

SACRED HEART COLLEGE FOR WOMEN

CHALAKUDY, THRISSUR, KERALA



AQAR 2020-21

CRITERION I - Curricular Aspects

SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

1.3.3 - Number of students undertaking project work/field work/internship

SACRED HEART COLLEGE FOR WOMEN

CHALAKUDY, THRISSUR, KERALA

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AQAR 2020-21

COMMERCE

Criterion I - Curricular Aspects

SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

1.3.3 - Number of students undertaking project work/field work/internship

**SACRED HEART COLLEGE
CHALAKUDY**




**DEPARTMENT OF COMMERCE
CERTIFICATE**

This is to certify that this project report entitled **“A STUDY ON PROBLEMS FACED BY WOMEN ENTREPRENEURS”** is a bonfire work done independently by Ms.ADHEENA K S , B.com VI TH semester student of this college, under my supervision and guidance in partial fulfilment of the requirement for the award of degree Bachelor of Commerce of Calicut University.

However, this certificate is not issued to endorse the view and opinion expressed in this report.


Head of the department
Mr. NAJEEB P S (MBA)
HOD of commerce department




Supervisor
Ms.Nimitha P M
Project Guide

SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled **“FACTORS INFLUENCING THE CUSTOMER SATISFACTION OF RELIANCE JIO IN PALAKKAD DISTRICT”** is a bonafide work done independently by

MS. ANAGHA K under my supervision and guidance in partial fulfillments of the requirement for the award of degree Bachelor of Commerce and it has not previously formed the basis for the award of my degree of Calicut University.


Mr. P.S NAJEEB




Ms. SHINU JOY

Head of the department


Project Guide

SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES CERTIFICATE

This is to certify that this project report entitled “**A STUDY ON THE CONSUMER PREFERENCE ON THE EFFECTIVENESS OF PUBLIC DISTRIBUTION SYSTEM (PDS) IN PARIYARAM PUNCHAYATH WITH SPECIAL REFERENCE TO WARD 5**” is a bonafide work done independently by ANN MARIYA WILSON, B. com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university. However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB P.S
Head of the department





Ms. KEERTHANAT.U
Project Guide


SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

This is to certify that this project report entitled "**A STUDY ON PASSENGERS SATISFACTION TOWARDS INDIAN RAILWAY WITH SPECIAL REFERENCE TO ALUVA JUNCTION**" is a Bonafede work done independently by **Ms. ANUGRAHA A.L**, B.com 6th semester of this college, under my supervision and guidance in partial fulfillment of the requirement of degree bachelor of commerce Calicut university. However, this project is not issued to endorse the views and opinions expressed in this project.


P.S NAJEEB
Head of the department


Ms. ANJU P. A
Project guide

SACRED HEART COLLEGE CHALAKUDY

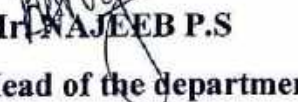


POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON THE ATTITUDE OF COLLEGE STUDENTS TOWARDS ENTREPRENEURSHIP WITH SPECIAL REFERENCE TO KADUKUTTY GRAMAPANCHAYATH " is a bonafide work done independently by CHINJU P.R, B. com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB P.S
Head of the department

Ms. ANCHU K.S
Project Guide

SACRD HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON PASSENGERS PERCEPTION TOWARDS KSRTC WITH SPECIAL REFERENCE TO 33th WARD OF CHALAKUDY MUNICIPALITY" is a bonafide work done independently by DENCY DAVIS, B. com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. Najeeb P.S.

Head of the department


Ms. Revathy M.S.

Project Guide



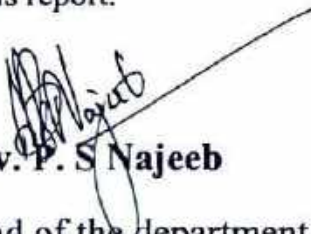
SACRED HEART COLLEGE, CHALAKUDY




POST GRADUATE DEPARTMENT OF COMMERCE CERTIFICATE

This is certify that this project report entitled “A STUDY ON IMPACT OF MASS MEDIA ON FASHION ADOPTION AMONG YOUTH WITH SPECIAL REFERANCE TO 8TH WARD OF PUDUKAD GRAMA PANCHAYATH” is a bonafide work done by Ms. GAYATHRI K.R, B.com 6th semester student of this college, under my supervision and guidance in partial fulfilment of the requirement for the award of degree Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinions expressed in this report.


Adv. P. S. Najeeb
Head of the department




Ms. Farsana P.M
Project guide

SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled to "A STUDY ON MARKETING STRATEGIES OF MICRO UNITS IN CHALAKUDY" is a bona-fide record of original work done independently by **HITHA JOHNY** under my guidance and supervision in partial fulfilment of the requirement for the award of the degree bachelor of commerce and that it has not previously formed on the bases for award of any degree diploma associateship or fellowship to her.


Mr. Adv. P. S. NAJEEB

Head of the department




Ms. DIVYA RAJAN

project guide

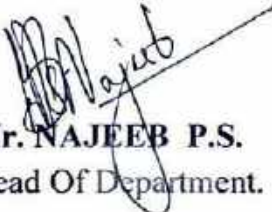
SACRED HEART COLLEGE CHALAKUDY




**POST GRADUATE DEPARTMENT OF COMMERCE
AND MANAGEMENT STUDIES
CERTIFICATE**

This is to certify that this project report entitled **“A STUDY OF PROBLEMS FACED BY FEMALE TEACHERS AT PRIVATE COLLEGE WITH SPECIAL REFERENCE TO THRISSUR DISTRICT”** is a bonafide work done independently by **JILSY M.J**, B. com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

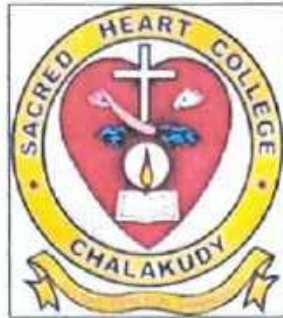
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Mr. NAJEEB P.S.
Head Of Department.




Ms. VINJU K.R.
Project guide

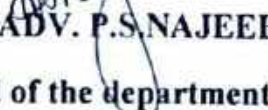
SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE CERTIFICATE

This is to certify that this project report entitled "A STUDY ON CUSTOMER PREFERENCE TOWARDS LIC AMONG THE CUSTOMERS IN ATHIRAPPILLY PANCHAYAT" is a bona fide record of the project work done by Ms. JOSHMA JOHNSON, B.com 6th semester student of this college, under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinions expressed in this report.


MR. ADV. P.S. NAJEEB
Head of the department


Ms. NIMITHA P.M
Project guide

SACRED HEART COLLEGE CHALAKUDY

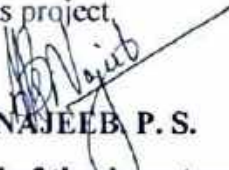


POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON EFFECTIVENESS OF E-LEARNING TOWARDS STUDENTS IN 13TH WARD OF CHALAKUDY" is a bonafide work done independently by MARIA SONA XAVIER, B. com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB, P. S.
Head of the department




Ms. KEERTHANA T. U.
Project Guide

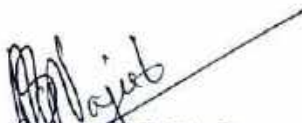
SACRED HEART COLLEGE, CHALAKUDY



(Affiliated to university of Calicut)

CERTIFICATE

This is to certify that the project entitled '**An effectiveness of online payment apps**' is a bonafide record of work done by mariya of sacred heart college, chalakudy under my guidance in partial fulfilment of the requirements for the award of degree of bachelor of commerce with finance during the year 2018-2021.


Adv. P.S. Najeeb

Head of the department of commerce

Sacred Heart College, chalakudy.


Ms. Shinu Joy

Guide

Sacred Heart College, chalakudy



SACRED HEART COLLEGE, CHALAKUDY




**POST GRADUATE DEPARTMENT OF COMMERCE
AND MANAGEMENT STUDIES**


CERTIFICATE

This is to certify that this project report entitled **"INVESTORS BEHAVIOUR TOWARDS DIFFERENT INVESTMENT AVENUES"** is a bona fide work done independently by MS. MUHSINA JASMINE, B.COM sixth semester student of this college, under my supervision and guidance of Bachelor of Commerce of Calicut University.

However, this certificate is not issued to endorse the views and opinion expressed in this project.


PS NAJEEB.
Head of the department.




Ms. ANJU P.A.
Project Guide

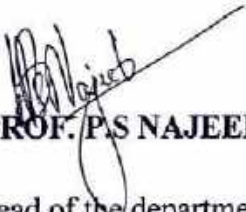
SACRED HEART COLLEGE, CHALAKUDI



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON CUSTOMER PREFERENCE TOWARDS PLASTIC MONEY WITH SPECIAL REFERENCE TO 12TH WARD OF KORATTY PANCHAYATH" is a bonafide project work done individually by **PARVATHY RAVEENDRAN** under my guidance and supervision and that it has not previously formed the basis for the award of any degree, diploma, allocate ship or fellowship to her.


PROF. P.S NAJEEB

Head of the department


M.S ANJU K.S

project Guide

SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON VIEWERS PERCEPTION TOWARDS OTT FILM RELEASE IN THE SITUATION OF COVID-19 SCENARIO WITH SPECIAL REFERENCE TO 10TH WARD OF KADUKUTTY GRAMA PANCHAYATH " is a bona fide work done independently by MS.RESHMA ANIL, B. com sixth semester student of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

However, this certificate is not issued to endorse the views and opinion expressed in this project.


Mr. WAJEEB P.S

Head of the department


Ms. REVATHY M.S.

Project Guide


SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CONSUMER PREFERENCE ON SOFT DRINKS WITH SPECIAL REFERENCE TO ANGAMALY MUNICIPALITY" is a bona fide record of the project work done by **SONA BABU** under my guidance and supervision in partial fulfilment of the requirements for the award of the degree of bachelor of commerce and that it has not previously formed the basis for the award of any Degree, Diploma associate ship or fellowship to her.


MS. PS. NAJEEB.
Head of department.




Ms. FARSANA P.M
Project guide

SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES


CERTIFICATE

This is to certify that the project report entitled "A STUDY OF FACTORS AFFECTING ONLINE BUYING BEHAVIOUR OF CUSTOMERS DURING COVID-19" is a bonafide record of the project work done by **VANDHANA P VIJAYAN** under my guidance and supervision in partial fulfillment of the requirement for the award of degree of bachelor of commerce and that it has not previously formed on the award of the basis for the award of any Degree, Diploma Associate ship or fellowship to her.


Mr. Adv. P.S. Najeeb

Head of the Department




Ms. Divya rajan

Project Guide

2021

SACRD HEART COLLEGE CHALAKUDY



**POST GRADUATE DEPARTMENT OF
COMMERCE AND MANAGEMENT
STUDIES**

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON JOB SATISFACTION AMONG NON RESIDENT INDIA" is a bonafide work done independently by ADITHYA UNNIKRISHNAN, B. com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

However, this certificate is not issued to endorse the views and opinions expressed in this project.



Handwritten signature of the Head of the Department

Handwritten signature

**Head of the Department
PG Department of Commerce**

SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

This is to certify that the project report entitled "A STUDY ON EMPLOYEES WELFARE MEASURES IN SURAJ POLY FACTORY, PERUBI" is a bonafide work done independently by MS.AKHILA MD ,B.com 6th semester of the college, under my supervision guidance in partial fulfillment of the requirement for the award of the degree bachelor of commerce of Calicut University.

However this certificate is not issued to endorse the views and opinions expressed in this project.


PS NAJEEB

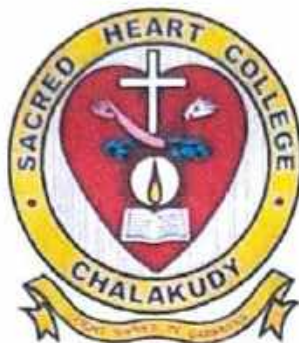
Head of the department


Ms. NIMITHA P.M.

project guide



SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that this project report entitled “ **THE AFFINITY TOWARDS THE BRANDED COSTUMES AND ACCESSORIES** ”is a bona fide record of the project work done by **Ms. ALEENA BENNY (SHASBCM070)**,B.com 6th semester student of this college,under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of Commerce of Calicut University. It is also certified that she had not copied any other records of similar nature.


Prof. P.S NAJEEB

Head of the department



Ms. SHINU JOY

Project guide

SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE CERTIFICATE

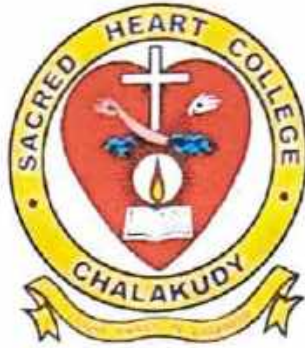
This is to certify that the project report entitled “**IMPACT OF COVID 19 CONSUMER BUYING BEHAVIOUR :ONLINE SHOPPING AND RETAIL SHOPPING(WITH SPECIAL REFERENCE TO 9TH WARD OF PARIYARAM GRAMA PANCHAYATH)**” is a bonafide work done independently by MS. ALEENA T.S B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree, Diploma associate ship or fellowship to her.


Mr. NAJEEB P.S
Head of department.




Ms. KEERTHANA T U
Project guide


SACRED HEART COLLEGE ,CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON OPPORTUNITIES AND CHALLENGES OF ONLINE TEACHING DURING COVID 19 (WITH SPECIAL REFERENCE TO COLLEGE TEACHERS IN CHALAKUDY)" is a Bonfire work done independently by MS. AMRUTHA TA B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree ,Diploma associate ship or fellowship to her.


P S NAJEEB.
Head of Department.




Ms. ANJU P A
Project Guide

**SACRED HEART COLLEGE
CHALAKUDY**



**POST GRADUATE DEPARTMENT OF COMMERCE
AND MANAGEMENT STUDIES**

CERTIFICATE

This is to certify the project report entitled "A STUDY ON CUSTOMER PREFERENCE TOWARDS BABY SKIN CARE PRODUCTS (WITH SPECIAL REFERENCE TO 20TH WARD OF ALOOR GRAMA PANCHAYATH)" is a bonafide record of the project work done by **ANAGHA CHANDRAN**, under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of commerce and that it has not previously formed the basis for the award of any Degree, Diploma, Associate ship, or fellowship to her.


Mr. P. S. Najeeb

Head of the Department




Ms. Anchu K. S

Project Guide

SACRED HEART COLLEGE, CHALAKUDY

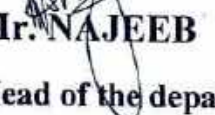


DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON CHANGED PATTERN OF LEARNING DURING COVID 19 PANDEMIC (WITH SPECIAL REFERENCE TO SACRED HEART COLLEGE CHALAKUDY)”** is a bonafide work done independently by **Ms. ANISHNA N M**, B.com 6th semester of the college, under my supervision guidance in partial fulfillment of the requirement for the award of the degree bachelor of commerce of Calicut University.

However this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB PS
Head of the department




Ms. REVATHI M.S
project guide

SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled " A STUDY ON EFFECTIVENESS OF ONLINE SHOPPING REFERENCE TO CHALAKUDY MUNICIPALITY" is a bonafide work done independently by ANJALY SAJI, B.com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

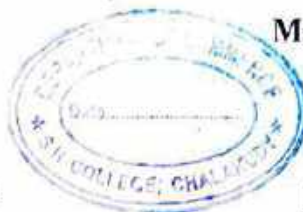
However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB P.S

Head of the department


Ms. FARSANA

Project Guide



SACRED HEART COLLEGE, CHALAKUDY



**DEPARTMENT OF COMMERCE AND MANAGEMENT
STUDIES**

CERTIFICATE

This is to certify that project report entitled "A STUDY ON CUSTOMER SATISFACTION OF ATM SERVICES IN CHALAKUDY" is a bona fide work done independently by Ms. ANJU ANTO under my supervision and guidance in partial fulfilment of the requirement for the award of any Degree, Diploma, Associate ship or Fellowship to her.


MR. ADV. P. S. NAJEEB

Head of the department

MRS. DIVYA RAJAN

Project guide

SACRED HEART COLLEGE CHALAKUDY





POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project entitled “A STUDY ON WHY STOCK MARKET STAY AWAY FROM COMMON MAN (WITH SPECIAL REFERENCE TO KORATTY GRAMAPANCHAYATH)” is a bona fide work done individually by Ms ANJU PRAKASH, B.com. Sixth semester student of this college, under my supervision and guidance in partial fulfilment of the requirement for the award of Degree Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinion expressed in this project.


Mr P.S Najeeb
Head of the Department


Ms VINJU KR
Project guide

SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON CUSTOMER SATISFACTION OF FACE WASH AMONG COLLEGE STUDENTS WITH SPECIAL REFERENCES TO SACRED HEART COLLEGE CHALAKUDY" is a bonafide work done independently by Ms. ANU BABU, B.com 6th semester of the college, under my supervision and guidance in partial fulfillment of the requirement of degree Bachelor of commerce of Calicut university.

However this project is not issued to endorse the views and opinion expressed in this project.


Mrs. P. S. NAJEEB

Head of the department


Ms. NIMITHA P. M.

Project guide



SACRED HEART COLLEGE ,CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A study on problem faced by auto-taxi due to covid-19" With A Special reference to Auto-Stand In Kallettumkara. a bonafide record of the project work done by **Anumol .k.v** under the guidance and supervision in partial fulfilment of the requirement for the award of the degree of Master of Commerce and that it has not previously formed the basis for the award of any Degree, diploma, associate ship or fellowship to her.


Mr. P S NAJEEB

Head of the department



Ms. SHINU JOY

Project Guide

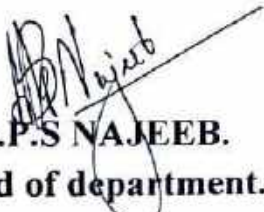
SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CUSTOMER ATTITUDE TOWARDS DIGITAL MARKETING ADVERTISEMENT" is a Bonfire work done independently by MS. ASNA PAULY, B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree ,Diploma associate ship or fellowship to her.


Adv. P.S NAJEEB.
Head of department.




Ms. KEERTHANA T U
Project guide

SACRED HEART COLLEGE, CHALAKUDY

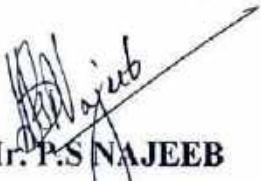


DEPARTMENT OF COMMERCE


CERTIFICATE

This is to certify that this project report entitled "A STUDY ON CONSUMER BEHAVIOUR TOWARDS THE CONSUMPTION OF FAST FOOD WITH SPECIAL REFERENCE TO 4th WARD OF MALA PANCHAYATH" is a bonafide work done independently by Ms. ASWATHY A.B, B.com, 6th semester of the college, under my supervision and guidance in partial fulfillment of the requirement of degree Bachelor of commerce of Calicut university.

However this project is not issued to endorse the views and opinion expressed in this project.


Mr. P.S NAJEEB
Head of the department



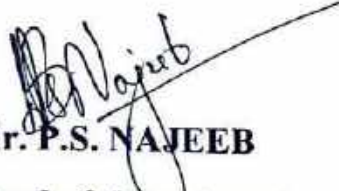

Ms. ANJU P.A
Project guide


SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE CERTIFICATE

This is to certify that the project report entitled “**CONSUMER SATISFACTION TOWARDS MILMA PRODUCTS WITH SPECIAL REFERENCE TO WARD 6th OF ANNAMANADA GRAMA PANCHAYAT**” is a Bonafide work done independently by **Ms. Aswathy K.S.**, B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree, Diploma associate ship or fellowship to her.


Mr. P.S. NAJEEB
Head of department


Ms. ANCHU NIKHIL
Project guide



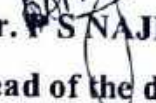
SACRED HEART COLLEGE ,CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON THE RISK AND FALLS FACED BY REAL ESTATE BROKER'S (WITH SPECIAL REFERENCE TO REAL ESTATE COMMISSION AGENT BRANCH KODALY)" is a bonafide record of the project work done by ASWATHY. TS under the guidance and supervision in partial fulfilment of the requirement for the award of the degree of Master of Commerce and that it has not previously formed the basis for the award of any Degree, diploma, associate ship or fellowship to her.


Mr. P. S. NAJEEB
Head of the department




Ms. REVATHI. MS
Project Guide


SACRED HEART COLLEGE CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CUSTOMER PERCEPTION TOWARDS ONLINE FOOD DELIVERY SERVICES" is a Bonafide work done independently by MS. ATHIRA BINOY B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree ,Diploma associate ship or fellowship to her.


PS NAJEEB.
Head of department.


Ms. FARSANA P M
Project guide



SACRED HEART COLLEGE CHALAKUDY

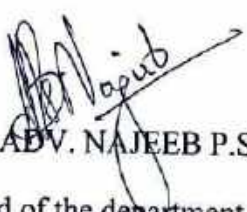


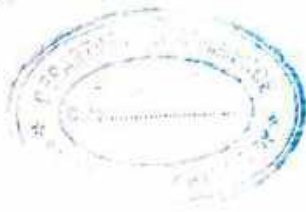
**POST GRADUATE DEPARTMENT OF
COMMERCE AND MANAGEMENT STUDIES**


CERTIFICATE

This is to certify that this project report entitled "**A COMPARATIVE STUDY ON THE CONSUMER PREFERENCE TOWARDS SUPERMARKETS AND RETAIL STORES WITH SPECIAL REFERENCE TO 15th WARD OF CHALAKUDY MUNICIPALITY**" is a bona fide work done independently by **ATHIRA U.A**, B.com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

However, this certificate is not issued to endorse the views and opinion expressed in this project.


Mr. ADV. NAJEEB P.S.
Head of the department




Ms. DIVYA RAJAN
project Guide

SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report “**A STUDY ON BRAND PREFERENCE OF COSMETICS AMONG COLLEGE STUDENTS WITH SPECIAL REFERENCE TO MALA PANCHAYATH**” is a bonafide work done independently by Ms. BAVANA CS under my supervision and guidance in partial fulfillment of the requirement for the award of degree Bachelor of Commerce and that it has not previously formed the basis for the award of my degree of Calicut University.

Ms. VINJU KR

Project Guide



Mr. P.S NAJEEB

Head of Department


SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE


CERTIFICATE

Certified that this project report entitled "A STUDY ON CUSTOMER'S PREFERENCES TOWARDS ONLINE BANKING SERVICES" is a bonafide record of project work done individually by Ms. DEVIKA K.S under my guidance and supervision that it has not previously formed the basis for the award of any Degree, Diploma, Associate ship or Fellowship to her.


Mr. Najeeb P.S, MBA

Head of the Department




Ms. Nimitha P. M

Project Guide

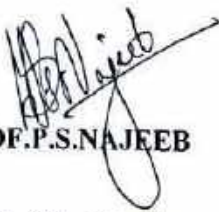
SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that this project report entitled "STUDY ON CONSUMER BEHAVIOUR TOWARDS ONLINE AND OFFLINE SHOPPING WITH SPECIAL REFERENCE TO THURUTHIPARAMBU VILLAGE" is bona-fide record of original work done independently by MS. GIFTY A J (SHASBCM088) under my supervision and guidance during the year 2021 in partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce of the University of Calicut. It also certified that she has not copied any other records of similar nature.


PROF. P.S. NAJEEB

Head of Post Graduate




MS. SHINU JOY


Post Graduate

**SACRED HEART COLLEGE
CHALAKUDY**




**POST GRADUATE DEPARTMENT OF COMMERCE AND
MANAGEMENT STUDIES
CERTIFICATE**

This is to certify that the project report entitled " **A STUDY ON IMPACT OF PRODUCT PACKAGING ON CONSUMER BUYING BEHAVIOUR**" is a Bonafide record of the project work done by **GOPIKA V.S** b.com sixth semester of this college, under my supervision and guidance of bachelor of commerce of Calicut University. However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. P.S NAJEEB
Head of the Department




Mr. Keerthana T.U
Project Guide


SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE CERTIFICATE

This is to certify that this project report entitled “ **A STUDY ON THE BRAND PREFERENCE ON MOBILE PHONES AMONG YOUTH WITH SPECIAL REFERENCE FOR PARIYARAM PANCHAYAT** ” is a bona fide record of the project work done by **Ms. HIMA GEORGE**, B.com 6th semester student of this college ,under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinions expressed in this report.


P.S NAJEEB
Head of the department




Ms. ANJU P A
Project guide

SACRED HEART COLLEGE CHALAKUDY

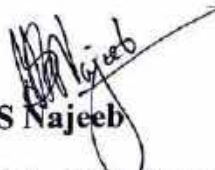


POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project entitled “A STUDY ON THE INVESTMENT BEHAVIOUR AMONG WORKING WOMEN (WITH SPECIAL REFERENCE TO 4th WARD OF KORATTY GRAMAPANCHAYATH)” is a bona fide work done individually by Miss. JAINA JAMES, B.com. Sixth semester student of this college, under my supervision and guidance in partial fulfilment of the requirement for the award of Degree Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinion expressed in this project.

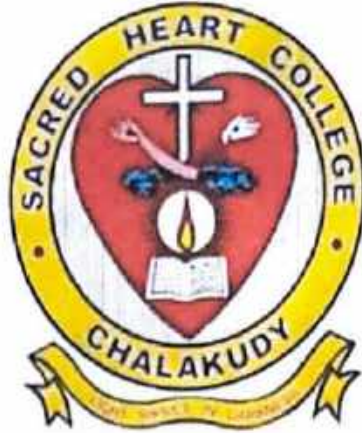

Mr. R.S Najeeb

Head of the Department


Ms. Anchu K.S

Project guide

**SACRED HEART COLLEGE
CHALAKUDY**



**POST GRADUATE DEPARTMENT OF COMMERCE AND
MANAGEMENT STUDIES**

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON EMPOWERMENT OF WOMEN THROUGH KUDUMBASREE MISSION WITH SPECIAL REFERENCE TO IVth WARD OF CHALAKUDY MUNICIPALITY" is a bonafide work done by JAINY JAMES B.com Vth semester student of this college, under my supervision and guidance in partial fulfillment of the requirement for the award of degree bachelor of commerce of Calicut university.

However this certificate is not issued to endorse the view and opinions expressed in this report.


Mr. NAJEEB P.S

Head of the Department




Ms. REVATHY M.S

Project guide

SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE


CERTIFICATE

This is to certify that the project report entitled "**A STUDY ON THE EMPLOYEE JOB SATISFACTION OF SURAJ POLY SACKS PERUMBI, KORATTY**" is a Bonafide work done independently by **Ms. JEEVA JOY B COM 6th semester** of the colleges under my supervision

guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree ,Diploma associate ship or fellowship to her.


PS NAJEEB.
Head of department.




Ms. FARSANA P M
Project guide

SACRED HEART COLLEGE

CHALAKUDY



**POST GRADUATE DEPARTMENT OF COMMERCE AND
MANAGEMENT STUDIES**

CERTIFICATE

This is to certify that this project report entitled "**A STUDY ON THE EFFECTIVENESS OF PROMOTIONAL MIX USED BY MERIBOY ICE CREAM AT ERNAKULAM AND THRISSUR REGION**" is a bonafide work done by **JESLY JAISON B.com VIth** semester student of this college, under my supervision and guidance in partial fulfilment of the requirement for the award of degree bachelor of commerce of Calicut university.

However this certificate is not issued to endorse the view and opinions expressed in this report.


Adv. P.S NAJEEB

Head of the Department




Mrs. DIVYA RAJAN

Project Guide

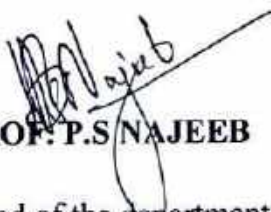
SACRED HEART COLLEGE, CHALAKUDI



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that this project report entitled “**A STUDY ON IMPACT OF COVID – 19 ON EDUCATION WITH SPECIAL REFERENCE TO KORATTY PANCHAYATH**” is a bonafide project work done individually by JINCY JOY under my guidance and supervision and that it has not previously formed the basis for the award of any degree, diploma, allocate ship or fellowship to her.


PROF. P.S NAJEEB

Head of the department




M.S VINJU K.R

project guide

SACRED HEART COLLEGE CHALAKUDY




**POST GRADUATE DEPARTMENT OF COMMERCE
AND MANAGEMENT STUDIES**

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON THE BRAND PREFERENCE OF HAIR SHAMPOO AMONG THE STUDENTS IN SACRED HEART COLLEGE CHALAKUDY" is a bona fide record of the project work done by Ms. JISMY JOSHY, B.com 6th semester student of this college, under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinions expressed in this report.


P.S NAJEEB
Head of the department




Ms. NIMITHA P.M
Project guide

SACRED HEART COLLEGE, CHALAKUDY



**DEPARTMENT OF COMMERCE
CERTIFICATE**

This is to certify that this Project entitled **“THE IMPACT OF COVID-19 LOCKDOWN ON THE LIVELIHOOD OF DAILY WAGE WORKERS – SPECIAL REFERENCE IN KARALAM PANCHAYAT”** is a bona fide work done independently by **KEERTHANA P V**, B com, 6th semester student in College under my supervision and guidance in partial fulfillment of the requirement for the award of the degree Bachelor of Commerce of Calicut University.

However, this certificate is not issued to endorse the views and opinions expressed in this project.


NAJEEB P S

Head of the Department




SHINU JOY

Supervising Teacher

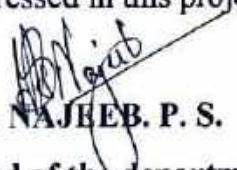
SACRED HEART COLLEGE , CHALAKUDY




POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES CERTIFICATE

This is to certify that this project report entitled "A STUDY ON IMPACT OF IMPLEMENTATION OF GST ON RETAIL OUTLETS IN MATTATHUR GRAMA PANCHAYATH" is a bona fide work done independently by KRISHNAPRIYA K.V, B. com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB. P. S.
Head of the department




Ms. KEERTHANA T.U
Project guide

SACRED HEART COLLEGE, CHALAKUDY



**DEPARTMENT OF COMMERCE
CERTIFICATE**

This is to certify that the project report entitled "A STUDY ON CUSTOMER SATISFACTION ABOUT ONLINE SHOPPING DURING COVID-19 PANDEMIC " is a bona fide record of the project work done by MEENAKSHI.K.M under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of commerce and that it has not previously formed the basis for the award of any Degree, Diploma associate ship or fellowship to her.


MR.PS NAJEEB.

Head of the Department.


MS.ANJU P.A.

