Submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



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

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SWEETY PEREIRA

CCASSPH004

Under the supervision of

Dr. EDWIN JOSE

ASSISTANT PROFESSOR

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

JUNE 2021



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project report entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a Bonafide record of project done by Sweety Pereira (CCASSPH004) under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

June 2021

Edwin Jose

(Project Guide)

affers



"IMPLEMENTATION OF OPERATIONAL AMPLIFIER EXPERIMENTS USING EXPEYES DEVICE"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ADARSH R. - CCASSPH005

Under the supervision of

Dr. K. Y. SHAJU

DEPARTMENT OF PHYSICS

RIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



Certified that the work presented in this project is bonafide work done by these students under my guidance in the department of Physics, Christ College Irinjalakuda

Dr Shaju Kavungal Yohannan

June 2021

(Supervising Guide)

Irinjalakuda

affen



"IMPLEMENTATION OF OPERATIONAL AMPLIFIER EXPERIMENTS USING EXPEYES DEVICE"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ADITHYA T. P. - CCASSPH006

Under the supervision of

Dr. K. Y. SHAJU

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MAY 2021

Fr. Dr. Jolly Andrews
Assistant Professor-

In-charge of Principal

Christ College (A. L. o. o. o.)

Certified that the work presented in this project is bonafide work done by these students under my guidance in the department of Physics, Christ College Irinjalakuda

Dr Shaju Kavungal Yohannan

June 2021

(Supervising Guide)

Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal 2
Christ College (Autonomous)

Irinialakuda



GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHER-FORD SCATTERING

Project Report submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

In partial fulfilment of the requirement for the

Award of the Degree of

BACHELOR OF SCIENCE

Under the supervision of

Dr. ZUHAIR N S



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) APRIL 2021

Submitted by,

ALEN T BABAN - CCASSPH007

ayzorg



DECLARATION

ALEN T BABAN – CCASSPH007 hereby declare that the project entitled "GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHERFORD SCATTERING" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. ZUHAIR N S, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

ALEN T BABAN - CCASSPH007

June 2021



GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHER-FORD SCATTERING

Project Report submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

In partial fulfilment of the requirement for the

Award of the Degree of

BACHELOR OF SCIENCE

Under the supervision of

Dr. ZUHAIR N S



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) APRIL 2021

Submitted by,

ANELDA JOSE - CCASSPH008

afflory



DECLARATION

ANELDA JOSE - CCAS SPH008 hereby declare that the project entitled "GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHERFORD SCATTERING" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. ZUHAIR N S, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

ANELDA JOSE – CCAS SPH008

June 2021

affer





"DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ANNAM KSHEMA THOMAS CCASSPH009

Under the supervision of

Dr. SUDHEER SEBASTIAN K
DEPARTMENT OF PHYSICS
CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA

JULY 2021



CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project report entitled "DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM" is a bonafied record of project done by Annam Kshema Thomas (CCASSPH009) under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

July 2021

Dr. Sudheer Sebastian K

(Project Guide)

affery



"DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ANNIEMOL DAISON

CCASSPH010

Under the supervision of

Dr. SUDHEER SEBASTIAN K

DEPARTMENT OF PHYSICS

CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA

JULY 2021

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal

Christ College (Autonomous) Irinjalakuda



CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project report entitled "DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM" is a bonafied record of project done by Anniemol Daison (CCASSPH010) under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

July 2021

Dr. Sudheer Sebastian K

(Project Guide)



"SIMULATION STUDIES OF A PEROVSKITE SOLAR CELL"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

HIBA T K

CCASSPH011

Under the supervision of

Dr. SUDHEER SEBASTIAN K

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

affyorg

Fr. Dr. Jolly Andrews

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



HIBA T K (CCASSPH011) hereby declare that the project entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. Edwin Jose, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

HIBATK (CCASSPH011)

June 2021

affgor



"TEMPERATURE MEASUREMENT TECHNIQUES"

Project report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Submitted by

KESLINE WILSON

CCASSPH012

Under the supervision of

Dr. XAVIER JOSEPH



DEPARTMENT OF PHYSICS
CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

Fr. Dr. Jolly Andrews
Assistant Professor-

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



It is certified that this project is a bonafide work done by these students under my guidance in the department of physics, Christ college Irinjalakuda

Irinjalakuda

Dr. Xavier Joseph

X05

April 2021

(Supervising guide)

affyorg

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

2



"ANALYSIS AND STUDY ON THERMOELECTRIC MATERIALS FOR FUTURE POWER GENERATION"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

NAVEEN CJAMES

CCASSPH013

Under the supervision of

Dr. ANJU PAULSON

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MAY 2021

Fr. Dr. Jolly Andrews 1 Assistant Professor-In-charge of Principal

Christ College (Autonomous)

Irinialakuda



Certified that the work presented in this project report is a bonafide work done by these students under my guidance in the department of physics, Christ College, Irinjalakuda.

Irinjalakuda

Dr. Anju Paulson

April 2021

(Supervising guide)

afflory

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

2



"ANALYSIS AND STUDY ON THERMOELECTRIC MATERIALS FOR FUTURE POWER GENERATION"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

RENJITH K R

CCASSPH014

Under the supervision of

Dr. ANJU PAULSON

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MAY 2021

Fr. Dr. Jolly Andrews

Assistant Professor In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



Certified that the work presented in this project report is a bonafide work done by these students under my guidance in the department of physics, Christ College, Irinjalakuda.

Irinjalakuda

Dr. Anju Paulson

April 2021

(Supervising guide)

affgory

2



"STUDY ABOUT EFFECT OF GRAVITY AND ELECTROSTATICS ON ELEMENTARY PARTICLES"

Project Report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Under the supervision of

Mrs. STIJI SAJIN



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) MAY 2021

Submitted by

RONALD SAJAN - CCASSPH015

afflory



Certified that the work presented in this project report is bonafide work done by these students under my guidance in the department of physics, Christ College Irinjalakuda.

Irinjalakuda

Mrs.Stiji Sajin

April 2021

(Supervising Guide)

affery

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



"STUDY ABOUT EFFECT OF GRAVITY AND ELECTROSTATICS ON ELEMENTARY PARTICLES"

Project Report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Under the supervision of

Mrs. STIJI SAJIN



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) MAY 2021

Submitted by

SIMON PETER - CCASSPH016

Fr. Dr. Jolly Andrews

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



Certified that the work presented in this project report is bonafide work done by these students under my guidance in the department of physics, Christ College Irinjalakuda.

Irinjalakuda

Mrs. Stiji Sajin

April 2021

(Supervising Guide)

afflory



"A STUDY ON CALCULATING THE AGE OF STAR CLUSTERS USING H-R DIAGRAMS"

Project Report Submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



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

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

VIBHA PRASAD

CCASSPH018

Under the supervision of

Dr. EDWIN JOSE

ASSISTANT PROFESSOR

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

JUNE 2021

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

Irinjalakuda



Vibha Prasad (CCASSPH018) hereby declare that the project entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. Edwin Jose, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

Vibha Prasad (CCASSPH018)

June 2021

Edwin Jose

allyon

"IMPLEMENTATION OF OPERATIONAL AMPLIFIER EXPERIMENTS USING EXPEYES DEVICE"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ACHU T. UNNIKRISHNAN - CCASSPH019

Under the supervision of

Dr. K. Y. SHAJU

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MAY 2021

1

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



Certified that the work presented in this project is bonafide work done by these students under my guidance in the department of Physics, Christ College Irinjalakuda

Dr Shaju Kavungal Yohannan

June 2021

(Supervising Guide)

Irinjalakuda

2/400

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



"IMPLEMENTATION OF OPERATIONAL AMPLIFIER EXPERIMENTS USING EXPEYES DEVICE"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ADITYA KRISHNA M. K. - CCASSPH020

Under the supervision of

Dr. K. Y. SHAJU

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MAY 2021

1



Certified that the work presented in this project is bonafide work done by these students under my guidance in the department of Physics, Christ College Irinjalakuda

Dr Shaju Kavungal Yohannan

June 2021

(Supervising Guide)

Irinjalakuda

afflor

2



"IMPLEMENTATION OF OPERATIONAL AMPLIFIER EXPERIMENTS USING EXPEYES DEVICE"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

AJITH M - CCASSPH021

Under the supervision of

Dr. K. Y. SHAJU

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MAY 2021

1

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



Certified that the work presented in this project is bonafide work done by these students under my guidance in the department of Physics, Christ College Irinjalakuda

Dr Shaju Kavungal Yohannan

June 2021

(Supervising Guide)

Irinjalakuda

eyyan)



GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHER-FORD SCATTERING

Project Report submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

In partial fulfilment of the requirement for the

Award of the Degree of

BACHELOR OF SCIENCE

Under the supervision of

Dr. ZUHAIR N S



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) APRIL 2021

Submitted by,

ALOYSIOUS DAVIS - CCASSPH022



ALOYSIOUS DAVIS - CCASSPH022 hereby declare that the project entitled "GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHERFORD SCATTERING" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. ZUHAIR N S, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

ALOYSIOUS DAVIS – CCASSPH022

June 2021

affery



GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHER-FORD SCATTERING

Project Report submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

In partial fulfilment of the requirement for the

Award of the Degree of

BACHELOR OF SCIENCE

Under the supervision of

Dr. ZUHAIR N S



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) APRIL 2021

Submitted by,

ALVIN AUGUSTINE - CCASSPH023

afflory



ALVIN AUGUSTINE - CCASSPH023 hereby declare that the project entitled "GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHERFORD SCATTERING" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. ZUHAIR N S, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

ALVIN AUGUSTINE – CCASSPH023

June 2021

GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHER-FORD SCATTERING

Project Report submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

In partial fulfilment of the requirement for the

Award of the Degree of

BACHELOR OF SCIENCE

Under the supervision of

Dr. ZUHAIR N S



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) APRIL 2021

Submitted by,

ANAGHA K B - CCASSPH024



ANAGHA K B – CCASSPH024 hereby declare that the project entitled "GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHERFORD SCATTERING" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. ZUHAIR N S, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

ANAGHA K B - CCASSPH024

June 2021



"DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ANGEL MARIYA L

CCASSPH025

Under the supervision of

Dr. SUDHEER SEBASTIAN K

DEPARTMENT OF PHYSICS

CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA

JULY 2021

affery

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal
hrist College (Autonomous

Christ College (Autonomous) Irinjalakuda



CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

DEPARTMENT OF PHYSICS

CALICUT UNIVERSITY

CERTIFICATE

This is to certify that the project report entitled "DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM" is a bonafied record of project done by Angel Mariya L (CCASSPH025) under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

July 2021

Dr. Sudheer Sebastian K

(Project Guide)

afflory



"DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ANNAMARY DAVIS

CCASSPH026

Under the supervision of

Dr. SUDHEER SEBASTIAN K

DEPARTMENT OF PHYSICS

CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA

JULY 2021

2100

Fr. Dr. Jolly Andrews

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



CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project report entitled "DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM" is a bonafied record of project done by Annamary Davis (CCASSPH026) under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

July 2021

Dr. Sudheer Sebastian K

(Project Guide)

affery



"SIMULATION STUDIES OF A PEROVSKITE SOLAR CELL"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

APARNA K

CCASSPH027

Under the supervision of

Dr. SUDHEER SEBASTIAN K

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

Fr. Dr. Jolly Andrews
Assistant Professor-

In charge of Principal
Christ College (Autonomous)
Irinjalakuda



APARNA K(CCASSPH027) hereby declare that the project entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. Edwin Jose, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

APARNA K(CCASSPH027)

Dr. Sudheer Schastrank

June 2021

affery



"SIMULATION STUDIES OF A PEROVSKITE SOLAR CELL"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

CAROLIN SANTHOSH

CCASSPH029

Under the supervision of

Dr. SUDHEER SEBASTIAN K
DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

effect



CAROLIN SANTHOSH (CCASSPH029) hereby declare that the project entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. Edwin Jose, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

CAROLIN SANTHOSH (CCASSPH029)

Dr. Judheer Subastian K

June 2021

allyon



"SIMULATION STUDIES OF A PEROVSKITE SOLAR CELL"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

CHACKO SHAJU

CCASSPH030

Under the supervision of

Dr. SUDHEER SEBASTIAN K

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021



CHACKO SHAJU (CCASSPH030) hereby declare that the project entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. Edwin Jose, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

CHACKO SHAJU (CCASSPH030)

June 2021

afflory

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal
Christ College (Autonomous)
Iringalakuda

CONTROL (AUTO)

Dr. Sudhen Sebastian

"SIMULATION STUDIES OF A PEROVSKITE SOLAR CELL"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

DANIEL MATHEW

CCASSPH031

Under the supervision of

Dr. SUDHEER SEBASTIAN K
DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

affor



DECLARATION

DANIEL MATHEW(CCASSPH031) hereby declare that the project entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. Edwin Jose, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

DANIEL MATHEW(CCASSPH031)

Dr. Sugher Sebastion

June 2021

affor



"SIMULATION STUDIES OF A PEROVSKITE SOLAR CELL"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

DON P SUNNY

CCASSPH032

Under the supervision of

Dr. SUDHEER SEBASTIAN K
DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

affery



DECLARATION

DON P SUNNY(CCASSPH032) hereby declare that the project entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a record of independent and Bonafide project work carried out by us under the supervision and guidance of Dr. Edwin Jose, Department of Physics, Christ College (Autonomous), Irinjalakuda.

