



# **SREE NARAYANA COLLEGE, CHATHANNUR**

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**SECOND CYCLE NAAC ACCREDITATION 2023**

## **CRITERION 1**

### **CURRICULAR ASPECTS**

**1.3.2: Percentage of students undertaking project work/field work/ internships**

*Submitted to*



**THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**



## **SREE NARAYANA COLLEGE, CHATHANNUR**

### **PROJECT WORK COMPLETION CERTIFICATE,** **2021-22**


**GRAPH COLORING**  
Project Submitted to the University of Kerala in partial fulfillment of the  
Requirements for the award of the Degree of  
**BACHELOR OF SCIENCE IN MATHEMATICS**


**SUBMITTED BY:**

**Name of the Students with Candidates code**

ANANDHU G S	22019130002
NEETHU T N	22019130011
NEERAJ B MITHRA	22019130030
VIDHYA SHAJI S	22019130039

**EXAM CODE : 22018601**  
**SUBJECT CODE : MM 1646**  
Under the supervision and guidance of  
**Mrs. RASMI KUNDANCHERI**


  
POST GRADUATE DEPARTMENT OF MATHEMATICS  
SREE NARAYANA COLLEGE CHATHANNUR  
(Affiliated to University of Kerala)  
2019-2022




1 / 34

**CERTIFICATE**

This is to certify that the project entitled, "GRAPH COLORING", is a bona fide work  
studied carried out by the students ANANDHU G.S, NEETHU T.N, NEERAJ B MITHRA  
and VIDHYA SHAJI S under my guidance in partial fulfillment of the requirements for the  
award of degree of BACHELOR OF SCIENCE in MATHEMATICS of the  
University of Kerala.

  
Dr. Rami Rajeevan  
Head of Department  
(Mathematics)  
Sree Narayana College,  
Chathannur

  
Mrs. Rasmi Kundancheri  
Assistant Professor  
Department of Mathematics  
Sree Narayana College,  
Chathannur

2 / 34

# INDEX NUMBERS

Project Submitted to the University of Kerala in partial fulfillment of the requirements for the  
Award of the Degree of Bachelor of Science in Mathematics

Name of the students	SUBMITTED BY	Candidate Code
ANJU S		22019130005
ATHIRA R		22019130007
ATHIRA S		22019130008
ISHA S		22019130009
SRUTHYS		22019130005

EXAM CODE:  
SUBJECT CODE:

Under the supervision and Guidance of  
**Dr. ANJANA S S**



POST GRADUATE DEPARTMENT OF MATHEMATICS  
SREE NARAYANA COLLEGE  
KOLLAM, KERALA



SREE NARAYANA COLLEGE  
KOLLAM

## CERTIFICATE

This is to certify that the project entitled, 'Index Numbers' is a bonafide work studies carried out by the team Anju S, Athira R, Athira S, Isha S, Sruthy S under my supervision guidance in partial fulfillment of the requirements for the degree of Bachelor of Science in Mathematics of the University of Kerala and has not been submitted earlier for the award of any degree.

  
ANJANA S S  
(Project Guide)  
ASST LECTURER  
DEPARTMENT OF STATISTICS

  
Dr. ANJANAMMA  
(HOD)  
ASSISTANT PROFESSOR  
DEPARTMENT OF MATHEMATICS

**Applications of Matrix**

*Project Submitted to the University of Kerala in partial fulfillment of the Requirements for the award of the Degree of*

**BACHELOR OF SCIENCE IN MATHEMATICS**

**SUBMITTED BY**

Name of the Students with Candidates code

ANJANA B PRASAD	22019130003
PREETHI PRASAD	22019130012
ANJALY SUNIL	22019130021
SAJIN S R	22019130031

EXAM CODE : 22018602

SUBJECT CODE : MM 1646

Under the supervision and guidance of

**MS. ANJANA G**



UNDERGRADUATE DEPARTMENT OF MATHEMATICS  
SREE NARAYANA COLLEGE CHATHANNUR


*(Affiliated to University of Kerala)*

2019-2022



**CERTIFICATE**

This is to certify that the project entitled, "Applications of matrix", is bona fide work which carried out by the name Anjana B Prasad, Preethi Prasad, Anjaly Sunil, and Sajin S R under my guidance in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE in MATHEMATICS of the University of Kerala.