Project guide



SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

Certified that this project report entitled" **A STUDY ON CUSTOMER SATISFACTION TOWARDS E-BANKING SERVICES WITH SPECIAL REFERENCE TO CHALAKUDY MUNICIPALITY WARD NO.2**" is a bona fide record of project work done individually by Ms NEETHU POULOSE under my guidance and supervision and that it has not previously formed the basis for the award of any Degree, Diploma, Associate ship or fellowship to her.


P S NAJEEB.

Head of department.




MS. ANCHU K S

Project guide

SACRED HEART COLLEGE CHALAKUDY



UNDER GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES CERTIFICATE

This is to certify that this project report entitled “ **A STUDY ON THE USER PREFERENCE ON SOCIAL NETWORKING APPS AMONG THE STUDENTS IN SACRED HEART COLLEGE CHALAKUDY** ” is a bona fide record of the project work done by **Ms.SANTHRA MATHEW**,B.com 6th semester student of this collage ,under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinions expressed in this report.


P.S NAJEEB

Head of the department


Ms. REVATHY M.S

Project guide

SACRED HEART COLLEGE CHALAKUDY



**POST GRADUATE DEPARTMENT OF COMMERCE
AND MANAGEMENT STUDIES**

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON CUSTOMER SATISFACTION TOWARDS FLIPKART WITH SPECIAL REFERENCE TO 14TH WARD OF KODASSERY PANCHAYATH" is a bonafide record of the project work done by **Ms. SHELNA VARGHESE**, B.com 6th semester student of this college, under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinions expressed in this report.


Mr. P.S NAJEEB

Head of the department




Ms. FARSA NA P M

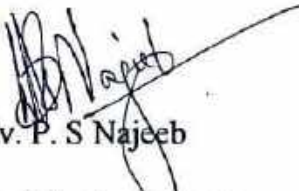
Project guide

SACRED HEARTS COLLEGE, CHALAKUDY




POST GRADUATE DEPARTMENT OF COMMERCE CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON STUDENT PREFERENCE TOWARDS E-LEARNING AND OFFLINE LEARNING (WITH SPECIAL REFERENCE TO HIGHER SECONDARY STUDENTS OF PUDUKAD PANCHAYATH)”** is a bona-fide record of original work done independently by **SHERIN PAUL (SHASBCM103)** under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of bachelor of commerce and that it has not previously formed on the basis for award of any degree diploma associateship or fellowship to her.


Adv. P. S Najeeb

Head of the department




Ms. Divya Rajan

Project guide

SACRED HEART COLLEGE CHALAKUDY



**POST GRADUATE DEPARTMENT OF COMMERCE
AND MANAGEMENT STUDIES**

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON CUSTOMER PERCEPTION TOWARDS MICRO FINANCE IN MALA PANCHAYATH" is a bonafide work done independently by SONA GRACE DANNY, B.com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university. However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB P.S

Head of the department


MS. VINJU KR

Project Guide

SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is " A STUDY ON ONLINE PURCHASING BEHAVIOUR AMONG COLLEGE STUDENTS WITH SPECIAL REFERENCES TO SACRED HEART COLLEGE CHALAKUDY "is a bonafide work done independently by Ms. SNEHA BABU, B.com, 6th semester of the college, under my supervision and guidance in partial fulfillment of the requirement of degree Bachelor of commerce of Calicut university.

However this project is not issued to endorse the views and opinion expressed in this project.


P. S. NAJEEB

Head of the department




Ms. NIMITHA P. M.

Project guide

JOSONS HARDWARES

CONVENT ROAD, CHALAKUDY - 680 307



Shop : 2701409
Res : 2701585

Date :

25-02-2021

Certificate

This is to certify that Ms. Sona Grace Danny, reg .SBCM106 from Sacred Heart College, Chalakudy has undertaken her project on the topic "The effect of Advertising on Sales Performance" in our organisation for a period of three weeks for the partial fulfillment of Bachelor of Commerce.

Josons Hardware
2701409
JOSONS HARDWARES
CONVENT ROAD
CHALAKUDY-680307
Manager

SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled "EFFECT OF ONLINE GAME ADDICTION AMONG CHILDREN WITH SPECIAL REFERENCE TO 1st WARD OF KORATTY PANCHAYATH "is a bonafide work done independently by SREELAKSHMI M.U, B. com sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

However, this certificate is not issued to endorse the views and opinions expressed in this project.

Mr. NAJEEB. P. S.

Head of the department



Ms. KEERTHANA T. U.

Project Guide

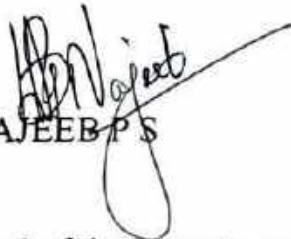
SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that this Project entitled "A STUDY ON CUSTOMERS SATISFACTION TOWARDS INTERNET BANKING SERVICES" is a bona fide work done independently by AKHILA A V, B com, 6th semester student in College under my supervision and guidance in partial fulfillment of the requirement for the award of the degree Bachelor of Commerce of Calicut University and that it has not previously formed bases for the award of any degree, diploma, associate ship or fellow ship to her.


NAJEEB P S

Head of the Department





ANJU P A

Supervising Teacher

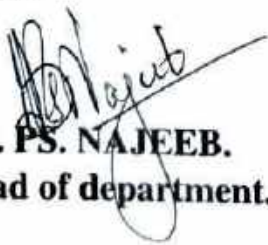
SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CONSUMER PREFERENCE ON SOFT DRINKS WITH SPECIAL REFERENCE TO ANGAMALY MUNICIPALITY" is a bona fide record of the project work done by **ALEENA PAUL** under my guidance and supervision in partial fulfilment of the requirements for the award of the degree of bachelor of commerce and that it has not previously formed the basis for the award of any Degree, Diploma associate ship or fellowship to her.


Mr. FS. NAJEEB.
Head of department.


Ms. ANCHU NIKHIL
Project guide



SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project entitled "CUSTOMER SATISFACTION TOWARDS FLIPKART" is bonafide record of the project work done by ALEENA SATHEESH under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of Commerce and that it has not previously formed the basis for the award of any degree, Diploma, Associate ship or Fellowship to her.


Mr. P.S. Najeeb
M.S




Ms. Revathy

Head of the Department

project guide

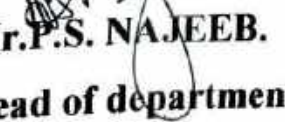
SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CONSUMER SATISFACTION LEVEL TOWARDS PACKAGING OF CHOCOLATE PRODUCTS WITH SPECIAL REFERENCE TO KADUKUTTY PANCHAYATH" is a bona fide record of the project work done by **AMRUTHA K.B** under my guidance and supervision in partial fulfillment of the requirements for the award of the degree of bachelor of commerce and that it has not previously formed the basis for the award of any Degree, Diploma, Associateship or fellowship to her.


Mr. P.S. NAJEEB.
Head of department




Ms. FARSANA P.M
Project guide

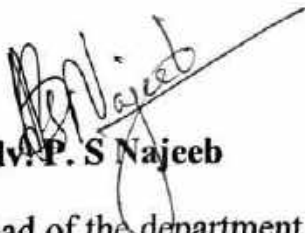
SACRED HEART COLLEGE, CHALAKUDY




POST GRADUATE DEPARTMENT OF COMMERCE CERTIFICATE

This is certify that this project report entitled “ AN ANALYSIS OF ROLE OF MSME IN ECONOMY WITH SPECIAL REFERENCE TO PUDUKAD PANCHAYATH” is bonafide work done by Ms. ANAGHA JOY, B.com 6th semester student of this college, under my supervision and guidance in partial fulfilment of the requirement for the award of degree Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinions expressed in this report.


Adv. P. S Najeeb

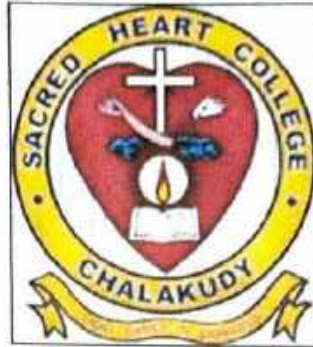
Head of the department


Ms. Divya Rajan

Project guide

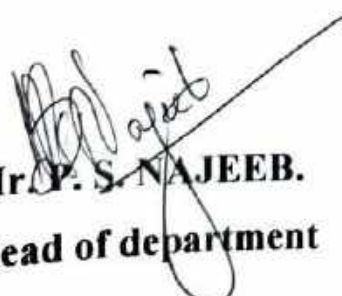


SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE CERTIFICATE

This is to certify that this project report entitled "A STUDY ON PROBLEM FACED BY PEDDLERS AND HAWKERS WITH SPECIAL REFERENCE TO CHALAKUDY MUNICIPALITY "is a bonafied record of project work done individually by Ms. ANAGHA KS under my guidance and that it has not previously formed the basis for the award of any Degree, Diploma, associate ship or fellowship of her.


Mr. P. S. NAJEEB.
Head of department




Mrs. VINJU K. R.
Project guide

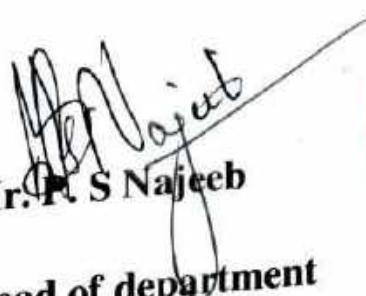
SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled “**INFLUENCE OF ONLINE ADVERTISEMENT ON BUYING BEHAVIOR OF PEOPLE**” is a bona fide record of the project work done by **ANGEL FRANCIS**, under my guidance and supervision in partial fulfillment of the requirement for the award of degree of bachelor of commerce and that it has not previously formed the basis for the award of any degree, diploma, associateship or fellowship to her.


Mr. R. S. Najeeb

Head of department




Mrs. Nimitha PM

project guide

SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES CERTIFICATE

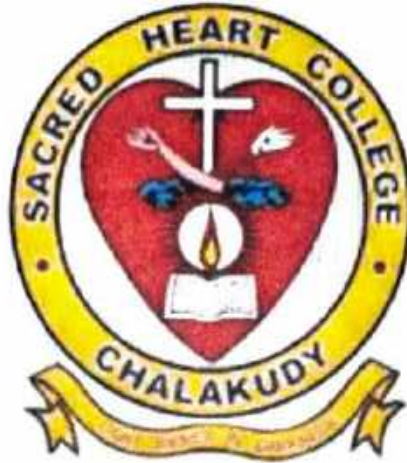
This is to certify that the project report entitled "A STUDY ON CUSTOMER INSIGHT TOWARDS UPI (UNIFIED PAYMENT INTERFACE)" is a bonafide work done independently by MS. ANGEL ROSE under my supervision and guidance in partial fulfilment of the requirement for the award of degree Bachelor of Commerce and it has not previously formed the basis for the award of my degree of Calicut University.

Mr. P.S NAJEEB
Head of the department



Ms. SHINU JOY
Project guide

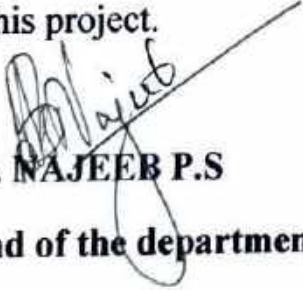
SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES CERTIFICATE

This is to certify that this project report entitled “A STUDY ON THE IMPACT OF PLASTIC MONEY ON CUSTOMER SPENDING PATTERN” is a bonafide work done independently by ARDRA U.R, B. COM sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university

.However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB P.S
Head of the department


Ms. KEERTHANA T.U
project Guide




SACRED HEART COLLEGE, CHALAKUDY




**POSTGRATUTE DEPARTMENT OF COMMERCE AND
MANAGEMENT STUDIES**

CERTIFICATE

This is to certify that the project report entitled "A CUSTOMER SATISFACTION TOWARDS ROYAL ENFIELD (WITH SPECIAL REFERENCE TO 13th WARD OF CHALAKUDY MUNUCIPALITY)" is a bona fide record of the project work done by ASWATHY V.A. under my guidance and supervision in partial fulfilment of the requirement for the award of the degree bachelor of commerce and that it has not previously formed on the bases for award of any degree diploma associate ship or fellowship to her.


Mr P.S. NAJEEB
Head of the Department




Ms. ANJU P. A.
Project Guide

SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON USE AND SERVICE OF AKSHAYA CENTER IN ANGAMALY AREA" is a bona fide record of the project work done by **DONCY TOMY** under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of commerce and that it has not previously formed the basis for the award of any Degree, Diploma associate ship or fellowship to her.


Mr. P. S. NAJEEB.
Head of the department.


Ms. ANCHU NIKHIL
Project guide







**POST GRADUATE DEPARTMENT OF COMMERECE
AND MANAGEMENT STUDIES**

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON ONLINE SHOPPING TRENDS AMONG COLLEGE STUDENTS WITH SPECIAL REFERENCE TO KODASSERY "is bonafide record of the project work done by FAZNA USMAN under my guidance and supervision in partial fulfilment of the requirment for the award of the degree of Bachelor of Commerece and that it has not previously formed the baasis for the award of any Degree, Diploma, Associateship or Fellowship to her.


Mr. P. S. Najeeb
Head of Department


Ms Reavthy M S
Project Guide




SACRED HEART COLLEGE, CHALAKUDY




**POST GRADUATE DEPARTMENT OF COMMERCE
AND MANAGEMENT STUDIES
CERTIFICATE**

This is to certify that this project report entitled **“A STUDY ON THE ATTITUDE OF PUBLIC TOWARD ONINE BOOKING SYSTEM OF INDIAN RAILWAYS IN THRISSUR”** is bonafide record of the project work done by **HANNATH BEEVI P.M** under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of Bachelor of Commerce and that it has not previously formed the basis for the award of any Degree, Diploma, Associateship or Fellowship to her.


Mr. P.S NAJEEB
Head of department




Ms FARSANA P.M
Project guide

SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled “**A STUDY ON INVESTOR’S PERCEPTION TOWARDS INVESTMENT IN GOLD COMMODITY MARKET: A COMPARATIVE STUDY BETWEEN EMPLOYEES AND BUSINESSMEN**” is a bona fide work done independently by Ms. HARISHMA V.H under my supervision and guidance in partial fulfilment of the requirement for the award of degree Bachelor of Commerce and it has not previously formed the basis for the award of my degree of Calicut University.


Adv. P.S NAJEEB

Head of the department


Ms. DIVYA RAJAN

project guide

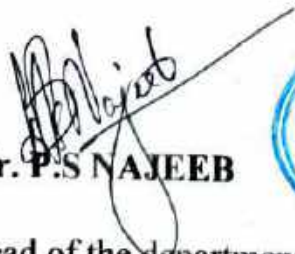


SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES CERTIFICATE

This is to certify that the project report entitled “A STUDY ON EFFECTS OF VIDEO GAMES ON CHILDREN (WITH SPECIAL REFERENCE TO 29TH WARD OF CHALAKUDY MUNICIPALITY)” is bonafied record of the project work done by **INDHU RADHAKRISHNAN** under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Bachelor of Commerce and that it has not previously formed the basis for the award of any Degree, Diploma, Associateship or Fellowship to her.


Mr. P.S NAJEEB

Head of the department




Miss. VINJU RAVINDRAN

Project guide

SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certified that the project report entitled “**A STUDY ON BUYING BEHAVIOR OF COSMETICS AMONG MEN, WITH SPECIAL REFERENCE TO 7TH WARD OF KODASSERY GRAMA PANCHAYTH**” is a bonafied work done by **Ms. JOSMY JOSE**, B.COM VI semester student of this college under my supervision and guidance in partial fulfillment of the requirement for the award of degree Bachelor of Commerce of Calicut University.

However this certificate is not issued to endorse the view and opinions expressed in their report.

Prof.P.S NAJEEB MBA

H.O.D

Ms.NIMITHA P.M

Project Guide



SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled “A STUDY ON IMPACT OF CORONA VIRUS PANDEMIC ON RESTAURANTS (WITH SPECIAL REFERANCE TO CHALAKUDY AREA)” is a bonafide record of the project work done by KAVYA I S under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of Master of Commerce and thatit has not previously formed the basis for the award of any Degree, Diploma, Associate ship or Fellowship to her.


Mr. P. S. Najeeb

Head of the Department


Ms. Shinu Joy

Project Guide




SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERECE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON THE IMPACT OF WORK STRESS ON THE PERFORMANCE OF BANK EMPLOYEES OF SBI" is bonafide record of the project work done by **K P ASHA** under my guidance and supervision in partial fulfilment of the requirment for the award of the degree of Bachelor of Commerece and that it has not previously formed the baasis for the award of any Degree, Diploma, Associateship or Fellowship to her.


Mr. NAJEEB P S
Head of the Department


Ms KEERTHANA T.U
Project Guide



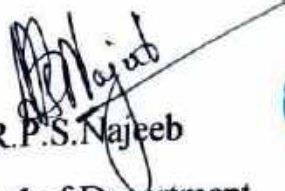
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DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

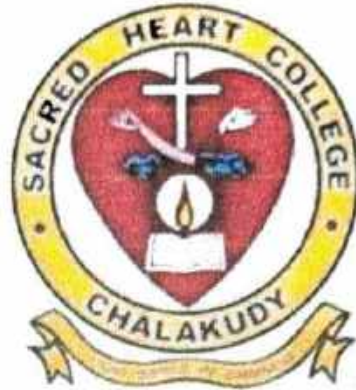
This is to certify that the project report entitled “**A STUDY ON THE ATTITUDE OF YOUTH TOWARDS CONSUMPTION OF FAST FOOD WITH SPECIAL REFERENCE TO IRINJALAKUDA**” is a bonafide record of the project work done by KRISHNASREE PS, under my guidance and supervision in partial fulfillment of the requirement for the award of degree of bachelor of commerce and that it has not previously formed the basis for the award of any degree, diploma, associateship or fellowship to her.


MR. P.S. Najeeb
Head of Department




MS. Anju PA
Project Guide

SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CONSUMER PREFERENCE TOWARDS HERBAL COSMETIC PRODUCTS WITH SPECIAL REFERENCE TO 4TH WARD OF MELOOR GRAMA PANCHAYATH" is a bonafide record of project work done independently by Ms. SANDRA C.A under my supervision and guidance in partial fulfillment of the requirement for the award of the degree Bachelor of commerce and that it has not previously formed basis for the award of any Degree, Diploma associate ship or fellowship to her.


Mr. PS NAJEEB
Head of department




Ms. ANCHU NIKHIL
Project guide

SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERECE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON BRAND PREFERENCE AMONG COLLEGE STUDENTS TOWARDS FACE CREAM " is bonafide record of the project work done by SWETHA THOMAS under my guidance and supervision in partial fulfilment of the requirment for the award of the degree of Bachelor of Commerece and that it has not previously formed the baasis for the award of any Degree, Diploma, Associateship or Fellowship to her.


Mr. P.S. Najeeb

Head of the Department





Ms. Revathy M.S.

Project Guide

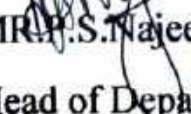
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DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

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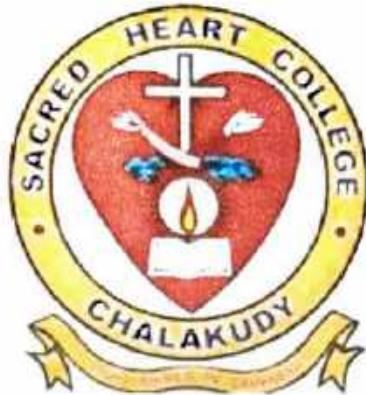
This is to certify that the project report entitled “**A CUSTOMER CENTRIC STUDY ON SATISFACTION LEVEL OF PAYTM USAGE IN MELOOR PANCHAYAT**” is a bonafide record of the project work done by VANDHANA SASI, under my guidance and supervision in partial fulfillment of the requirement for the award of degree of bachelor of commerce and that it has not previously formed the basis for the award of any degree, diploma, associateship or fellowship to her.


MR.F.S.Najeeb
Head of Department




MS.Farsana.P.M
Project Guide

SACRED HEART COLLEGE CHALAKUDY




DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON PREFERENCES TOWARDS BRANDED WATCHES AMONG YOUTH IN CHALAKUDY AREA”** is a bonafide work done independently by **Ms. VIDYASREE P.V** under my supervision and guidance in partial fulfilment of the requirement for the award of degree Bachelor of Commerce and it has not previously formed the basis for the award of my degree of Calicut University.


Adv. P.S NAJEEB

Head of the department


Ms. DIVYA RAJAN
project guide



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This is to certify that **Ms. Aigha Jose**, final year student of Sacred Heart College, Chalakudy, has undergone her Project at Divine Printers & Publishers, Muringoor for the time period of 6th Semester B.Com Computer Application. She got familiar with the topic **On Employee's Job Satisfaction at Divine Printers & Publishers, Muringoor, Chalakudy**. She had sincerely taken all the effort to complete the project at Divine Printers & Publishers, Muringoor.



Fr. George Thayyanattuveli
General Manager

SACRED HEART COLLEGE, CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND
MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON MOBILE BANKING AND CUSTOMER SATISFACTION" is a bonafide record of the project work done by ALEENA SHAJU, Bcom sixth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university. However, this certificate is not issued to endorse the views and opinions expressed in this project.

Mr .najeeb .p.s

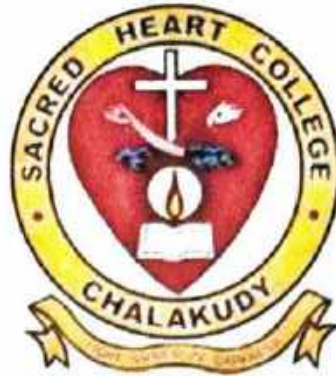
Head of the department

Ms.shinu joy

project Guide




SACRED HEART COLLEGE ,CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "**A STUDY ON CUSTOMER PREFERENCE TOWARDS BABY SKIN CARE PRODUCTS(WITH SPECIAL REFERENCE TO PARIYARAM GRAMAPANCHAYATH)**" is a Bonafide work done independently by ANJALY SHAJU B.COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for theaward of any Degree ,Diploma associate ship or fellowship to her.


P.S. NAJEEB.
Head of department.


Ms. ANJU P.A

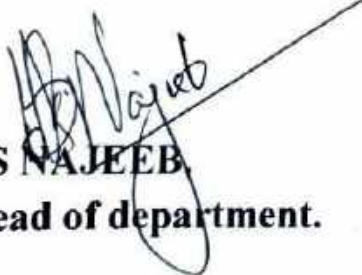
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DEPARTMENT OF COMMERCE

CERTIFICATE

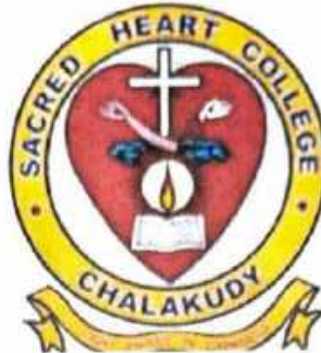
This is to certify that the project report entitled "A STUDY ON IMPACT OF ADVERTISING ON THE PESTER POWER IN CHILDREN WITH SPECIAL REFERENCE TO 9th WARD OF PARIYARAM GRAMAPANCHAYATH" is a Bonafide work done independently by MS. ANJANA A S B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree ,Diploma associate ship or fellowship to her.


PS NAJEEB
Head of department.


Ms. KEERTHANA T U
Project guide



SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is certify that this project report entitled “A **STUDY ON CONSUMER SATISFACTION TOWARDS ONLINE FOOD DELIVERY SERVICES IN CHALAKUDY**” is a bonafide work done by Ms. ANSHEENA ANTO, Bcom 6th semester student of this college, under my supervision and guidance in partial fulfillment of the requirement for the award of degree Bachelor of Commerce of Calicut University.

However, this certificate is not issued to endorse the view and opinions expressed in this report.


Adv. P.S NAJEEB

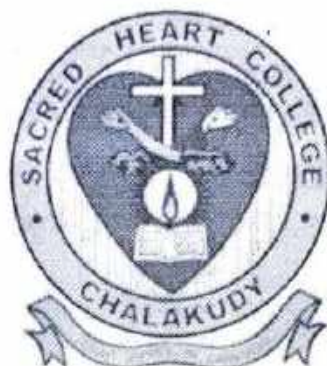
Head of the department




Ms. ANCHU NIKHIL

Project guide

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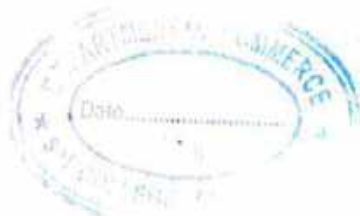
DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON FINANCIAL PERFORMANCE OF PARIYARAM SERVICE CO-OPERATIVE BANK LTD REG.NO.R-593(WITH SPECIAL REFERENCE TO LOANS AND ADVANCES)" is a Bona-fide work done independently by MS. ASWANI P S B COM 6th semester of the colleges under my supervision guidance in partial fulfilment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree ,Diploma associate ship or fellowship to her.


NAJEEB.

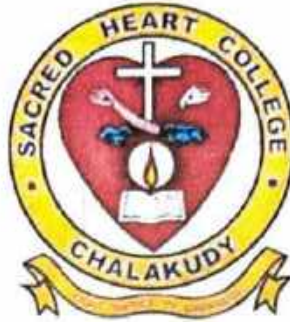
Head of department.




Ms. REVATHI M S

Project guide

SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE CERTIFICATE

This is to certify that the project report entitled “A STUDY ON CUSTOMERS PREFERENCE TOWARDS SMARTPHONES” is a Bonafide work done independently by **Ms. Jithisha Jayan**, B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree, Diploma associate ship or fellowship to her.

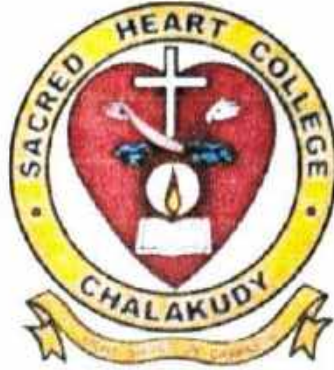
Mr. P.S. NAJEEB.

Head of department

Ms. FARSANA P.M

Project guide

SACRED HEART COLLEGE ,CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "**A STUDY ON CUSTOMER SATISFACTION TOWARDS FEDERAL BANK SERVICES WITH SPECIAL REFERENCE TO KODAKARA GRAMA PANGAYATH**" is a Bonafide work done independently by MS. JIYA RAPHAEL B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree of calicut university.




P.S. NAJEEB.

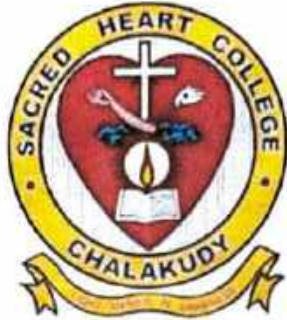
Head of department.



Ms.DIVYA RAJAN

Project guide


SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ABOUT THE PERFORMANCE OF THATTUKADA WITH SPECIAL REFERENCE TO CHALAKUDY ASSEMBLY CONSTITUENCY" is a Bonafide work done independently by Ms. Lakshmi E.U., B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree, Diploma associate ship or fellowship to her.


Mr. P.S. NAJEEB
Head of department


Ms. VINJU K. R.
Project guide



SACRED HEART COLLEGE, CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled "THE STUDY ON THE CUSTOMERS SATISFATION TOWARDS GOOGLEPAY WITH SPECIAL REFERENCE TO PARAVOOR" is a Bonafide work done independently by MS. MARIYA NIMA JOSE B com 6th semester of the colleges under my supervision guidance in partial fulfilment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree, Diploma associate ship or fellowship to her.


PS NAJEEB
Head of department.




Ms. SHINU JOY
Project guide

SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT

CERTIFICATE

This is to certify that the project report **“A STUDY ON CONSUMER PREFERENCE TOWARDS AMAZON PRODUCTS AND SERVICES”** is a bonafide record of the project work done by **MARIYA RAJU**, under my guidance and supervision in partial fulfillment of the requirement for the award of degree of bachelor of commerce and that it has not previously formed the basis for the award of any degree, diploma, associateship or fellowship to her.


Mr. R. S. Najeeb

Head of department




Mrs. Namitha PM

project guide

SACRED HEART COLLEGE, CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled "STUDY ON ONLINE BANKING DURING THE PERIOD WITH SPECIAL REFERENCE TO PARIYARAM GRAMA PANCHAYAT" is a Bonafide work done independently by MS. MAYOOHA DAVIS B com 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree ,Diploma associate ship or fellowship to her.


ADV. R. S. NAJEEB

Head of the department




Ms. KEERTHANA

Project guide

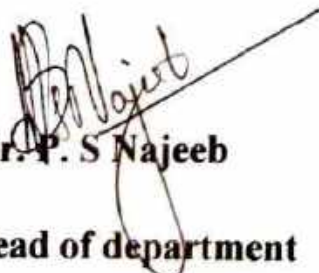
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DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled “**A STUDY ON CUSTOMER SATISFACTION ON JIO NETWORK (WITH SPECIAL REFERENCE TO CHALAKUDY MUNICIPALTY)**” is a bona fide record of the project work done by **NIMMY BABU**, under my guidance and supervision in partial fulfillment of the requirement for the award of degree of bachelor of commerce and that it has not previously formed the basis for the award of any degree, diploma, associateship or fellowship to her.


Mr. P. S. Najeeb
Head of department




Mrs. Anju PA
project Guide


SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON BRAND PREFERENCES TOWARDS SMART PHONES AMONG COLLEGE STUDENTS" is a bona fide record of the project work done by NIMMY JOHN, under my guidance and supervision in partial fulfillment of the requirement for the award of degree of Bachelor of Commerce and that it has not previously formed the basis for the award of any degree, diploma, associateship or fellowship to her.


Mr. P S Najeeb
Head of department




Mrs. Anju Nikhil
Project Guide

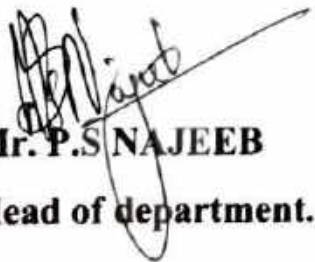
SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A Study On Consumer Preference Towards Instant Noodles With Special Reference To 16th Ward Of Kadukutty Grama Panchayat" a Bonafide work done independently by **MS. REHNA JOSE** B COM 6th semester of the college under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree, Diploma associate ship or fellowship to her.


Mr. P.S NAJEEB
Head of department.