The information and data given in the report is authentic to the best of our knowledge. The report has not been previously submitted for the award of any Degree, Diploma, Associateship or other similar title of any other university or institute.

Irinjalakuda

DON P SUNNY (CCASSPH032)

June 2021

Fr. Dr. Jolly Andre

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



Dr. Sudheer Sebastian K

"TEMPERATURE MEASUREMENT TECHNIQUES"

Project report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Submitted by

JULIET BIJU

CCASSPH033

Under the supervision of

Dr. XAVIER JOSEPH



DEPARTMENT OF PHYSICS

affery

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

Fr. Dr. Jolly Andrews
Assistant Professor-

Christ College (Autonomous)



It is certified that this project is a bonafide work done by these students under my guidance in the department of physics, Christ college Irinjalakuda

Konier Joseph

Irinjalakuda

Dr. Xavier Joseph

April 2021

(Supervising guide)

affront



"TEMPERATURE MEASUREMENT TECHNIQUES"

Project report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Submitted by

KALIDAS M. M

CCASSPH034

Under the supervision of

Dr. XAVIER JOSEPH



DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

afflyory Fr. Dr. Jolly And

It is certified that this project is a bonafide work done by these students under my guidance in the department of physics, Christ college Irinjalakuda

Kanner Joseph

Irinjalakuda

Dr. Xavier Joseph

April 2021

(Supervising guide)

affgorg

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal





"TEMPERATURE MEASUREMENT TECHNIQUES"

Project report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Submitted by

NAFIA PARVEEN. M.A

CCASSPH035

Under the supervision of

Dr. XAVIER JOSEPH



DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

Fr. Dr. Jolly Andrews

Assistant Professor-

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



It is certified that this project is a bonafide work done by these students under my guidance in the department of physics, Christ college Irinjalakuda

Karrer Jeseph

Irinjalakuda

Dr. Xavier Joseph

April 2021

(Supervising guide)

allyon



"Computational Approach of Physics with the Study of Projectile Motion"

Project Report submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Submitted by

NAKUL RAMESH VARMA - CCASSPH036

Under the supervision of

Dr. ANJU PAULSON



DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

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



CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

Certificate

This is to certify that the project report entitled "Computational Approach of Physics with the Study of Projectile Motion" is a bonafied record of project done by Master Nakul Ramesh Varma (CCASSPH036) under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Bachelor of Physics and it has not previously formed the basis for any degree, diploma and associateship of fellowship.

Irinjalakuda

July 2021

Dr. ANJU PAULSON

(Project Guide)

aypyorg

Fr. Dr. Jolly Andrews

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



"STUDY ABOUT EFFECT OF GRAVITY AND ELECTROSTATICS ON ELEMENTARY PARTICLES"

Project Report submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Under the supervision of

Mrs. STIJI SAJIN



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

Submitted by

RITHIK RAJ. - CCASSPH037



Certified that the work presented in this project report is bonafide work done by these students under my guidance in the department of physics, Christ College Irinjalakuda.

Irinjalakuda

Mrs.Stiji Sajin

April 2021

(Supervising Guide)



"STUDY ABOUT EFFECT OF GRAVITY AND ELECTROSTATICS ON ELEMENTARY PARTICLES"

Project Report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Under the supervision of

Mrs. STIJI SAJIN



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) MAY 2021

Submitted by

RIYA JOSON. - CCASSPH038

Fr. Dr. Jolly Andrews

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



Certified that the work presented in this project report is bonafide work done by these students under my guidance in the department of physics, Christ College Irinjalakuda.

Irinjalakuda

Mrs.Stiji Sajin

April 2021

(Supervising Guide)

Fr. Dr. Jolly Andrews
Assistant Professor-

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



"STUDY ABOUT EFFECT OF GRAVITY AND ELECTROSTATICS ON ELEMENTARY PARTICLES"

Project Report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Under the supervision of

Mrs. STIJI SAJIN



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

MAY 2021

Submitted by

SREEDEVI TP

- CCASSPH039



Certified that the work presented in this project report is bonafide work done by these students under my guidance in the department of physics, Christ College Irinjalakuda.

Irinjalakuda

Mrs.Stiji Sajin

April 2021

(Supervising Guide)

Fr. Dr. Jolly Andrews
Assistant Professor-

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



"A STUDY ON CALCULATING THE AGE OF STAR CLUSTERS USING H-R DIAGRAMS"

Project Report Submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



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

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SREEDEVI VS

- CCASSPH040

Under the supervision of

Dr. EDWIN JOSE
ASSISTANT PROFESSOR

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal

Christ HJNE 2021 mous) Irinjalakuda

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project report entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a Bonafide record of project done by Sreedevi VS (CCASSPH040) under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

June 2021

Edwin Jose

(Project Guide)



"A STUDY ON CALCULATING THE AGE OF STAR CLUSTERS USING H-R DIAGRAMS"

Project Report Submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA



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

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SREELAKSHMI S

CCASSPH041

Under the supervision of

Dr. EDWIN JOSE

ASSISTANT PROFESSOR

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

JUNE 2021



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project report entitled "A Study on Calculating the Age of Star Clusters Using H-R Diagrams" is a Bonafide record of project done by Sreelakshmi S (CCASSPH041) under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

June 2021

Edwin Jose

(Project Guide)



"IMPLEMENTATION OF OPERATIONAL AMPLIFIER EXPERIMENTS USING EXPEYES DEVICE"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

AISWARYA K S - CCASSPH042

Under the supervision of

Dr. K. Y. SHAJU

DEPARTMENT OF PHYSICS

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MAY 2021

Fr. Dr. Jolly Andrews 1

Assistant Professor-In-charge of Principal

Christ College (Autonomous) Irinjalakuda



Certified that the work presented in this project is bonafide work done by these students under my guidance in the department of Physics, Christ College Irinjalakuda

Dr Shaju Kavungal Yohannan

June 2021

(Supervising Guide)

Irinjalakuda

Fr. Dr. Jolly Andrews

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

GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHER-FORD SCATTERING

Project Report submitted to

DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

In partial fulfilment of the requirement for the

Award of the Degree of

BACHELOR OF SCIENCE

Under the supervision of

Dr. ZUHAIR N S



DEPARTMENT OF PHYSICS CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) APRIL 2021

Submitted by,

AMISHA K JAYESH - CCASSPH043



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

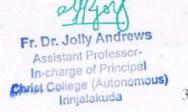
This is to certify that the project report entitled "GEOMETRICAL DERIVATION OF KEPLER'S LAWS AND ITS APPLICATION TO RUTHERFORD SCATTERING" is a Bonafide record of project done by AMISHA K JAYESH – CCASSPH043 under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

June 2021

Dr. ZUHAIR N S

(Project Guide)





"DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM"

Project Report

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

BACHELOR OF SCIENCE



Submitted by

ANJU KRISHNA K K

CCASSPH044

Under the supervision of

Dr. SUDHEER SEBASTIAN K

DEPARTMENT OF PHYSICS

CHRIST COLLEGE(AUTONOMOUS), IRINJALAKUDA

JULY 2021



CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS) CALICUT UNIVERSITY

DEPARTMENT OF PHYSICS

CERTIFICATE

This is to certify that the project report entitled "DESIGNING AND SIMULATION STUDIES OF ORGANIC SOLAR CELL USING GPVDM" is a bonafied record of project done by Anju Krishna K K (CCASSPH044) under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of BACHELOR OF PHYSICS and it has not previously formed the basis for any Degree, Diploma and Associateship or Fellowship.

Irinjalakuda

July 2021

Dr. Sudheer Sebastian K

(Project Guide)

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



"TEMPERATURE MEASUREMENT TECHNIQUES"

Project report submitted to

DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)

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

BACHELOR OF SCIENCE

Submitted by

MALAVIKA K

CCASSPH045

Under the supervision of

Dr. XAVIER JOSEPH



DEPARTMENT OF PHYSICS

CHRIST COLLEGE IRINJALAKUDA (AUTONOMOUS)



It is certified that this project is a bonafide work done by these students under my guidance in the department of physics, Christ college Irinjalakuda

Irinjalakuda

Dr. Xavier Joseph

April 2021

(Supervising guide)



Certified that the work presented in this project report is a bonafide work done by these students under my guidance in the department of physics, Christ College, Irinjalakuda.

Irinjalakuda

Dr. Anju Paulson

April 2021

(Supervising guide)

2

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

trinjstakuda



15

PROBLEMS IN PHYSICS: NUMERICAL SIMULATIONS WITH PYTHON

submitted by HRIDICK PAVANAN (Reg no: CCASSPH048)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Prof. RAICHAL JOHN
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA UNIVERSITY OF CALICUT March 2021

afflory



This is to certify that the project titled "PROBLEMS IN PHYSICS: NUMERICAL SIMULATIONS WITH PYTHON" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by HRIDICK PAVANAN (CCASSPH048) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

_OV

RAICHAL JOHN

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Androws

Assistant ProfessorInscharge of Principal
Christ College (Autonomous)
Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

WALALAY

FERROFLUIDS: PROPERTIES

AND APPLICATIONS

submitted by

KRISHNA B NAIR

(Reg no: CCASSPH049)

In partial fulfillment

of the requirement for the degree

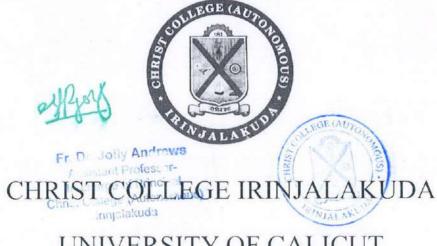
BACHELOR OF SCIENCE IN PHYSICS

SUPERVISED BY

MERIN JOSE

Assistant Professor

(Department of Physics)



UNIVERSITY OF CALICUT

March 2021

This is to certify that the project titled "FERROFLUIDS: PROPERTIES AND APPLICATIONS" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by KRISHNA B NAIR (CCASSPH049) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

MERIN JOSE

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda



PROBLEMS IN PHYSICS:

NUMERICAL SIMULATIONS WITH PYTHON

submitted by

Pranav Suresh

(Reg no: CCASSPH050)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Assi.Prof. RAICHAL JOHN
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA

WINIVERSITY OF CALICUT

March 2021



This is to certify that the project titled "PROBLEMS IN PHYSICS: NUMERICAL SIMULATIONS WITH PYTHON" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by PRANAV SURESH (CCASSPH050) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

Color.