  
Dr. Ramesh Rajagovan  
Head of Department  
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SREE NARAYANA COLLEGE,  
CHATHANOR

QUADRATIC RESIDUES  
AND  
QUADRATIC RECIPROCITY LAW



Dissertation submitted in fulfillment of the requirements for the degree of

Bachelor's Degree of Science in Mathematics.

2019 – 2022



QUADRATIC RESIDUES  
AND  
QUADRATIC RECIPROCITY LAW

Project Submitted to the University of Kerala in partial fulfillment of the requirements for the award of the

Bachelor's Degree of Science in Mathematics

Submitted By

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VISHNU DAS, B	2201020007
ANSHITHA SHANTHAN U	2201020009
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Under the supervision and guidance of

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EXAM CODE - 22010200  
SUBJECT CODE - 602 004



POST GRADUATE DEPARTMENT OF MATHEMATICS

SREE NARAYANA COLLEGE CHATHANOR

Affiliated to University of Kerala

2019 – 2022



## METRIC SPACES

Project Submitted to the University of Kerala in partial fulfillment of the requirements for the award of the

Bachelor's Degree of Science in Mathematics

### Submitted By

Name of the Student	Candidate Code
SUVEKA D. R	22010130024
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REMYA SUDHAN	22010130014
SHERIN JOHN	22010130071

Under the supervision and guidance of

Mrs. RAMSIYA R

EXAM CODE	22010602
SUBJECT CODE	MSA 1046



UNDERGRADUATE DEPARTMENT OF MATHEMATICS

SRIE NARAYANA COLLEGE CHATTRANNUR

Affiliated to University of Kerala

2019 - 2022

## CERTIFICATE

This is to certify that the project dissertation entitled "Metric Spaces" is a bonafide original work carried out by, Suvika D. R. (22010130024), Lipsika A. (22010130009), Remya Sudhan (22010130014), Sherin John (22010130071) under my supervision and submitted to the University of Kerala in partial fulfillment of the requirements for the Degree of Bachelor of Science with degree programme in Mathematics under CBCS System.

  
Dr. Bandha Rajeevan  
Head of the department  
Department of Mathematics  
Sree Narayana College  
Chattrannur

  
Mrs. Ramsiya R  
Assistant Professor/Coordinator  
Department of Mathematics  
Sree Narayana College  
Chattrannur



# A STUDY ON GRAPH SPECTRA AND ITS APPLICATIONS

*Project submitted to the University of Kerala in partial fulfillment of the  
requirements for the Degree of Master of Science in Mathematics.*

Candidate Name : AKSHARA S  
Candidate Code : 62020130002  
Exam code : 62020401  
Subject code : MM245

2020-2022

Under the supervision and guidance of

**RAMSIYA BASHEER**  
Guest Lecturer  
Sree Narayana College, Chathannur



POST GRADUATE DEPARTMENT OF MATHEMATICS


SREE NARAYANA COLLEGE

CHATHANNUR, KOLLAM, KERALA



## CERTIFICATE

I hereby certify that this project "A STUDY ON GRAPH SPECTRA AND  
ITS APPLICATIONS" is a bonafide review of the literature on the topic  
carried out by AKSHARA S during 2020-2022 under my supervision guidance  
in partial fulfillment of the requirements for the Degree of Master of Science in  
Mathematics of the University of Kerala.

  
**RAMSIYA BASHEER**  
Guest Lecturer  
Department of Mathematics  
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Kollam

## MELLIN TRANSFORM

*Project submitted to the University of Kerala in partial fulfillment of the requirements for the Degree of Master of Science in Mathematics.*

Candidate Name : VLI V  
Candidate Code : 62020130018  
Exam code : 62020401  
Subject code : MM245

2020-2022

Under the supervision and guidance of

**ANJANA G**

Guest Lecturer

Sree Narayana College, Chathannur



POST GRADUATE DEPARTMENT OF MATHEMATICS

SREE NARAYANA COLLEGE

CHATHANNUR, KOLLAM, KERALA



## CERTIFICATE

I hereby certify that this project "MELLIN TRANSFORM" is a bonafide review of the literature on the topic carried out by VLI V during 2020-2022 under my supervision guidance in partial fulfillment of the requirements for the Degree of Master of Science in Mathematics of the University of Kerala.