MS. REVATHY M.S
Project guide

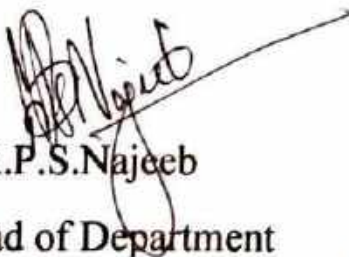
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DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

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This is to certify that the project report entitled “**A STUDY ON IMPACT OF DEMONETIZATION AMONG PEOPLE IN CHALAKUDY TOWNT**” is a bonafide record of the project work done by **RENJU SUDHAN**, under my guidance and supervision in partial fulfillment of the requirement for the award of degree of bachelor of commerce and that it has not previously formed the basis for the award of any degree, diploma, associateship or fellowship to her.



MR.P.S.Najeeb

Head of Department



MS.Farsana.P.M

Project Guide



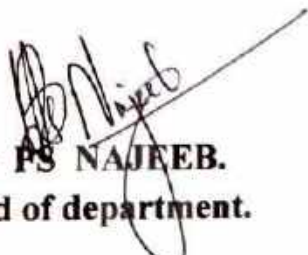
SACRED HEART COLLEGE ,CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "**FACTORS INFLUENCING THE BUYING BEHAVIOUR OF SKIN CARE PRODUCTS AMONG YOUTH**" is a Bonafide work done independently by MS. RINI RAJU B COM 6th semester of the colleges under my supervision guidance in partial fulfillment of the requirements of degree Bachelor of commerce and that it has not previously formed bases for the award of any Degree ,Diploma associate ship or fellowship to her.


Adv PS NAJFEB.
Head of department.


Ms. DIVYA RAJAN.
Project guide



SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled “A STUDY ON CUSTOMER SATISAFICATION TOWARDS MILK AND MILK PRODUCTS OF MILMA WITH SPECIAL REFERANCE TO 17TH WARD OF CHALAKUDY MUNCIPALITY” is a bona fide record of the project work done by ROSEMOL MS under my guidance and supervision in partial fulfillment of the requirements for the award of degree of bachelor of commerce and that is has not previously formed the basis for the award of any degree ,diploma, associate ship or fellow ship to her.


Mr. Najeed P.S

Head of the department


Ms. Vinju K.R

project guide



SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES


CERTIFICATE

This is to certify that the project report entitled "A STUDY ON IMPACT OF SOCIAL MEDIA AMONG COLLEGE STUDENS" is a bonafide record of the project work done by SAHLA T.A, under my guidance and supervision in partial fulfillment of the requirement for the award of degree of bachelor of commerce and that it has not previously formed the basis for the award of any degree, diploma, associateship or fellowship to her.


MR. P.S. Najeeb

Head of Department




Mrs. Nimitha P.M

Project Guide

SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled **“ISLAMIC BANK AND ISLAMIC PRODUCTS FINANCE IN KERALA – A STUDY AMONG BUSINESS OWNERS”** is a bona fide record of the project work done by **SAJA FATHIMA**, under my guidance and supervision in partial fulfillment of the requirement for the award of degree of bachelor of commerce and that it has not previously formed the basis for the award of any degree, diploma, associateship or fellowship to her.


Mr. P. S. Najeeb

Head of department




Mrs. Shinu joy

project guide

SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled “**A STUDY ON PUBLIC DISTRIBUTION SYSTEM (WITH SPECIAL REFERENCE TO KUTTIKAD PANCHAYATH)**” is a bonafide work done independently by **MS.SHINSHA NS**, B.com 6th semester of the college, under my supervision guidance in partial fulfillment of the requirement for the award of the degree bachelor of commerce of Calicut University.

However this certificate is not issued to endorse the views and opinions expressed in this project.


MR. PS NAJEEB
Head of the Department




MS. ANJU NIKHIL
Project Guide

SACRED HEART COLLEGE, CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled to “A STUDY ON IMPULSE BUYING BEHAVIOUR (WITH SPECIAL REFERENCE TO CUSTOMERS OF SUPERMARKETS IN CHALAKUDY MUNICIPALITY)” is a bonafide record of the project work done by SREEDEVI T.B. under my guidance and supervision in partial fulfilment of the requirement for the award of the degree bachelor of commerce and that it has not previously formed on the bases for award of any degree diploma associateship or fellowship to her.

Mr. P.S Najeeb

Head of the department



Ms. Keerthana T.U.

Project guide

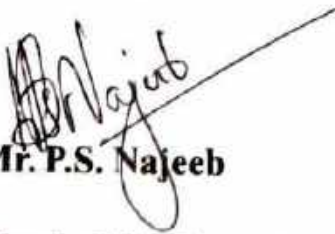
SACRED HEART COLLEGE CHALAKUDY

POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES




CERTIFICATE

This is to certify that the project report entitled “**A STUDY ON EFFECTIVENESS OF ADVERTISEMENT ON CUSTOMERS TOWARDS SOFT DRINKS WITH SPECIAL REFERENCE TO 24TH WARD CHALAKUDY MUNICIPALITY**” is a bonafide record of the project work done by **SWATHI CHANDRAN** under my guidance and supervision in partial fulfilment of the requirement for the award of the degree of bachelor of commerce and that it has not previously formed on the basis for the award of any Degree, Diploma, Associate ship or fellowship to her.


Mr. P.S. Najeeb
Head of the Department




ms. Anju P.A
Project Guide

SACRED HEART COLLEGE, CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled “ **A STUDY ABOUT COST BENEFIT ANALYSIS OF CAKE MAKING UNIT IN**

PARIYARAM” is a bonafide work done independently by **MS. VINCY SHOJAN** ,B.com 6th semester of the college, under my supervision guidance in partial fulfillment of the requirement for the award of the degree bachelor of commerce of Calicut University.

However this certificate is not issued to endorse the views and opinions expressed in this project.


PS NAJEEB

Head of the department


MS. REVATHI MS

project guide

SACRED HEART COLLEGE, CHALAKUDY




DEPARTMENT OF COMMERCE CERTIFICATE

This is to certify that the project report entitled “A STUDY ON COSMETIC CONSUMPTION OF MILLENNIALS” is a bonafied work done independently by **Ms. AISHWARYA GIRI**, M.Com 4th semester of this college under my supervision and guidance in partial fulfillment of the requirement for the award of Degree Master of Commerce of Calicut University .However this certificate is not issued to endorse the view and Opinions expressed in this report.


Mr. P.S Najeeb

Head of the Department




Ms. Farsana P.M

Project Guide

SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON THE ATTITUDE OF GRADUATED YOUTHS TOWARDS STARTUP WITH SPECIAL REFERENCE TO CHALAKUDY MUNICIPALITY" is a bonafide record of the project work done by AISWARYA M.S under my guidance and supervision in partial fulfillment of the requirement for the award of the degree of Master of Commerce and that it has not previously formed the basis for the award of any Degree, Diploma, Associate ship or Fellowship to her.


Mr. NAJEEB P.S

Head of Department


Miss. DIVYA RAJAN

Project Guide

SACRED HEART COLLEGE CHALAKUDY




POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled "JOB SATISFACTION OF EMPLOYEES WORK FROM HOME BASIS WITH SPECIAL REFERNCE TO MOTHIRAKANNY, VIth WARD OF PARIYARAM PANCHAYATH" is a bonafide project done by Ms. ANJANA SHAJU, Reg no SHATMCM003 under my supervision and guidance in partial fulfilment of the requirement for the award of degree Master of Commerce and that it has not previously formed the basis for the award of my degree of Calicut University.


Mr. NAJEEB P S

Head of Department



Ms. VINJU K R

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DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled “A STUDY ON EFFECTIVENESS OF ONLINE CLASS ON SCHOOL STUDENTS WITH SPECIAL REFERANCE TO ALOOR GRAMA PANCHAYATH” is a bona fide work done independently by MS. ARCHANA.V, M.com Fourth semester student of this college, under my supervision and guidance in partial fulfilment of the requirement for the award of degree of Master of Commerce of Calicut University.

However this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. P. S. NAZHEEB

Head of the Department


Ms. NAYANA SREEDHARAN

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POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled "IMPACT OF COVID 19 PANDEMIC ON WOMEN'S BURDEN OF UNPAID WORK WITH SPECIAL REFERENCE TO XXTH WARD IN KODASSERY PANCHAYATH" is a bonafide project done by Ms. ARUNDHATHY KRISHNAN, Reg.no SHATMCM005 under my supervision and guidance in partial fulfilment of the requirement for the award of degree Master of Commerce and that it has not previously formed the basis for the award of my degree of Calicut University.


Mr. NAJEEB P S

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Ms. SHINU JOY

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POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled "A STUDY ON STUDENT MIGRATION TO ABROAD WITH SPECIAL REFERENCE TO KERALA" is a bona fide work done independently by ARYA T.S, M. com Fourth semester of this college, under my supervision and guidance of Bachelor of commerce of Calicut university.

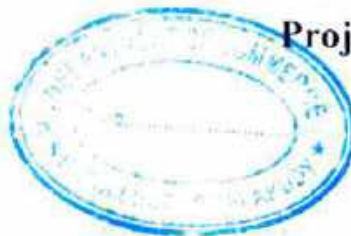
However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB.P.S.

Head of the department


Ms. KEERTHANAT.U

Project guide



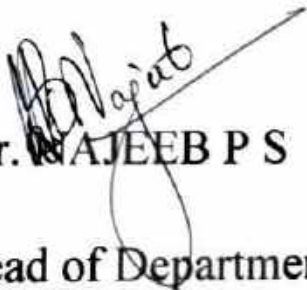
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DEPARTMENT OF COMMERCE

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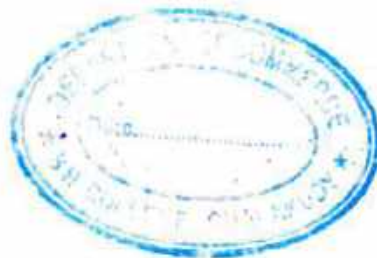
This is to certify that the project report entitled "A STUDY ABOUT PANDEMIC SHIFT IN THE BUYING BEHAVIOUR OF PERSONAL HYGIENE PRODUCT DURING COVID-19" is a bona fide project done by Ms. ATHIRA CA, Reg no SHATMCM007 under my supervision and guidance in partial fulfillment of the requirement for the award of degree Master of commerce and that it has not previously formed the basis for the award of my degree of Calicut university.


Mr. WAJEEB P S

Head of Department


Ms. ANJU P.A.

Project guide



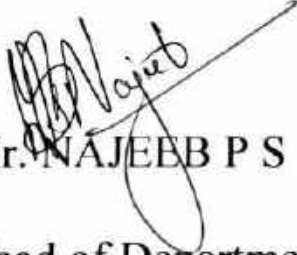
SACRED HEART COLLEGE CHALAKUDY




DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON INFLUENCE OF MEDIA ADVERTISEMENT OF SOFT DRINKS AMONG YOUTH WITH SPECIAL REFERENCE TO 12th WARD OF VELOOKARA PANCHAYATH** is a bonafide project done by Ms. ATHIRA K.R, Reg no SHATMCM008 under my supervision and guidance in partial fulfilment of the requirement for the award of degree Master of commerce and that it has not previously formed the basis for the award of my degree of Calicut university.


Mr. NAJEEB P S
Head of Department


Ms. ANCHU K.S
Project guide



SACRED HEART COLLEGE CHALAKUDY



**DEPARTMENT OF COMMERCE AND
MANAGEMENT STUDIES**

CERTIFICATE

Certified that this project report entitled **“A STUDY ON EFFECT OF INCENTIVE SCHEME ON EMPLOYEE PERFORMANCE IN KALYAN SILKS TEXTILS WITH SPECIAL REFERENCE TO THRISSUR DISTRICT”** is bona fide record of project work done individually by Ms. ATHULYA T.A under my guidance and supervision and that it has not previously formed the basis for the award of any Degree, Diploma, Associate ship or Fellowship to her.


Mr. NAJEEB P.S

Head of the Department


Ms. REVATHI M.S

project guide



SACRED HEART COLLEGE CHALAKUDY



POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled "INVESTMENT BEHAVIOUR OF WORKING WOMEN: A COMPARATIVE STUDY IN GOVERNMENT AND PRIVATE SECTOR" is a bonafide project done by Ms. JOSNA GEORGE, Reg no SHATMCM010 under my supervision and guidance and that it has not previously formed the basis for the award of any degree, diploma, associate ship or fellowship to her.


Mr. NAJEEB P S

Head of Department




Ms. FARSANA P M

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POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON INFLUENCE OF BEHAVIOURAL FACTORS ON STOCK MARKET INVESTMENT DECISIONS" is a bonafide project done by Ms. MARIYA WILSON, Reg no SHATMCM011 under my supervision and guidance in partial fulfilment of the requirement for the award of degree Master of Commerce and that it has not previously formed the basis for the award of my degree of Calicut University.


Mr. NAJEEB P S

Head of Department


Ms. DIVYA RAJAN

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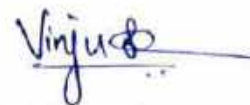


DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "THE PROBLEMS OF FEMALE EMPLOYEES IN TEXTILE SHOPS WITH SPECIAL REFERNCE TO CHALAKUDY MUNCIPAL TOWN AREA" is a bonafide project done by Ms. MEGHA DAVIS, Reg no SHATMCM012 under my supervision and guidance and that it has not previously formed the basis for the award of any degree, diploma, associate ship or fellowship to her.


Mr. NAJEEB P S
Head of Department


Ms. VINJU K R
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**POST GRADUATE DEPARTMENT OF
COMMERCE AND MANAGEMENT STUDIES**

CERTIFICATE

Certified that this project report entitled “**CUSTOMER SATISFACTION: A COMPARATIVE STUDY OF PUBLIC AND PRIVATE SECTOR BANKS WITH SPECIAL REFERENCE TO CHALAKUDY MUNICIPALITY**” is bona fide record of project work done individually by Ms. NIMABABU under my guidance and supervision and that it has not previously formed the basis for the award of any Degree, Diploma, Associate ship or Fellowship to her.


Mr. NAJEEB P.S

Head of the Department


MS. NAYANA SREEDHARAN

project guide



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DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON IMPACT OF SOCIAL MEDIA ON ONLINE SHOPPING WITH SPECIAL REFERENCE TO 4TH WARD OF PARIYARAM PANCHAYATH" is a bonafide project done by Ms. RESHMA REJU, Reg no SHATMCM014 under my supervision and guidance in partial fulfilment of the requirement for the award of degree Master of Commerce and that it has not previously formed the basis for the award of my degree of Calicut University.


Mr. RAJEEB P S

Head of Department


Ms. SHINU JOY

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CERTIFICATE

This is to certify that this project report entitled "A STUDY ON IMPACT OF COVID-19 ON DIGITAL BANKING WITH SPECIAL REFERENCE TO WARD NO:2 OF MELOORGRAMA PANCHAYATH" is a bona fide work done independently by SMITHA JOY, M. com fourth semester of this college, under my supervision and guidance of master of commerce of Calicut university.

However, this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. NAJEEB. P. S.

Head of the department




Ms. KEERTHANA T.U

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SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF COMMERCE

CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON WORK LIFE BALANCE OF TEACHERS DURING COVID-19 WITH SPECIAL REFERENCE TO S.H COLLEGE AND St.JOSEPH’S COLLEGE”** is a bonafide project done by **Ms. SONIYA JOHNY**, M.com fourth semester student of this college, under my supervision and guidance in partial fulfilment of the requirement for the award of degree of Master of Commerce of Calicut University.

However this certificate is not issued to endorse the views and opinions expressed in this project.


Mr. P S NAJEEB

Head of department


Ms. ANJU P.A

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POST GRADUATE DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES


CERTIFICATE

This is to certify that the project report titled "A STUDY ON
IMPACT OF FASHION AMONG YOUNGSTERS (WITH SPECIAL
REFERENCE TO 2ND WARD OF PARAPPUKKARA PACHAYATH)"
Is a bona fide record of the project work done by **SREEJA. N. WARRIER**
Under my guidance and supervision in partial fulfillment of the requirement
for the award of the degree of Master of Commerce and that it has not
previously formed the basis for the award of any Degree, Diploma,
Associate ship or Fellowship to her.


P S Najeeb

Head of the Department




Ms. Anchu. K.S
Project Guide

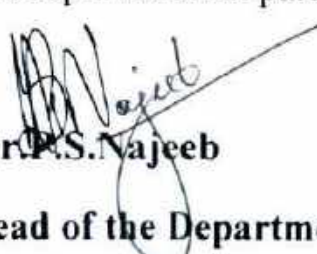
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DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project report entitled "A Study on effectiveness of education a loan provided by Federal Bank with special reference to konnakuzhy panchayat" has been prepared by **sreya v.J** under any guidance and supervision in partial fulfillment of her Master Degree in Commerce.


Mr. P.S. Najeeb

Head of the Department


Ms. Revathy M.S

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POST GRADUATION DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

CERTIFICATE

This is to certify that this project entitle "A STUDY ON BRAND PREFERENCE OF SMART PHONES AMONG TEENEGERS WITH SPECIAL REFERENCE TO ELEVENTH WARD OF MELOOR GRAMA PANCHAYATH" is a bona fide record of the project work done by **SWATHY MOL P.P** under my guidance and supervision in partial fulfillment of the requirements for the award degree of Master of commerce and that it has not previously formed the basis for the award of any degree, diploma , associate ship or fellow ship to her.


Mr. P.S. NAJEEB

HEAD OF THE DEPARTMENT


Ms. FARSANA P.M.

PROJECT GUIDE





AQAR 2020-21

MATHEMATICS

Criterion I - Curricular Aspects

SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

1.3.3 - Number of students undertaking project work/field work/internship

SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF MATHEMATICS

CERTIFICATE

This is to certify that this project report entitled "**LAPLACIAN ENERGY OF GRAPH**" that is being submitted by **SAJANA SADANANDAN, Reg No. SHARSMT007**, in partial fulfillment of the requirement for the degree of Bachelor of Science in Mathematics, to the University of Calicut, is bona fide record of the studies carried out by her under my supervision and guidance. This project has not been submitted anywhere for any other degree of any other university.

Ms. Smitha Davis

Asst. Prof. Head of the Department

Ms. Smitha Davis

Project Guide

Mago P.M.

SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF MATHEMATICS

CERTIFICATE

This is to certify that this project report entitled "**RINGS OF POLYNOMIALS**" that is being submitted by **GAYATHRI MENON** Reg. No. **SHARSMT012**, in partial fulfillment of the requirement for the degree of Bachelor of Science in Mathematics, to the University of Calicut, is bona fide record of the studies carried out by her under my supervision and guidance. This project has not been submitted anywhere for any other degree of any other university.

Asst. Prof. Ms. Smitha Davis

Head of the Department

Ms. JIJI PAULA

Project Guide

Ms. P.M.

SACRED HEART COLLEGE CHALAKUDY



DEPARTMENT OF MATHEMATICS

CERTIFICATE

This is to certify that this project report entitled "**EXTENSION FIELD**" that is being submitted by **CHRISTY SHAJI**, Reg. No. **SHASSMT007**, in partial fulfillment of the requirement for the degree of Bachelor of Science in Mathematics, to the University of Calicut, is bona fide record of the studies carried out by her under my supervision and guidance. This project has not been submitted anywhere for any other degree of any other university.

Asst. Prof. Ms. Smitha Davis

Head of the Department


Ms. Anjana Thayyil

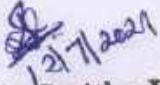
Project Guide




DEPARTMENT OF MATHEMATICS

CERTIFICATE

This is to certify that this project report entitled "INTRODUCTION TO TOPOLOGICAL SPACES" that is being submitted by **ASHLY SHAJAN** Reg. No. **SHASSMT006**, in partial fulfillment of the requirement for the degree of Bachelor of Science in Mathematics, to the University of Calicut, is bona fide record of the studies carried out by her under my supervision and guidance. This project has not been submitted anywhere for any other degree of any other university.


Asst. Prof. Ms. Smitha Davis

Head of the Department


Ms. Athira

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DEPARTMENT OF MATHEMATICS


CERTIFICATE

This is to certify that this project report entitled “FUZZY SET” that is being submitted by **DEVIKA M S, Reg. No. SHASSMT017**, in partial fulfillment of the requirement for the degree of Bachelor of Science in Mathematics, to the University of Calicut, is bona fide record of the studies carried out by her under my supervision and guidance. This project has not been submitted anywhere for any other degree of any other university.


13/7/2021

Asst. Prof. Ms. Smitha Davis

Head of the Department


13/7/21

Ms. Nima Maria

Project Guide


SACRED HEART COLLEGE CHALAKUDY



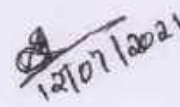
DEPARTMENT OF MATHEMATICS

CERTIFICATE

This is to certify that this project report entitled "GRACEFUL LABELING OF GRAPHS" that is being submitted by NIGITHA THOMAS Reg. No. SHASSMT011, in partial fulfillment of the requirement for the degree of Bachelor of Science in Mathematics, to the University of Calicut, is bona fide record of the studies carried out by her under my supervision and guidance. This project has not been submitted anywhere for any other degree of any other university.


Asst. Prof. Ms. Smitha Davis

Head of the Department


Ms. Smitha Davis


Project Guide


DEPARTMENT OF MATHEMATICS
SACRED HEART COLLEGE, CHALAKUDY
THRISSUR - 680307




CERTIFICATE

This is to certify that the dissertation entitled "**GROUP $U(n)$ AND CAYLEY GRAPH**" submitted by **Ms. Fiona Christy S Baby** (Reg. No. SHAS-MMS006) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bona fide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.


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ALBERT ANTONY T.
Asst. Professor in Mathematics
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P.O. - 680 722
Chalakudy
13/03/2020


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(Supervising Guide)
Assistant Professor
Sacred Heart College
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Ms. Smitha Davis
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SACRED HEART COLLEGE, CHALAKUDY
THRISSUR - 680307



CERTIFICATE

This is to certify that the dissertation entitled "Alpha Compact Fuzzy Topological Spaces" submitted by Ms. Athira A S (Reg. No. SHASMMS002) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

External Examiner

Ms. Linet Roslin Antony

(Supervising Guide)

Assistant Professor

Chalakudy

Sacred Heart College

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Ms. Smitha Davis

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Assistant Professor

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SACRED HEART COLLEGE, CHALAKUDY
THRISSUR - 680307



CERTIFICATE

This is to certify that the dissertation entitled "Soft set Theory" submitted by **Ms. Geethu K.J.** (Reg. No. SHASMMS007) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

Dr. Vijitha Mukundan
Assistant Professor
Department of Mathematics
Sacred Heart College, Chalakudy. Pin 680307



External Examiner

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SACRED HEART COLLEGE, CHALAKUDY
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CERTIFICATE

This is to certify that the dissertation entitled "**Digital Topology**" submitted by Ms. Athira V. (Reg. No. SHASMMMS003) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bona fide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

Dr. Vijitha Mukundan
Assistant Professor
Department of Mathematics,
Sacred Heart College, Chalakudy, Pin 680307.-

External Examiner


Dr. Vijitha Mukundan


Ms. Smitha Davis

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CERTIFICATE

This is to certify that the dissertation entitled "Semigraph" submitted by Ms. Jiyarose Joy (Reg. No. SHASMMS009) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

External examiner

ALBERT ANTONY T.
Asst. Professor in Mathematics
P.M.Govt. College,
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Potta - 680 722

Chalakudy

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Ms. Linet Roslin Antony

(Supervising Guide)

Assistant Professor

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Ms. Smitha Davis

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Assistant Professor

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SACRED HEART COLLEGE, CHALAKUDY
THRISSUR - 680307



CERTIFICATE

This is to certify that the dissertation entitled "**Ergodic Theory**" submitted by **Ms. Jeesa Thomas** (Reg. No. SHASMMS008) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted elsewhere for any other degree of any other University or Board.


External Examiner

ALBERT ANTONY (Supervising Guide)
Asst. Professor in Mathematics
P.M. Govt. College,
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Assistant Professor
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SACRED HEART COLLEGE, CHALAKUDY
THRISSUR - 680307



CERTIFICATE

This is to certify that the dissertation entitled "**C*-Algebra**" submitted by **Ms. Stephy Jose** (Reg. No. SHASMMS014) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

External Examiner

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Dr. Nidhin T J

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Assistant Professor

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CERTIFICATE

This is to certify that the dissertation entitled "**Fibration**" submitted by **Ms. Vinny Varghese** (Reg. No. SHASMMS015) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

External Examiner
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SACRED HEART COLLEGE, CHALAKUDY
THRISSUR - 680307



CERTIFICATE

This is to certify that the dissertation entitled "ROUGH SET THEORY" submitted by Ms. KRIPA JOY (Reg. No. SHASMMS010) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

External Examiner

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Chalakudy
Potta - 680 722

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13/03/2020

Ms. Smitha Davis

Assistant Professor
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Ms. Smitha Davis

(Head of the Department)
Assistant Professor
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Chalakudy

DEPARTMENT OF MATHEMATICS
SACRED HEART COLLEGE, CHALAKUDY
THRISSUR - 680307



CERTIFICATE


This is to certify that the dissertation entitled "**QUATERNION ALGEBRA**" submitted by **Ms. ROSEMOL M D** (Reg. No. SHASMMS011) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.


External Examiner

ALBERT ANTONY
Asst. Professor in Mathematics
P.M. Govt. College,
Chalakudy
Potta - 680 722

Chalakudy

13/03/2020


Dr. Nidhin T J

(Supervising Guide)

Assistant Professor
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Ms. Smitha Davis

(Head of the Department)

Assistant Professor

Sacred Heart College

Chalakudy

DEPARTMENT OF MATHEMATICS
SACRED HEART COLLEGE, CHALAKUDY
THRISSUR - 680307



CERTIFICATE

This is to certify that the dissertation entitled "**Electric Network**" submitted by **Ms. Silpa Sathyan** (Reg. No. SHASMMS013) in partial fulfilment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bona fide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

External Examiner

13/03/2020

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Ms. Smitha Davis

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Ms. Smitha Davis

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THRISSUR - 680307



CERTIFICATE

This is to certify that the dissertation entitled "MODULE THEORY" submitted by Ms.FEMI K J (Reg. No. SHASMMS005) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted elsewhere for any other degree of any other University or Board.



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13/3/2020



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Assistant Professor

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CERTIFICATE

This is to certify that the dissertation entitled “**SOFT TOPOLOGICAL SPACE**” submitted by **Ms. Anitha Antony** (Reg. No. SHATMMS001) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

External Examiner	Ms. Smitha Davis (Supervising Guide) Assistant Professor Sacred Heart College Chalakudy	Ms. Smitha Davis (Head of the Department) Assistant Professor Sacred Heart College Chalakudy
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CERTIFICATE

This is to certify that the dissertation entitled “**BLOOM GRAPH**” submitted by Ms. **ANNA K SEBY** (Reg. No. SHATMMS002) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

External Examiner	Dr. Nidhin T J (Supervising Guide) Assistant Professor Sacred Heart College Chalakudy	Ms. Smitha Davis (Head of the Department) Assistant Professor Sacred Heart College Chalakudy
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CERTIFICATE

This is to certify that the dissertation entitled “**Hesitant fuzzy topological spaces**” submitted by **Ms. Ansalit Poulouse** (Reg. No. SHATMMS003) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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CERTIFICATE

This is to certify that the dissertation entitled “**SIMPLICIAL COMPLEX** submitted by **Ms. Bridhu T M** (Reg. No. SHATMMS004) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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CERTIFICATE

This is to certify that the dissertation entitled “**FRAME THEORY**” submitted by Ms. **CHRISTEENA P.A** (Reg. No. SHATMMS005) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

External Examiner	Ms. Amala Mery George (Supervising Guide) Assistant Professor	Ms. Smitha Davis (Head of the Department) Assistant Professor
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CERTIFICATE

This is to certify that the dissertation entitled "**Representation theory of groups**" submitted by **Ms. Christy Jose** (Reg. No. SHATMMS006) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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CERTIFICATE

This is to certify that the dissertation entitled “**Mixed tree domination in graph theory**” submitted by **Ms. Cliya Jose** (Reg. No. SHAT-MMS007) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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CERTIFICATE

This is to certify that the dissertation entitled “**A study of tri topological spaces**” submitted by **Ms. Deena Devassy** (Reg. No. SHATMMS008) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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CERTIFICATE

This is to certify that the dissertation entitled "**Matroid Theory**" submitted by **Ms. Dona K. Antony** (Reg. No. SHATMMS009) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled “**Antimagic Labeling**” submitted by **Ms.Henna Thomas** (Reg. No. SHATMMS010) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled “**BAIRE SPACES**” submitted by **Ms. LINSATHOMAS** (Reg. No. SHATMMS011) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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CERTIFICATE

This is to certify that the dissertation entitled "**CONNECTIVITY IN WEIGHTED GRAPH**" submitted by **Ms. Nimmy Joy** (Reg. No. SHATMMS012) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled “**Affine Spaces**” submitted by **Ms. Selma Sunny** (Reg. No. SHATMMS013) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled “**HYPERGRAPH**” submitted by **Ms. Silby Thomas** (Reg. No. SHATMMS014) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalaky. This report has not been submitted anywhere for any other degree of any other University or Board.

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CERTIFICATE

This is to certify that the dissertation entitled “**Stochastic Process**” submitted by **Ms.Sneha M S** (Reg. No. SHATMMS015) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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Chalakudy

Chalakudy

16/08/2020



AQAR 2020-21

HISTORY

Criterion I - Curricular Aspects

SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

1.3.3 - Number of students undertaking project work/field work/internship



UNIVERSITY OF CALICUT

Abstract

BA Programme in History (Pattern I and II) - CUCBCSS UG 2014 - Scheme and Syllabus - Approved
- Implemented with effect from 2014 Admissions- Orders issued.

G & A - IV - B

U.O.No. 7474/2014/Admn

Dated, Calicut University,P.O, 01.08.2014

- Read:-1. U.O. No. 3797/2013/CU, dated 07.09.2013 (CBCSS UG Modified Regulations
(File.ref.no. 13752/GA IV J SO/2013/CU).
2. U.O. No. 5180/2014/Admn, dated 29.05.2014 (CBCSS UG Revised Regulations)
(File.ref.no. 13752/GA IV J SO/2013/CU).
3. Minutes of the meeting of the Board of Studies in History(UG) held on 23- 07- 2014
(item No.1)
4. Letter dated 31-07-2014 from the Dean, Faculty of Humanities
5. Orders of Vice Chancellor in the file of even No. dated 01-08-2014

ORDER

Vide paper read as first above, the Modified Regulations of Choice Based Credit Semester System for UG Curriculum with effect from 2014 was implemented in the University of Calicut.