RAICHAL JOHN

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Princial

Christ College (Autonomous) Irinjalakuda Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda



MAGNETIC CALORIC EFFECT(MCE):

submitted by
RAHUL G BABU
(Reg no: CCASSPH051)

In partial fulfillment of the requirement for the degree BACHELOR OF SCIENCE IN PHYSICS SUPERVISED BY Prof.JOSE SUNNY (Department of Physics)



CHRIST COLLEGE IRINJALAKUDA UNIVERSITY OF CALICUT March 2021

Fr. Dr. Jolly Androws
Assistant Profess *rIn-charge of Princi I
Chris. College (Autonomous)
irinjolakuda



This is to certify that the project titled "MAGNETIC CALORIC EFFECT(MCE)" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by RAHUL G BABU (CCASSPH051) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

JOSE SUNNY

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

There

Fr. Dr. Jolly Androws
Assistant ProfessorIn-charge of Princial
Chris. College (Autonomous)
Irinjalakuda



LATTICE PARAMETER CALCULATION FROM X-RAY DIFFRACTION PATTERN :

Submitted by SHIHAB AHAMED C.J. (Reg no: CCASSPH052)

In partial fulfillment
Of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Dr.ANNROSE SUNNY
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA
UNIVERSITY OF CALICUT
March 2021

Fr. Dr. Jolly Androws
Assistant Profes: 17Chric, Cullege (Autonous)



This is to certify that the project titled "LATTICE PARAMETER CALCULATION FROM X-RAY DIFFRACTION PATTERN" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by SHIHAB AHAMED C.J (CCASSPH052) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

Dr. ANNROSE SUNNY

Department of Physics

Christ College (Autonomous)

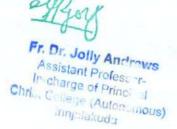
Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)





PROBLEMS IN PYTHON:

NUMERICAL SIMULATIONS WITH PYTHON

submitted by

AKSHAY KUMAR K S

(Reg no: CCASSPH053)

In partial fulfillment

of the requirement for the degree

BACHELOR OF SCIENCE IN PHYSICS

SUPERVISED BY

RAICHAL JOHN

(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA
UNIVERSITY OF CALICUT

March 2021

Fr. Dr. Jolly Androws
Assistant ProfessorIn-charge of Prince of Christ College (Autonomous)
irinjolakuda



This is to certify that the project titled "PROBLEMS IN PYTHON: NUMERICAL SIMULATIONS WITH PYTHON" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by AKSHAY KUMAR K S (CCASSPH053) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

(off.

RAICHAL JOHN

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Myorg

Fr. Dr. Jolly Androws
Assistant Profess r.
In-charge of Princial
Chris, College (Autonomous)
innjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)



MAGNETIC CALORIC EFFECT (MCE):

submitted by
ANGEL BIJU

(Reg no: CCASSPH054)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Prof.JOSE SUNNY
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA UNIVERSITY OF CALICUT

March 2021

Fr. Dr. Jolly Androws
Assistant Profess raIn-charge of Princi (I)
Chris. College (Autonamous)
Irinjalakuda



This is to certify that the project titled "MAGNETIC CALORIC EFFECT (MCE)" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by ANGEL BIJU (CCASSPH054) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

JOSE SUNNY

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Androws
Assistant Profess Tr.
In-charge of Princi 1
Chri., College (Automonous)



MAGNETIC CALORIC EFFECT (MCE): submitted by ANU JAMES (Reg no: CCASSPH055)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Prof.JOSE SUNNY
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA
UNIVERSITY OF CALICUT
March 2021





This is to certify that the project titled "MAGNETIC CALORIC EFFECT (MCE):" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by ANUJAMES (CCASSPH055) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

JOSE SUNNY

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)





FERROFLUIDS: PROPERTIES

AND APPLICATIONS

submitted by

ASWIN KRISHNA N S

(Reg no: CCASSPH056)

In partial fulfillment

of the requirement for the degree

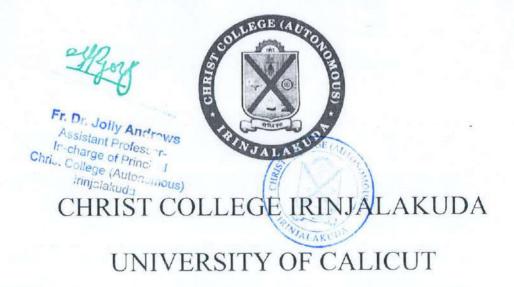
BACHELOR OF SCIENCE IN PHYSICS

SUPERVISED BY

MERIN JOSE

Assistant Professor

(Department of Physics)



March 2021

This is to certify that the project titled "FERROFLUIDS: PROPERTIES AND APPLICATIONS" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by ASWIN KRISHNA N S (CCASSPH056) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

MERIN JOSE

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)





LATTICE PARAMETER CALCULATION FROM X-RAY DIFFRACTION PATTERN :

submitted by
COLIN ARUJA
(Reg no: CCASSPH057)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Dr.ANNROSE SUNNY
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA UNIVERSITY OF CALICUT

March 2021

Assistant Profess r-

Children (Autonomous)

This is to certify that the project titled "FERROFLUIDS: PROPERTIES AND APPLICATIONS LATTICE PARAMETER CALCULATION FROM X-RAY DIFFRACTION PATTERN" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by COLIN ARUJA (CCASSPH056) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020-2021.

DR. ANNROSE SUNNY

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Androws
Assistant Profess rIn-charge of Princial
Christ College (Autonamous)
irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)



FROM X-RAY DIFFRACTION PATTERN submitted by

JANISH N JAYAN

(Reg no: CCASSPH058)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
DR.ANNROSE SUNNY
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA UNIVERSITY OF CALICUT

Assistant Profess March 2021

Chris, College (Autonamous)

This is to certify that the project titled "LATTICE PARAMETER CALCULATION FROM X-RAY DIFFRACTION PATTERN" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by JANISH N JAYAN (CCASSPH056) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

DR. ANNROSE SUNNY

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

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

affront

FERROFLUIDS: PROPERTIES

AND APPLICATIONS

submitted by

MOHIT SAJI THOMAS

(Reg no: CCASSPH059)

In partial fulfillment

of the requirement for the degree

BACHELOR OF SCIENCE IN PHYSICS

SUPERVISED BY

MERIN JOSE

Assistant Professor

(Department of Physics)



UNIVERSITY OF CALICUT

March 2021

This is to certify that the project titled "FERROFLUIDS: PROPERTIES AND APPLICATIONS" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by MOHIT SAJI THOMAS (CCASSPH059) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

MERIN JOSE

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Princial
Chris, College (Autonomous)
Irinjalakuda



FERROFLUIDS:
submitted by
VINCELET MAJO
(Reg no: CCASSPH061)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Prof.MERIN JOSE.V
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA

WHITE OF CALICUT

Fr. Dr. Jolly Andro March 202
Assistant ProfessorIn-charge of Princial
Christ College (Autonomous)
Irinjalakuda



This is to certify that the project titled "FERROFLUIDS" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by VINCELET MAJO (CCASSPH061) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

MERIN JOSE

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

all on X

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Princial
Chris. College (Autonomous)
Irinjalakuda



PROBLEMS IN PHYSICS:

NUMERICAL SIMULATIONS WITH PYTHON

submitted by

AHAMED IRFHAN S

(Reg no: CCASSPH062)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY

Asst. Prof. RAICHAL P JOHN

(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA

UNIVERSITY OF CALICUT

Fr. Dr. Jolly Androws
Assistant ProfessorIn-charge of Princial
Chris. College (Autonomous)

!rinjalakuda

March 2021

This is to certify that the project titled "PROBLEMS IN PHYSICS: NUMERICAL SIMULATIONS WITH PYTHON" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by AHAMED IRFHAN S (CCASSPH062) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

RAICHAL P JOHN

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Androws

Assistant Profescr-In-charge of Princi al Chrio, College (Autonomous) Irinjalakuda

MAGNETIC CALORIC EFFECT (MCE): submitted by AJITHKUMAR V S (Reg no: CCASSPH063)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Prof.JOSE SUNNY
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA
UNIVERSITY OF CALICUT

March 2021

Fr. Dr. Jolly Andrews
Assistant Profess reIn-charge of Princial
Christ College (Autonomous)
Irinjalakuda



This is to certify that the project titled "MAGNETIC CALORIC EFFECT (MCE)" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by AJITHKUMAR V S (CCASSPH063) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

JOSE SUNNY

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Androws
Assistant ProfessorIn-charge of Princi 1
Chris. College (Autonomous)
Irinjalakuda



FERROFLUIDS :PROPERTIES AND APPLICATIONS

Submitted by

ARUNIMA THOTTATHIL (Reg no:CCASSPH064)

In partial fulfillment

of the requirements for the degree

BACHELOR OF SCIENCE IN PHYSICS

SUPERVISED BY

MERIN JOSE V (Department of Physics)



CHRIST COLLEGE IRINJALAKUDA(AUTONOMOUS)

UNIVERSITY OF CALICUT

MAY 2021

Fr. Dr. Jolly Androws

Assistant Professor-

Chric. College (Auton Ledis) with WPS office Implaked

This is to certify that the project titled "FERROFLUIDS: PROPERTIES AND APPLICATIONS" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by ARUNIMA THOTTATHIL (CCASSPH064) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

MERIN JOSE V

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Androws
Assistant ProfessorIn-charge of Princial
Chris, College (Autonomous)
Irinjolakuda



PROBLEMS IN PHYSICS:

NUMERICAL SIMULATIONS WITH PYTHON

submitted by

DEVIKA N

(Reg no: CCASSPH065)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Assi.Prof. RAICHAL JOHN
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA
UNIVERSITY OF CALICUT

March 2021

Fr. Dr. Jolly Androvs

Assistant Profess reIn-charge of Princi I
Chris. College (Autonamous)
Irinialakuda



This is to certify that the project titled "PROBLEMS IN PHYSICS: NUMERICAL SIMULATIONS WITH PYTHON" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by DEVIKA N (CCASSPH065) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

RAICHAL JOHN

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant ProfescorIn-charge of Princial
Christ College (Autonomous)
Irinjalakuda



LATTICE PARAMETER CALCULATION FROM X-RAY DIFFRACTION PATTERN :

submitted by HARIPRIYA M S (Reg no: CCASSPH066)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Dr.ANNROSE SUNNY
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA UNIVERSITY OF CALICUT March 2021

Fr. Dr. Jolly Androws

Assistant Profescor-In-charge of Princial Christ College (Autonomous) Irinjalakuda



This is to certify that the project titled "LATTICE PARAMETER CALCULATION FROM X-RAY DIFFRACTION PATTERN" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by HARIPRIYA M S (CCASSPH066) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

Dr.ANNROSE SUNNY

Department of Physics

Christ College (Autonomous)

Fr. Dr. Jolly Androves
Assistant ProfessorInscharge of Princial
Chris. College (Autonomous)
Inniclakuda

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

FERROFLUIDS: PROPERTIES

AND APPLICATIONS

submitted by

SARATH S MADHAV

(Reg no: CCASSPH067)

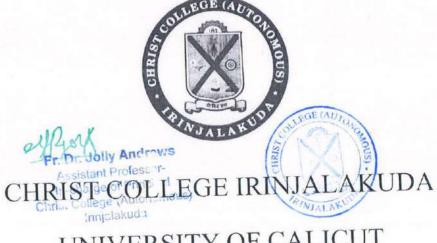
In partial fulfillment of the requirement for the degree BACHELOR OF SCIENCE IN PHYSICS

SUPERVISED BY

MERIN JOSE

Assistant Professor

(Department of Physics)



UNIVERSITY OF CALICUT

March 2021

This is to certify that the project titled "FERROFLUIDS: PROPERTIES AND APPLICATIONS" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by SARATH S MADHAV (CCASSPH067) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

MERIN JOSE

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Princial
Christ College (Autonomous)
Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)



LATTICE PARAMETER CALCULATION FROM X-RAY DIFFRACTION PATTERN submitted by SRADHA AJITHKUMAR (Reg no: CCASSPH068)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
DR.ANNROSE SUNNY
(Department of Physics)



CHRIST COLLEGE IRINDALAKUDA

Fr. Dr. Jolly Andrews

UNIVERSITY OF CALICUT

Christ College (Autorumous)

Irinjalakuda March 2021

This is to certify that the project titled "LATTICE PARAMETER CALCULATION FROM X-RAY DIFFRACTION PATTERN" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by SRADHA AJITHKUMAR (CCASSPH068) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

DR.ANNROSE SUNNY

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)

Irinjalakuda

Fr. Dr. Jolly Androws

Assistant ProfessorIn-charge of Princial
Christ College (Autonomous)
Irinjalakuda



MAGNETIC CALORIC EFFECT (MCE): submitted by SYAM B S (Reg no: CCASSPH069)

In partial fulfillment
of the requirement for the degree
BACHELOR OF SCIENCE IN PHYSICS
SUPERVISED BY
Prof.JOSE SUNNY
(Department of Physics)



CHRIST COLLEGE IRINJALAKUDA
UNIVERSITY OF CALICUT
March 2021

Fr. Dr. Jolly Androws
Assistant ProfessorIn-charge of Princial
Christ College (Autonamous)
Irinjalakuda

This is to certify that the project titled "MAGNETIC CALORIC EFFECT (MCE)" submitted to the Department of Physics in partial fulfillment of the requirement of the BSc, Degree Programme in Physics, is a bonafide record of the original research done by SYAM B S (CCASSPH069) during the period of her study in the Department of Physics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2020- 2021.