For >

**ANJANA G**

Guest Lecturer

Department of Mathematics

SN college chathannur

Kollam



SREE NARAYANA COLLEGE

CHATHANNOOR



PROJECT REPORT

THE STUDY ON SEPRATION AND CHEMICAL CHARACTERISTICS  
OF SILLIMANITE OBTAINED FROM THE BEACH PLACERS OF  
KERALA

SIXTH SEMESTER

DEPARTMENT OF CHEMISTRY AND  
INDUSTRIAL CHEMISTRY



2019-2022

SREE NARAYANA COLLEGE

CHATHANNOOR



CERTIFICATE

Certified that this is the bonafide record of the project entitled "THE  
STUDY ON SEPRATION AND CHEMICAL CHARACTERISTICS OF  
SILLIMANITE OBTAINED FROM THE BEACH PLACERS OF  
KERALA" submitted by GREESHMA S.S (24119130094) GEETHABHARANI S  
(24119130014) L. ANWARAYA (24119129017) MIRKHA SURESH  
(24119130020) in the partial fulfillment of the award of the Bachelor Degree in  
Chemistry and Industrial Chemistry in an authentic work carried out under the  
supervision and guidance during the period of 2019-2022

Guided By,

Mr. SHADU P

Assistant Professor in Chemistry

Sree Narayana College, Chathannoor



TRAVANCORE TITANIUM PRODUCTS LIMITED  
KOCHUVELI

PROJECT REPORT

SREE NARAYANA COLLEGE  
CHATHANNOOR

Department of Chemistry and Industrial Chemistry

Submitted by :

- Sarika S
- Salin kumar S
- Pranav S
- Meenakshy Venu
- Sreelekmi P
- Krishnendhu AM
- Aromal S



SREE NARAYANA COLLEGE  
CHATHANNOOR

CERTIFICATE

This to certify that Sarika S, Salin Kumar S, Pranav S, Meenakshy Venu, Sreelekmi P, Krishnendhu A M, Aromal S has worked on " MANUFACTURING OF TITANIUM DIOXIDE AND IT'S INDUSTRIAL IMPORTANT", under the supervision of Dr .N K Sreedevi at TRAVANCORE TITANIUM PRODUCTS LIMITED , THIRUVANANTHAPURAM for the fulfilment of the degree of Bachelor of Chemistry and Industrial Chemistry in Sree Narayana College Chathannoor during the year 2019-22 of Kerala University in genuine record of the project work carried out under my Guidance.

Chathannoor,

Dr N B Sreekala

Head of the department of Industrial Chemistry

Sree Narayana College Chathannoor



**ANALYSIS OF TITANIUM ORE FROM TWO DIFFERENT SOURCES**

Work done at

**Kerala Metals and Minerals Ltd, Kollam**

Project report submitted to

**Kerala University**

In partial fulfillment of the requirement for the award of the degree of Bachelor of Science in Chemistry and Industrial Chemistry

by

Candidate Name	Registration No.
Lekshmi D Karanth S	24119130018
Anupama A.L	24119130011
Karthi M.S	24119130005
Athul Krishnan	24119130011



**DEPARTMENT OF CHEMISTRY AND INDUSTRIAL CHEMISTRY  
SREE NARAYANA COLLEGE  
CHATHANNUR**

**SREE NARAYANA COLLEGE  
CHATHANNUR**




**CERTIFICATE**

This to certify that LKSHMI D KARUNAN S, ANUPAMA A L, KARTHU M S, ATHUL KRISHNAN has worked on "ANALYSIS OF TITANIUM ORES FROM TWO DIFFERENT SOURCES" Under the supervision of Dr. SHAIJUL P Deputy manager G/C Unit of Kerala Metals and Minerals Ltd Kollam for the fulfillment of the degree in Bachelor of Chemistry & Industrial Chemistry in Sree Narayana College Chathannur during the year 2019 to 2022 of Kerala University in grosser record of the Project work carried out under His guidance