Vide paper read as second above, the revised CUCBCSS UG Regulations has been implemented with effect from 2014 admission, for all UG programmes under CUCBCSS in the University,

Vide paper read third above, the meeting of the Board of Studies in History (UG) held on 23- 07- 2014 vide item No.1 resolved to approve the syllabus of BA Programme in History in tune with CUCBCSS with effect from 2014-15 admission onwards.

Vide paper read fourth above, the Dean, Faculty of Humanities has remarked that considering the urgency, item No.1 of the Minutes of the meeting of the Board of Studies in History (UG) held on 23-07- 2014 be approved.

Vide paper read fifth above, the Vice Chancellor, considering the exigency, and exercising the powers of the Academic Council, has approved item No. 1 of the Minutes of the meeting of the Board of Studies in History (UG) held on 23-07- 2014 , subject to ratification by the Academic Council.

Sanction has, therefore, been accorded to implement the Scheme and Syllabus of BA Programme in History (Pattern I and II) under CUCBCSS Regulations with effect from 2014 Admission onwards.

Orders are issued accordingly.

The Syllabus is uploaded in the University website.

Muhammed S
Deputy Registrar

To

The Principals of all affiliated Colleges

Copy to:CE/ Ex Section/ EG Section/ DR and AR BA Branch/ EX M/Director, SDE/SDE
Exam Wing/ Tabulation Section / System Administrator with a request to upload the
Syllabus in the University website/ GA I F Section/ Library/ SF/ FC/DF

Forwarded / By Order

Section Officer

UNIVERSITY OF CALICUT

SYLLABUS OF B.A. HISTORY PROGRAMME

About the Course:

The structure of BA programme in History is as follows:

Common courses: In general every under graduate student shall undergo 10 common courses (Total 38 credits) chosen from a group of 14 common courses listed below, for completing the programme:

1. *Common English course I*
2. *Common English course II*
3. *Common English course III*
4. *Common English course IV*
5. *Common English course V*
6. *Common English course VI*
7. *Additional language course I*
8. *Additional language course II*
9. *Additional language course III*
10. *Additional language course IV*

Common courses 1-6 shall be taught by English teachers and 7-10 by teachers of additional languages.

Common courses Semester wise

No.	Semester I	Semester II	Semester III	Semester IV
1	1,2,7	3,4,8	5,9	6,10

Core courses: Core courses are the courses in the major (Core) subject of the degree programme chosen by the student. Core courses are offered by the parent department. The number of core courses offered to the students of History is 15, including a project work.

Complementary courses: Complementary courses cover one or two disciplines that are related to the core subject and are distributed in the first four semesters.

Open Courses: There shall be one open course in core subjects in the fifth semester. The Open course shall be open to all the students except the students of parent discipline. (They can choose an open course from a different discipline). Each department/discipline can decide the open course from a pool of three courses offered by the University.

Credits: Each course shall have certain credits. For passing the degree programme the student shall be required to achieve a minimum of 120 credits of which 38(22 for common [English] courses +16 for common languages other than English) credit shall be from common courses, a minimum of 2 credits for project and 2 credits for the open course. Minimum credits required for core, complementary and open courses put together are 82. However the credits to be set apart for the core and complementary courses shall be decided by the faculty concerned. The maximum credits for a course shall not exceed 5. Honours and dual core programmes are having separate credit distribution.

Attendance: A student shall be permitted to appear for the semester examination, only if he/she secures not less than 75% attendance in each semester. Attendance shall be maintained by the concerned Department. Condonation of shortage of attendance to a maximum of 9 days in a semester subject to a maximum of two times during the whole period of a Degree Programme may be granted by the University. Benefits of attendance may be granted to students who attend the approved activities of college/university with prior concurrence of the Head of the institution. Participation in such activities may be treated as presence in lieu of their absence on production of participation / attendance certificate in curricular/extracurricular activities. It should be limited 9 days in a semester. The condonation of shortage of attendance shall be granted according to the existing prescribed norms.

If a student registered in first semester of the UG degree programme is continuously absent from the classes for more than 14 working days at the beginning of the semester without informing the authorities the matter shall immediately be brought to the notice of the Registrar of the university. The names of such students shall be removed from the rolls.

Admission to repeat courses should be within the sanctioned strength. However if more candidates are there, the candidates who have suffered serious health problems, on production of a medical certificate issued by a physician not below the rank of a Civil Surgeon in Government service, may be permitted to repeat the course, with a written order issued by the Registrar, Calicut University (by considering his/her SGPA/CGPA and percentage of attendance). The number of such candidates should not exceed two.

Grace marks: Grace Marks may be awarded to a student for meritorious achievements in co-curricular activities (in Sports/Arts/ NSS/NCC/ Student Entrepreneurship) carried out besides the regular class hours. Such a benefit is applicable and limited to a maximum of 8 courses in an academic year spreading over two semesters. No credit shall be assigned for such activities.

Project: Every student of a UG degree programme shall have to work on a project of not less than 2 credits under the supervision of a faculty member as per the curriculum. Details and time schedule is provided.

Study Tour: Compulsory study tour to destinations of architectural, archaeological, historical and cultural importance is to be conducted either in 5th or in 6th semesters

Extension activities: Compulsory social service (CSS) for a period of 15 days is essential for the successful completion of a U.G. programme.

History Syllabus: A Short Introduction

Examination: There shall be University examinations at the end of each semester. External **Viva-voce** will be conducted along with the project evaluation. **Project** evaluation shall be conducted at the end of sixth semester. 20 % of marks are awarded through internal assessment. In the (CUCBCSSUG 2014 scheme) - UG pattern, the common course IV will cover the whole aspects of the syllabi for Environmental studies. So there is no need of conducting a separate examination in Environmental studies for the students of CUCBCSSUG 2014 scheme.

Improvement Course: Improvement of a particular semester can be done only once. The student shall avail the improvement chance in the succeeding year after the successful completion of the semester concerned. The internal marks already obtained will be carried forward to determine the new grade/mark in the improvement-examination. If the candidate fails to appear for the improvement examination after registration, or if there is no change in the results of the improved examination, the mark/grade obtained in the first appearance will be retained. Improvement and Supplementary examinations cannot be done simultaneously.

EVALUATION AND GRADING: Mark system is followed instead of direct grading for each question. For each course in the semester letter grade, grade point and % of marks are introduced in 7- point indirect grading system.

Seven Point Indirect Grading System

<i>% of Marks (IA+ESE)</i>	<i>Grade</i>	<i>Interpretation</i>	<i>Grade point Average (G)</i>	<i>Range of grade points</i>	<i>Class</i>
90 and above	A+	Outstanding	6	5.5 -6	First class with Distinction
80 to below90	A	Excellent	5	4.5 -5.49	
70 to below80	B	Very good	4	3.5 -4.49	First class
60 to below 70	C	Good	3	2.5 -3.49	
50 To below 60	D	Satisfactory	2	1.5 -2.49	Second class
40 to below 50	E	Pass/Adequate	1	0.5 -1.49	Pass
Below 40	F	Failure	0	0 - 0.49	Fail

(15 courses including project work)

Sl. No.	Code	Name of the Courses	Credit	Contact Hours/week	Sem
1	HIS1B01	THE TRENDS IN HISTORIOGRAPHY	4	6	I
2	HIS2B02	HISTORY OF THE EARLY WORLD	4	6	II
3	HIS3B03	INFORMATICS AND HISTORY	4	4	III
4	HIS3B04	HISTORY OF EARLY INDIA	4	5	III
5	HIS4B05	HISTORY OF THE MEDIEVAL WORLD	4	5	IV
6	HIS4B06	METHODOLOGY OF HISTORICAL WRITING	4	5	IV
7/	HIS5B07	KERALA SOCIETY AND CULTURE: ANCIENT AND MEDIEVAL	4	5	V
8 /	HIS5B08	HISTORY OF MEDIEVAL INDIA	4	5	V
9 /	HIS5B09	HISTORY OF MODERN INDIA	4	5	V
10 ✓	HIS5B10	HISTORY OF MODERN WORLD	4	5	V
11 6	HIS6B11	HISTORY OF MODERN KERALA	4	5	VI
12	HIS6B12	HISTORY OF CONTEMPORARY INDIA	4	5	VI
13	HIS6B13	CONTEMPORARY KERALA	4	5	VI
14	HIS6B14	GENDER STUDIES	4	5	VI
15	HIS6B15	COURSE WORK- DISSERTATION	4	2 Hours each in 5 TH and 6 th Semesters	VI

2. COMPLEMENTARY COURSES

(24 courses)

Sl. No.	Code	Name of the Courses	Credit	Contact Hours/week	Sem
1	HIS1C01	Modern Indian History (1857 to the Present): India Under Colonial Rule and Early Resistances (1857- 1885)	2	3	I
2	HIS1C02	Modern World History from AD 1500: Modern World In Transition:- From A.D 1500	2	3	I
3	HIS1C03	Social and Cultural History of Britain: Social and Cultural History of Britain (Ancient And Medieval Period)	2	3	I
4	HIS1C04	West Asian Studies West Asia In Transition	2	3	I

HIS6B15 COURSE WORK- DISSERTATION

Aim of the Course: The course aims to see the understanding of techniques and methods of presentation in History by the Students.

The projects may be on regional or Local History. It may be on local culture, economy, local struggles, land relations, cultural institutions including Folk and the influence of such institutions on society, local movements, institutions having relations with socio-religious movements which have influenced and shaped society deeply, etc. Individual projects should be prepared by the students. The dissertations should follow the writing methodology of History under the guidance of a teacher. The dissertations should have 30-35 pages length, written in Malayalam or in English. The time schedule for preparation of dissertations is given below, which should be maintained.

Identification of Topic, preparation of preliminary bibliography and list of persons to be interviewed- **By the end of IV Semester**

Collection of Data, Interviews, etc. and Preparation of detailed Synopsis: **By the end of V Semester**

Presentation of findings, Drafting the Dissertation, Internal Assessment and evaluation: **VI Semester**

The final evaluation by external examiner will be held after the **end of VI Semester**

A HISTORICAL STUDY OF THE KODUNGALLUR

A dissertation submitted to the **UNIVERSITY OF CALICUT** in partial fulfilment of the requirements for the award of degree bachelor of arts in history.



ROSHMI THOMAS

(REG NO: SHASAHIR 33)

DEPARTMENT OF HISTORY

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CHALAKUDY

2018-2021

CERTIFICATE

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Place : Chalakudy

Date : 31-3-21



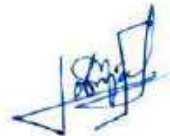
Ms. MEENU JACOB

HEAD OF THE DEPARTMENT

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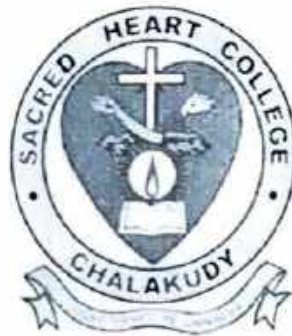
DEPARTMENT OF HISTORY

SACRED HEART COLLEGE

CHALAKUDY

A LOCAL HISTORY OF ALOOR

**Dissertation submitted to the UNIVERSITY OF CALICUT
in partial fulfillment of the requirements
for the award of Degree of
BACHELOR OF ARTS IN HISTORY**



Submitted by

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(Reg. No. SHASAHIR34)

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Date: *31.3.21*


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Mr. Libin Francis
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A HISTORICAL STUDY OF THE IRINJALAKUDA

A dissertation submitte to the UNIVERSITY O F CALICUT in partial fulfillment of the requirement for the award of degree bachelor of arts in history.



ANN MARIYA K.S

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Local History of Chalakudy

A dissertation submitted to the university of Calicut in partial fulfillment of the requirements for the award of degree

Bachelor of Arts in History.

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Chalakudy

2018-2021

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I affirm that the dissertation entitled : "A local History of Chalakudy" being submitted by Nayana M Vijayan in partial fulfillment for the award of Degree of Bachelor of Arts (History) of the university of Calicut was carried out under my guidance.

Place : Chalakudy

Date : 31.3.21



Head of the Department

M S Meenu Jacob

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A HISTORICAL STUDY OF THE KODAKARA

**A dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of
the requirements for the award of degree bachelor of arts in history.**



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CERTIFICATE

This is to certify that the Project Work "**THE LOCAL HISTORY OF KODAKARA**" submitted by **ANJANA T** is an authentic record of investigations carried by her. Under me supervision in the Bachelor of Arts Department of History. Sacred Heart College, Chalakudy, as a part of their curriculum.

Place: Kodakara

Date: 30.3.21



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A HISTORICAL STUDY OF MURINGOOR

A dissertation submitted to the **UNIVERSITY OF CALICUT** in partial fulfillment of the requirements for the award of degree bachelor of arts in history.



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A local History Of Tirur

A dissertation Submitted to the UNIVERSITY OF CALICUT in
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LOCAL HISTORY OF ATHIRAPILLY

A dissertation submitted to the university of Calicut in partial fulfillment of the requirements for the award of degree

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"A LOCAL HISTORY OF THRISSUR"

A dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the award of degree bachelor of arts in history



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“DARK DAYS DROWNED IN BLOOD”

A dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the award of degree bachelor of arts in history



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2018 - 2021

DECLARATION

I, Arunima T.S do hereby declare that this project work entitled "A short history of Kuttankulam Struggle" is a bonafied work carried out by me and that it has not formed the basis for the award of any degree, diploma or other title in any university.

Place: *Chalakydy*

ARUNIMA T.S

Date: *31.3.21*

Reg.No :



"A HISTORICAL STUDY OF THE ANNAMANADA"

Project Report

Submitted to

Sacred Heart College Chalakudy



In partial fulfillment of the requirements for the award of the

Degree of Bachelor of Arts(History)

Submitted By

JISMI K V

(Reg. No. SHASAHIR20)

2020 – 2021

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I affirm that this dissertation entitled **A HISTORICAL STUDY OF THE ANNAMANADA** being submitted by the **JISMI K V** in partial fulfillment for the award of Degree of Bachelor of arts (History) of the University of was carried out under my guidance

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LOCAL HISTORY OF KOTTAT

A Dissertation Submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the Award of Degree Bachelor of Arts in History.



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A HISTORICAL STUDY OF THE PERUMBAVOOR

*A dissertation submitted to the University of Calicut in partial fulfillment of
the requirements for the award of degree*

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A HISTORICAL STUDY OF MULLAYAM

A dissertation submitted to the university of Calicut
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A STUDY OF TRIBAL LIFE OF ATTAPPADY

**A dissertation submitted to the UNIVERSITY OF CALICUT in
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LOCAL HISTORY OF KUZHOOR

A dissertation submitted to the university of Calicut in partial fulfillment of the requirements for the award of degree
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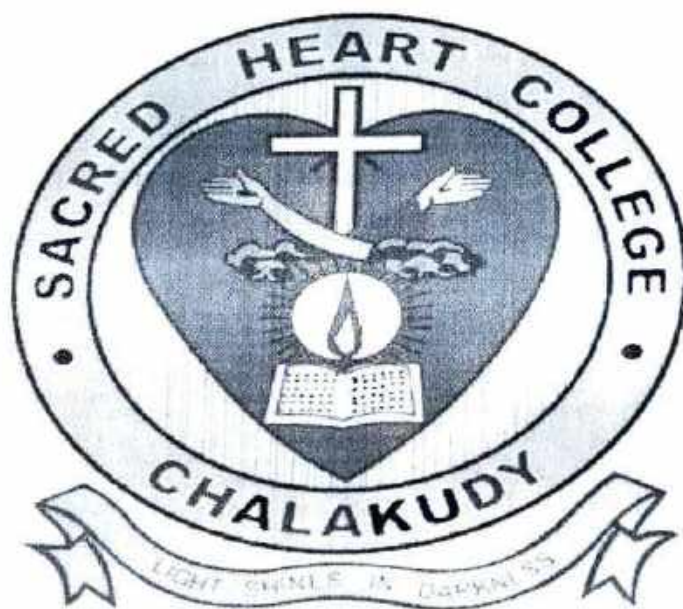


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A HISTORICAL STUDY OF ERNAKULAM

A dissertation submitted to the **UNIVERSITY OF CALICUT** in partial fulfilment of the requirements for the award of degree Bachelor of Arts in History.



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“A HISTORICAL STUDY OF THE MELOOR”

A dissertation submitted to the UNIVERSITY OF CALICUT
in partial fulfillment of the requirement for the award
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A HISTORICAL STUDY OF VARANDARAPILLY

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A HISTORICAL STUDY OF KORATTY

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Libin Francis

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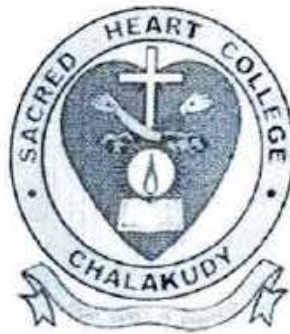
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**A HISTORICAL STUDY OF THE
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**Dissertation submitted to the UNIVERSITY OF CALICUT
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for the award of Degree of
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HISTORICAL STUDY OF MALA

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Date : 31.3.21

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A HISTORICAL STUDY OF GURUVAYUR

A dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the award of degree bachelor of arts in history.



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Chalakudy

A HISTORICAL STUDY OF 'WADAKANCHERY'

**A dissertation submitted to the university of Calicut
in partial fulfilment of the requirements
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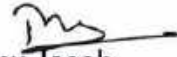
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A HISTORICAL STUDY OF THE ALAGAPPANAGAR

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A LOCAL HISTORY OF THRIPRAYAR

**Dissertation submitted to the UNIVERSITY OF CALICUT
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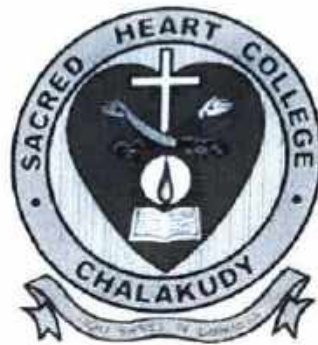
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THE LOCAL HISTORY OF KARUKUTTY

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Date: *31.3.21*



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A HISTORICAL STUDY OF ALUVA

**Dissertation submitted to the UNIVERSITY OF CALICUT
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Ms.SMINA M B

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“A HISTORICAL STUDY OF ERNAKULAM DISTRICT”

A dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the award of degree bachelor of arts in history



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DATE: 30-3-21

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LIBIN FRANCIS

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**A HISTORICAL STUDY OF THE
ANAPPANTHAM TRIBAL COLONY**

**Dissertation submitted to the UNIVERSITY OF CALICUT in partial
fulfillment of the requirements for the award of
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SONA BENNY
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March 2021.

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Date : *21.3.21*

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Mr. Labin Francis
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A HISTORICAL STUDY OF CHENDAMANGALAM

A dissertation submitted to the UNIVERSITY OF CALICUT in Partial
Fulfillment of the requirements for the award of degree bachelor of arts in history



SOORYA JOHN

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2018 - 2021

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Place: Chalakudy

Date: 31-3-21

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A HISTORICAL STUDY OF THE MUZIRIS

A dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the award of degree bachelor of arts in history.



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**CHANGING FUNERARY PRACTICES IN VARIOUS RELIGION
IN MY LOCALITY**

A dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the award of degree bachelor of arts in history.



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date: 31.3.21


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M.S Meenu Jacob

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Department of History

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Chalakudy

A HISTORICAL STUDY OF THE CHAIPANKUZHIY

A dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the award of degree bachelord of arts in history.



ASHLEE VARGHESE

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CHALAKUDY

2018-2021

CERTIFICATE

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Place: Chalakudy

Date: 31-3-21


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Meenu Jacob

Supervising

Department Of History

Sacred Heart College

Chalakudy

A HISTORICAL STUDY OF CHENDAMANGALAM

A dissertation submitted to the UNIVERSITY OF CALICUT in Partial
Fulfillment of the requirements for the award of degree bachelor of arts in history



AMRUTHA C.S.

SHASAHIR 01

DEPARTMENT OF HISTORY

SACRED HEART COLLEGE

CHALAKUDY

2018 – 2021

CERTIFICATE

I affirm that this dissertation entitled Local History of Chendamangalam submitted by Amrutha C.S. in Partial fulfillment for the award of degree of bachelor of arts (history) of the University of Calicut was carried out under my guidance.

Place: Chalakudy

Date: 3 1 3- 2)


Ms. Merin Jacob

Head of the Department

Department of History

Sacred Heart College

Chalalakudy

Supervising

Department of History

Sacred Heart College

Chalalakudy

"A HISTORICAL STUDY OF THE ANGAMALY"

Project Report

Submitted to

SACRED HEART COLLEGE

CHALAKUDY



In partial fulfillment of the requirements for the award of the

Degree of Bachelor of ARTS(HISTORY)

Submitted By

NIMISHA I B

(Reg. No. SHASAHIR32)

2020 – 2021

CERTIFICATE

I affirm that this dissertation entitled, 'A HISTORICAL STUDY OF THE ANGAMALY' BEING SUBMITTED BY NIMISHA I B in partial fulfillment for the award of Degree of Bachelor of Arts (History) of the University of was carried out under my guidance

Place: Chalakudy

Date: 31.3.21

Ms. Meenu Jacob

Head of the Department
Department of History

Sacred Heart College Chalakudy

Mr. Libin Francis

Supervising Department of History
Sacred Heart College Chalakudy



AQAR 2020-21

PHYSICS

Criterion I - Curricular Aspects

SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

1.3.3 - Number of students undertaking project work/field work/internship

CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL DESIGNS USING PYTHON AND EXPEYES KIT-CAUSHYS CONSTANT AND TRANSIENT RESPONSE OF LCR CIRCUITS**” is bonafide work done by**AIBEL JOHN**..... under the guidance of Dr Nijo Varghese Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
15/7/21

Dr Nijo Varghese
Department of Physics
Sacred Heart College
Chalakudy



Examiners:

1.

[Signature]
15/7/21

2.

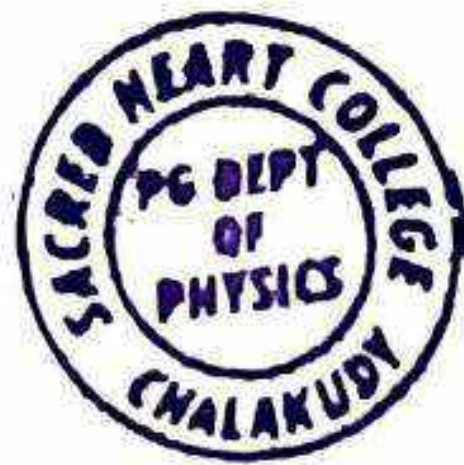
CERTIFICATE

This is to certify that the project work entitled "**EXPERIMENTAL DESIGNS USING PYTHON AND EXPEYES KIT-CAUSHYS CONSTANT AND TRANSIENT RESPONSE OF LCR CIRCUITS**" is bonafide work done by**ANISHA ANTONY**..... under the guidance of Dr Nijo Varghese Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
13/7/21

Dr Nijo Varghese
Department of Physics
Sacred Heart College
Chalakudy



Examiners:

1.

Sheela
15/7/21

2.



Department of Physics
Cochin University of Science
and Technology
Kochi – 682022

07/07/2021

CERTIFICATE

This is to certify that the project "DETECTION OF EXOPLANET BY RADIAL VELOCITY METHOD/DOPPLER SPECTROSCOPY" is an authentic record of project carried out by Ms. ANJANA P, Student of Bachelor of science in physics , Sacred heart college chalakudy , successfully completed under my supervision. The content of this project has not been presented earlier in any other degree in any other university.

Dr. Charles Jose
Assistant Professor
Department of Physics
Cusat

CERTIFICATE

This is to certify that the project work entitled "**STUDY OF COLOR AND SPECTRAL TYPES OF STARS**" is bonafide work done by **APARNA A A** under the guidance of **Ms Fency K.F**, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:



Ms. Fency K.F

Department of Physics

Sacred Heart College

Chalakudy

Examiner:

Greenfield
15/7/21

for
Mujib
Nijo Varghese

CERTIFICATE

This is to certify that the project work entitled "STUDY OF COLOR AND SPECTRAL TYPES OF STARS" is bonafide work done by ARATHY S under the guidance of Ms Fency K.F, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:



Ms. Fency K.F

Department of Physics

Sacred Heart College

Chalakudy

Examiner:

Fency K.F
19/7/21

Fency K.F
13/7/21

CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL DESIGNS USING PYTHON AND EXPEYES KIT-PLANCK’S CONSTANT AND EFFICIENCY OF SOLAR CELL**” is bonafide work done by **BLESSY BABY** under the guidance of **DR.NIJO VARGHESE**, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
13/7/21

DR.NIJO VARGHESE

Department of Physics

Sacred Heart College

Chalakudy



Examiners:

1.

Green
15/7/21

2.

CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL DESIGNS USING PYTHON AND EXPEYES KIT-PLANCK’S CONSTANT AND EFFICIENCY OF SOLAR CELL**” is bonafide work done by **CHRISTEENA P.X** under the guidance of **DR.NIJO VARGHESE**, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
13/7/21

DR.NIJO VARGHESE

Department of Physics

Sacred Heart College

Chalakudy

Examiners:

1.

Sheela
15/7/21

2.



CERTIFICATE

This is to certify that the project work entitled " QUASI NORMAL MODES OF BLACK HOLE USING PöSCHL-TELLER APPROXIMATION METHOD" is bonafide work done by DEEPA.P.D under the guidance of Dr.NIJO VARGHESE, Head of Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
13/7/21

Dr.Nijo varghese

Department Of Physics

Sacred Heart College, Chalakudy



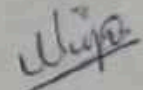
Examiner:

Deepa
15/7/21

CERTIFICATE

This is to certify that the project work entitled "EXPERIMENTAL DESIGNS USING PYTHON AND EXPEYES KIT-PLANCK'S CONSTANT AND EFFICIENCY OF SOLAR CELL" is bonafide work done by DEVIPRIYA E.P under the guidance of DR.NIJO VARGHESE, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:


DR.NIJO VARGHESE
Department of Physics
Sacred Heart College
Chalakudy

Examiners:

1.

2.



CERTIFICATE

This is to certify that the project work entitled "**QUASI NORMAL MODES OF BLACK HOLE USING PÖSCHL-TELLER APPROXIMATION METHOD**" is bonafide work done by **GREESHMA.K.G** under the guidance of **Dr.NIJO VARGHESE**, Head of Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
13/7/21

Dr.Nijo varghese

Department Of Physics

Sacred Heart College, Chalakudy



Examiner:

Greeshma
15/7/21

CERTIFICATE

This is to certify that the project work entitled " QUASI NORMAL MODES OF BLACK HOLE USING PöSCHL-TELLER APPROXIMATION METHOD" is bonafide work done by HIBA under the guidance of Dr.NIJO VARGHESE, Head of Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
13/7/21

Dr.Nijo varghese

Department Of Physics

Sacred Heart College, Chalakudy



Examiner:

Sheela
15/7/21

CERTIFICATE

This is to certify that the project work entitled "**STUDY OF COLOR AND SPECTRAL TYPES OF STARS**" is bonafide work done by **JEEMOL JOJO K** under the guidance of **Ms Fency K.F**, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:



Ms. Fency K.F

Department of Physics

Sacred Heart College

Chalakudy

Examiner:

Jeemol Jojo K
15/7/21

for
Ulyss
13/7/21

CERTIFICATE

This is to certify that the project work entitled "**STUDY OF COLOR AND SPECTRAL TYPES OF STARS**" is bonafide work done by **JESNA SEBASTIAN** under the guidance of **Ms Fency K.F**, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:



Ms. Fency K.F

Department of Physics

Sacred Heart College

Chalakudy

Examiner:

Jesna
15/7/21

for
Nijo
Nijo Varghese

CERTIFICATE

This is to certify that the project work entitled "EXPERIMENTAL DESIGNS USING PYTHON AND EXPEYES KIT-PLANCK'S CONSTANT AND EFFICIENCY OF SOLAR CELL" is bonafide work done by **JESTEENA JOY** under the guidance of **DR.NIJO VARGHESE**, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

J. Nijo
13/7/21

DR.NIJO VARGHESE

Department of Physics

Sacred Heart College

Chalakudy



Examiners:

1.

Jeeva
15/7/21

2.

CERTIFICATE

This is to certify that the project work entitled "**COMPARATIVE STUDY OF RADIATION SHIELDING PARAMETERS FOR DIFFERENT SHIELDING MATERIALS**" is bonafide work done by **JISMY SUNNY** under the guidance of **Ms Fency K.F**, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Ms.Fency KF
Department of Physics
Sacred Heart College
Chalakkudy



Examiners

- 1.
- 2.

[Handwritten signature]

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Nijo Varghese

**DETECTION OF EXOPLANETS BY RADIAL
VELOCITY METHOD/ DOPPLER
SPECTROSCOPY**

PROJECT REPORT

Submitted to the
UNIVERSITY OF CALICUT

In partial fulfilment of the requirements for the award of the degree
BACHELOR OF SCIENCE

**IN
PHYSICS**

By
**N P KAUSALYA
SHASSPH018**

Under the guidance of:

Dr.Charles Jose

Assistant professor of Department of Physics
Cochin University of Science and Technology, Kochi

CERTIFIED AS BONAFIDE PROJECT WORK

EXAMINERS

- 1.
- 2.

[Signature]
15/7/21



HEAD OF THE DEPARTMENT

[Signature]
13/7/21

Department of Physics, Sacred Heart College Chalakudy, Thrissur

2020-2021



Department of Physics
Cochin University of Science
and Technology
Kochi – 682022

07/07/2021

CERTIFICATE

This is to certify that the project “DETECTION OF EXOPLANET BY RADIAL VELOCITY METHOD/DOPPLER SPECTROSCOPY” is an authentic record of the project carried out by Ms. N P KAUSALYA, Student of Bachelor of science in physics, Sacred heart college chalakudy, successfully completed under my supervision. The content of this project has not been presented earlier in any other degree in any other university.

Dr. Charles Jose
Assistant Professor
Department of Physics
Cusat

CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL DESIGNS USING PYTHON AND EXPEYES KIT-CAUSHYS CONSTANT AND TRANSIENT RESPONSE OF LCR CIRCUITS**” is bonafide work done by**SONA P.P.**..... under the guidance of Dr Nijo Varghese Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
15/7/21

Dr Nijo Varghese
Department of Physics
Sacred Heart College
Chalakudy



Examiners:

1.

Sheena
15/7/21

2.