JOSESUNNY

Department of Physics

Christ College (Autonomous)

In-charge of Princi I Chris, College (Autonamous) Inniciakud 1

Irinjalakuda

Prof. Anto V.P

Co-ordinator

Department of Physics

Christ College (Autonomous)



INFLUENCE OF EXTRACURRICULAR ACTIVITIES ON COLLEGE STUDENTS' GRIT AND RESILIENCE

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

Submitted by,

ANAGHA AJAY

REG.NO- CCASSPY002



BSc PSYCHOLOGY
DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



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

tree - worda

2018-2021



CERTIFICATE

This is to certify that this dissertation entitled, "INFLUENCE OF EXTRACURRICULAR ACTIVITIES ON COLLEGE STUDENTS' GRIT AND RESILIENCE" is a bona-fide record of research work carried out by Ms ANAGHA AJAY, Reg.No: CCASSPY002, during the sixth semester of B.Sc. Psychology for the academic year 2018-2021

Head of the Department

Ms Nimy P.G

HEAD OF THE DEPARTMENT DEPT. OF PSYCHOLOGY CHRIST COLLEGIS AUTONOMOUS) IRINJALAKUDA - 680125 OEPARIMENT OF AS.

* IRINJALAN L.

PIN-680:25

Guide

Ms Durga K.S

Submitted for the examination held on

Examiners



Fr. Dr. Jolly A

HAPPINESS AND AGRESSION AMONG MALE AND FEMALE ADULTS

Dissertation submitted to Christ College (Autonomous) in partial fulfillment of the requirements for the Degree of Bachelor of Science in Psychology.

Submitted by,

AATHIRA SUNIL MENON

REG.NO - CCASSPY001



B.Sc. PSYCHOLOGY DEPARTMENT OF PSYCHOLOGY CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA 2018-2021

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKKUDA

Department of Psychology

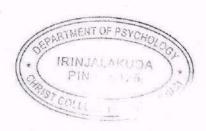
BONAFIDE CERTIFICATE

This is to certify that the dissertation entitled "HAPPINESS AND AGGRESSION AMONG MALE AND FEMALE ADULTS" is a bonafide record of work carried out by Ms. AATHIRA SUNIL MENON, Register no: CCASSPY001 for the fulfillment of course curriculum of Bachelor of Science Degree in Psychology.

Mrs. Nimy P.G.

HEAD OF THE DEPARTMENT

DOGY CNOMOUS)



s. Delty I au

GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER



A STUDY ON THE INFLUENCE OF SELF ESTEEM UPON EMOTIONAL REGULATION OF UNDERGRADUATE STUDENTS

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

Submitted by,

HANA IQBAL

REG.NO – CCASSPY003



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "A STUDY ON THE INFLUENCE OF SELF REGULATION OF UNDERGRADUATE **EMOTIONAL UPON** STUDENTS" is a bona-fide record of research work carried out by Ms. HANA IQBAL. Register no: CCASSPY003, during the sixth semester of B.Sc. Psychology of the academic year 2018-2021.

Ms. Nimy P.G

HEAD OF THE DEPARTMENT

Ms. Ann Maria Vincent

GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER



PARENTAL STRESS AND SELF-EFFICACYAMONG PARENTS OF AUTISIC AND NON-AUTICTIC CHILDREN

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

Submitted by,

Rajeswari Ramachandran

REG.NO - CCASSPY005



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "PARENTAL STRESS AND SELF-EFFICACYAMONG PARENTS OF AUTISTIC AND NON-AUTISTIC CHILDREN" is a bona-fide record of research work carried out by Ms. RAJESWARI RAMACHNDRAN, Register no: CCASSPY005, during the sixth semester of B.Sc. Psychology of the academic year 2018-2021.

Mrs. Nimy P.G

HEAD OF THE DEPARTMENT

Ms. Durga.K.S

GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER



IMPACT OF SOCIAL MEDIA ADDICTION ON MENTAL WELL BEING AMONG YOUNG ADULTS

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

Submitted by,

ANCY B

REG.NO- CCASSPY006



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021







CERTIFICATE

This is to certify that this dissertation entitled, "IMPACT OF SOCIAL MEDIA ADDICTION ON MENTAL WELL BEING AMONG YOUNG ADULTS" is a bona-fide record of research work carried out by Ms ANCY B Reg. No: CCASSPY006, during the sixth semester of B.Sc. Psychology for the academic year 2018-2021

Head of the Department

Ms Nimy P.G

Guide Mrs. Glossy john

Submitted for the examination held on -

Examiners



RELATIONSHIP BETWEEN ACADEMIC STRESS AND SELF-EFFICACY AMONG SCHOOL STUDENTS

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

Submitted by,

ANN SNEHA SHAJ

REG.NO – CCASSPY007



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "RELATIONSHIP BETWEEN ACADEMIC STRESS AND SELF-EFFICACY" is a bona-fide record of research work carried out by Ms. ANN SNEHA SHAJ, Register no: CCASSPY007, during the sixth semester of B.Sc. Psychology of the academic year 2018-2021.

Ms. Nimy P. G

HEAD OF THE DEPARTMENT

Ms. Ann Maria Vincent

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER



IMPACT OF FAMILY CONFLICT ON ACADEMIC RESILIENCE OF UNDERGRADUATE STUDENTS

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

Submitted by,

GAYATHRI P. S

REG.NO- CCASSPY009



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021



CERTIFICATE

This is to certify that this dissertation entitled, "IMPACT OF FAMILY CONFLICT ON ACADEMIC RESILIENCE OF UNDERGRADUATE STUDENTS" is a bona-fide record of research work carried out by Ms GAYATHRI P. S, Reg. No: CCASSPY009, during the sixth semester of B.Sc. Psychology for the academic year 2018-2021

Head of the Department

Ms Nimy P.G

Ms Nimy P G

Submitted for the examination held on -----

Examiner 1:

Examiner 2:



OCCUPATIONAL STRESS AND JOB SATISFACTION AMONG GOVERNMENT AND PRIVATE NURSES

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

Submitted by,

SNEHA BAIJU

REG.NO - CCASSPY012



BSc Psychology

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "OCCUPATIONAL STRESS AND JOB SATISFACTION AMONG GOVERNMENT AND PRIVATE NURSES" is a bona-fide record of research work carried out by Ms. SNEHA BAIJU, Register no: CCASSPY012, during the sixth semester of BSc. Psychology of the academic year 2018-2021.

Ms. Nimy P. G
HEAD OF THE DEPARTMENT

Ms .Christina Tony
GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER



RELATIONSHIP BETWEEN SELF EFFICACY AND DEPRESSION IN YOUNG ADULTS

Dissertation submitted to Christ College (Autonomous) in partial fulfillment of the requirements for the award of the degree of Bachelor of Science in Psychology

Submitted by,
SONA REGIS
REG.NO – CCASSPY013



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "RELATOINSHIP BETWEEN SELF EFFICACY AND DEPRESSION IN YOUNG ADULTS" is a bonafide record of research work carried out by Ms. SONA REGIS, Register no: CCASSPY013, during sixth semester of B.Sc. Psychology of the academic year 2018-2021.

Ms. Nimy P.G

HEAD OF THE DEPARTMENT

Ms. GLOSSY JOHN

GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER



A STUDY ON LONELINESS AND SOCIAL MEDIA ADDICTION AMONG YOUNG ADULTHOOD

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

Submitted by,

AATHIRA ANIL

REG.NO - CCASSPY014



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "A STUDY ON LONELINESS AND SOCIAL MEDIA ADDICTION AMONG YOUNG ADULTS" is a bona-fide record of research work carried out by Ms. AATHIRA ANIL, Register no: CCASSPY014, during the sixth semester of B.Sc. Psychology of the academic year 2018-2021.

Mrs. Nimy P.G

HEAD OF THE DEPARTMENT

Mrs. Ann Maria Vincent

GUIDE

Submitted for the examination held on

Fr. Dr. Jolly Andrews

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



RELATIONSHIP BETWEEN PERCEIVED STRESS AND SOCIAL ANXIETY AMONG YOUNG ADULTS

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

Submitted by,

ALBIN ANTO

REG.NO- CCASSPY015



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021



CERTIFICATE

This is to certify that this dissertation entitled, "RELATIONSHIP BETWEEN PERCEIVED STRESS AND SOCIAL ANXIETY AMONG YOUNG ADULTS" is a bona-fide record of research work carried out by ALBIN ANTO, Reg.No: CCASSPY015, during the sixth semester of B.Sc. Psychology for the academic year 2018-2021

Head of the Department

Ms Nimy P.G

Guide

Ms Christina Tony

Submitted for the examination held on -----



STUDY OF RELATIONSHIP BETWEEN ACADEMIC STRESS AND SELF EFFICACY AMONG DEGREE STUDENTS

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

Submitted by,

ANJANA V.S

REG.NO-CCASSPY018



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



BONA-FIDE CERTIFICATE

This is to certify that this dissertation entitled, "STUDY OF RELATIONSHIP BETWEEN ACADEMIC STRESS AND SELF-EFFICACY AMONG DEGREE STUDENTS" is a bona-fide record of research work carried out by Ms. ANJANA V.S, Reg. No: CCASSPY018, during the sixth semester of B.Sc. Psychology for the academic year 2018-2021

Ms. Nimy P.G
HEAD OF THE DEPARTMENT

Ms. Renya C V

Guide

Submitted for the examination held on -----

INTERNAL EXAMINER

EXTERNAL EXAMINER



DISSERTATION

A STUDY ON "EMOTIONAL INTELLIGENCE AND AGGRESSION AMONG ENGLISH MEDIUM AND MALAYALAM MEDIUM STUDENTS"

Dissertation submitted to Christ College (Autonomous) in partial fulfillment of the requirements for the award of the degree of Bachelor of Science in Psychology

Submitted by,

ANU TOM

REG.NO – CCASSPY019



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021

Fr. Dr. Joily Andrews
Assistant ProfessorIn-charge of Principal
Christ College (Autonomous)
Irinjalakuda

CHURCH (AU TO LO LIVE)

2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "EMOTIONAL INTELLIGENCE AND AGGRESSION AMONG ENGLISH MEDIUM AND MALAYALAM MEDIUM STUDENTS" is a bona-fide record of research work carried out by Ms. ANU TOM, Register no: CCASSPY019, during the sixth semester of B.Sc. Psychology of the academic year 2018-2021.