Chathannur

Date: 17/1/2024

  
**Dr. SHAIJUL P**  
Assistant Professor in Chemistry  
Sree Narayana College  
Chathannur



SREE NARAYANA COLLEGE  
CHATHANNOOR



PROJECT REPORT

ESTIMATION OF  $\text{TiO}_2$  CONTENT IN  
LEUCOXENE AT CHAVARA BEACH  
MINERAL SAND

SIXTH SEMESTER  
DEPARTMENT OF CHEMISTRY AND  
INDUSTRIAL CHEMISTRY

2019-2022



IREL (INDIA) LIMITED

SREE NARAYANA COLLEGE  
CHATHANNOOR



CERTIFICATE

Certified that this is the bonafide record of the project entitled "ESTIMATION OF  $\text{TiO}_2$  CONTENT IN LEUCOXENE AT CHAVARA BEACH MINERAL SAND" submitted by ANUPAMA J (24119130301), GREESHMA M S (24119130003), SOUMYA L (24119130826), THASNI B (24119130029) in the partial fulfillment of the award of the Bachelor Degree in Chemistry and Industrial Chemistry in an authentic work carried out under the supervision and guidance during the period of 2019-2022.

Guided By,

  
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Assistant Professor in Chemistry  
Sree Narayana College, Chathannoor



External Examiner

Internal Examiner

SREE NARAYANA COLLEGE  
CHATHANNOOR



PROJECT REPORT

THE STUDY ON SEPRATION AND CHEMICAL CHARACTERISTICS  
OF SILLIMANITE OBTAINED FROM THE BEACH PLACERS OF  
KERALA

SIXTH SEMESTER

DEPARTMENT OF CHEMISTRY AND  
INDUSTRIAL CHEMISTRY

2019-2022



SREE NARAYANA COLLEGE  
CHATHANNOOR



CERTIFICATE

Certified that this is the bonafide record of the project  
entitled "THE STUDY ON SEPRATION AND CHEMICAL  
CHARACTERISTICS OF SILLIMANITE OBTAINED FROM THE  
BEACH PLACERS OF KERALA" submitted by SITHIRA M S  
(24119130067) in the partial fulfillment of the award of the Bachelor Degree in  
Chemistry and Industrial Chemistry in an authentic work carried out under the  
supervision and guidance during the period of 2019-2022.

Guided By,

MR. SHARIF

Assistant Professor in Chemistry

Sree Narayana College, Chathannoor



**PHYTOCHEMICAL ANALYSIS, ANTIOXIDANT AND  
ANTIMICROBIAL ACTIVITY OF POMEGRANATE  
(Punica granatum L.) PEEL**

Dissertation

Submitted to the University of Kerala in Partial Fulfillment of the  
Requirement for the Degree of Masters of Science in Chemistry

By

ARCHA S BABU

Candidate Code : 62520130065  
Dissertation Code : CH 243  
Course Code : 635



DEPARTMENT OF CHEMISTRY  
SREE NARAYANA COLLEGE CHATHANNUR

May 2022

**BONAFIDE CERTIFICATE**

This is to certify that this is the bonafide project work entitled '*Phytochemical analysis, antioxidant and antimicrobial activity of pomegranate peel*' done by ARCHA. S. BABU of Department of Chemistry, Sree Narayana College, Chathannur, in partial fulfillment of the requirement for the award of the degree of Master of Science in Chemistry, by the University of Kerala, submitted for the University examination held in 2022.

Dr. Vidhya, R. V  
Assistant Professor,  
Department of Chemistry,  
S N College, Chathannur.

Dr. N. B. Sreekala,  
Head of the Department,  
Department of Chemistry,  
S N College, Chathannur.