CERTIFICATE

This is to certify that the project work entitled “ **QUASI NORMAL MODES OF BLACK HOLE USING PÖSCHL-TELLER APPROXIMATION METHOD**” is bonafide work done by **SREELAKSHMI P.M** under the guidance of **Dr.NIJO VARGHESE**, Head of Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
12/7/21

Dr.Nijo varghese

Department Of Physics

Sacred Heart College, Chalakudy



Examiner:

Sheena
15/7/21

CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL DESIGNS USING PYTHON AND EXPEYES KIT-CAUSHYS CONSTANT AND TRANSIENT RESPONSE OF LCR CIRCUITS**” is bonafide work done by**SREELEKHA T.S.**..... under the guidance of Dr Nijo Varghese Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
13/7/21

Dr Nijo Varghese
Department of Physics
Sacred Heart College
Chalakudy



Examiners:

1.

Sreelekh
15/7/21

2.

CERTIFICATE

This is to certify that the project work entitled "**EXPERIMENTAL DESIGNS USING PYTHON AND EXPEYES KIT-CAUSHYS CONSTANT AND TRANSIENT RESPONSE OF LCR CIRCUITS**" is bonafide work done by**AGNA WILSON**..... under the guidance of Dr Nijo Varghese Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
13/7/21

Dr Nijo Varghese

Department of Physics

Sacred Heart College

Chalakudy



Examiners:

1.

Seena
15/7/21

2.

CERTIFICATE

This is to certify that the project work entitled "COMPARATIVE STUDY OF RADIATION SHIELDING PARAMETERS FOR DIFFERENT SHIELDING MATERIALS" is bonafide work done by ANJITHA VARGHESE under the guidance of Ms Fency K.F, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Ms.Fency KF
Department of Physics
Sacred Heart College
Chalakkudy



Examiners

- 1.
- 2.

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foV
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Nijo Varghese

CERTIFICATE

This is to certify that the project work entitled "COMPARATIVE STUDY OF RADIATION SHIELDING PARAMETERS FOR DIFFERENT SHIELDING MATERIALS" is bonafide work done by ANSIYA NAZAR under the guidance of Ms Fency K.F, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Ms.Fency KF
Department of Physics
Sacred Heart College
Chalakkudy



Examiners

- 1.
- 2.

Greenup
15/7/21

for
Ujje
Nijo Varghese

CERTIFICATE

This is to certify that the project work entitled "COMPARATIVE STUDY OF RADIATION SHIELDING PARAMETERS FOR DIFFERENT SHIELDING MATERIALS" is bonafide work done by ANU HARSHAN under the guidance of Ms Fency K.F, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:



Ms.Fency KF
Department of Physics
Sacred Heart College
Chalakkudy

Examiners

1.

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15/7/21

2.

[Handwritten signature]
Nijo Varghese

CERTIFICATE

This is to certify that the project work entitled "STUDY OF COLOR AND SPECTRAL TYPES OF STARS" is bonafide work done by ARSHITHA SHAJI C under the guidance of Ms. Fency K.F, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:



Ms. Fency K.F

Department of Physics

Sacred Heart College

Chalakudy

Examiner:

[Handwritten signature]
15/7/21

for
[Handwritten signature]
13/7/21
Nijo Varghese

CERTIFICATE

This is to certify that the project work entitled “ **QUASI NORMAL MODES OF BLACK HOLE USING PöSCHL-TELLER APPROXIMATION METHOD**” is bonafide work done by **CELESTE ALBERT** under the guidance of **Dr.NIJO VARGHESE**, Head of Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:


13/11/21
Dr.Nijo varghese

Department Of Physics

Sacred Heart College, Chalakudy

Examiner:





CERTIFICATE

This is to certify that the project work entitled "COMPARATIVE STUDY OF RADIATION SHIELDING PARAMETERS FOR DIFFERENT SHIELDING MATERIALS" is bonafide work done by SANDRA JAMES under the guidance of Ms Fency K.F, Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:



Ms.Fency KF
Department of Physics
Sacred Heart College
Chalakkudy

Examiners

1.

[Handwritten signature]
15/7/21

2.

for
[Handwritten signature]
Nijo Varghese

CERTIFICATE

This is to certify that the project work entitled " QUASI NORMAL MODES OF BLACK HOLE USING PöSCHL-TELLER APPROXIMATION METHOD" is bonafide work done by SANDRA.ROJI under the guidance of Dr.NIJO VARGHESE, Head of Department of Physics, Sacred Heart College, Chalakudy during the academic year of 2020-2021 and submitted for partial fulfilment of requirement of award of Degree of Bachelor of Science in Physics.

Project Guide:

Nijo
13/7/21
Dr.Nijo varghese

Department Of Physics

Sacred Heart College, Chalakudy

Examiner:

Sandra



DEPARTMENT OF PHYSICS
UNION CHRISTIAN COLLEGE, ALUVA

CERTIFICATE

This is to certify that this project report entitled “**DYNAMICAL SYMMETRY OF HYDROGEN ATOM**” is an authentic record of project work carried out by Ms **ALEENA ZACHARIA** (Reg.No.SHATMPH001), student of Master of Science in Physics, Department of Physics, Sacred Heart College Chaiakudy, successfully completed under my supervision in the Department of Physics, UC College, Aluva .



Dr.Pramod Dominic



**DEPARTMENT OF PHYSICS NIRMALA COLLEGE,
MUVATTUPUZHA**



CERTIFICATE

This is to certify that this project report entitled "***SYNTHESIS AND PHOTOLUMINISCENCE ANALYSIS OF EUROPIUM ACTIVATED CALCIUMTUNGSTATE PHOSPHOR***" is an authentic record of project work carried out by **ANJALY K Ramachandran**, student of master of science in Physics, Department of physics, Sacred Heart College Chalakudy, successfully completed under my supervision in the department of physics, Nirmala College, Muvattupuzha. The contents of this project work have not been presented earlier for the award of any other degree in any other university.

Dr Dinu Alexander

Asst. Professor

Dept of Physics

Nirmala college

Muvattupuzha



External Examiner **Post Graduate Department of Physics &
Research Centre
Sree Krishna College, Guruvayur
Ariyannur (P. O)
Thrissur (Dt.)**

This is to certify that the dissertation entitled “**Glass-free LTCC ceramic for Microwave applications: A literature review**” is an authentic record of the project work done by **AVANI SASI (REG.NO: SHATMPH003)**, IVth Semester M.Sc. Physics, Sacred Heart College, Chalakudy under my guidance for partial fulfilment of requirements for the award of degree of Master of Science in Physics in the year 2021.

Dr. Manu K M

Assistant Professor

**SYNTHESIS AND PHOTOLUMINESCENCE ANALYSIS
OF TERBIUM ACTIVATED CALCIUM TUNGSTATE PHOSPHOR**

**Project report submitted to the
UNIVERSITY OF CALICUT**

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

MASTER OF SCIENCE IN PHYSICS

By

Chandhana PR

Reg.No: SHATMPH004

Under the guidance of:

Dr. Dinu Alexander

Dept. of Physics

Nirmala College, Muvattupuzha

CERTIFIED AS BONAFIDED RESEARCH WORK

EXTERNAL EXAMINER:

- 1.
- 2.

HEAD OF THE DEPARTMENT:

Department of physics
Sacred Heart College
Chalakydy





Dr. Sibi K. S.

Assistant Professor and Head
Department of Physics

University of Kerala

Thiruvananthapuram-695034
sibi@keralauniversity.ac.in

CERTIFICATE

Certified that the work presented in the project work entitled “Neurophysiology of mindfulness meditation on EEG waves” is an authentic record of bonafide research work done by JOMOL JOY, under my guidance and supervision in the Department of Physics, University of Kerala, Thiruvananthapuram 695581 and no part of it has been included in any other thesis submitted previously for the award of any degree. It is also certified that plagiarism checking has been effected using the URKUND software approved by the UGC/University and that no plagiarism has been found in this thesis.

Kariavattom

17/05/2021



A handwritten signature in blue ink, likely belonging to Dr. Sibi K. S.

Sibi K S
(Guide)

DEPARTMENT OF PHYSICS
COCHIN COLLEGE, KOOVAPADAM

CERTIFICATE

This is to certify that this project report entitled “**CHARACTERISATION OF BARIUM TITANATE**” is an authentic record of project work carried out by Ms **KEERTHANA RAVINDRAN (Reg.No.SHATMPH006)**, student of Master of Science in Physics, Department of Physics, Sacred Heart College Chalakudy, successfully completed under my supervision in the Department of Physics, Cochin College, Koovapadam. The content of this project has not been included in any other project report submitted previously for the award of any degree.


Submitted by
KEERTHANA RAVINDRAN
SHATMPH006
Sacred Heart College, Chalakudy

Place

Edappally

Date:

26/08/21


Signature of the project guide
Dr. MANJUSHA M.V.
Assistant Professor
Department of Physics
THE COCHIN COLLEGE, COCHIN

Dr MANJUSHA M V
Assistant Professor
Department of Physics
The Cochin College
Cochin-822 002



CERTIFICATE

This is to certify that this project report entitled “**SYNTHESIS AND CHARACTERIZATION OF Fe – DOPED TiO₂ NANOPARTICLES BY SOL-GEL METHOD**” is an authentic record of project work carried out by Ms. Keerthylal K, student of Master of Science in Physics, Department of Physics, Sacred Heart College, Chalakudy, successfully completed under my supervision in the Department of Physics, Nirmala College, Muvattupuzha. The contents of this project work have not been presented earlier for the award of any other degree in any other University.



Dr. Radhu. S

Assistant Professor

Department of Physics

Nirmala College, Muvattupuzha

CERTIFICATE

This is to certify that this project report entitled “Determination of orbital parameters and mass of the exoplanet 51 Pegasi b” is an authentic record of project work carried out by Ms. Lakshmi Babu, student of Master of Science in Physics, Department of Physics, Sacred Heart College, Chalakudy successfully completed under my guidance in the Department of Earth and Space Sciences, Indian Institute of Space Science and Technology, Thiruvananthapuram.

Anand Narayanan

Dr. ANAND NARAYANAN

Professor, Department of Earth and Space Sciences

Indian Institute of Space Science and Technology, Thiruvananthapuram



DEPARTMENT OF PHYSICS
COCHIN COLLEGE, KOOVAPADAM

CERTIFICATE

This is to certify that this project work entitled "**CHARACTERISATION OF BISMUTH FERRITE DOPED WITH COPPER**" submitted by **MARIA PAUL**, M.Sc. in physics, 4th semester Register no. SHATMPH009, Department of Physics, Sacred Heart College Chalakudy, Calicut University is an authentic work carried out by her under my guidance and supervision. The contents of this project work have not been presented earlier for the award of any other degree in any other university.

Place *Edappally*
Date *27/8/21*

Manjusha
Dr. MANJUSHA M V
Assistant Professor
Dept. of Physics
The Cochin College
Cochin- 682 002
Assistant Professor
Dept. of Physics
The Cochin College, Koovapadam



DEPARTMENT OF PHYSICS
COCHIN COLLEGE, KOOVAPADAM

CERTIFICATE

This is to certify that this project report entitled "CHARACTERISATION OF BISMUTH FERRITE DOPED WITH COBALT" is an authentic record of project work carried out by Ms MIRUTHUSA MARY (Reg.No.SHATMPH010), student of Master of Science in physics, Department of physics, Sacred Heart College Chalakudy, successfully completed under my supervision in the department of physics, Cochin College, Koovapadam. The content of this project has not been included in any other project report submitted previously for the award of any degree.

Place Edappally

Date 26/08/21


Dr. MANJUSHA M V
Assistant Professor
Department of Physics
The Cochin College
KOOVAPADAM

Assistant Professor

Department of Physics

The Cochin College, Koovapadam





**PG & RESEARCH DEPARTMENT OF
PHYSICS**
**SACRED HEART COLLEGE,
THEVARA MAHATMA GANDHI
UNIVERSITY, KOTTAYAM
KOCHI-682 013, KERALA, INDIA
Mob: +91-9746445455**

Dr. Sumod S G
Assistant Professor & Research Guide
Space Science Group
sumod.sg@shcollege.ac.in

30th August 2021

CERTIFICATE

This is to certify that this project report entitled “**TEMPORAL EVOLUTION OF TEC OVER THEVARA IN INDIA**’ is an authentic record of project work carried out by **RIYA JOY K** (Reg.No.SHATMPH011), student of Master of Science in Physics, Department of Physics, Sacred Heart College, Chalakudy during the year 2019-‘21 under my guidance in the Department of Physics, Sacred Heart College, Thevara.

Dr. Sumod SG



Assistant Professor
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CERTIFICATE

This is to certify that this project report entitled **“SYNTHESIS AND CHARACTERIZATION OF TiO₂ NANOPARTICLES BY SOL-GEL METHOD”** is an authentic record of project work carried out by Ms. Riya Rappai, student of Master of Science in Physics, Department of Physics, Sacred Heart College, Chalakudy, successfully completed under my supervision in the Department of Physics, Nirmala College, Muvattupuzha. The contents of this project work have not been presented earlier for the award of any other degree in any other University.



Dr. Radhu. S
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Department of Physics
Nirmala College, Muvattupuzha



AQAR 2020-21

ECONOMICS

Criterion I - Curricular Aspects

SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

1.3.3 - Number of students undertaking project work/field work/internship

**DEVELOPMENT OF ADOLESCENT
GIRLS THROUGH ICDS: A CASE
STUDY OF SELECTED
ANGANAWADIS IN THRISSUR
DISTRICT**

Submitted to the University of Calicut in Partial Fulfillment of
the Award of the Degree of

BACHELOR OF ARTS IN ECONOMICS

UNIVERSITY OF CALICUT

BY

AISWARYA TS

SHASAECR01

2018-2021



**DEPARTMENT OF ECONOMICS
SACRED HEART COLLEGE CHALAKUDY**

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DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

CHALAKUDY THRISSUR

**Social Impact of lockdown in households of Chalakudy
Municipality: A Case Study**

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YEAR: 2021

Project Report

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UNIVERSITY OF CALICUT

In partial fulfillment of the requirement for the award of

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DEPARTMENT OF ECONOMICS,

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**Social Impact of lockdown in households of Chalakudy
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**Social Impact of lockdown in households of Chalakudy
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DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

CHALAKUDY THRISSUR

**Social Impact of lockdown in households of Chalakudy
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BACHELOR OF ARTS IN ECONOMICS



DEPARTMENT OF ECONOMICS,

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**IMPACT OF COVID-19 ON DAILY- WAGE
EARNERS OF KODAKARA PANCHAYAT**

BY

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YEAR: 2018-2021

PROJECT REPORT

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UNIVERSITY OF CALICUT

*A partial fulfillment of the requirement for the award of
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BACHELOR OF ARTS IN ECONOMICS



DEPARTEMENT OF ECONOMICS

SACRED HEART COLLEGE

CHALAKUDY, THRISSUR

IMPACT OF COVID-19 ON DAILY- WAGE EARNERS OF KODAKARA PANCHAYAT

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YEAR: 2018-2021

PROJECT REPORT

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DEPARTEMENT OF ECONOMICS

SACRED HEART COLLEGE

CHALAKUDY, THRISSUR

**A STUDY ABOUT THE ASSESSMENT OF THE EFFECT OF
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PROJECT REPORT

SUBMITTED TO THE CALICUT UNIVERSITY IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE AWARD OF THE DEGREE OF
BACHELOR OF ARTS IN ECONOMICS

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2018-2021



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IMPACT OF COVID-19 ON DAILY- WAGE EARNERS OF KODAKARA PANCHAYAT

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YEAR: 2018-2021

PROJECT REPORT

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*A partial fulfillment of the requirement for the award of
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DEPARTEMENT OF ECONOMICS

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**DEPARTMENT OF ECONOMICS
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IMPACT OF COVID-19 ON DAILY- WAGE EARNERS OF KODAKARA PANCHAYAT

BY

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YEAR: 2018-2021

PROJECT REPORT

SUBMITTED TO

UNIVERSITY OF CALICUT

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BACHELOR OF ARTS IN ECONOMICS

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2018-2021



DEPARTMENT OF ECONOMICS
SACRED HEART COLLEGE, CHALAKUDY

**CHOICE BASED CREDIT
SEMESTER SYSTEM FOR UNDERGRADUATE
PROGRAMME**

**of
UNIVERSITY OF CALICUT**



REVISED CURRICULUM

For

**BA Economics/Development
Economics/Economics with Foreign
Trade/Economics with Islamic Finance
(2014-15 Admissions Onwards)**

Under

**Calicut University Regulations for
Choice Based Credit Semester System
For Under-Graduate Curriculum 2014
(CUCBCSS UG - 2014)**

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University of Calicut
Board of Studies in Economics (UG)

Revised Curriculum of Undergraduate Programme in Economics
Effective from 2014-15 Admissions

Economics is an integral part of a well-rounded liberal arts education and has emerged as one of the most sought after subjects of study in social sciences. Economics is about choice and is at the heart of all decision-making. Individuals, businesses and governments are all faced with making choices in situations where resources are scarce and as a result economics is applicable in a wide range of fields including business, finance, administration, law, local and national government and indeed most aspects of everyday life. Increasingly, policy debate in all areas is being cast in economic terms and understanding most current issues requires an understanding of economics.

Economics is valuable not only for the topics it studies, but also for its methods of analysis. The processes economists use in constructing models, analyzing arguments and testing empirical predictors against available evidence develop several important skills. Employers are particularly keen on graduates with good analytical and problem solving skills, which are emphasized in Economics teaching.

Economics is a field of growing importance as preparation for both a variety of careers and programs of advanced study. The discipline occupies a strategic place among the social sciences, and is important to the study of the humanities as well. Many careers which require the understanding and analysis of contemporary events will also be enhanced by the study of economics. These include such professions as law, journalism, public policy, diplomacy, education, environmental science, medical administration, and international affairs. Since economic institutions are an important element of any larger social or political system, and since major social and political changes are often influenced by economic forces, an understanding of economics is important for mastery of these related disciplines. Economics provides a better understanding of the economic and public policy environment in which virtually every profession will be pursued. Hence, economics courses should be an integral part of any undergraduate course of study.

Regular updation of both Curriculum and Syllabus in Economics is unavoidable because the subject of Economics has a rapid growth as compared to most of the other social sciences and also being a discipline that touches day-to-day human lives in every society. Accordingly, timely modifications and updations are to be made in the curriculum in tune with latest developments in economic thought, techniques and methods of analysis and the rapidly changing socio-economic environment.

The revised syllabus is the outcome of a series of sittings of Board members and consultations with the faculty members handling various papers and experts in respective areas. The draft syllabus has been sent to the faculty in different colleges for their expert opinion and suggestions. Valuable comments and suggestions given by them have been incorporated in the syllabi before finalizing it. I express my sincere gratitude to the members of the Board of Studies in Economics (UG), experts from different fields and economics faculty of various colleges for the help and support extended by them in realizing it.

Dr. P. P. Yusuf Ali
Chairman, Board of Studies in Economics (UG)
University of Calicut

Board of Studies in Economics (UG)		
Sl.No.	Name	Official Address
1.	Dr. P.P. Yusuf Ali Associate Professor (Chairman)	Dept of Economics Farook College, Calicut
2.	C. S. Ajith Kumar Associate Professor	Department of Economics, Sree Vyasa College, Vadakkancherry
3.	Dr. K. M. Francis Associate Professor	Department of Economics, St Thomas College, Thrissur.
4.	U. Aboobacker Associate Professor	Department of Economics MES Asmabi College, Kodungallur
5.	Dr. Chacko Jose P. Associate Professor	Department of Economics, Sacred Heart College, Chalakudy
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7.	Mrs. P. C. Thankam Associate Professor	Department of Economics NSS College, Ottapalam
8.	Mohamed Najeeb P. M. Associate Professor	Department of Economics, EMEA College, Kondotty
9.	Dr. K. P. Vipin Chandran Assistant Professor	Department of Economics, Govt. College, Elerithattu
10.	Shibinu S. Assistant Professor	Department of Economics, PSMO College, Tirurangadi
11.	Dr. D. Retnaraj Associate Professor	Head, Department of Economics, John Mathai Centre, Thrissur

Revised Curriculum of BA Programme in Economics Effective from 2014-15 Admissions

Aims and Objectives

Keeping pace with the rapid changes that are taking place in economic and political spheres across the globe, the subject of Economics is undergoing swift changes, which warrants constant updating of the curriculum. The principal aims and objectives of BA Programme in economics are:

- Imparting knowledge of fundamental concepts and theoretical propositions
- An understanding of the methodology by which economic ideas are framed, tested and modified.
- To provide the students an opportunity to take up a career in economics and related areas.
- An understanding of the economic issues of national and international importance and realize the dynamics behind them.
- To develop the capacity to analyze the socio-political and economic issues in the language of an economist.
- To provide an opportunity to understand how the economic policies of the government and governmental institutions affect the common people.
- To provide an opportunity to venture into research in economics and there by contribute to the creation of knowledge.
- An understanding of the institutions – social, political and economic, that influence economic issues.

BA Programmes in Economics

The board is presenting revised syllabus for four BA Economics Programmes with different specializations:

1. BA Economics (Regular)
2. BA Development Economics
3. BA Economics with Foreign Trade
4. BA Economics with Islamic Finance

While most of the core papers remain part of all the programmes, there are some additional courses depending upon the specializations. While BA Development Economics has some additional courses related to development issues, BA Economics with Foreign Trade specializes in foreign trade practices. BA Economics with Islamic Finance is a new programme with specialization in Islamic finance. All the three programmes (BA Development Economics; BA Economics with Foreign Trade and BA Economics with Islamic Finance) are equivalent to BA Economics (Regular) programme for the purpose of employment and higher studies.

Course Structure

The Programme consists of the following courses:

- a) Common Courses b) Core Courses c) Complementary Courses
 d) Open Course e) Project

Altogether there will be 34 courses in the Programme with 14 Core Courses, 10 Common Courses, 2 Complementary Courses (spread over 4 semesters), 1 Elective course and 1 Open Course. Open courses are the courses offered by a department to the students of other departments. Students can select a course of their own choice offered by other departments. The Project work/visit is to be handled by the Economics faculty in each college. A detailed break up of courses is presented in table 1.

Table 1. Scheme of BA Economics Programme

Semester	Course	Course Code	Title of Paper	Hours per Week	Credits	Max. Marks		
						IE*	EE**	Total
I Semester	Common I	ECO1 A01	English	4	3	20	80	100
	Common II	ECO2 A02	English	5	3	20	80	100
	Common III	ECO3 A03	Second Language	4	4	20	80	100
	Core I	ECO1 B01	Microeconomics - I	6	5	20	80	100
	Complementary I	ECO1 C01		3	2			
	Complementary II	ECO1 C02		3	2			
* Internal Evaluation, ** External Evaluation								
II Semester	Common IV	ECO2 A04	English	5	4	20	80	100
	Common V	ECO2 A05	English	4	4	20	80	100
	Common VI	ECO2 A06	Second Language	4	4	20	80	100
	Core 2	ECO2	Microeconomics - II	6	5	20	80	100

		B02						
	Complementary I	ECO2 C03		3	2	20	80	100
	Complementary II	ECO2 C04		3	2	20	80	100
III Semester	Common VII	ECO3 A07	English	5	4	20	80	100
	Common VIII	ECO3 A08	Second Language	5	4	20	80	100
	Core 3	ECO3 B03	Quantitative Methods for Economic Analysis - I	5	4	20	80	100
	Core 4	ECO3 B04	Modern Banking and Insurance	4	4	20	80	100
	Complementary I	ECO3 C05		3	2			
	Complementary II	ECO3 C06		3	2			
IV Semester	Common IX	ECO4 A09	English	5	4	20	80	100
	Common X	ECO5 A10	Second Language	5	4	20	80	100
	Core 5	ECO4 B05	Quantitative Methods for Economic Analysis - II	5	4	20	80	100
	Core 6	ECO4 B06	Computer Application for Economic Analysis	4	4	20	80	100
	Complementary I	ECO4 C07		3	2	20	80	100
	Complementary II	ECO4 C08		3	2	20	80	100

V Semester	Core 7	ECO5 B07	Macroeconomics - I	6	4	20	80	100
	Core 8	ECO5 B08	India's Economic Development: National and Regional **	6	4	20	80	100
	Core 9	ECO5 B09	Economics of Capital Market	5	4	20	80	100
	Core 10	ECO5 B10	International Economics	5	4	20	80	100
	Open (To choose 1 out of 3)	ECO5 D01 ECO5 D02 ECO5 D03	Economics in Everyday Life International Trade and Finance Banking	2	2	10	40	50
	Project Work		To be continued in VI th Sem	1				
VI Semester	Core 11	ECO6 B11	Macroeconomics - II	5	4	20	80	100
	Core 12	ECO6 B12	Mathematical Economics	5	4	20	80	100
	Core 13	ECO6 B13	Public Finance	5	4	20	80	100
	Core 14	ECO6 B14	Development Economics	5	4	20	80	100
	Elective (To choose 1 out of 3)	ECO6 E01 ECO6 E02 ECO6 E03	Environmental Economics Applied Theory of Markets Economics of Business and Finance	3	2	20	80	100
	Project Work	ECO6 B15 (Pr)	Individual/Group activity	2	4	10	40	50
Total Credits					120			

** A compulsory study tour is recommended as part of the paper entitled "India's Economic Development- National and Regional" in the Fifth Semester and the tour report should be submitted to the Head of the Department soon after the tour.

CORE COURSES

- **ECO1 B01 - Micro economics I**
- **ECO2 B02 - Micro economics II**
- **ECO3 B03 - Quantitative Methods for Economic Analysis I**
- **ECO3 B04 – Modern Banking and Insurance**
- **ECO4 B05 - Quantitative Methods for Economic Analysis II**
- **ECO4 B06 – Computer Application for Economic Analysis**
- **ECO5 B07 - Macro economics I**
- **ECO5 B08 - India’s Economic Development: National and Regional**
- **ECO5 B09 - Economics of Capital Market**
- **ECO5 B10 – International Economics**
- **ECO6 B11 - Macro economics II**
- **ECO6 B12 – Mathematical Economics**
- **ECO6 B13 – Public Finance**
- **ECO6 B14 – Development Economics**
- **ECO6 B15 - Project**

Complementary Courses

The following complementary courses are suggested with the option for choice (**two complementary courses can be selected**). The syllabus for complementary courses of sister departments are prepared by the respective Boards of studies.

- **History**
- **Political Science**
- **Sociology**
- **Essentials of Economics (For Non-Economics Programmes)**
- **Mathematical tools for Economics (C01)**
- **Co-operation (C02)**
- **Banking (C03)**

Colleges can choose from the above complementary courses offered by the University without affecting the existing workload.

Open Courses

During the Vth Semester three Open courses are offered to the students of other departments. Colleges can choose any one course from the three listed below.

- **ECO5 D01 - Economics in Everyday Life**
- **ECO5 D02 - International Trade and Finance**
- **ECO5 D03 - Banking**

Elective Courses

During VIth Semester three elective courses are offered for BA Economics Programme. Colleges can choose any one course from the three listed below.

- **ECO6 E01 – Environmental Economics**
- **ECO6 E02 – Applied Theory of Markets**
- **ECO6 E03 – Economics of Business and Finance**

Assessment and Evaluation

Assessment and evaluation of the course shall be according to the CUCBCSS UG-2014 Regulations of the University of Calicut. As per the regulations evaluation of the course shall contain two parts: Internal Evaluation and External Evaluation. The Internal examination shall have a weightage of 20% and the remaining 80% for external evaluation. External Evaluation is done by the University through End Semester examination through indirect grading system based on 7-point scale (A⁺, A, B, C, D, E or F), as suggested by the Regulations 2014.

Internal assessment is done through the system of continuous assessment of the following four components, with a maximum of 20 marks, split up as presented in table 2.

Table 2. Percentage Distribution of Internal Marks

Components	Marks
Attendance	25 %
Assignment, Seminar, Viva- Voce	25 %
Test Paper	50 %

Attendance of each course will be evaluated and marks assigned as per the norms presented in table 3.

Table 3. Percentage Distribution of Marks for Attendance

Attendance	Marks
Above 90%	100%
85-89%	80%
80-84%	60%
76-79%	40%
75%	20%

Both internal and external evaluation is carried out using the mark system. The grading on the basis of total marks scored in internal and external examinations will be done by the University for each Course and for each semester, using a 7- point scale indirect grading system as presented in table 4.

Table 4. Distribution of Marks, Grades and Grade Points

Percentage of Marks	Grade	Interpretation	Grade Point Average	Range of Grade Points	Class
90 and above	A ⁺	Outstanding	6	5.5 - 6	First Class with Distinction
80 – below 90	A	Excellent	5	4.5 - 5.49	
70 – below 80	B	Very Good	4	3.5 – 4.49	First Class
60 – below 70	C	Good	3	2.5 – 3.49	
50 – below 60	D	Satisfactory	2	1.5 – 2.49	Second Class
40 – below 50	E	Pass/Adequate	1	0.5 – 1.49	Pass
Below 40	F	Failure	0	0 – 0.49	Fail

The minimum required percentage of attendance for appearing in the various semester examinations is fixed as 75.

Assignment : Best of the two assignments is considered per course.

Seminar : The student has to take a minimum of one seminar per course.

Test paper : A minimum of two class tests are to be attended. The grades of best two tests are to be taken.

External Examination: Question Pattern

The questions of external evaluation should aim at assessment of knowledge, standard application of knowledge and application of knowledge in new situations. Question paper should be a judicious mix of objective type, short answer type, short essay type/problem solving type and long essay type questions. Different types of questions shall be given different weights to quantify their range. The question setter shall submit a detailed scheme of evaluation along with the question paper.

- All examinations will have duration of 3 hours, except open course, for which examination will be of 2 hours duration. Maximum marks for all courses will be 80 except open course, for which maximum marks will be 50.
- Each question paper will have four parts A, B, C and D
- Part A contains 12 objective type questions for which the candidate has to answer all the questions. Each question carries $\frac{1}{2}$ marks.
- Part B contains twelve very short answer type questions and the candidates have to answer ten questions. Each question carries two marks.
- Part C contains eight short essay/problem type questions and the candidates have to answer six questions. Each question carries five marks.
- Part D contains four essay type questions and the candidates have to answer two questions. Each question carries 12 marks.

Table 5. Question Pattern for External Evaluation

Type of Question	Questions to be Given	Questions to be Answered	Marks for each Question	Total Marks
Objective Type	12	12	$\frac{1}{2}$	6
Very Short Answer	12	10	2	20
Short Essay	8	6	5	30
Essay	4	2	12	24
Total	36	30		80

Table 6. Question Pattern for External Evaluation (Open Course)

Type of Question	Questions to be Given	Questions to be Answered	Marks for each Question	Total Marks
Objective Type	10	10	$\frac{1}{2}$	5
Very Short Answer	12	10	2	20
Short Essay	6	3	5	15
Essay	2	1	10	10
Total	36	30		80

Study Tour

A compulsory study tour is recommended as part of the paper entitled "India's Economic Development- National and Regional" in the Fifth Semester and the tour report should be submitted to the Head of the Department soon after the tour.