Ms. Nimy P.G

HEAD OF THE DEPARTMENT

Ms. Betty Paul

GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

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

EXTERNAL EXAMINER



RELATIONSHIP BETWEEN SELF-ESTEEM AND EMOTIONAL MATURITY AMONG ADOLESCENTS

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

Submitted by,

GAYATHRI LAL T M

REG. NO: CCASSPY021



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021





CERTIFICATE

This is to certify that this dissertation entitled, "RELATIONSHIP BETWEEN SELF-ESTEEM AND EMOTIONAL MATURITY AMONG ADOLESCENTS" is a bona-fide record of research work carried out by Ms GAYATHRI LAL T M, Reg. No: CCASSPY021, during the sixth semester of B.Sc. Psychology for the academic year 2018-2021

Head of the Department

Ms Nimy P.G

Ms Glossy John

Submitted for the examination held on

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



RELATIONSHIP BETWEEN EMOTIONAL MATURITY AND STRESS AMONG ADOLESCENTS

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

Submitted by,

GOPIKA SANDEEP

REG.NO-CCASSPY022



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021





2018-2021



CERTIFICATE

This is to certify that this dissertation entitled, "RELATIONSHIP BETWEEN EMOTIONAL MATURITY AND STRESS AMONG ADOLESCENTS" is a bona-fide record of research work carried out by Ms GOPIKA SANDEEP, Reg. No: CCASSPY022, during the sixth semester of B.Sc. Psychology for the academic year 2018-2021

Head of the Department	Guide
Ms Nimy P.G	Ms Renya C V
Submitted for the examination held on	

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



Examiners

1.

2.

SOCIAL SUPPORT AND DEPRESSION IN OLD AGE

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

Submitted by,

JOVENA JOSE

REG.NO – CCASSPY023



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "SOCIAL SUPPORT AND DEPRESSION IN OLD AGED PEOPLE" is a bona-fide record of research work carried out by Ms. JOVENA JOSE, Register no: CCASSPY023, during the sixth semester of BSc Psychology of the academic year 2018-2021

Ms.Nimy P.G ... HEAD OF THE DEPARTMENT

Ms.Betty Paul GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER



LONELINESS AND SELF ESTEEM IN YOUNG ADULTS

Dissertation submitted to Christ College (Autonomous) in partial fulfillment of the requirements for the Degree of Bachelor of Psychology

Submitted by,

MALAVIKA SREEJITH

REG.NO – CCASSPY025



Bsc.PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



CHRIST COLLEGE (AUTONOMOUS) IRINJALAKKUDA

Department of Psychology

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled "LONELINESS AND SELF ESTEEM IN YOUNG ADULTS" is a bona-fide record of work carried out by Ms. MALAVIKA SREEJITH, Register no: CCASSPY025 for the fulfillment of course curriculum of Bachelor of degree in psychology.

Ms. NIMY P.G HEAD OF THE DEPARTMENT

HEAD OF THE DEPARTMENT DEPT OF PEYCHOLOGY CHRIST COLLE D. AUTONOMOUS) IRINJAUAKUDA: 580126 IRINJALAKUDA).

Ms.GLOSSY JOHN
GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER

Pr. De Joseph Andrews
Assistant ProfessorUnicherge of Principal
Chaise Consum Assistant ProfessorUnicherge of Principal



THE STUDY OF RELATIONSHIP BETWEEN PARENTING STYLE AND EMOTIONAL INTELLIGENCE AMONG ADOLESCENTS

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

Submitted by,

MELNA PAUL

REG.NO- CCASSPY026



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



2018-2021



CERTIFICATE

This is to certify that this dissertation entitled, "THE STUDY OF RELATIONSHIP BETWEEN PARENTING STYLE AND EMOTIONAL INTELLIGENCE AMONG ADOLESCENTS" is a bona-fide record of research work carried out by Ms MELNA PAUL, Reg. No: CCASSPY026, during the sixth semester of B.Sc. Psychology for the academic year 2018-2021

Head of the Department

Ms Nimy P.G

Guide

Ms Renya C V

Submitted for the examination held on

Fr. Dr. Jolly Andrews
Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda

Examiners

1.

2.

RELATIONSHIP BETWEEN ACADEMIC ANXIETY AND SELF EFFICACY AMONG ADOLESCENCE

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

Submitted by,

MOHAMED MUHASINNV ANVER SHAHAD REG.NO- CCASSPY027



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA DEPARTMENT OF PSYCHOLOGY

2018-2021



CERTIFICATE

This is to certify that this dissertation entitled, RELATIONSHIP BETWEEN

ACADEMIC ANXIETY AND SELF EFFICACY AMONG

ADOLESCENCEIS a bona-fide record of research work carried out by

Mohamed Muhasin V Anver Shahad, Reg. No: CCASSPY027, during the
sixth semester of B.Sc. Psychology for the academic year 2018-2021

Head of the Department

Ms Nimy P.G

Ms Durga ks

Submitted for the examination held on



PERCEIVED STRESS AND SELF ESTEEM AMONG OBESE AND NON- OBESE ADOLESCENTS

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

Submitted by,

NEELIMA T S

REG.NO – CCASSPY029



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDADEPARTMENT OF PSYCHOLOGY

2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "PERCEIVED STRESS AND SELF ESTEEM AMONG OBESE AND NON- OBESE ADOLESCENTS" is a bona-fide record of research work carried out by Ms. NEELIMA T S, Register no: CCASSPY029, during the sixth semester of B.Sc. Psychology of the academic year 2018-2021.

Ms. Nimy P. G
HEAD OF THE DEPARTMENT

Ms. Christina Tony

GUIDE

Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER



THE STUDY OF RELATIONSHIP BETWEEN PARENTING STYLES AND SELF EFFICACY AMONG ADOLESCENTS

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

Submitted by,
PRRAMYA
REG.NO- CCASSPY030



BSc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA DEPARTMENT OF PSYCHOLOGY 2018-2021



CERTIFICATE

This is to certify that this dissertation entitled, "THE STUDY OF RELATIONSHIP BETWEEN PARENTING STYLES AND SELF EFFICACY AMONG ADOLESCENTS" is a bona-fide record of research work carried out by Ms P R RAMYA, Reg. No: CCASSPY030, during the sixth semester of B.Sc. Psychology for the academic year 2018-2021

Head of the Department
Ms.Nimy P.G

Guide Ms.Glossy john

Submitted for the examination held on -----

Examiners

1.

2.



LACK OF SOCIAL SUPPORT AND MENTAL WELLBEING AMONG DALITS IN KERALA

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

Submitted by,

SANTHRA

SUNIL

REG.NO - CCASSPY031

Bsc PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



afflyory

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA DEPARTMENT OF PSYCHOLOGY

2018-2021

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled, "LACK OF SOCIAL SUPPORT AND MENTAL WELLBEING AMONG DALITS IN KERALA" is a bona-fide record of research work carried out by Ms. SANTHRA SUNIL, Register no: CCASSPY031, during the sixth semester of .Bsc Psychology of the academic year 2018-2021.

Mrs.NimyP.G
HEAD OFTHEDEPARTMENT

Mrs. NimyPG GUIDE

Submitted for the examination held on

INTERNALEXAMINER

EXTERNALEXAMINER

ANXIEDAND LIFE SATISFACTION IN WORKING AND NON-WORKING WOMEN

Dissertation submitted to Chrest College (Autonomous) in partial fulfillment of the requirements for the Degree of Bachelor of

Psychology

Submitted by,
SHALVIN SHAJU
REG.NO – CCASSPY032



BscPSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

2018-2021



CHRIST COLLEGE (AUTONOMOUS) IRINJALAKKUDA

Department of Psychology

BONA-FIDE CERTIFICATE

This is to certify that the dissertation entitled "ANXIETY AND LIFE SATISFACTION IN WORKING AND NON WORKING WOMEN" is a bona-fide record of work carried out by Mr. SHALVIN SHAJU, Register no: CCASSPY032 for the fulfillment of course curriculum of Bachelor of degree in psychology.

Mrs. Nimy P.G
HEAD OF THE DEPARTMENT

Mrs. Renya CV

GUIDE

HEAD OF CHRIST OGY CHRIST MANUEL CHRIST MANU



Submitted for the examination held on

INTERNAL EXAMINER

EXTERNAL EXAMINER



REVIEW ON HOW TEMPERATURE INFLUENCE EXPLORATORY BEHAVIOUR, ANXIETY AND SOCIAL PREFERENCE IN DANIO RERIO



DEPARTMENT OF ZOOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

THRISSUR, KERALA, --680125

MARCH - 2021



THRISSUR, KERALA, -680125

MARCH 2021

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to certify the project work entitled "REVIEW ON HOW TEMPERATURE INFLUENCE EXPLORATORY BEHAVIOUR, ANXIETY AND SOCIAL PREFERENCE IN DANIO RERIO" is an authentic record of report work carried out by AKHILASINANA O. A, ANUPRIYA K. A, JITHIN JOSE, KRISHNAVENI C.P, NASREEN .M, PRAVEENAPRIYA P. S, PRINSA. T, ROBINJOSE, SREELAKSHMI K. M and SREELAKSHMI M. S as a part of BSc. Syllabus during the year 2020- 21 and the result of this work has not been presented for the award of any other degree/diploma in any other university.

Place: Irinjalakuda

Date:

Dr JOSHI C. O.

Shin

External Examiner 1:

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

Head, Department of Zoology



3 | Page

REVIEW ON HOW TEMPERATURE INFLUENCE EXPLORATORY BEHAVIOUR, ANXIETY AND SOCIAL PREFERNCE IN DANIO RERIO

A project report to the University of Calicut in partial fulfillment of the requirement for the award of the degree

BACHELOR OF SCIENCE IN ZOOLOGY

SL . NO.	GROUP MEMBERS	REGISTER NUMBER
1	AKHILASINANA O A	CCASSZO001
2	ANUPRIYA K A	CCASSZO014
3	JITHIN JOSE	CCASSZO018
4	KRISHNAVENI C P	CCASSZO019
5	NASREEN M	CCASSZO006
6	PRAVEENAPRIYA PS	CCASSZO024
7	PRINSA T	CCASSZO025
8	ROBIN JOSE	CCASSZO008
9	SREELAKSHMI K M	CCASSZO009
10	SREELAKSHMI M S	CCASSZO031



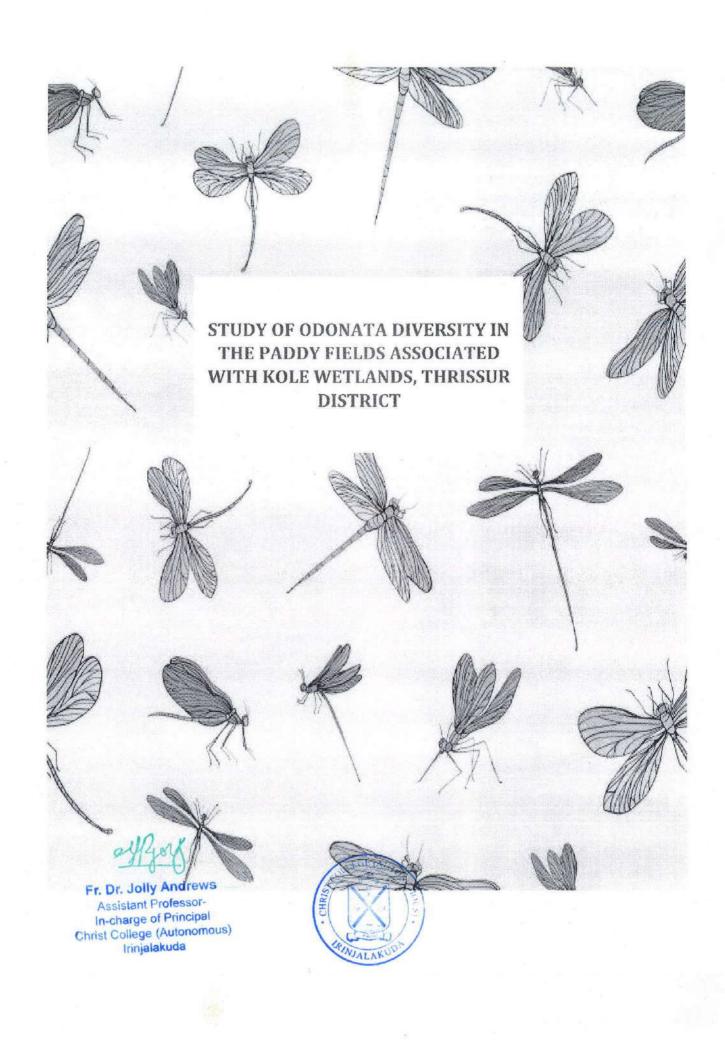


DEPARTMENT OF ZOOLOGY

Fr. Dr. Jolly Andrew CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

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

2 | Page



CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to certify that the project work entitled 'STUDY OF ODONATA DIVERSITY IN THE PADDY FIELDS ASSOCIATED WITH KOLE WETLANDS, THRISSUR DISTRICT' is an authentic record of research work carried out by Annoose Basil P., Aswathy T. D., Nivedya P. V., Niyuktha K. P., Rasika Raj, Sandra Saji, Sayana Jayan, Shifa Shajahan, Sneha T. Maliakkel and Thejasree P. A. as a part of BSc. syllabus 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:

Dr Sudhikumar A. V.

Head, Department of Zoology

External Examiner 1:

External Examiner 2:



STUDY OF ODONATA DIVERSITY IN THE PADDY FIELDS ASSOCIATED WITH KOLE WETLANDS, THRISSUR DISTRICT

A project report submitted to the University of Calicut in partial fulfilment of the requirement for the award of the Degree

BACHELOR OF SCIENCE IN ZOOLOGY

SL. NO.	GROUP MEMBERS	REGISTER NUMBER
1	Annoose Basil P.	CCASSZO002
2	Aswathy T. D.	CCASSZO015
3	Nivedya P. V.	CCASSZO022
4	Niyuktha K. P.	CCASSZO023
5	Rasika Raj M. R.	CCASSZO007
6	Sandra Saji	CCASSZO027
7	Shifa Shajahan	CCASSZO030
8	Thejasree P. A.	CCASSZO011
9	Sayana Jayan	CCASSZO028
10	Sneha T. Maliakkel	CCASSZO029



DEPARTMENT OF ZOOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

THRISSUR, KERALA - 680125

PINJALAK

MARCH 2021

(18)

A STUDY ON THE SOCIAL ANXIETY AMONG THE ADOLESCENTS HAVING SINGLE PARENT'S

A project submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in the partial fulfillment of the degree of

BACHELOR OF SOCIAL WORK

Submitted by

PEARL ELSA MATHEW Reg No: CCASBSW001

Under the Guidance of

Mrs. Asha Joseph

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

Hypry



This is to certify that the project entitled "A STUDY ON THE SOCIAL ANXIETY AMONG THE ADOLESCENTS HAVING SINGLE PARENT'S", submitted to the Christ college (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Ms. Pearl Elsa Mathew (Reg No. CCASBSW001), Mr. Isaac Sabu Thattil (Reg No. CCASBSW023), Mr. Vishnu T.P (Reg No. CCASBSW031), during the period 2020- 2021 under my supervision and guidance and that this project has not formed the basis of the award of any Degree/ Diploma/ Associate ship/ Fellowship or similar title to any candidate of any University.

Asst. Prof. ASHA JOSEPH

Guide and Supervisor

Asst. Prof ROSEMARY T. GEORGE

Head, Dept of Social Work

Signature of External Examiner

Fr. Dr. Jolly Andrew Name of External Axaminer
Assistant Professor-

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

ONLINE LEARNING EXPERIENCE OF SCHOOL STUDENTS: A STUDY

A project submitted to Christ College (Autonomous), Irinjalakkuda, affiliated to the University of Calicut in partial fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

SURESH M. M (REG.NO: CCASBSW002)

Under the Guidance of ROSEMARY T. GEORGE



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MARCH 2021

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



This is to certify that the project entitled, "ONLINE LEARNING EXPERIENCE OF SCHOOL STUDENTS: A 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 Bachelor of Social Work is a record of original research work done by Airin joy (Reg. No.CCASBSW005), Asma P.M(Reg.No.CCASBSW019), Jeffrin(Reg.No.CCASBSW008), Suresh M.M (Reg.No.CCASBSW002) during the period 2018-2021 under my supervision and guidance and that this project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship and or similar title to any candidate of any University.

Mrs. ROSEMARY T.GEORGE

Guide and Supervisor

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner



STUDY OF SELF EFFICACY AMONG NCC CADETS

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by
VINIMARIYA. VINCENT (CCSABSW003)

Under the Guidance of

(Mr. ALLWIN THOMAS)

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MAY 2021

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



This is to certify that the project entitled, "STUDY OF SELF EFFICACY AMONG NCC CADETS" 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 Bachelor of Social Work is a record of original research work done by Ms. VINIMARIYA.VINCENT (Reg. No. CCASBSW003) and ABHISANKAR M.D (Reg. no CCASBSW014) during the period 2018-2021 under our supervision and guidance and that this project 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

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner

1

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



EXPLORING THE JOURNEYS OF WOMEN ENTREPRENEURS: A QUALITATIVE APPROACH

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

VISHAAL WILSON (CCASBSW004)

Under the Guidance of

MR. AJEESH K GEORGE

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
MARCH 2021

CERTIFICATE

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



This is to certify that the project entitled, "EXPLORING THE JOURNEYS OF WOMEN ENTREPRENEURS: A QUALITATIVE APPROACH", 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 Bachelor of Social Work is a record of original research work done by Mr. Ansil Gafoor (Reg no: CCASBSW017), Ms. Heema George (Reg no. CCASBSW021) and Mr. Vishaal Wilson (Reg no CCASBSW004) during the period 2018-2021 under my supervision and guidance and that this project 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 George

Guide and Supervisor

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner



ONLINE LEARNING EXPERIENCE OF SCHOOL STUDENTS: A STUDY

A project submitted to Christ College (Autonomous), Irinjalakkuda, affiliated to the University of Calicut in partial fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

AIRIN JOY (REG.NO: CCASBSW 005)

Under the Guidance of ROSEMARY T. GEORGE



DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
MARCH 2021



This is to certify that the project entitled, "ONLINE LEARNING EXPERIENCE OF SCHOOL STUDENTS: A 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 Bachelor of Social Work is a record of original research work done by Airin joy No.CCASBSW005),Asma (Reg. M.M

P.M(Reg.No.CCASBSW019), Jeffrin(Reg.No.CCASBSW008), Suresh

(Reg.No.CCASBSW002) during the period 2018-2021 under my supervision and guidance and that this project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship and or similar title to any candidate of any University.

Mrs. 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



THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfilment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

ASHWIN R CHANDRAN (REG. NO: CCASBSW006)

Under the Guidance of

Ms. REMEEZA KHAN

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA MARCH 2021





This is to certify that the project entitled, "THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfilment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Mr. AJSAL ABBAS (Reg. No. CCASBSW015), Mr. V. ANANDHU RAM (Reg. No. CCASBSW012), Mr. LAVISH SANTHOSH M. S (Reg. No. CCASBSW026), Ms. RICHA JOSEPH (Reg. No. CCASBSW029) and Mr. ASHWIN R. CHANDRAN (Reg. No. CCASBSW006) during the period 2018-2021 under my supervision and guidance and that this project 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 Work Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social

Signature of External Examiner

Name of External Examiner

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-sharge of Principal
Infiel College (Autonomous)

Edit with WPS Office

A STUDY ON STRESS OF SPECIAL EDUCATORS WHO ARE DEALING WITH AUSTISTIC CHILDREN

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

DONA JOSE (CCASBSW007)

Under the Guidance of

SAJITH N S Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MARCH 2021

afflory

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

Edition Property Office



This is to certify that the project entitled, STRESS OF SPECIAL EDUCATORS WHO ARE DEALING WITH AUSTISTIC 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 Bachelor of Social Work is a record of original research work done by Ms. Dona Jose (Reg. No.CCASBSW007)), Aleena Rajan (CCASBSW016), Noyal P.Anto(CCASBSW009), Jefin Thattil(Reg. No. CCASBSW024) during the period 2018-2021 under my supervision and guidance and that this project 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. Sajith N S

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 ProfessorIn-charge of Principal
Christ College (Autonomous)

Hinjalakada Edit with WPS Of

ONLINE LEARNING EXPERIENCE OF SCHOOL STUDENTS: A STUDY

A project submitted to Christ College (Autonomous), Irinjalakkuda, affiliated to the University of Calicut in partial fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

JEFRIN (REG.NO: CCASBSW008)

Under the Guidance of ROSEMARY T. GEORGE



DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
MARCH 2021



This is to certify that the project entitled, "ONLINE LEARNING EXPERIENCE OF SCHOOL STUDENTS: A 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 Bachelor of Social Work is a record of original research work done by Airin joy (Reg.

No.CCASBSW005), Asma

P.M(Reg.No.CCASBSW019), Jeffrin(Reg.No.CCASBSW008), Suresh

(Reg.No.CCASBSW002) during the period 2018-2021 under my supervision and guidance and that this project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship and or similar title to any candidate of any University.

Mrs. ROSEMARY T.GEORGE

Mrs. 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 STRESS OF SPECIAL EDUCATORS WHO ARE DEALING WITH AUSTISTIC CHILDREN

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

NOYAL P. ANTO (CCASBSW009)

Under the Guidance of

SAJITH N S

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA MARCH 2021

affery

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

mnjalakuda



This is to certify that the project entitled, STRESS OF SPECIAL EDUCATORS WHO ARE DEALING WITH AUSTISTIC 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 Bachelor of Social Work is a record of original research work done by Ms. Dona Jose (Reg. No. CCATMSW019), Aleena Rajan (CCASBSW016), Noyal P.Anto(CCASBSW009), Jefin Thattil(Reg. No. CCASBSW024) during the period 2018-2021 under my supervision and guidance and that this project 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. Sajith N S

Mrs. ROSEMARY T. GEORGE

Guide and Supervisor.

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner

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

alakuda

"A STUDY ON THE INTERNET ADDICTION AMONG UNDERGRADUATE STUDENTS WITH SPECIAL REFERENCE TO IRINJALAKUDA MUNICIPALITY"

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfilment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

SOORYA MAHADEV M S

(REG. NO: CCASBSW011)

Under the Guidance of

DHANYA. K

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA MARCH 2021

affery



This is to certify that the project entitled, "A STUDY ON THE INTERNET ADDICTION WITH STUDENTS COLLEGE UNDERGRADUATE AMONG REFERENCE TO IRINJALAKUDA MUNICIPALITY ", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfilment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Mr. Soorya Mahadev M S (Reg. No. CCABSWO11) & Mr. Joseph Nicholas (Reg. No. CCASBSWO25) during the period 2018-2021 under our supervision and guidance and that this project 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. DHA

Guide and Supervisor

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner

DECLARATION

Fr. Dr. Jolly Andrews

We, Soorya Malfadev MPS & Joseph Nicholas hereby declare that the project entitled, "A

STUDY ON THE INTERNET ADDICTION AMONG UNDERGRADUATE COLLEGE Irinjalakuda

THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfilment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

V ANANDHU RAM (REG. NO: CCASBSW012)

Under the Guidance of

Ms. REMEEZA KHAN

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA **MARCH 2021**

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

Irinjalakuda



This is to certify that the project entitled, "THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfilment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Mr. AJSAL ABBAS (Reg. No. CCASBSW015), Mr. V. ANANDHU RAM (Reg. No. CCASBSW012), Mr. LAVISH SANTHOSH M. S (Reg. No. CCASBSW026), Ms. RICHA JOSEPH (Reg. No. CCASBSW029) and Mr. ASHWIN R. CHANDRAN (Reg. No. CCASBSW006) during the period 2018-2021 under my supervision and guidance and that this project 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

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner



A STUDY ON IMPACT OF COVID 19 ON COMMUNITY SPORTS

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

AARCHA KRISHNA TR (REG. NO: CCASBSW013)

Under the Guidance of

(DHANYA K)

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA MARCH 2021

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

TRINVALAKUDA

This is to certify that the project entitled, "STUDY ON IMPACT OF COVID 19 ON COMMUNITY SPORTS", 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 Bachelor of Social Work is a record of original research work done by Ms. Aarcha Krishna TR (Reg. No. CCSBSW013) during the period 2018-2021 under my supervision and guidance and that this project 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

Guide and Supervisor

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner



STUDY OF SELF EFFICACY AMONG NCC CADETS

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by ABHISANKAR M.D (CCSABSW014)

Under the Guidance of

(Mr. ALLWIN THOMAS)