Project - EC6 B15 (Pr)

As part of the requirements for BA Programme every student must do a project either individually or as a group, under the supervision of a teacher. Project work is meant for providing an opportunity to approach and study a problem in a systematic and scientific manner. It provides them an opportunity to apply the tools they have studied and learn the art of conducting a study and presenting the report in a structured way. The report of the project, completed in every respect, is to be submitted to the department for valuation by the examiners appointed by the University.

PROJECT GUIDELINES:

1. Project work may be done either individually or as a group of students not exceeding 5 in number.
2. The topic of the project should be on economic issues either theoretical or case study type.
3. Students should be properly oriented on the methodology of conducting a study during the Vth Semester, making use of the hours allotted for the purpose.
4. The Project work should be completed by the end of the VI semester and the report should be submitted to the Department before 31st March of the year concerned.
5. The project report should be either printed or typed in English.
6. A copy of the project report in English (printed or typed) should be submitted by the student/team on or before 31 March of the year concerned.
7. The valuation of the project will be done at two stages:
 - a. Internal evaluation (supervising teachers will assess the project and award grades)
 - b. External evaluation (The team will comprise of an external examiner appointed by the University and the HOD of the institution concerned or his nominee)
 - c. A Viva voce related to the project work will also be conducted by the external evaluation team. All candidates should undergo the Viva voce test individually.
 - d. Grades will be awarded to candidates combining the internal grade, team grade and Viva voce grade.
8. Length of the project report - 20 to 35 typed pages (Paper A4, Times New Roman, Font size 12, line spacing 1.5). The report may be organized in 3 chapters(minimum).The use of simple statistical tools in data analysis may be encouraged.

9. Project evaluation and the Viva voce should be conducted immediately after the completion of the regular classes /written examination.
10. The chairman of the VI semester exam should form and coordinate the evaluation teams and their work.
11. The project external evaluation should be completed before the commencement of the centralized valuation.
12. External Examiners will be appointed by the University from the list of VI semester Board of Examiners in consultation with the Chairman of the Board.
13. Student for viva-voce are compulsory for internal evaluation.
14. The internal to external is to be taken in the ration of 1:4. Assessment of different components may be done as given below.

Table 5. Details of the Assessment of Project Report

Internal (20% of total)		External (80% of total)	
Component	% of Marks	Component	% of Marks
Punctuality	20	Relevance of the Topic, Statement of Objectives, Methodology (Reference/Bibliography) Statement of Objectives, Methodology	20
Use of Data	20	Presentation, Quality of Analysis/Use of Statistical Tools, Findings and recommendations.	30
Scheme/Organization of Report	30	Viva-voce	50
Viva-voce	30		

Basic Ingredients of a Project Design

The project work can be designed by considering the following elements.

1. Selection of a Topic
2. Pilot Survey – a trial run of questionnaire / interviews
3. Significance / relevance of the Study
4. Review of Related Literature
5. Formulation of Research Questions
6. Research Objectives (Minimum 2)
7. Coverage (Universe / Sample & period of study)

8. Data source (Primary/Secondary)
9. Methods of Analysis i.e., Tools and Techniques
10. Limitations of the study
11. Chapter outline
12. Data Analysis/Result Chapter(s)
13. Conclusion

Structure of the Report

The report should be organized in the following sequence:

- i) Title page
- ii) Name of the candidate, Name and designation of the supervising teacher
- iii) Declaration of the student and certificate of the supervising teacher
- iv) Acknowledgements
- v) List of tables, List of figures, table of contents
- vi) Introduction
- vii) Significance of the study
- viii) Related works, if any
- ix) Objectives, methodology and data sources
- x) Chapter scheme
- xi) Main text, summary conclusions and recommendations
- xii) Bibliography

Semester VI

Project Work ECO6 B15 (Pr)

Detailed guidelines for the conduct of the project work are presented in page No.14. The general guidelines of the project are also presented in the CUCBCSS UG, Revised Regulations - 2014.

**AN APPRAISAL OF FARMERS PARTICIPATION IN AGRICULTURE:
A CASE STUDY OF PARIYARAM PANCHAYATH**

By

AISWARYA M.S.

REGISTER NO: SHATMEC001

YEAR: 2021

Project Report

Submitted to

UNIVERSITY OF CALICUT

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

MASTER OF ARTS IN ECONOMICS



DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

Chalakudy, Thrissur

**ENTREPRENEURSHIP AMONG RURAL WOMEN: A CASE
STUDY OF KODASSERY GRAM PANCHAYAT**

By

ANGEL MARIA

REGISTER NO: SHATMEC002

YEAR: 2021

Project Report

Submitted to

UNIVERSITY OF CALICUT

In partial fulfillment of the requirement for the award of degree

Of

MASTER OF ARTS IN ECONOMICS



DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

Chalakudy, Thrissur

**A STUDY ON CUSTOMER SATISFACTION REGARDING
ELECTRONIC BANKING SERVICES IN RURAL HOUSEHOLDS**

By

AN MARIYA VARGHESE

REGISTER NO: SHATMEC003

YEAR: 2021

Project Report

Submitted to

UNIVERSITY OF CALICUT

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

MASTER OF ARTS IN ECONOMICS



DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

Chalakudy, thrissur

**PROBLEMS AND PROSPECTS OF KHADI INDUSTRY ;
A CASE STUDY OF KHADI INDUSTRIAL UNIT IN
ALATHUR**

By

ANUKRISHNA P.A

REGISTER NO: SHATMEC004

YEAR: 2021

Project Report

Submitted to

UNIVERSITY OF CALICUT

**In partial fulfillment of the requirement for the award of degree of
MASTER OF ARTS IN ECONOMICS**



DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

Chalakudy, Thrissur

**CONSUMPTION PATTERN OF CONSUMERS DURING PANDEMIC SITUATION :A
CASE STUDY IN CHALAKUDY MUNICIPALITY**

By

DILNA DINESH

REGISTER NO: SHATMEC005

YEAR: 2021

Project Report

Submitted to

UNIVERSITY OF CALICUT

**In partial fulfillment of the requirement for the award of degree of
MASTER OF ARTS IN ECONOMICS**



DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

Chalakudy, Thrissur

**THE SOCIO ECONOMIC CONDITIONS OF MIGRANT WORKERS: A
CASE STUDY OF KORATTY PANCHAYATH**

By

MANEESHA TM

REGISTER NO: SHATMEC006

YEAR: 2021

Project Report

Submitted to

UNIVERSITY OF CALICUT

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

MASTER OF ARTS IN ECONOMICS



DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

Chalakudy, Thrissur

**WOMEN EMPOWERMENT THROUGH KUDUMBASREE: A CASE
STUDY OF ALOOR GRAMAPANCHAYAT**

By

NAMITHA SUNNY

REGISTER NO: SHATMECOO7

YEAR : 2021

Project Report

Submitted to

UNIVERSITY OF CALICUT

**In partial fulfillment of the requirement for the award of
MASTER OF ARTS IN ECONOMICS**



DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

Chalakudy, Thrissur

**"SMALL RUBBER GROWERS AND RUBBER PRODUCERS' SOCIETIES IN
KERALA"; A CASE STUDY OF KORATTY PANCHAYATH.**

By

SARANYA K S

REGISTER NO: SHATMEC008

YEAR: 2021

Project Report

Submitted to

UNIVERSITY OF CALICUT

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

MASTER OF ARTS IN ECONOMICS



DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

Chalakudy, thrissur

**A COMPARATIVE ANALYSIS OF THE SERVICES OF
THAZHEKKAD
SERVICE CO-OPERATIVE BANK AND THE RESULTANT
CUSTOMER'S SATISFACTION**

By

SWATHY T.S

REGISTER NO: SHATMECOO9

YEAR: 2021

Project Report

Submitted to

UNIVERSITY OF CALICUT

**In partial fulfillment of the requirement for the award degree of
MASTER OF ARTS IN ECONOMICS**



DEPARTMENT OF ECONOMICS

SACRED HEART COLLEGE

Chalakudy, thrissur

UNIVERSITY OF CALICUT
POSTGRADUATE PROGRAMME
IN
M A ECONOMICS
CHOICE BASED CREDIT SEMESTER SYSTEM
(CBCSS)



SCHEME & SYLLABUS
(2019-20 Academic Year onwards in Affiliated Colleges)

CONTENTS

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Members of the Board of Studies	4
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PREFACE

The Master of Arts (M A) in Economics is a two-year full-time programme, with each year comprising of two semesters. Regular updation of both curriculum and syllabus in economics is unavoidable because the subject of economics has a rapid growth compared to most of the other fields in social sciences. Accordingly, timely modifications and updations are to be made in the curriculum in tune with the latest developments in economic theories, techniques and methods of analysis and the rapidly changing global economic environment.

The present syllabus is designed after making a thorough review of the existing curriculum and as per the CBCSS PG Regulations 2019. It incorporates a wide range of electives for the students. Thoroughly revised contents, evaluation schemes, model question papers and a format to prepare the dissertation are the major components of the new syllabus. The revised syllabus is the outcome of a series of sittings of the members of the board of studies and consultations with the faculty members handling various papers and experts in the respective areas. The draft syllabus has been sent to the faculty in different colleges for their expert opinion and suggestions.

Valuable comments and suggestions given by them have been incorporated in the syllabi before finalizing it. I express my deep sense of gratitude to the members of the Board of Studies in Economics (PG), experts from different fields and economics faculty of various colleges for the help and support extended by them in materializing it.

Dr KX Joseph
Chairman, Board of Studies in Economics (PG)
University of Calicut

MEMBERS OF THE P G BOARD OF STUDIES IN ECONOMICS

1. Dr K X Joseph, Prof: of Economics (Rtd) Dr John Matthai Centre (Chairman)
2. Shri. Rajasekharan P V, Associate Professor, SKVC, Thrissur.
3. Shri. Bose Rapheal, HOD, Christ College, Irinjalakkuda.
4. Dr D Shyjan, HOD, Department of Economics, Dr John Matthai Centre.
5. Dr Shibi M Thomas, Associate Professor, St. Joseph's College, Devagiri.
6. Dr C Krishnan, Associate Professor, Govt College, Kodanchery.
7. Shri Mohammed Najeeb P M, Asso: Professor, EMEA College, Kondotty.
8. Smt. P K Prasanna, Associate Professor, Govt College, Pattambi.
9. Dr K P Shabeer, Assistant Professor, Govt College, Kodancherry.
10. Dr Shibinu S, Assistant Professor, PSMO College, Thirurangadi.
11. Dr C P James, Associate Professor, St Aloysius College, Elthuruth.

ELIGIBILITY CRITERIA WITHOUT ENTRANCE**UNDER MARK SYSTEM**

BA degree of this university with Economics/Foreign Trade/Development Economics (Main) or equivalent degree with at least 45% marks for Part III (excluding subsidiaries) Or BSc degree of this University with Statistics/Mathematics (Main) or equivalent degree with at least 70% marks for Part III (excluding subsidiaries). OBC/OEC candidates are eligible to relaxation up to 5%. SC/ST candidates need only to get a pass.

UNDER GRADE SYSTEM

BA degree of this university with Economics/Foreign Trade/Development Economics (Main) or equivalent degree with Overall CGPA, at least equivalent to 50% or BSc degree of this University with Statistics/Mathematics (Main) or equivalent degree with equivalent grade to 70%. OB/OEC candidates are eligible for relaxation up to 5%. SC/ST candidates need only to get a pass.

LANGUAGE OF EXAMINATION

The language of writing the examination shall be English only.

**MA ECONOMICS (CBCSS) 2019-20 ADMISSION-SCHEME OF THE
PROGRAMME**

Semester	Name of the Course	Credit	Hours/ Week	Total Weightage	
				External	Internal
I	ECO1C01 Microeconomics: Theory and Applications I	5	7	30	5
	ECO1C02 Macroeconomics: Theories and Policies I	5	6	30	5
	ECO1C03 Indian Economy: Problems and Policies	5	6	30	5
	ECO1C04 Quantitative Methods for Economic Analysis I	4	6	30	5
	Ability Enhancement Course	4*			
II	ECO2C05 Microeconomics: Theory and Applications II	5	6	30	5
	ECO2C06 Macroeconomics: Theories and Policies II	5	6	30	5
	ECO2C07 Public Finance: Theory and Practice	5	7	30	5
	ECO2C08 Quantitative Methods for Economic Analysis II	5	6	30	5
	Professional Competency Course	4*			
III	ECO3C09 International Trade	5	6	30	5
	ECO3C10 Growth and Development	5	6	30	5
	ECO3C11 Basic Econometrics	5	7	30	5
	Elective I	4	6	30	5
IV	ECO4C12 International Finance	3	6	30	5
	ECO3C13 Financial Markets	3	6	30	5
	Elective II	4	6	30	5
	Elective III	4	6	30	5
	ECO4P14 Project	4	1	4	1
	ECO4V15 Comprehensive Viva Voce	4			
	Total Credits	80			

20 hours are allotted for seminars for each course per semester.

@ Three elective courses to be selected from the 14 courses appended.

*The credits will not be counted for evaluating the overall SGPA & CGPA

EVALUATION SCHEMES

COURSE EVALUATION (INTERNAL)

COMPONENT	WEIGHTAGE
Assignment	1
Seminar	1
Attendance	1
Test Papers (2)	2
Total	5

COURS EVALUATION (EXTERNAL)

PART	COMPONENT	WEIGHTAGE
A	12 Questions x 1/4	3
B	5 Questions x 1	5
C	7 Questions x 2	14
D	2 Questions x 4	8

Part A (Multiple Choice Questions)

Answer all 12 Questions

(12 x ¼ Weightage = 3 Weightage)

Part B (Very Short Answer Questions)

Answer any 5 questions out of 8 questions

(5 questions x 1 = 5 Weightage)

Part C (Short Answer Questions)

Answer any 7 questions out of 10 questions

(7 questions x 2 = 14 Weightage)

Part D (Essay Questions)

Answer any 2 questions out of 4 questions.

(2 questions x 4 = 8 Weightage)

Total = 30 Weightage

PROJECT EVALUATION (INTERNAL AND EXTERNAL)

Sl No	Criteria	Weightage	Weightage External	Weightage Internal
1	Relevance of the Topic and Statement of the Problem	60%	8	2
2	Methodology and Analysis		8	2
3	Quality of Report and Presentation		8	2
4	Viva-voce	40%	16	4
5	Total Weightage	100%	40	10

EVALUATION OF AUDIT COURSES

Evaluation and grading of students in audit courses may be done on the basis of a presentation made by the students about Ability Enhancement Course (AEC) and Professional Competency Course (PCC) undertaken. Minimum pass requirement in each audit course is 1.5 credits.

LIST OF CORE COURSES

1. Course I - ECO1C01-Microeconomics: Theory and Applications I
2. Course II - ECO1C02- Macroeconomics: Theories and Policies I
3. Course III - ECO1C03- Indian Economy: Problems and Policies
4. Course IV- ECO1C04- Quantitative Methods for Economic Analysis-I
5. Course V- ECO2C05- Microeconomics: Theory and Applications II
6. Course VI - ECO2C06- Macroeconomics: Theories and Policies II
7. Course VII - ECO2C07- Public Finance: Theory and Practice
8. Course VIII - ECO2C08- Quantitative Methods for Economic Analysis-II
9. Course IX- ECO3C09- International Trade
10. Course X- ECO3C10- Growth and Development
11. Course XI- ECO3C11- Basic Econometrics
12. Course XII- ECO4C12- International Finance
13. Course XIII- ECO4C13- Financial Markets
14. Course XIV- ECO4P14- Project
15. Course XV- ECO4V15- Comprehensive Viva Voce

LIST OF ELECTIVE COURSES

1. Course I - ECO4E01-Advanced Econometrics
2. Course II - ECO4E02- Agricultural Economics
3. Course III- ECO3E03- Banking: Theory and Practice
4. Course IV - ECO4E04- Business Economics
5. Course V- ECO4E05- Demography
6. Course VI - ECO4E06- Environmental Economics
7. Course VII - ECO4E07- Gender Economics
8. Course VIII - ECO4E08- Health Economics
9. Course IX - ECO4E09- Industrial Economics
10. Course X - ECO4E10- Labour Economics
11. Course XI- ECO4E11- Mathematical Economics
12. Course XII- ECO4E12- Political Economy of Development
13. Course XIII - ECO4E13- Regional Economics
14. Course XIV - ECO4E14- Research Methodology & Computer Applications.

AUDIT COURSES

The students will have to undergo two audit courses with 4 credits each. The credits will not be counted for evaluating the overall SGPA & CGPA. Audit courses are not part of the normal workload.

GENERAL GUIDELINES

Semester I: Ability Enhancement Course (AEC) 4 Credits

The student can attempt any one of the following for securing 4 credits.

1. An internship in an academic/research institution or in any related organization suitable to the topic under study, under a supervisor/teacher official.
2. One seminar presentation of 15 minutes duration, on a relevant topic.
3. One case study analysis approved by the Department Council.
4. Community Linkage Programme in a nearby Local Government.
5. Review of one recently published book related to Economics.

Semester II: Professional Competency Course (PCC) 4 Credits

The student should acquire skill in at least one of the software such as SPSS/R/Econometrics/Python/Stata or any software relevant to Economics and use the software to do any one of the following with the help of a supervising teacher.

1. Calculation of descriptive measures in statistics.
2. Calculation of correlation and regression.
3. Fitting of normal curve and parabola.
4. Perform ANOVA.
5. Multiple regression models.
6. Calculation of growth rate, elasticity etc.
7. Perform t , chi square and F test.
8. Perform any non-parametric test.

M A ECONOMICS PROJECT FORMAT

STRUCTURE OF THE PROJECT

Cover Page and Front Page

- a. Title of the project
- b. Degree for which project is submitted.
- c. Name of the Candidate & Roll Number
- d. Name of the College
- e. Month and year the project is presented

Contents

- a. Certificate of the supervising teacher.
- b. Certificate of the head of the department.
- c. Declaration by the student.
- d. Acknowledgement.
- e. Table of Contents
- f. List of Tables
- g. List of Figures
- h. Introductory Chapter
- i. Analyses Chapters
- j. Concluding Chapter
- k. Bibliography
- m. Appendix

CONTENTS OF THE INTRODUCTORY CHAPTER

1. Introduction
2. Statement of objectives
3. Hypotheses (optional)
4. Methodology
 - a. Data sources (primary/secondary)
 - b. Tools of analysis (statistical & mathematical)
5. Scope of the study (sample size & period of study)
6. Significance of the study
7. Limitations of the study
8. Conceptual framework-Optional (specification of terms and concepts)
10. Review of literature (references are to be given in footnotes)
11. Chapter outlines.

STYLE OF PRESENTATION

1. Report Length: 50 to 70 pages excluding Appendix and Certificates
2. Alignment: Justify
3. Font: Times New Roman
4. Font size: 12
5. Line spacing: 1.5



AQAR 2020-21

CHEMISTRY

Criterion I - Curricular Aspects

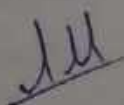
SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

1.3.3 - Number of students undertaking project work/field work/internship

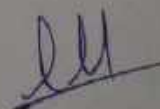
CERTIFICATE

This is to certify that the review of publication entitled "POLYPYRROLE FUNCTIONALIZED WITH FePcTSA FOR NO₂ SENSOR APPLICATION" published in Sensors and Actuators B Chemical journal in the year 2009. The research paper was originally published by the authors Santhosh Paul and Michael Joseph. The present impact factor of the journal is 7.1. The review of publication was carried out by Aleena Ros Thomas, Aliya Benny, Annjewel Babu, Anusree E A and Anupa Shylan.

It is herewith submitted to university of Calicut in partial fulfilment of the requirements for the award of degree of Bachelor of Science in Chemistry during the period of their study in the Department of Chemistry, Sacred Heart College, Chalakudy. This work has not been published or submitted for publication elsewhere as far as our knowledge is concerned.



Dr. Santhosh Paul
Review Supervisor



Head of the Department
Department of Chemistry

Place: Chalakudy

Date: 28/7/2021



Submitted for project evaluation held on

Examiners:

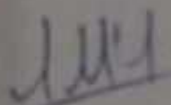
- 1) External: Balije
- 2) Dr. Balije Therakkil

Internal: MU
Dr. Santhosh Paul.

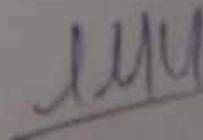
CERTIFICATE

This is to certify that the review of a publication entitled "Lithium Ion Battery" was carried out by Monica Antony, Arpitha S, Liya Joy, Aswathy K.J and Mariya Jaison P.

It is herewith submitted to university of Calicut in partial fulfilment of the requirements for the award of degree of Bachelor of Science in Chemistry during the period of their study in the Department of Chemistry, Sacred Heart College, Chalakudy. This work has not been published or submitted for publication elsewhere as far as our knowledge is concerned.



Dr. Santhosh Paul
Review Supervisor



Head of the Department
Department of Chemistry

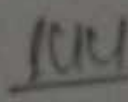
Place: Chalakudy Date: 28/7/2021



Submitted for project evaluation held on

Examiners:

- 1) External: Balis
- 2) Dr. Bolte Therathil

Internal: Dr. Santhosh Paul 

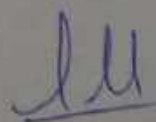
CERTIFICATE

This is to certify that the review of publication entitled "PREPARATION AND CHARACTERIZATION OF HIGHLY CONDUCTIVE TRANSPARENT FILMS WITH SINGLE-WALLED CARBON NANOTUBES FOR FLEXIBLE DISPLAY APPLICATION" published by the authors Santhosh Paul and Dong Won Kim. The review of publication was carried out by AKHILA M.S, AMALA ROSE P.R, NEERAJA K. BABU, NANDHA M.R and SURABHI V.S.

It is herewith submitted to university of Calicut in partial fulfilment of the requirements for the award of degree of Bachelor of Science in Chemistry during the period of their study in the Department of Chemistry, Sacred Heart College, Chalakudy. This work has not been published or submitted for publication elsewhere as far as our knowledge is concerned.



Dr. Santhosh Paul
Review Supervisor



Head of the Department
Department of Chemistry

Place: Chalakudy

Date: 28/7/2021



Submitted for project evaluation held on

Examiners:

- 1) External : Bobie
- 2) Dr. Bobie Therattil

Internal: Dr. Santhosh Paul LUY

CERTIFICATE

This is to certify that the review of publication entitled "CARBON NANOTUBE BASED SENSOR FOR VOLTAMMERTIC DETERMINATION OF PYRIDINE-2-ALDOXIME METHOCHLORIDE" published in Micro & Nano Letters, received on 8th July 2010; Revised on 18th August 2010. The review of publication was carried out by ANAGHA K. S, ANCY C. P, ANET BABU, ATHIRA M, ASHWINI P. A.

It is hereby submitted to university of Calicut in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Chemistry during the period of their study in the Department of Chemistry, Sacred Heart College, Chalakudy. This work has not been published or submitted for publication elsewhere as far as our knowledge is concerned.

DR. LAINA A. L.
Review Supervisor



Head of the Department

Department of Chemistry

Place: Chalakudy

Date: 28/7/2021

Submitted for project evaluation held on:

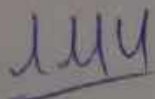
Examiners:

- 1) External: Dr. Bobie Therattil Bobie
- 2) Internal: Dr. Santhosh Paul SP

CERTIFICATE

This is to certify that the review of publication entitled "ELECTROCHEMICAL STUDIES OF TAMSULOSIN HYDROCHLORIDE USING MULTIWALLED CARBON NANOTUBE-MODIFIED GLASSY CARBON SENSOR" published in Micro & Nano Letters, received on 22nd July 2011; Revised on 10th October 2011. The review of publication was carried out by ATHIRAP.N,CHRISTEENA MARY CHACKO,DEVIKA,DIYA,MANYA MANIKANDAN ,MALAVIKA.

It is herewith submitted to university of Calicut in partial fulfilment of the requirements for the award of degree of Bachelor of Science in Chemistry during the period of their study in the Department of Chemistry, Sacred Heart College, Chalakudy. This work has not been published or submitted for publication elsewhere as far as our knowledge is concerned.



Dr. Santhosh Paul
Review Supervisor



Head of the Department
Department of Chemistry


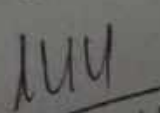
Place: Chalakudy

Date: 28/7/2021



Submitted for project evaluation held on

Examiners:

- 1) External 
Dr. Bolie Thevattil
- 2) Internal 
Dr. Santhosh Paul.

CERTIFICATE

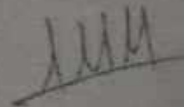
This is to certify that the review of publication entitled "CRYO ELECTRO MICROSCOPY".
The review of publication was carried out by MARIYA DAVIS, MAYADEVI V.M, ROSLIN
FRANCIS, SANDRA JOSE, T.S KAVYA, VINIYA BENNY.

It is here with submitted to University of Calicut in partial fulfilment of the requirements for the
award of degree of Bachelor of Science in Chemistry during the period of their study in the
Department of Chemistry, Sacred Heart College, Chalakudy. This work has not been published
or submitted for publication else where as far as our knowledge is concerned.



Dr. Santhosh Paul

Review Supervisor



Head of the department

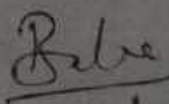
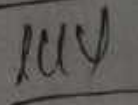
Department of Chemistry

Place: *Chalakudy*

Date: *28/7/2021*

Submitted for Project Evaluation held on

Examiners:

1. External: Dr. Bolte Therathil 
2. Internal: Dr. Santhosh Paul 

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POSTGRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY
SREE SANKARA COLLEGE

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PATRON: HIS HOLINESS JAGADGURU
SREE SANKARACHARYA MAHASWAMIGAL
SRI SARADA PEETHAM, SRINGERI

POST BOX NO. 1
KALADY-683574
ERNAKULAM DIST.
KERALA STATE
INDIA

CERTIFICATE FROM THE GUIDE

This is to certify that the project work titled “**THERMAL AND MECHANICAL PROPERTIES OF NATURAL RUBBER AND STARCH NANOBIOCOMPOSITES**” is a bonafide work of **AMRITHA RAVI, Reg no: SHATMCH004** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of University of Calicut under my guidance.

PLACE: KALADY

DATE: 11/08/2021

SMT. SEENA K. THOMAS

Assistant Professor

Department of Chemistry

Sree Sankara College



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SRI SARADA PEETHAM, SRINGERI

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KALADY – 683 574
ERNAKULAM DIST.
KERALA STATE
INDIA

CERTIFICATE FROM THE GUIDE

This is to certify that the Project Work Title “**ELECTRICAL PROPERTIES OF PHENOL FORMALDEHYDE MWCNT-IONIC LIQUID NANOCOMPOSITES**” is a bonafide work of **RESHMA VARGHESE**, Reg no: **SHATMCH011** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of University of Calicut, under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady
Date: 11/08/2021



DR. SREEKALA M S
Assistant Professor,
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Sree Sankara College

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and Re – accredited by NAAC with B++ grade

PATRON: HIS HOLINESS JAGADGURU
SREE SANKARACHARYA MAHASWAMIGAL
SRI SARADA PEETHAM, SRINGERI

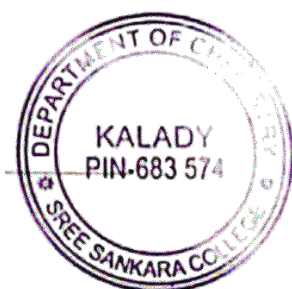
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ERNAKULAM DIST.
KERALA STATE
INDIA

CERTIFICATE FROM THE GUIDE

This is to certify that the Project Work Titled “**PROPERTIES OF PF NANO-CELLULOSE FOAM**” is a bonafide work of **MERIN BABY, Reg no SHATMCH009** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of Calicut University under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady
Date: 11/08/2021

DR. SREEKALA M S
Assistant Professor,
Department of Chemistry
Sree Sankara College



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email: info@sreesankaracollege.org
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POSTGRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY
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PATRON: HIS HOLINESS JAGADGURU
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KALADY – 683 574
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KERALA STATE
INDIA

CERTIFICATE FROM THE GUIDE

This is to certify that the Project Work Title “**STUDY OF ELECTRICAL CONDUCTIVITY OF PHENOL FORMALDEHYDE-REDUCED GRAPHENE OXIDE (RGO) WITH VARYING WEIGHT PERCENT**” is a bonafide work of **ANU MENACHERY** , Reg no: **SHATMCH006** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of University of Calicut, under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady
Date: 11/08/2021



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PATRON: HIS HOLINESS JAGADGURU
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INDIA

CERTIFICATE FROM THE GUIDE

This is to certify that the Project Work Title “ **THERMAL PROPERTIES OF NANO SILICA REINFORCED PHENOL FORMALDEHYDE NANOCOMPOSITES** ” is a bonafide work of **SHIMA SURENDRAN** , Reg no: **SHATMCH012** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of University of Calicut, under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady
Date: 11/08/2021



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Assistant Professor,
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Sree Sankara College

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POSTGRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY
SREE SANKARA COLLEGE

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PATRON: HIS HOLINESS JAGADGURU
SREE SANKARACHARYA MAHASWAMIGAL
SRI SARADA PEETHAM, SRINGERI

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KERALA STATE
INDIA

CERTIFICATE FROM THE GUIDE

This is to certify that the Project Work Title “**FLAME RETARDANCY OF RIGID PHENOL FORMALDEHYDE FOAMS REINFORCED WITH POSS**” is a bonafide work of **HIMA JOHNY, Reg no: SHATMCH007** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of University of Calicut, under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady
Date: 11/08/2021



DR. SREEKALA M S
Assistant Professor,
Department of Chemistry
Sree Sankara College



CHRIST COLLEGE
(AUTONOMOUS)
IRINJALAKUDA KERALA 680125

CERTIFICATE FROM THE GUIDE

This is to certify that the project work titled “PREPARATION OF SILVER COBALT NANOCATALYST FOR HYDROGEN EVOLUTION IN ALKALINE MEDIA “is a bonafide work of Ms ADHITTA P B carried out in partial fulfillment of the requirements for the award of the degree of M.Sc Chemistry of Calicut University under my guidance. This project work is original and not submitted earlier for the award of any degree/ diploma or assistance ship of any other university or institution

Place: Irinjalakuda

Date: 27/8/2021

Dr. JOY V.T

Head of Department of Chemistry

Christ College Irinjalakuda

Phone: +91-484-2462341



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POSTGRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY
SREE SANKARA COLLEGE

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and Re – accredited by NAAC with B++ grade

PATRON: HIS HOLINESS JAGADGURU
SREE SANKARACHARYA MAHASWAMIGAL
SRI SARADA PEETHAM, SRINGERI

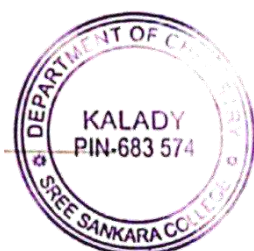
POST BOX NO. 1
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ERNAKULAM DIST.
KERALA STATE
INDIA

CERTIFICATE FROM THE GUIDE

This is to certify that the Project Work Titled “**COMPARITATIVE STUDY ON THE MECHANICAL PROPERTIES OF BANANA FIBRE AND FLAX FABRIC REINFORCED PHENOL FORMALDEHYDE COMPOSITES**” is a bonafide work of **REEM SALAM, Reg no: SHATMCH010** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of Mahatma Gandhi University under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady
Date: 11/08/2021

DR. SREEKALA M S
Assistant Professor,
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PATRON: HIS HOLINESS JAGADGURU

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SREE SANKARACHARYA MAHASWAMIGAL, ERNAKULAM DIST.
SRI SARADA PEETHAM, SRINGERI KERALA, INDIA.