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
MAY 2021

Fr. Dr. Jolly Andrews

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



This is to certify that the project entitled, "STUDY OF SELF EFFICACY AMONG NCC CADETS" 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 Bachelor of Social Work is a record of original research work done by Ms. VINIMARIYA.VINCENT (Reg. No. CCASBSW003) and ABHISANKAR M.D (Reg. no CCASBSW014) during the period 2018-2021 under our supervision and guidance and that this project 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

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner





THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfilment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

AJSAL ABBAS (REG. NO: CCASBSW015)

Under the Guidance of

Ms. REMEEZA KHAN

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA MARCH 2021



This is to certify that the project entitled, "THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfilment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Mr. AJSAL ABBAS (Reg. No. CCASBSW015), Mr. V. ANANDHU RAM (Reg. No. CCASBSW012), Mr. LAVISH SANTHOSH M. S (Reg. No. CCASBSW026), Ms. RICHA JOSEPH (Reg. No. CCASBSW029) and Mr. ASHWIN R. CHANDRAN (Reg. No. CCASBSW006) during the period 2018-2021 under my supervision and guidance and that this project 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

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal
Christ College (Autonomous

Christ College (Autonomous) Irinjalakuda



A STUDY ON STRESS OF SPECIAL EDUCATORS WHO ARE DEALING WITH AUSTISTIC CHILDREN

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

ALEENA RAJAN (CCASBSW016)

Under the Guidance of

SAJITH N S Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
MARCH 2021

afflor

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



Edit with WPS Office

This is to certify that the project entitled, STRESS OF SPECIAL EDUCATORS WHO ARE DEALING WITH AUSTISTIC 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 Bachelor of Social Work is a record of original research work done by Ms. Dona Jose (Reg. No. CCABSW007), Aleena Rajan(CCASBSW016), Noyal P.Anto(CCASBSW009), Jefin Thattil(Reg. No. CCASBSW024) during the period 2018-2021 under my supervision and guidance and that this project 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. Sajith N S

HOD, Dept. Of Social Work

Mrs. ROSEMARY T. GEORGE

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

EXPLORING THE JOURNEYS OF WOMEN ENTREPRENEURS: A QUALITATIVE APPROACH

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by
ANSIL GAFOOR (CCASBSW017)

MR. AJEESH K GEORGE
Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
MARCH 2021

Fr. Dr.CERTHFICATE
Assistant Professor-

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



This is to certify that the project entitled, "EXPLORING THE JOURNEYS OF WOMEN ENTREPRENEURS: A QUALITATIVE APPROACH", 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 Bachelor of Social Work is a record of original research work done by Mr. Ansil Gafoor (Reg no: CCASBSW017), Ms. Heema George (Reg no. CCASBSW021) and Mr. Vishaal Wilson (Reg no CCASBSW004) during the period 2018-2021 under my supervision and guidance and that this project 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 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-

Christ College (Autonomous) Irinjalakuda



"A STUDY ON THE RELATIONSHIP BETWEEN POSTPARTUM DEPRESSION AND LOCUS OF CONTROL AMONG NEW MOTHERS"

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

ANN SONA SUPRIYAN
(REG NO: CCASBSW018)

Under the Guidance of

(ALLWIN THOMAS)

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

MARCH 2021



This is to certify that the project entitled, "A STUDY ON THE RELATIONSHIP BETWEEN POSTPARTUM DEPRESSION AND LOCUS OF CONTROL AMONG NEW MOTHERS", 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 Bachelor of Social Work is a record of original research work done by Ms. Ann Sona Supriyan (Reg. No.CCASBSW018) and Ms. Farisa. K (Reg. No.CCASBSW020) during the period 2018-2021 under my supervision and guidance and that this project 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

Mrs. ROSEMARY T. GEORGE

Head, 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



ONLINE LEARNING EXPERIENCE OF SCHOOL STUDENTS: **A STUDY**

A project submitted to Christ College (Autonomous), Irinjalakkuda, affiliated to the University of Calicut in partial fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

ASMA P.M (REG.NO: CCASBSW019)

Under the Guidance of ROSEMARY T. GEORGE



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA **MARCH 2021**

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

Irinjalakuda



This is to certify that the project entitled, "ONLINE LEARNING EXPERIENCE OF SCHOOL STUDENTS: A STUDY" submitted to Christ College (Autonomous), Irinjalakkuda, affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Airin joy (Reg.No.CCASBSW005), AsmaP.M(Reg.No.CCASBSW019), Jeffrin(Reg.No.CCASBSW008), S uresh M.M (Reg.No.CCASBSW002) during the period 2018-2021 under my supervision and guidance and that this project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship and or similar title to any candidate of any University.

Mrs. ROSEMARY T.GEORGE

Guide and Supervisor

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner



"A STUDY ON THE RELATIONSHIP BETWEEN POSTPARTUM DEPRESSION AND LOCUS OF CONTROL AMONG NEW MOTHERS"

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

FARISA.K

(REG NO: CCASBSW020)

Under the Guidance of

(ALLWIN THOMAS)

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



This is to certify that the project entitled, "A STUDY ON THE RELATIONSHIP BETWEEN POSTPARTUM DEPRESSION AND LOCUS OF CONTROL AMONG NEW

MOTHERS", 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 Bachelor of Social Work is a record of original research work done by Ms. Ann Sona Supriyan (Reg. No.CCASBSW018) and Ms. Farisa. K (Reg. No.CCASBSW020) during the period 20182021 under my supervision and guidance and that this project 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

Mrs. ROSEMARY T. GEORGE

Head, 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



EXPLORING THE JOURNEYS OF WOMEN ENTREPRENEURS: A QUALITATIVE APPROACH

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

HEEMA GEORGE (CCASBSW021)

Under the Guidance of

MR. AJEESH K GEORGE

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA MARCH 2021

CERTIFICATE

Fr. Dr. Jolly Andrews

Assistant Professor-In-charge of Principal

Christ College (Autonomous) Irinjalakuda



This is to certify that the project entitled, "EXPLORING THE JOURNEYS OF WOMEN ENTREPRENEURS: A QUALITATIVE APPROACH", 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 Bachelor of Social Work is a record of original research work done by Mr. Ansil Gafoor (Reg no: CCASBSW017), Ms. Heema George (Reg no. CCASBSW021) and Mr. Vishaal Wilson (Reg no CCASBSW004) during the period 2018-2021 under my supervision and guidance and that this project 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 George

Guide and Supervisor

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner



A STUDY ON THE SOCIAL ANXIETY AMONG THE ADOLESCENTS HAVING SINGLE PARENT'S

A project submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in the partial fulfillment of the degree of

BACHELOR OF SOCIAL WORK

Submitted by

ISAAC SABU THATTIL Reg No: CCASBSW023

Under the Guidance of

Mrs. Asha Joseph

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR



This is to certify that the project entitled " A STUDY ON THE SOCIAL ANXIETY AMONG THE ADOLESCENTS HAVING SINGLE PARENT'S", submitted to the Christ college (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Ms. Pearl Elsa Mathew (Reg No. CCASBSW001), Mr. Isaac Sabu Thattil (Reg No. CCASBSW023), Mr. Vishnu T.P (Reg No. CCASBSW031), during the period 2020- 2021 under my supervision and guidance and that this project has not formed the basis of the award of any Degree/ Diploma/ Associate ship/ Fellowship or similar title to any candidate of any University.

Guide and Supervisor

Asst. Prof ROSEMARY T. GEORGE

Head, Dept of Social Work

Signature of External Examiner

Fr. Dr. Jolly A Assistant Professor-

In-charge of Principal Christ College (Autonomous)

Name of External Examiner

Irinjalakuda

A STUDY ON STRESS OF SPECIAL EDUCATORS WHO ARE DEALING WITH AUSTISTIC CHILDREN

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfillment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

JEFIN THATTIL (CCASBSW024)

Under the Guidance of

SAJITH N S

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK
CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
MARCH 2021

Fr. Dr. Jolly Andrews
Assistant ProfessorIn-charge of Principal

Christ Callage / Autonomous

Irinjalakuda



This is to certify that the project entitled, STRESS OF SPECIAL EDUCATORS WHO ARE DEALING WITH AUSTISTIC 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 Bachelor of Social Work is a record of original research work done by Ms. Dona Jose (Reg. No. CCATMSW019), Aleena Rajan (CCASBSW016), Noyal P.Anto(CCASBSW009), Jefin Thattil(Reg. No. CCASBSW024) during the period 2018-2021 under my supervision and guidance and that this project 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. Sajith N S
Guide and Supervisor.

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner

Fr. Dr. Jolly Andrews

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda



"A STUDY ON THE INTERNET ADDICTION AMONG UNDERGRADUATE STUDENTS WITH SPECIAL REFERENCE TO IRINJALAKUDA MUNICIPALITY"

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfilment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

JOSEPH NICHOLAS

(REG. NO: CCASBSWO25)

Under the Guidance of

DHANYA, K

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA MARCH 2021

affrons



This is to certify that the project entitled, "A STUDY ON THE INTERNET ADDICTION AMONG UNDERGRADUATE COLLEGE STUDENTS WITH SPECIAL REFERENCE TO IRINJALAKUDA MUNICIPALITY", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfilment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Mr. Soorya Mahadev M S (Reg. No. CCABSWO11) & Mr. Joseph Nicholas (Reg. No. CCASBSWO25) during the period 2018-2021 under our supervision and guidance and that this project 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

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



THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfilment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

Lavish Santhosh M..S (REG. NO: CCASBSW026)

Under the Guidance of

Ms. REMEEZA KHAN

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA MARCH 2021



This is to certify that the project entitled, "THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfilment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Mr. AJSAL ABBAS (Reg. No. CCASBSW015), Mr. V. ANANDHU RAM (Reg. No. CCASBSW012), Mr. LAVISH SANTHOSH M. S (Reg. No. CCASBSW026), Ms. RICHA JOSEPH (Reg. No. CCASBSW029) and Mr. ASHWIN R. CHANDRAN (Reg. No. CCASBSW006) during the period 2018-2021 under my supervision and guidance and that this project 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. REMEEŽA KHAN

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 ProfessorIn-charge of Principal
Christ College (Autonomous)

Irinjalakuda



THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS

A Project Submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in Partial Fulfilment of the Degree of

BACHELOR OF SOCIAL WORK

Submitted by

RICHA JOSEPH (REG. NO: CCASBSW029)

Under the Guidance of

Ms. REMEEZA KHAN

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA MARCH 2021



This is to certify that the project entitled, "THE STUDY ON THE EATING HABITS AND HEALTH PRACTICES AMONG COLLEGE STUDENTS", submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfilment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Mr. AJSAL ABBAS (Reg. No. CCASBSW015), Mr. V. ANANDHU RAM (Reg. No. CCASBSW012), Mr. LAVISH SANTHOSH M. S (Reg. No. CCASBSW026), Ms. RICHA JOSEPH (Reg. No. CCASBSW029) and Mr. ASHWIN R. CHANDRAN (Reg. No. CCASBSW006) during the period 2018-2021 under my supervision and guidance and that this project 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. REMEEZAKHAN

Guide and Supervisor

Mrs. ROSEMARY T. GEORGE

HOD, Dept. Of Social Work

Signature of External Examiner

Name of External Examiner



A STUDY ON THE SOCIAL ANXIETY AMONG THE ADOLESCENTS HAVING SINGLE PARENT'S

A project submitted to Christ College (Autonomous), Irinjalakuda, Affiliated to the University of Calicut in the partial fulfillment of the degree of

BACHELOR OF SOCIAL WORK

Submitted by

VISHNU T.P

Reg No: CCASBSW031

Under the Guidance of

Mrs. Asha Joseph

Asst. Professor in Social Work



DEPARTMENT OF SOCIAL WORK

CHRIST COLLEGE (AUTONOMOUS)

IRINJALAKUDA, THRISSUR

Fr. Dr. Jolly Andrews
Assistant Professor-

In-charge of Principal

Christ College (Autonomous)

Irinjalakuda



This is to certify that the project entitled "A STUDY ON THE SOCIAL ANXIETY AMONG THE ADOLESCENTS HAVING SINGLE PARENT'S", submitted to the Christ college (Autonomous), Irinjalakuda, Affiliated to the University of Calicut, in partial fulfillment of the requirements for the award of the Degree in Bachelor of Social Work is a record of original research work done by Ms. Pearl Elsa Mathew (Reg No. CCASBSW001). Mr. Isaac Sabu Thattil (Reg No. CCASBSW023), Mr. Vishnu T.P (Reg No. CCASBSW031), during the period 2020- 2021 under my supervision and guidance and that this project has not formed the basis of the award of any Degree/ Diploma/ Associate ship/ Fellowship or similar title to any candidate of any University.