CERTIFICATE FROM THE GUIDE

This is to certify that the Project Work Titled “ **PREPARATION AND STUDY OF ANTIBACTERIAL ACTIVITY OF ZINC OXIDE NANOPARTICLES FROM NEEM LEAVES** is a bonafide work of **ANNMARIA PAUL** Reg no: **SHATMCH005** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of Calicut University under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady
Date: 11/08/2021

Dr. Sandhya P K
Lecturer
Department of Chemistry
Sree Sankara College



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SREE SANKARA COLLEGE

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And Re-Accredited By NAAC With B++ Grade

PATRON: HIS HOLINESS JAGADGURU
SREE SANKARACHARYA MAHASWAMIGAL
SRI SARADA PEETHAM, SRINGERI

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KALADY-683574
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KERALA STATE
INDIA

CERTIFICATE FROM THE GUIDE

This is to certify that the project work titled “**A STUDY OF NATURAL RUBBER BIO-NANOCOMPOSITES REINFORCED WITH CHITIN NANOCRYSTALS**” is a bonafide work of **ALEENA MARIA PAULSON**, Reg no: **SHATMCH002** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry OF University Of Calicut under my guidance.

PLACE: KALADY

DATE: 11/08/2021

SMT. SEENA K. THOMAS

Assistant Professor
Department of Chemistry
Sree Sankara College





**CHRIST COLLEGE
(AUTONOMOUS)**


IRINJALAKUDA KERALA 680125

CERTIFICATE FROM THE GUIDE

This is to certify that the project work titled "PREPARATION OF COBALT NICKEL NANOCATALYST FOR HYDROGEN EVOLUTION IN ALKALINE MEDIA" is a bonafied work of Ms AMRITHA BINEESH carried out in partial fulfilment of the requirements for the award of the degree of MSc Chemistry of Calicut University under my guidance. This project work is original and not submitted earlier for the award of any degree/ diploma or assistance ship of any other university or institution.

Place: Irinjalakuda

Date: 27/8/2021


Dr. JOY V.T

Head of Department of chemistry

Christ College Irinjalakuda

DEPARTMENT OF CHEMISTRY
Sacred Heart College Chalakudy



CERTIFICATE


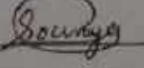

This is to certify that the project entitled "PREPARATION OF SILVER COBALT NANOCATALYST FOR HYDROGEN EVOLUTION IN ALKALINE MEDIA" submitted by ADHITTA P.B (Reg.No.SHATMCH001) is a bonafide record of project work carried out by the author under my supervision, in partial fulfillment of the requirement for the degree of Master of Science in Chemistry from Calicut University

Date:

Place: Chalakudy

Submitted for project evaluation held on.....

Examiners

- 1) Dr. Jinish 
- 2) MS. Soumya P.K 
- 3) RIYA JOSE 





Dr. Prof. Santosh Paul
Head of the chemistry department
Sacred Heart College Chalakudy

DEPARTMENT OF CHEMISTRY

Sacred Heart College Chalakudy



CERTIFICATE

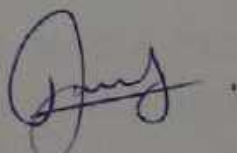
This is to certify that the project entitled: "A study of Natural Rubber Bio-Composites Reinforced with Chitin Nanocrystals", submitted by Aleena Maria Paulson (Reg.No.SHATMCH002) is a bonafide record of project work carried out by the author under my supervision, in partial fulfillment of the requirement for the degree of Master of Science in Chemistry from Calicut university.

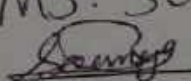
Chalakudy


Guided By,

Date:

Project Examiners:

1. Don Jinish 

2. Ms. Soumya P.K. 

3. Ms. RIJA JOSE 

Smt. Seena K. Thomas

Assistant Professor

Postgraduate &

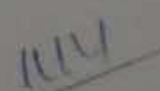
Research Department of

chemistry

SreeSankara College,

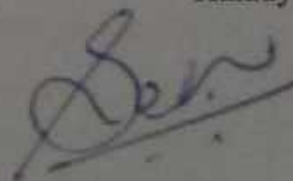
Kalady.

Forwarded By,


Prof. Santhosh Paul
Head of the Department

Sacred Heart College

Department of Chemistry
Sacred Heart College
Chalakudy



DEPARTMENT OF CHEMISTRY

Sacred Heart College Chalakudy




CERTIFICATE

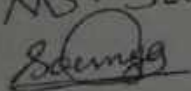
This is to certify that the project entitled "Thermal and Mechanical Properties of Natural Rubber and Starch Nanobiocomposites" submitted by Amritha Ravi (Reg.No.SHATMCH004) is a bonafide record of project work carried out by the author under my supervision, in partial fulfillment of the requirement for the Degree of Master of Science in Chemistry from University of Calicut, Kerala.

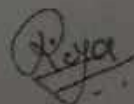
Chalakudy

Date:

Project Examiners :

1. Dr. Jinish 

2. Ms. Saumya P K


3. RIYA JOSE 

Guided By
Smt. Seena K. Thomas
Assistant Professor
Post Graduate and Research Dept of Chemistry
Sree Sankara College
Kalady

Forwarded By
Dr. Santhosh Paul
Head, Dept of Chemistry
Sacred Heart College
Chalakudy

Sacred Heart College Chalakudy

(Affiliated to Calicut University and NAAC Reaccredited with "A"⁺⁺
Grade)



Railway station Road, Chalakudy

Thrissur (Dt.), Kerala – 68030


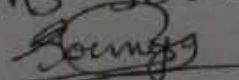

Tel : 0480 – 2701159, Fax : 0480 2708877

Email : shcollege@gamil.com, Website : <https://sacredheartcollege.ac.in>

CERTIFICATE

This is to certify that the dissertation entitled "Study of Electrical Conductivity of Phenol Formaldehyde –Reduced Graphene Oxide (RGO) with varying weight percent" is an authentic record of project work done by **Ms. ANU MENACHERY** (Reg No : **SHATMCH006**), at Sree Sankara College, Kalady under the supervision of **Dr. SREEKALA MS**, Assistant Professor, Department of Chemistry Sree Sankara college, Kalady for the award of MSC. Degree in Chemistry of Calicut University.

Project Examiners:

1. Dr. Jinish 
2. Ms. Soumya P.K. 
3. Ms. Riya Jose 

1114
Prof. Santhosh Paul

Head of the Department

Sacred Heart College

Department of Chemistry
Sacred Heart College
Chalakudy

DEPARTMENT OF CHEMISTRY
Sacred Heart College Chalakudy



CERTIFICATE

This is to certify that the project entitled "Preparation And Study Of Antibacterial Activity Of Zinc Oxide Nanoparticles From Neem Leaves" submitted by ANN MARIA PAUL (Reg.No.SHAT MCH005) is a bonafide record of project work carried out by the author under my supervision, in partial fulfillment of the requirement for the degree of Master of Science in Chemistry from Calicut University.

Chalakudy

Guided by

Date:

Dr. Sandhya P K


Lecturer

Dept.of Chemistry

Sree Sankara college

Kalady

Project Examiners:

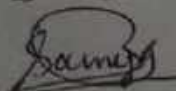
1. Dr. Jinish 

Forwarded By,



Dr. Santhosh Paul


2. Ms. Soumya P. K

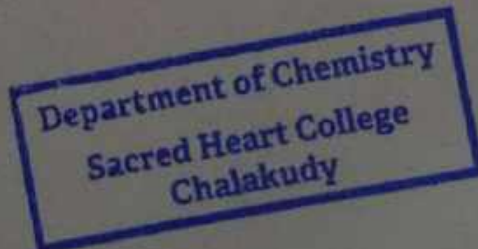


Head, Dept. of Chemistry

Sacred Heart College

Chalakudy

3. Ms. RIYA JOSE 



DEPARTMENT OF CHEMISTRY

Sacred Heart College Chalakudy




CERTIFICATE

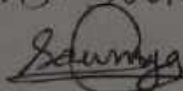
This is to certify that the project entitled "Flame Retardancy of Rigid Phenol Formaldehyde Foams Reinforced with Poss" submitted by HIMA JOHNY (Reg.No.SHATMCH007) is a bonafide record of project work carried out by the author under my supervision, in partial fulfillment of the requirement for the degree of Master of Science in Chemistry from Calicut University.


Chalakudy

Date:

Project Examiners:

1. Dr. Jinish 

2. MS. SOUMYA P.K


3. MS. RIYA JOSE 



Dr. Prof. Santosh Paul

Head of the chemistry department

Sacred Heart College Chalakudy

Department of Chemistry
Sacred Heart College
Chalakudy

DEPARTMENT OF CHEMISTRY
Sacred Heart College Chalakudy



CERTIFICATE

This is to certify that the project entitled "**Properties of PF nanocellulose foam**" submitted by **MERIN BABY (Reg.No.SHATMCH009)** is a bonafide record of project work carried out by the author under the supervision of **Dr.SREEKALA M.S**, Asst.Professor, Dept. of Chemistry, Sree Sankara College, Kalady, in partial fulfillment of the requirement for the Degree of Master of Science in Chemistry from University of Calicut, Kerala.

Chalakudy

Date:

Guided By,

DR. SREEKALA M S

Assistant Professor,
Department of Chemistry
Sree Sankara College, Kalady



Project Examiners :

1. Dr. Jinish Antony

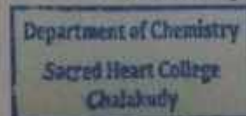
2. Ms. Soumya P.K

3. Ms. Riya Jose

Forwarded by ,

DR. SANTHOSH PAUL

Head of Dept.of Chemistry
Sacred Heart College,
Chalakudy



DEPARTMENT OF CHEMISTRY

Sacred Heart College Chalakudy



CERTIFICATE


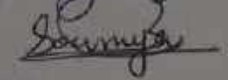
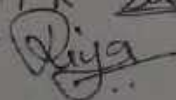
This is to certify that the project entitled "A Comparative Study On The Mechanical properties of banana fibre and flax fabric reinforced phenol formaldehyde composites." submitted by **Reem Salam(Reg.No.SHATMCH010)** is a bonafide record of project work carried out by the author under my supervision, in partial fulfillment of the requirement for the degree of Master of Science in Chemistry from Calicut University

Date:

Place: Chalakudy

Submitted for project evaluation held on.....

Examiners

- 1) **Dr. Jinish M** 
- 2) **ANS. Sowmya P.K.** 
- 3) **RIYA JOSE** 

Department of Chemistry
Sacred Heart College
Chalakudy



Dr. Prof. Santosh Paul

Head of the chemistry department

Sacred Heart College Chalakudy

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(Affiliated to Calicut University and NAAC Reaccredited with "A" Grade)

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CERTIFICATE


This is to certify that the dissertation entitled "**ELECTRICAL PROPERTIES OF PHENOL FORMALDEHYDE MWCNT - IONIC LIQUID NANOCOMPOSITES**" is an authentic record of project work done by **Ms. RESHMA VARGHESE** (Reg :SHATMCH011), at Sree Sankara College, Kalady under the supervision of **Dr. SREEKALA MS**, Assistant Professor, Department of Chemistry Sree Sankara college, Kalady for the award of MSC, Degree in Chemistry of Calicut University.

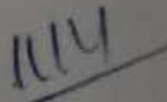
Project Examiners :

1. Dr. Lina A.L. 

2. MS. SOUMYA P.K.



3. Ms. RIYA JOSE 


Prof. Santhosh Paul

Head of the Department

Sacred Heart College

Department of Chemistry
Sacred Heart College
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SACRED HEART COLLEGE

CHALAKUDY

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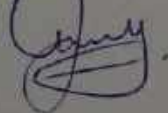
Email: shcollege@gamil.com, Website

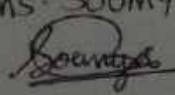
<https://sacredheartcollege.ac.in>


CERTIFICATE


This is to certify that the dissertation entitled "THERMAL PROPERTIES OF NANOSILICA REINFORCED PHENOL FORMALDEHYDE NANO-COMPOSITE" is an authentic record of project work done by Ms. SHIMA SURENDRAN (Reg : SHATMCH012), at Sree Sankara College, Kalady under the supervision of Dr. Sreekala MS, Assistant Professor, Department of Chemistry Sree Sankara college, Kalady for the award of MSC. Chemistry from Calicut University.

Project Examiners:

1. Dr. Jinish 

2. MS. SOUMYA P.K.


3. Ms. RIYAJOSE 


Dr. Santhosh Paul
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Department of Chemistry
Sacred Heart College
Chalakudy



**CSIR-SUMMER RESEARCH TRAINING PROGRAM
(CSIR-SRTP)2020 ONLINE**



JUNE TO AUGUST, 2020

SL. NO.: CSIR/SRTP/2020/IICT/019

NAME: Ms. ADHITTA P B

CSIR INDIA



CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 ONLINE



CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP) 2020 ONLINE HAS THE FOLLOWING ACTIVITIES

Eminent Scientist Lectures, Special Sessions, Project specific classes, Elocution video, Poster designing, Essay writing, Assignments / Project works given by mentor/coordinator & Summer Research Project Completion Report

CANDIDATE'S NAME: Ms. ADHITTA P B SL. NO.: CSIR/SRTP/2020/IICT/019

GRADE:

HOST INSTITUTE: CSIR-NEIST, Jorhat

MENTOR'S NAME: Dr. PUNNA NAGENDER

REMARKS

.....

MENTOR



**CSIR-SUMMER RESEARCH TRAINING PROGRAM
(CSIR-SRTP)2020 ONLINE**



CERTIFICATE

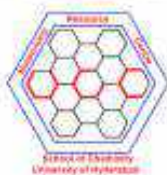
Name: Ms. ADHITTA P B **Sl. No.:** CSIR/SRTP/2020/IICT/019

has completed all the requirements of the CSIR-Summer Research Training Program (CSIR-SRTP) 2020 **online** during June to August, 2020 coordinated by CSIR-NEIST, Jorhat

DR. G. NARAHARI SASTRY
DIRECTOR
CSIR-NORTH EAST INSTITUTE OF
SCIENCE AND TECHNOLOGY

PROF. ALOK DHAWAN
DIRECTOR
CSIR-INDIAN INSTITUTE OF
TOXICOLOGY RESEARCH

DR. SHEKHAR C. MANDE
DIRECTOR GENERAL, CSIR
SECRETARY, DSIR, GOVT. OF INDIA



UGC-NETWORKING RESOURCE CENTRE

SCHOOL OF CHEMISTRY

UNIVERSITY OF HYDERABAD, HYDERABAD 500 046



Certificate

This is to certify that **Ms. Ann Mariya Shaji** has completed her Summer Project on **“Recent Trends in Biocatalysis: Visible-Light-Driven Enzyme Catalysis”** under the supervision of **Dr. T. Saravanan** from **05th May 2021** to **28th June 2021**.

Research Supervisor

Coordinator

Coordinator
UGC Networking Resource Centre
School of Chemistry
University of Hyderabad
Hyderabad-500046, Telangana.

Dean

Dean
School of Chemistry
University of Hyderabad
Hyderabad-500046, Telangana.

**RECENT TRENDS IN BIOCATALYSIS:
VISIBLE-LIGHT-DRIVEN ENZYME CATALYSIS**

Project Report

Submitted by

ANN MARIYA SHAJI

Supervised by

Dr. T. Saravanan



UGC Networking Resource Centre

**School of Chemistry,
University of Hyderabad,**

INDUSTRIAL VISIT
P G CHEMISTRY
2019-2021 BATCH
& UG
CHEMISTRY
2018-2021 batch

NITTA GELATIN INDIA LIMITED

(NGIL)



Nitta Gelatin India limited NGIL

- Started in 1975
- Successful Indo-Japanese venture set new industrial standards.
- Product range include Gelatin for pharmaceutical & food applications
- Main products are Gelatin, Dicalcium phosphate, Ossein, Chitosan.
- Recently developed bioactive peptides from collagen protein.

ABOUT OSSEIN

- Ossein is a particular substance that constitutes the cellular tissue of the skin, cartilage and bone. It is made of 95% collagen.
- By treating bones with hydrochloric acid, ossein is then isolated from bone, leaving calcium phosphate and calcium carbonate dissolved away.
- Can be rapidly converted into gelatin by the prolonged action of slightly acidic boiling water.
- Gelatin is an isomer with sulfuric acid and alkalis.
- Can easily degrade when it is wet.
- Exposed to the air in this state, it putrefies.



WHAT IS GELATIN?

Gelatus meaning stiff or frozen is a translucent, colorless, flavorless food ingredient.

Derived from collagen taken from animal body parts.

Brittle when dry and gummy when moist.

Also be referred to as hydrolyzed collagen, collagen hydrolysate, gelatine hydrolysate, hydrolyzed gelatine, and collagen peptides after it has undergone hydrolysis.

Commonly used as a gelling agent in food, medications, drug and vitamin capsules, photographic films and papers, and cosmetics.

Gelatin is in gelatin desserts most gummy cand and marshmallows and ice



SPECTROPHOTOMETER

- Is an optical instrument for measuring the intensity of light relative to wavelength.
- Electromagnetic energy, collected from the sample, enters the device through the aperture (yellow line) and is separated into its component wavelengths by the holographic grating.
- The grating acts to separate each color from the white light.
- The separated light is then focused onto a CCD array detector where the intensity of each wavelength (or each color if in the visible region) is then measured by a pixel of the array.
- The CCD is then read-off to a computer and the result is a spectrum which displays the intensity of each wavelength of light.



PH METER

- Is a scientific instrument that measures the hydrogen-ion activity in water-based solution, indicating its acidity or alkalinity expressed as pH.
- The pH meter measures the difference in electrical potential between a pH electrode and a reference electrode.
- So the pH meter is sometimes referred to as a "potentiometric pH meter".
- The difference in electrical potential relates to the acidity or pH of the solution.
- Used in many applications ranging from laboratory experimentation to quality control.



INDUSTRIAL VISIT


Apollo Tyres

2016-2019 III D C

& 2017 – 2020 II D C

APOLLO TYRES

VISION : "To be a premium tyre company with a diversified and multinational presence."


BIBITHA JOSEPHA

Ann Mariya shaji
SHARASCHOOL

On 26th January 2020 as a part of our IV we visited Apollo tyres ltd ,Perambra.

Apollo tyres ltd is the world's 11th biggest tyre manufacturer, incorporated in 1972 on 28th September. It is the first plant commissioned in Perambra ,Trissur, Kerala ,India.

The company has four manufacturing units in India and other units in Netherland and Hungary. It has a network of nearly 5000 dealerships in India of which over 2500 are exclusive outlets.

Apollo tyres ltd was incorporated on 28th September 1972 as a public ltd company and obtained certificates of commencements of business on 24th October 1972. The company was promoted by Bharat steel tubes Ltd. In 1975 the company made its initial public offer of equity shares and its first manufacturing faculty was commissioned in Perambra plant, in 1991.

The company focused on the production of truck tyres in India and introduced its first truck tyre, Rajthani in India. The company expanded its operation across India and outside India. Apollo in India currently holds the number one position spot in commercial vehicle segment tyre sales and stays at a strong third spot with a 17% market share (radical tyre) in the passenger vehicle segments. This is the short history of Apollo tyre Ltd, India .

We reached there by 1pm.

1. Compounding and mixing .

A tyre as most people like to believe is not just made up of only rubber. In fact a typical tyre construction requires different varieties of rubber . natural or synthetic –along with carbon black , sulphur and oil as other additives. Depending on the usage , the composition of these compounds vary to achieve different objectives. However even after doing so we can safely assume that more than 80% of the total weight is contributed by rubber. Normally , four major kinds of rubber are used during tyre production , namely natural rubber, SBR, BR and butyl rubber. The first three makes the tread and sidewall compounds while the inner liner that holds the compressed air is formed by butyl rubber.

Rubber in its raw state, be it natural or synthetic comes in a white latex form. Its black colour is provided by carbon black. Silica and sulphur are also mixed with rubber so as to provide different characteristics such as high friction, high mileage for a passenger car. Anti-oxidants , anti-ozonants , anti-aging agents are also added .A mixing mill has two counter rotating rollers. Pre calculated amount of compound is dropped off at the rollers, where raw materials are mixed with each other. Once the mixing process is completed is stored in the form of continuous rubber sheets. It is then sent to the next classes like bead wire assembly preparation, inner liner calendaring etc.

2. Material manufacturing process

Next step includes three process that run parallel and these comprises of building the carcass , the bead and the thread. The carcass and the belt are produced by calendaring i.e. Coating the steel cord with rubber. A calendaring machine pulls strands of bronze coat at steel wires from a stack and mixes it in to rubber compound at uniform rate. The freshly prepared carcass is cut accordingly to required size. Sidewall and thread preparation by extrusion method .An extruder that Apollo uses in its manufacturing plant is capable of extruding three different compounds at a time. Post extruding, the compound is cooled off and then treated or sidewall is cut by depending on size of tyre. Bead in vulcanized by compression moulding process. This gives a tyre road worthy and functional shape. However ,there is more to it than just that. Moulding or curing of rubber also brings a number of chemical change in the tyre that are crucial for its functioning.

The vulcanization of rubber make it stiff and enormously resistant against external forces.The reason behind this is due to crosslinking between the layers that strengthens the individual tyre components. For eg the sulphur mixed in to tyre compounds, crosslinks with the rubber molecules resulting in a hardened rubber with enhanced strength and improve elastic property.Usually for a passenger car type ,the vulcanization time varies from 8-10 mts.The operator places green tyre inside the mould machine where the segments around the thread and sidewall are pushed inward by the curing press.

3.Tyre assembly

Once the thread ,sidewall, bead and belt are prepared ,they are all sent in for the assembly. This is done using Tyre Building Machine(TBM) where all components are sequentially assemble so as to form a raw tyre or green tyre .Green tyre is assembled on TBM .The inner liner is wrapped over the roller and then the body plies are applied. Both the components are joined by bead on either sides. The sidewall and thread are also added. Once all components are assembled,theTBM presses all of the components together. Imparting the assemble part a circular shape or tyre like shape. The final product, green tyre sent to next process tyre moulding.

4. Moulding

During this final step or process, the green tyre is treading its outer shape.

Simultaneously, a large rubber bladder inflates the tyre, so that it fit strongly, enough against the mould. Different tread pattern tyres are produced using mould designs depending on the types of tyres to be produced, the mould are replaced from time to time. At Apollo they have over 160 different moulds to produce different tread pattern.

During the moulding process, the manufacturer engraves brand name, tyre size, etc. on the tyre as well as on the sidewall. The final process includes inspecting the tyre visually for any defects .a tyre further undergoes a uniformly tests where an automatic machine

checks balancing concentricity, run out etc. of the tyre. Once through all that, the freshly prepared tyre are dispatched to various locations.

This is the manufacturing process taking place in Apollo tyres. We had an interactive section after that.

We reached here by 4pm and it was indeed a great experience.



AQAR 2020-21

ZOOLOGY

Criterion I - Curricular Aspects

SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

1.3.3 - Number of students undertaking project work/field work/internship

HISTORY OF VACCINE DEVELOPMENT-REVIEW OF LITERATURE



HISTORY OF VACCINE DEVELOPMENT- REVIEW OF LITERATURE

*Submitted to Sacred Heart College, Chalakudy
Affiliated to the University of Calicut*



BACHELOR OF SCIENCE IN ZOOLOGY

BY

*Valued
Legm Vayla
[Signature]*

Name	Register Number
1. AISHWARYA M	SHASSZO014 ^(Aish)
2. ATHEENA SOJAN	SHASSZO002
3. CHRISTY M.B	SHASSZO005
4. GANGA V	SHASSZO006
5. JESNA MARIA	SHASSZO017
6. JISMY JOSE	SHASSZO018
7. SANDRA SARANGAN	SHASSZO026
8. VISMAYA JAYACHANDRAN	SHASSZO031

DECLARATION

This is to certify that the project entitled "HISTORY OF VACCINE DEVELOPMENT -REVIEW OF LITERATURE" is the bonafide record of the work carried out by ATHEENA SOJAN, CHRISTY M.B,GANGA V ,AISWARYA M , JESNA MARIA ,JISMY JOSE ,SANDRA SARENGAN, VISMAYA JAYACHANDRAN under is a record of work done during the period of 2020-2021.

The above project represents entirely the independent work on the part of the candidates under my guidance.



DR TESSY K.L

HEAD OF THE DEPARTMENT

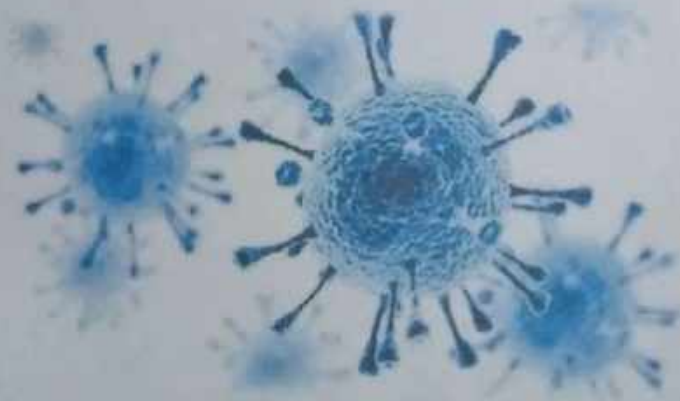
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CHALAKUDY





COVID-19 - AN AGE RELATED STUDY



COVID - 19 - AN AGE RELATED STUDY

Submitted to Sacred Heart College, Chalakudy

Affiliated to the University of Calicut



BACHELOR OF SCIENCE
IN
ZOOLOGY

By

	Name	Register Number
1	ATHIRA T.U	SHASSZO003
2	JANOFER ARSHIN	SHASSZO007
3	MEGHANA FRANCIS	SHASSZO010
4	SADIYA SADATH	SHASSZO011
5	AMRUTHA K.K <i>Amrutha</i>	SHASSZO015
6	MEDHA BRAJAN	SHASSZO023
7	SETHULAKSHMI L.R	SHASSZO027
8	MERLIN MICHAEL	SHASSZO032

*Wahid
J
Wahid Wahid*

JA

CERTIFICATE

This is to certify that the project entitled "COVID - 19 - AN AGE RELATED STUDY" is the bonafide record of the work carried out by AMRUTHA K.K, ATHIRA T.U, JANOFRER ARSHIN, MEDHA RAJAN, MEGHANA FRANCIS, MERLIN MICHAEL, SADIYA SADATH, SETHULAKSHMI L.R under my guidance and supervision in the Sacred Heart College, Chalakudy and that no part thereof has been presented for any other degree.



Dr. TESSY KL

HEAD OF DEPARTMENT

SACRED HEART COLLEGE,

CHALAKUDY

Place: Chalakudy

Date: 06.07.2021



**Coronaviruse disease 2019 {covid-19} ;
A literature review**



CORONA VIRUS DISEASE 2019(COVID-19): A LITERATURE REVIEW

*Submitted to Sacred Heart College, Chalakudy Affiliated
to the University of Calicut*



BACHELOR OF SCIENCE IN ZOOLOGY

BY

*Valent
of
Keym Varghese*

Name

Register Number

1. BHAGYASREE M.B
2. LAKSHMI K.B
3. SETHULAKSHMI P.M
4. ANNMARIYA ANTONY
5. LAKSHMI P.S
6. RAGHI VASU
7. SONA PAULY

SHASSZO004
SHASSZO008
SHASSZO012
SHASSZO016
SHASSZO020
SHASSZO024
SHASSZO028

CERTIFICATE

This is to certify that the project entitled "CORONAVIRUS DISEASE 2019 (COVID-19)" is the bonafide record of the work carried out by BHAGYASREE M.B, LAKSHMI K.B, SETHULAKSHMI P.M, ANNMARIYA ANTONY, LAKSHMI P.S, RAGHI VASU, SONA PAULY under my guidance and supervision in the Sacred Heart College, Chalakudy and that no part there of has been presented for any other degree.



DR TESSY K.L

HEAD OF THE DEPARTMENT


SACRED HEART COLLEGE,

CHALAKUDY

Chalakudy

09-07-2021





**STUDY OF BUTTERFLY
POPULATION IN OUR LOCALITY**

ZOOLOGY

STUDY OF BUTTERFLY POPULATION IN OUR LOCALITY

*Submitted to Sacred Heart College, Chalakudy Affiliated
to the University of Calicut*



BACHELOR OF SCIENCE IN ZOOLOGY

BY

Name	Register Number
1. ANITTA JOSE <i>Anitta</i>	SHASSZO001
2. LIYA JOSE <i>Liya</i>	SHASSZO009
3. SHREEKUTTY P <i>Shree</i>	SHASSZO013
4. JANAKY JOSHY <i>Janaky</i>	SHASSZO019
5. LEENA K D <i>Leena</i>	SHASSZO021
6. MARIA TOMY <i>Maria</i>	SHASSZO022
7. RESHMA ROSE SHAJI <i>Reshma</i>	SHASSZO025
8. SURYA E A <i>Surya</i>	SHASSZO030

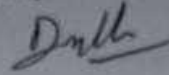
Calicut

*Dr. Jeyaraj
Christ College ITC*

[Signature]

CERTIFICATE

This is to certify that the project entitled "STUDY OF BUTTERFLY POPULATION IN OUR LOCALITY" is the bonafide record of the work carried out by ANITTA JOSE, LIYA JOSE, SREEKUTTY P, JANAKY JOSHY, LEENA K.D, MARIYA TOMY, RESHMA ROSE SHAJI, SURYA E.A under my guidance and supervision in the Sacred Heart College, Chalakudy and that no part there of has been presented for any other degree.



DR TESSY K.L

HEAD OF THE DEPARTMENT

SACRED HEART COLLEGE,

CHALAKUDY

Chalakudy

09-07-2021



HISTORY OF VACCINE DEVELOPMENT-REVIEW OF LITERATURE



HISTORY OF VACCINE DEVELOPMENT- REVIEW OF LITERATURE

*Submitted to Sacred Heart College, Chalakudy
Affiliated to the University of Calicut*



BACHELOR OF SCIENCE IN ZOOLOGY

BY

Name

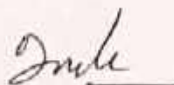
Register Number

- | | |
|-----------------------------|------------|
| 1. AISHWARYA M | SHASSZO014 |
| 2. ATHEENA SOJAN | SHASSZO002 |
| 3. CHRISTY M.B | SHASSZO005 |
| 4. GANGA V | SHASSZO006 |
| 5. JESNA MARIA <i>Jesna</i> | SHASSZO017 |
| 6. JISMY JOSE | SHASSZO018 |
| 7. SANDRA SARANGAN | SHASSZO026 |
| 8. VISMAYA JAYACHANDRAN | SHASSZO031 |

*Valid
of
Loyan Unfile
yA*

CERTIFICATE

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DR TESSY K.L

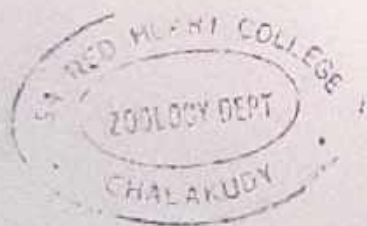
HEAD OF THE DEPARTMENT

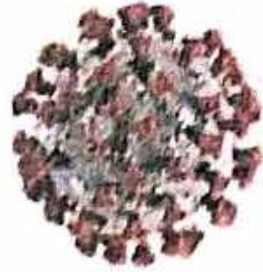
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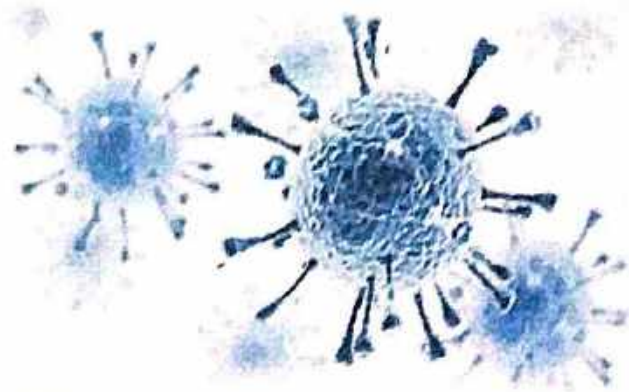
Chalakudy

06-07-2021





COVID - 19 - AN AGE RELATED STUDY



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7	SETHULAKSHMI L.R	SHASSZO027
8	MERLIN MICHAEL	SHASSZO032

*Valent
of
Layan Varghese*

JA

CERTIFICATE

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Dr. TESSY KL

HEAD OF DEPARTMENT

SACRED HEART COLLEGE,

CHALAKUDY

Place: Chalakudy

Date: 06.07.2021



HISTORY OF VACCINE DEVELOPMENT-REVIEW OF LITERATURE



HISTORY OF VACCINE DEVELOPMENT- REVIEW OF LITERATURE

*Submitted to Sacred Heart College, Chalakudy
Affiliated to the University of Calicut*



BACHELOR OF SCIENCE IN ZOOLOGY

BY

*Calicut
Kajal Varghese
JA*

Name	Register Number
1. AISHWARYA M	SHASSZO014
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3. CHRISTY M.B	SHASSZO005
4. GANGA V	SHASSZO006
5. JESNA MARIA	SHASSZO017
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7. SANDRA SARANGAN	SHASSZO026
8. VISMAYA JAYACHANDRAN	SHASSZO031

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DR TESSY K.L

HEAD OF THE DEPARTMENT

SACRED HEART COLLEGE,

CHALAKUDY

Chalakudy

06-07-2021



CERTIFICATE OF INTERNSHIP

THIS IS TO CERTIFY THAT

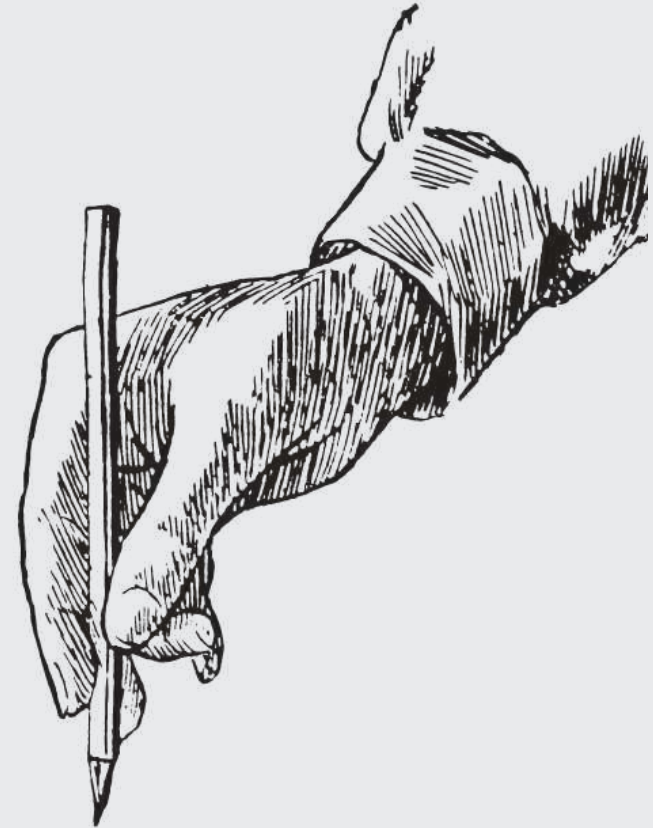
Kalathinkal Sojiya Joy

has successfully completed curriculum

development internship from 25-Sep-2021 to 09-Oct-2021

and developed a curriculum book for teaching

English to children.



A handwritten signature in black ink, appearing to read "Karthee Vidya".

KARTHEE VIDYA

Founder & CEO, Team Everest



www.teameverest.ngo

Our Vision: Inspiring **everyone** to volunteer

Thinking Independently Together



Kalathinkal
Sojiya Joy



KITES
FOUNDATION

VOICE OF INDIA

Season 2

 Kites Foundation

August 15th 2021



SHYADRI FOUNDARION

Regd. No. F-19097 (Nagpur), MH-230/02 & Regd. under FCRA, 80G, 12A LIFE FIRST



Regd. No. SF/Nagpur/2020-21/242

Date :22/05/2021

TO WHOM MAY CONCERN

This is to certify **Kalathinkal Sojiya joy** a student of UG 1st year **Kerala**, **India** has successfully completed 01 (one) month (From 17/04/2021 to 18/05/2021). Long Internship programme in project **Life First** and **Waste Management** under **Sahyadri Foundation**, Nagpur. She working as intern as Content writer Successfully.

During the period of Her internship programme with us she was found punctual, hardworking and inquisitive. She has worked under the organization by making project **Life First** and **Waste Management** making projects summery report, write articals of projects

She has work on **Life First** and **Waste Management project** under the observation of Founder **Mr.Vijay Kshirasagar** and Co-Founder(Life first project) **Mrs.ID Mayuri Gosewade**. Her contribution have been valuable for the organization and wish to work again with Her. All tasks have completed successfully by **Kalathinkal Sojiya joy**. Her performance is good.

We wish her every success in life.

For Sahyadri Foundation

Authorized Signatory
Founder
Mr.Vijay Kshirasagar

For Sahyadri Foundation

Authorized Signatory
Co-Founder(Life First project)
Mrs.ID Mayuri Gosewade

Office Address : Flat No-G-1, Mahataxmi Appartment, 73, Rejeshwar Park B/h. State Bank of India, Beltarodi Road, ManishNagar, BesaNagpur-440034 Mob.-9860998971, 7888009575
Email id- sahyadri.mhnagpur@gmail.com

CERTIFICATE OF COMPLETION



This Certificate is presented to

KALATHINKAL SOJIYA JOY

For successfully completing 2 months as Content Writer at
EveDonusFilm.

2nd May 2021 - 2nd July 2021

Kunal pandey

KUNAL PANDEY

INTERN MANAGER



www.evedonusfilm.com



Certificate of Selection

Shreya Nupura

from **Sacred Heart College, Chalakudy** has successfully secured **COVID Plasma Ambassador (Open Positions - 2000)** internship at **Snapdeal** through Internshala.

Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: May 12, 2021

Certificate Number: 87CCE4D0-580E-FE83-A7E6-F73BA822A413
For certificate authentication please visit https://internshala.com/verify_certificate



Certificate of Selection

Shreya Nupura

from **Sacred Heart College, Chalakudy** has successfully secured **COVID Vaccination Influencer (Open Positions - 1000)** internship at **Bhumi** through Internshala.

Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: May 16, 2021

Certificate Number: D9FD3146-BB51-5AF8-7760-6E8BE30A1DBA
For certificate authentication please visit https://internshala.com/verify_certificate



Certificate of Selection

Shreya Nupura

from **Sacred Heart College, chalakudy** has successfully secured **COVID Task Force Management** internship at **Elder Care Trust** through Internshala.

Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: May 15, 2021

Certificate Number: 74AB22BF-300F-F958-A542-BB934AFFE1A8
For certificate authentication please visit https://internshala.com/verify_certificate



Certificate of Selection

Sojiya Joy

from **Sacred Heart College Chalakudy** has successfully secured **Bird Feeding Eco-Warrior (Open Positions - 2500)** internship at **Team Everest** through Internshala.

Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: April 22, 2021

Certificate Number: 9DE7A925-4522-2AA9-8514-7AF2F9C0FB5C
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AQAR 2020-21

ENGLISH

Criterion I - Curricular Aspects

SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

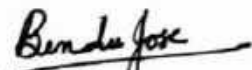
1.3.3 - Number of students undertaking project work/field work/internship

Certificate

This is to certify that the project report entitled, **Exploration of Indian Caste System** in Arundhathi Roy's *The God of Small Things* a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath
Assistant Professor
Department of English



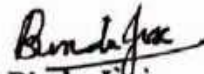
Ms. Bindu Jose
Associate Professor & HoD
Department of English

Certificate

This is to certify that the project titled "Feminism in Tim Winton's Cloudstreet", is a bonafide record of studies and research carried out by Amruthanandha P.S. at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project has been submitted before the award of any degree, diploma, title or recognition.



Ms. Darly Mathew
Assistant Professor
Department of English



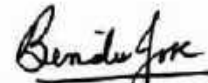
Ms. Bindu Jose
Associate Professor & HoD
Department of English

Certificate

This is to certify that the project report entitled, "**Trauma of Exclusion in Mahaswetha Devi's *Mother of 1084***" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath
Assistant Professor
Department of English



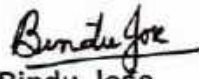
Ms. Bindu Jose
Associate Professor & HoD
Department of English

CERTIFICATE

This is to certify that the project project titled *MALALA : THE ICON OF WOMEN EMPOWERMENT WITH REGARD TO I AM MALALA* is a bonafide record of studies and researches carried out by **ANJANA.S. BABU** at Sacred Heart College, Chalakudy under the guidance and supervision of Ms. Darly, Assistant professor, Department of English, Sacred Heart College, Chalakudy and submitted to the university of Calicut in the partial fulfillment of the requirements for the Bachelor of arts in English language and Literature No part of this project has been submitted before the award of any degree, diploma, title or recognition



Ms. Darly Mathew
Assistant Professor
Department of English



Ms. Bindu Jose
Associate Professor & HOD
Department of English

Certificate

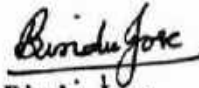
This is to certify that the project report entitled, "**Racial Discrimination In Toni Morrison's The Bluest Eye**" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath

Assistant Professor

Department of English



Ms. Bindu Jose

Associate Professor & HoD

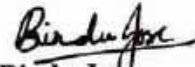
Department of English

CERTIFICATE

This is to certify that the project titled **FEMINISM AND WOMAN IDENTITY IN SHASHI DESHPANDE 'S *THE DARK HOLDS NO TERRORS*** ", is a bonafide record of studies and research carried out by Bhadra Bharath at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor for Arts in English Language and Literature. No part of this project has been submitted before the award of any degree, diploma, title or recognition.



Ms. Darly Mathew
Assistant Professor.
Department of English.



Ms. Bindu Jose .
Assistant Professor & HOD
Department of English

Certificate

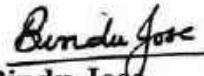
This is to certify that the project report entitled, "**Violence in Meena Kandasamy's The Gypsy Goddess**" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath

Assistant Professor

Department of English



Ms. Bindu Jose

Associate Professor & HoD

Department of English

Certificate

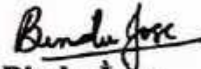
This is to certify that the project titled, "**Race and Gender in Doris Lessing's *The Grass is Singing***", is a bonafide record of studies and research carried out by Navya C. R. at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor for Arts in English Language and Literature. No part of this project has been submitted before the award of any degree, diploma, title or recognition.



Ms. Darly Mathew

Assistant Professor.

Department of English.



Ms. Bindu Jose

Associate Professor & HoD

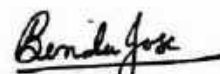
Department of English.

Certificate

This is to certify that the project report entitled, **An Analatical Reading of Alice Walker's *The Color Purple*** is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath
Assistant Professor
Department of English



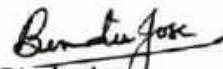
Ms. Bindu Jose
Associate Professor & HoD
Department of English

CERTIFICATE

This is to certify that the project titled, **A SAGACIOUS PERSPECTIVE ON GERONTOLOGY IN Khushwant Singh's *In THE SUNSET CLUB***, is a bonafied record of studies and research carried out by Aleena T.S at Sacred Heart College, Chalakudy ,under the guidance of MS.Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of arts in English Language and Literature. No part of this project has been submitted before the award of any degree, diploma, title recognition.



MS. Darly Mathew.
Assistant Professor.
Department of English.



MS. Bindu Jose,
Assistant Professor &Hod
Department of English .

Certificate

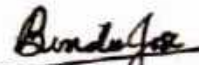
This is to certify that the project report entitled, "**Identity Crisis in Kiran Desai's *The Inheritance of Loss***" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath

Assistant Professor

Department of English



Ms. Bindu Jose

Associate Professor & HoD

Department of English

CERTIFICATE

This is to certify to the project report titled, "The Beauty Myth and the Victimisation in Toni Morrison's *The Bluest Eye*," is a bonafide record of studies and researches carried out by Amrutha. C. A at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfilment of the requirements of the Bachelor of Arts in English Language and Literature. No part of this project has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Darly Mathew

Assistant professor

Department of English



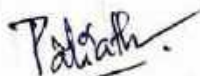
Ms. Bindu Jose

Associate Professor & HoD

Department of English

Certificate

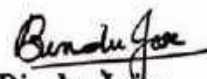
This is to certify that the project report entitled, "Social Evils in Aravind Adiga's *The White Tiger*" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath

Assistant Professor

Department of English



Ms. Bindu Jose

Associate Professor & HoD

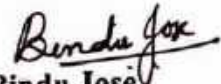
Department of English

Certificate

This is to certify that the project titled "**psychological Resilience in Emma Donoghue's *The Room***", is a bonafide record of studies and research carried out by Ann mariya Raju at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project has been submitted before the award of any degree, diploma, title or recognition.




Ms. Darly Mathew
Assistant Professor
Department of English



Ms. Bindu Jose
Associate Professor & HoD
Department of English

Certificate

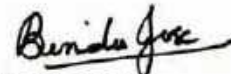
This is to certify that the project report entitled, "A Close Readings of *The Adventures of Augie March*" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath

Assistant Professor

Department of English




Ms. Bindu Jose

Associate Professor & HoD

Department of English


CERTIFICATE

This is to certify that the project report titled, "Ecocritical Overtones in Amitav Ghosh's *The Hungry Tide*" is a bonafide record of studies and researches carried out by me at sacred Heart college, chalakudy under the guidance and supervision of Ms. Darly, Assistant professor, Department of English, sacred heart college, chalakudy and submitted to the university of Calicut in the partial fulfillment of the requirements for the Bachelor of arts in English language and Literature. No part of this project work has been submitted before the award of any degree, diploma, title or recognition.


Ms. DARLY MATHEW

ASSISTANT PROFESSOR

DEPARTMENT OF ENGLISH

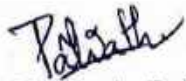

Ms. BINDU JOSE

ASSOCIATE PROFESSOR & HoD

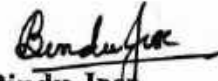
DEPARTMENT OF ENGLISH

Certificate

This is to certify that the project report entitled, **Lacanian Psychoanalysis and Juxtaposition of Imagination and Reality in David Mitchell's *Number9Dream*** is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath
Assistant Professor
Department of English



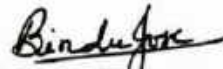
Ms. Bindu Jose
Associate Professor & HoD
Department of English

CERTIFICATE

This is to certify that the project titled **POSTMODERN FEMINISM AND THE TREATMENT OF BODY IN MARGARET ATWOOD'S *THE HANDMAID'S TALE*** is a bonafide record of studies and researches carried out by Gopika P at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project has been submitted before the award of any degree, diploma, title or recognition.



Ms. Darly Mathew
Assistant Professor
Department of English



Ms. Bindu Jose
Associate Professor & HoD
Department of English

Certificate

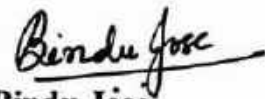
This is to certify that the project report entitled, "**Amalgamation of Fantasy and Magical Realism in *Horse and His Boy***" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath

Assistant Professor

Department of English



Ms. Bindu Jose

Associate Professor & HoD

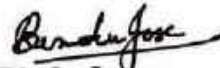
Department of English

CERTIFICATE

This is to certify that the project titled "**An Archetypal Analysis Of Paulo Coelho's *Brida***", is a bonafide record of studies and research carried out by Jisty Johnson at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project has been submitted before the award of any degree, diploma, title or recognition.



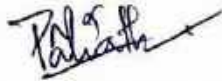
MS. Darly Mathew.
Assistant Professor
Department of English



MS .Bindu Jose
Assisant Professor &Hod
Department of English

Certificate

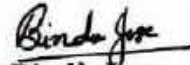
This is to certify that the project report entitled, "**Combination of Love, Betrayal, Race and Religion in Khaled Hosseini's *The Kite Runner***" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath

Assistant Professor

Department of English



Ms. Bindu Jose

Associate Professor & HoD

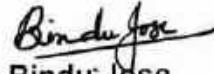
Department of English

CERTIFICATE

This is to certify that the project entitled **MULTICULTURALISM, MANLINESS, FEMININITY IN KHUSWANT SINGH'S TRAIN TO PAKISTAN** is a bonafide record of studies and researches carried out by Krishnapriya P.U at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project has been submitted before the award of any degree, diploma, title or recognition.



Ms. Darly Mathew
Assistant Professor
Department of English



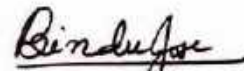
Ms. Bindu Jose
Associate Professor & HoD
Department of English

Certificate

This is to certify that the project report entitled, "**Communism and Effects of War in Doris Lessing's *The Golden Notebook***" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath
Assistant Professor
Department of English



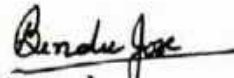
Ms. Bindu Jose
Associate Professor & HoD
Department of English

CERTIFICATE

This is to certify that the project titled **TRANSGENDERISM IN THE BACKDROP OF NATIONAL VIOLENCE – ANALYSIS WITH REGARD TO *THE MINISTRY OF UTMOST HAPPINESS*** is a bonafide record of studies and researches carried out by Sandra Mathews at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature . No part of this project work has been submitted before for the award of any degree, diploma, title or any other similar title or recognition.



Ms. Darly Mathew
Assistant Professor
Department of English



Ms. Bindu Jose
Associate Professor & HoD
Department of English

Certificate

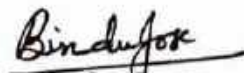
This is to certify that the project report entitled, "**Feminism in Shashi Deshpande's *That Long Silence***" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath

Assistant Professor

Department of English



Ms. Bindu Jose

Associate Professor

Department of English

Certificate

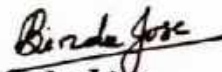
This is to certify that the project report entitled, "**Reality and Natural Love in Julian Barnes' *Flaubert's Parrot***" is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Noble A. Paliath, Assistant Professor, Department of English, Sacred Heart College, Chalakudy, and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Noble A. Paliath

Assistant Professor

Department of English



Ms. Bindu Jose .

Associate Professor & HoD

Department of English

CERTIFICATE

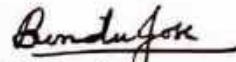
This is to certify that the project report titled, **PSYCHOANALYTIC PRESPECTIVE OF ABSURDISM IN *THE STRANGER*** is a bonafide record of studies and researches carried out by me at Sacred Heart College, Chalakudy, under the guidance of Ms. Darly Mathew, Assistant Professor, Department of English, Sacred Heart College, Chalakudy and submitted to the University of Calicut in partial fulfillment of the requirements for the Bachelor of Arts in English Language and Literature. No part of this project work has been submitted before for the award of any degree, diploma, title or recognition.



Ms. Darly Mathew

Assistant Professor

Department of English



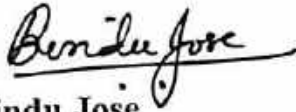
Ms. Bindu Jose

Associate Professor & HoD

Department of English

CERTIFICATE

This is to certify that the dissertation entitled, Social Criticism in E.C. Osondu's *Voice of America* and Chimamanda Adichie's *Half of Yellow Sun* is an original work done by Amrutha Sivaraman during 2019- 2021 at the department of English, Sacred Heart College, Chalakudy and that the dissertation has not previously formed the basis for the award of any degree, diploma or any other similar title.



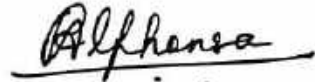
Ms. Bindu Jose

Associate Professor

Head of the Department

Sacred Heart College

Chalakudy – 680307



Sr. Alphonsa

Supervising Teacher

Department of English

Sacred Heart College

Chalakudy- 680307



CERTIFICATE

This is to certify that the dissertation entitled, "Unveiling the Unconscious of Jean Baptiste Grenouille in Patrick Süskind's *perfume the story of a murderer*" is an original work done by Anagha Naresh Kumar during 2018-2020 at the department of English, Sacred Heart College, Chalakudy and that the dissertation has not previously formed the basis for the award of any degree, diploma or any other similar title.



Ms. Bindu Jose

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Ms. Anju.

Supervising Teacher

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This is to certify that the dissertation entitled, **Deliberation of Favouritism through the novel *The Pearl That Broke Its Shell*** by Nadia Hashimi is an original work done by Anjana Mohanan during 2019-2021 at the department of English, Sacred Heart College, Chalakudy and that the dissertation has not previously formed the basis for the award of any degree, Diploma or any other similar title.



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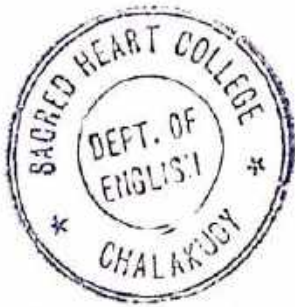
Ms. Keerthana P.K

Supervising Teacher

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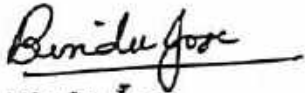
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This is to certify that the dissertation entitled, *The Theory of Paranoia: A Reading of Evie Wyld's All The Birds, Singing* is an original work done by Athira K V during 2019-2021 at the department of English, Sacred Heart College, Chalakudy and that the dissertation has not previously formed the basis for the award of any degree, diploma or any other similar title.



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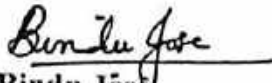
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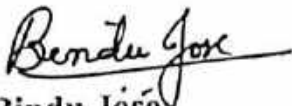
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This is to certify that the dissertation entitled **Quest for Identity: Feminist Concern in Sudha Murty's *House of Cards* and *Mahashweta*** is an original work done by Reshma Raju during 2019-2021 at the department of English, Sacred Heart College, Chalakudy and that the dissertation has not previously formed the basis for the award of any degree, diploma or any other similar title.


Ms. Bindu Jose

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Ms. Anju Rose Anto

Supervising Teacher

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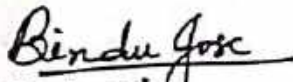
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This is to certify that the dissertation entitled, "Resilience is a weapon: A Reading on Emma Donoghue's novel *Room* through the theory of Resilience" is an original work done by Resmi Raju during 2019-2021 at the department of English, Sacred Heart College, Chalakudy and that the dissertation has not previously formed the basis for the award of any degree, diploma or any other similar title.



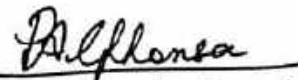
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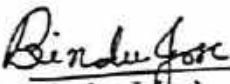
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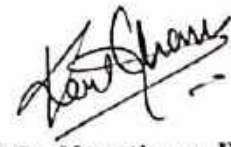


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This is to certify that the dissertation entitled, **Elucidation of Kate Elizabeth Russell's Novel *My Dark Vanessa* from the Perspective of Theory of Trauma** is an original work done by Karthika Manoj during 2019-2021 at the department of English, Sacred Heart College, Chalakudy and that the dissertation has not previously formed the basis for the award of any degree, diploma or any other similar title.


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Department of English
Sacred Heart College
Chalakudy- 680307





AQAR 2020-21

COMPUTER SCIENCE

Criterion I - Curricular Aspects

SUB CRITERION -1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

1.3.3 - Number of students undertaking project work/field work/internship



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March 17, 2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that ROSEMARIYA JOY (REG NO: SHATMCS007) 4th semester MSC Computer Science student of SACRED HEART COLLEGE, CHALAKUDY has successfully completed a project titled "IMAGE ENHANCEMENT WITH A DEEP RESIDUAL FRAMEWORK AND ULAP" from our organization.

The duration of the project was for 6 months. The Project was incorporated in PYTHON and was implemented successfully.

Thanking you,

For LCC Computer Education

T.S. Ramaswamy
Director





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March 17, 2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that JICKY JIM (REG NO: SHATMCS005) 4th semester MSC Computer Science student of SACRED HEART COLLEGE, CHALAKUDY has successfully completed a project titled "SKIN LESION ANALYSIS TOWARDS MELANOMA DETECTON USING ONE - VS - ALL ALGORITHM" from our organization.

The duration of the project was for 6 months. The Project was incorporated in PYTHON and was implemented successfully.

Thanking you,

For LCC Computer Education

T.S. Ramaswamy
Director





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March 17, 2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that AISWARYA .V.V (REG NO: SHATMCS001) 4th semester MSC Computer Science student of SACRED HEART COLLEGE, CHALAKUDY has successfully completed a project titled "REDUCTION OF BAD WORDS ON SOCIAL MEDIA (HONOR CLOUD) USING NLP" from our organization.

The duration of the project was for 6 months. The Project was incorporated in PYTHON and was implemented successfully.

Thanking you,

For LCC Computer Education

T.S. Ramaswamy
Director





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Skill Enhancement &
Employability Development



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CSD/S24/2021

15 April 2021

CERTIFICATE

This is to certify that **Ms. Soniya Davis (Reg SHATMCS008)**, student of MSc. Computer Science, Sacred Heart College, Chalakkudy has successfully completed the project training on topic '**Fighting against covid-19: A comparative study of deep learning and machine learning algorithms for Face Mask Detection**', held at **Centre for Skill Enhancement & Employability Development (CSEED)** from **January 2021 to March 2021**. As per our measurement, the candidate was excellent during the training period.



Lakshmi Geetha

LAKSHMI GEETHA
MANAGER



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CSD/523/2021

15 April 2021

CERTIFICATE

This is to certify that **Ms. Archana Venugopal (Reg. SHATMCS003)**, student of MSc. Computer Science, Sacred Heart College, Chalakkudy has successfully completed the project training on topic '**Speech emotion recognition using deep learning**', held at **Centre for Skill Enhancement & Employability Development (CSEED)** from **January 2021 to March 2021**. As per our measurement, the candidate was excellent during the training period.



LAKSHMI GEETHA

MANAGER



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March 17, 2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **NIMMY .T.J (REG NO: SHATMCS006)** 4th semester MSC Computer Science student of **SACRED HEART COLLEGE, CHALAKUDY** has successfully completed a project titled "**DETECTION OF PHISHING EMAIL USING CYBERSPY**" from our organization.

The duration of the project was for 6 months. The Project was incorporated in **PYTHON** and was implemented successfully.

Thanking you,

For LCC Computer Education

T.S. Ramaswamy
Director





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March 17, 2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that ANAIDA .C.S (REG NO: SHATMCS002) 4th semester MSC Computer Science student of SACRED HEART COLLEGE, CHALAKUDY has successfully completed a project titled "COMPARISON OF EDGE PRESERVING IMAGE SMOOTHING ARCHITECTURAL MODELS" from our organization.

The duration of the project was for 6 months. The Project was incorporated in PYTHON and was implemented successfully.

Thanking you,

For LCC Computer Education

T.S. Ramaswamy
Director





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CSD/526/2021

15 April 2021

CERTIFICATE

This is to certify that Ms. Dhriya Preman (Reg SHATMCS004), student of MSc. Computer Science, Sacred Heart College, Chalakkudy has successfully completed the project training on topic 'Analysis of SVM and Random Forest using drowsiness detection', held at Centre for Skill Enhancement & Employability Development (CSEED) from January 2021 to March 2021. As per our measurement, the candidate was excellent during the training period.



LAKSHMI GEETHA

MANAGER



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CSD/525/2021

15 April 2021

CERTIFICATE

This is to certify that **Ms. Vismaya Vikraman (Reg SHATMCS009)**, student of MSc. Computer Science, Sacred Heart College, Chalakudy has successfully completed the project training on topic '**Vehicle helmet detection from videos based on YOLO V3**', held at Centre for Skill Enhancement & Employability Development (CSEED) from **January 2021 to March 2021**. As per our measurement, the candidate was excellent during the training period.



LAKSHMI GEETHA

MANAGER