Asst. Prof. ASHA JOSEPH

Guide and Supervisor

Asst. Prof ROSEMARY T. GEORGE

Head, Dept of Social Work

Signature of External Examiner

Fr. Dr. Jolly Andrews
Name of External Examiner ProfessorIn-charge of Principal
Christ College (Autonomous)
Irinjalakuda





A SYSTEMATIC APPROACH USING GIS ON LONG TERM LAND USE AND LAND COVER CHANGES IN IDUKKI DISTRICT, KERALA WITH SPECIAL MENTION ABOUT KERALA FLOOD.

A Dissertation Submitted

In Partial Fulfilment for the Award of Degree of

Master of Science in Applied Geology



Ву,

AMJAD ROSHAN KT

Reg. No.: CCATMAG001

2019 - 2021

DEPARTMENT OF GEOLOGY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA, KERALA, 680125

(Affiliated to University of Calicut and re-accredited by NAAC with A grade)



This is to certify that the dissertation entitled- A SYSTEMATIC APPROACH USING GIS ON LONG TERM LAND USE AND LAND COVER CHANGES IN IDUKKI DISTRICT, KERALA WITH SPECIAL MENTION ABOUT KERALA FLOOD, is a bonafide record of work done by Mr. AMJAD ROSHAN KT (Reg.No. CCATMAG001), 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.

GOPAKUMAR PG Assistant Professor, Dept. of Geology and Environmental science Christ College (Autonomous) Irinjalakuda Kerala- 680125

Place:	Irinjalakuda
Date: .	

affer

COLLEGE (AUTO)	External Examiners;
HANGILAKUUS	
3	

PALAEOCHANNEL IDENTIFICATION OF PERIYAR RIVER BASIN USING

REMOTE SENSING AND MACHINE LEARNING TECHNIQUES

A Dissertation Submitted

In Partial Fulfillment for the Award of Degree of

Master of Science in Applied Geology



Ву,

ANEESH SEBASTIAN

Reg. No.: CCATMAG002

2019 - 2021

DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA, KERALA, 680125

Fr. Dr. Jolly Andrews
Ass (Affiliated to University of Calicut and re-accredited by NAAC with A grade)

In-charge of Principal
Christ College (Autonomous)
Irinjalakuda

April 2021

This is to certify that the dissertation entitled — PALAEOCHANNEL IDENTIFICATION OF PERIYAR RIVER BASIN USING REMOTE SENSING AND MACHINE LEARNING TECHNIQUES is a bonafide record of work done by Mr. Aneesh Sebastian (Reg. No. CCATMAG002), 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. Linto Alappat

Assistant Professor and Head,

Dept. of Geology and Environmental Science,

Christ College (Autonomous), Irinjalakuda

Kerala- 680125

Place:	Irinjalakuda
Date:	

External Examiners;

1.....

2.....

alland



REVIEW ON THE MICROFOSSILS OF KERALA

Dissertation Submitted

in Partial Fulfillment for the Award of Degree of

MASTER OF SCIENCE

in

APPLIED GEOLOGY



By,

ANJANA M H

Reg. No.: CCATMAG003

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)

This is to certify that the dissertation entitled — "REVIEW ON THE MICROFOSSILS OF KERALA" is a bonafide record of work done by Ms. ANJANA M.H (Reg.No. CCATMAG003), MSc. 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.



Jaimon Sunny

Assistant Professor,

Dept. of Geology and Environmental Science

Christ College (Autonomous), Irinjalakuda

Kerala- 680125

Place: Irinjalakuda	
Date:	
	External Examiners,
	1
	2
	2



A REVIEW ON THE PETROCHEMISTRY AND TECTONIC SIGNIFICANCE OF GRANITES IN KERALA

Dissertation submitted

in partial fulfillment for the award of Degree of

MASTER OF SCIENCE

in

APPLIED GEOLOGY



By,

ASWATHY PRIYA. A

Reg .No :CCATMAG004

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)



This is to certify that the dissertation entitled - "A REVIEW ON THE PETROCHEMISTRY AND TECTONIC SIGNIFICANCE OF GRANITES IN KERALA" is a bonafide record of work done by Ms. ASWATHY PRIYA. A(Reg.No: CCATMAG004), MSc.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.



ROSHINI P.P.

Assistant Professor

Dept.Of Geology and Environmental Science,

Christ College (Autonomous) Irinjalakuda

Kerala- 680125

Place:	Irinjalakuda
Date:	

L	1	X	t	e	1	1	1	a	1		Ŀ		K	2	1	1	1	1	1	e	1	S	,							
1					•	•	٠			*		•		٠		•									•	•	•		•	
2			•	٠	,	•						٠		*		•									•	•	•	•	•	
3	ii.																													



SEDIMENT CHARACTERISATION OF PALAEOFLOOD SEQUENCES OF CHALAKUDY RIVER

A dissertation submitted

in partial fulfillment for the award of degree of

Master of Science in Applied Geology



Ву,

GLEENA XAVIER

Reg. No.: CCATMAG005

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)

April 2021



This is to certify that the dissertation entitled – SEDIMENT CHARACTERISATION OF PALAEOFLOOD SEQUENCES OF CHALAKUDY RIVER, is a bonafide record of work done by Ms. Gleena Xavier (Reg. No. CCATMAG005), MSc 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 2018-2020.

Dr. Linto Alappat

Assistant Professor and Head,

Dept. of Geology and Environmental science

Christ College (Autonomous) Irinjalakuda

Kerala- 680125

Place:	Irinjalakuda
Date:	

															I	E	12	X	t	c	I	1	1	a	1		Ε		X	1	1	1	וו	i	1	1	C	1	- 8	s:	
1		٠		•			•			•		•	•										0			•	•	•				•		٠	09						
2				•0	•			•	•					•	•	•		٠					e.	٠	•	•						•		•	٠				,	,	
3															•																										



COMPARITIVE GEOCHEMICAL AND SPECTRAL STUDY OF INDIAN ANORTHOSITES: A GENERAL REVIEW

Dissertation submitted in partial fulfillment for the award of

Degree of MASTER OF SCIENCE

in APPLIED GEOLOGY



By,
JEFIN JAMES
Reg.No:CCATMAG006
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)

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

This to certify that the dissertation entitled, "COMPARITIVE GEOCHEMICAL AND SPECTRAL STUDIES OF INDIAN ANORTHOSITES: A GENERAL REVIEW" is a bonafide record of genuine work done by Mr. JEFIN JAMES (Reg. No. CCATMAG006), MSc. Applied Geology Christ College (Autonomous) Irinjalakuda under my guidance for the partial fulfilment 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.

dell'

Dr. Nandini C V

Assistant Professor

Dept. of Geology and Environmental science

Christ College (Autonomous) Irinjalakuda

Kerala- 680125.

External Examination

............

2

3.....



REVIEW ON THE POLLUTION OF WATER BODIES IN KERALA ALONG WITH AN ATTEMPT TO ASSESS THE WATER QUALITY OF SHANMUGHAM CANAL, IRINJALAKUDA

Dissertation Submitted

in Partial Fulfillment for the Award of Degree of

MASTER OF SCIENCE

In

APPLIED GEOLOGY



JISMI C J

Reg. No.: CCATMAG007

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)



This is to certify that the dissertation entitled — REVIEW ON THE POLLUTION OF WATER BODIES IN KERALA ALONG WITH AN ATTEMPT TO ASSESS THE WATER QUALITY OF SHANMUGHAM CANAL, IRINJALAKUDA is a bonafide record of work done by Ms. Jismi C J (Reg. No. CCATMAG007), 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.

#

Mr. Jaimon Sunny

Assistant professor and Head,

Dept. of Geology and Science,

Christ College (Autonomous), Irinjalakuda

Kerala- 680125

Place: Irinjalakuda

Date:

External Examiners;

1.....

ASSESSMENT OF HYDROGEOCHEMISTRY OF MIDDLE VAIGAI RIVER BASIN, TAMIL NADU

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

in
APPLIED GEOLOGY



Ву,

JIYA P JOY

Reg.No: CCATMAG008

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)



DECLARATION

I hereby declare that this dissertation work "ASSESSMENT OF HYDROGEOCHEMISTRY OF MIDDLE VAIGAI RIVER BASIN, TAMIL NADU" is a work done by me. No part of the report is plagiarized from other resources. All information included from other sources has been duly acknowledged. I maintain that if any part of the report is found to be plagiarised, I shall take the full responsibility for it.

Place: IRINJALAKUDA

Date: AUGUST 2021

JIYA P JOY

Reg.No.CCATMAGOO8

No certificate



FOREST FIRE RISK ASSESSMENT USING GIS AND REMOTESENSING, ERAVIKULAM NATIONAL PARK, IDUKKI KERALA

A Dissertation Submitted

In Partial Fulfillment for the Award of Degree of

Master of Science in Applied Geology



Ву,

КАVYA АЛТН

Reg. No.: CCATMAG009

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)



This is to certify that the dissertation entitled — FOREST FIRE RISK ASSESSMENT USING GIS AND REMOTESENSING, ERAVIKULAM NATIONAL PARK, IDUKKI KERALA is a bonafide record of work done by Ms. Kavya Ajith (Reg. No. CCATMAG009), 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. Linto Alappat

Assistant Professor and Head,

Dept. of Geology and Environmental Science,

Christ College (Autonomous), Irinjalakuda

Kerala- 680125

Place:	Irinjalakuda
Dotor	

External Examiners;

1.....

2.....



IDENTIFICATION OF GROUNDWATER POTENTIAL ZONES IN PATRATU, RAMGARH DISTRICT JHARKHAND STATE

Dissertation submitted

in partial fulfillment for the award of Degree of

MASTER OF SCIENCE

in

APPLIED GEOLOGY



By,
MALAVIKA K.R
Reg.No:CCATMAG010
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 ProfessorIn-charge of Principal
Christ College (Autonomous)
Irinjalakuda

August 2021

This is to certify that the dissertation entitled —" IDENTIFICATION OF GROUNDWATER POTENTIAL ZONES IN PATRATU, RAMGARH DISTRICT JHARKHAND STATE" is a bonafide record of work done by Ms. MALAKA K.R (Reg. No. CCATMAG010) 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.

Jun	
Dr. Swetha T.V	
Assistant Professor	
Dept. of Geology and Environmenta	I Science,
Christ College (Autonomous) Irinjal	akuda
Kerala- 680125	

Place: Irinjalakuda

Date:

External Examiners;

1.....

Assistant ProfessorIn-charge of Principal
Christ College (Autonomous)



APPLICATION OF DIGITAL ELEVATION MODEL IN IDENTIFICATION AND MAPPING OF OLD RIVER COURSES

Dissertation submitted to Christ College (Autonomous), Irinjalakuda, Kerala, under the University of Calicut in partial fulfilment of the degree of

Master of Science in Applied Geology



By,
MATHEWS CHACKO
Reg.No: CCATMAG011
2019-2021

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

This is to certify that the dissertation entitled - APPLICATION OF DIGITAL ELEVATION MODEL IN IDENTIFICATION AND MAPPING OF OLD RIVER COURSES, is a bonafide record of work done by Mr. Mathews Chacko (Reg.No. CCATMAG011), 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.

del!

Dr. Nandini C.V Assistant Professor, Dept. of Geology and Environmental science Christ College (Autonomous) Irinjalakuda Kerala- 680125

Place:	I	ľ	i	1	ij	3	1	18	1	k	ι	1	d	6	1	
Date:																

COLLEGE (AUTO)	External Examiners;
ALAROS	
3	