ANALYSIS OF HEAVY METALS AND MINERALS IN  
SELECTED SHELL FISH

Project report submitted to the

UNIVERSITY OF KERALA

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

MASTER OF SCIENCE

in

CHEMISTRY

By

POOJA J

63520130009



DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE,  
KARAMCODE P.O., CHATHANNOOR, KERALA-691579

Under the supervision of

AJINI A.S



CASHEW EXPORT AND PROMOTION COUNCIL OF INDIA,

KOLLAM-691001

MAY 2022

सी डी सी आई प्रयोगशाला  
एवं अनुसंधान संस्थान



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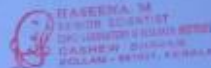
CERTIFICATE

This is to certify that this dissertation entitled "Analysis of Heavy metals and Minerals in selected Shell fish" is a bonafide record of independent work carried out by Ms. Pooja J, M.Sc. Chemistry student, S.N College, Chathannoor under the guidance and supervision of Mrs. Ajini A.S, Scientist of this institute. It is further certified that she has independently reviewed the literature, performed all the tests, analyzed the results and critically discussed the findings in presenting the data.

This is in partial fulfillment of the requirements for the *Master's Degree in Chemistry of University of Kerala.*

Kollam  
12-08-2022

HUSSEINA  
Husseina.M  
Senior Scientist



Established by



Accreditations & Approvals

- NABL, as per ISO/IEC 17025: 2017 in the fields of Chemical and Biological Testing (TC 4000)
- Bureau of Indian Standards (BIS) for Packaged Drinking Water Testing • FICSI notified Laboratory

DIR: LT/4000/1000/PL/000000

A STUDY ON QUALITY OF WORK LIFE AMONG WOMEN  
WORKERS IN CASHEW FACTORIES WITH SPECIAL REFERENCE  
TO THRIKKOVLVATTOM GRAMA PANCHAYATH

PROJECT REPORT

*Submitted to University of Kerala in partial fulfillment of the requirement for the  
Award of the degree of*

MASTER OF COMMERCE

Submitted by

LEKSHMI SURESH

CANDIDATE CODE : 59020130011

EXAM CODE : 59018403

COURSE CODE : 590

INSTITUTION CODE : 130

CERTIFIED BY



Dr. M.G. BIJU

Head of the Department

Department of Commerce

Sree Narayana College, Chathannur

A STUDY ON QUALITY OF WORK LIFE AMONG WORKERS WITH  
SPECIAL REFERENCES TO TEXTILE RETAIL SHOWROOMS IN  
KOLLAM

PROJECT REPORT

*Submitted to University of Kerala in partial fulfillment of the requirement for the  
Award of the degree of*

MASTER OF COMMERCE

Submitted by

CHITHIRA.B

CANDIDATE CODE : 59020130006

EXAM CODE : 59018403

COURSE CODE : 590

INSTITUTION CODE : 130

CERTIFIED BY



Dr. M. G. BIJU

Head of the Department

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## CENTERS OF WORSHIP IN KOLLAM TALUK

Dissertation submitted to the University of Kerala in the partial fulfillment of the requirements for the award of the degree of Bachelor of Arts in History.

### Submitted by

Lekshmi Jayamohan : 14019130007  
Sumayya, S : 14019130012  
Abhirami, S : 14019130014  
Kavya Binu : 14019130039  
Pavithra, M : 14019130048

Subject Code: HY 1645

Programme Code: 140

Under the Guidance of

Dr. Ardra, S


DEPARTMENT OF HISTORY  
SREE NARAYANA COLLEGE CHATHANNUR



## CERTIFICATE

This is to certify that the dissertation entitled "Centers of Worship in Kollam Taluk" is a bonafide work carried out by Lekshmi Jayamohan (Reg.No.14019130007), Sumayya, S (Reg. No. 14019130012), Abhirami, S (Reg. No.14019130014), Kavya Binu (Reg. No. 14019130039), Pavithra, M (Reg. No. 14019130048) under my supervision and guidance in the Department of History, Sree Narayana College, Chathannur. Certified further, that to the best of my knowledge no part of this dissertation has been published or submitted before for the award of any Degree, Diploma, Title or Recognition.

Chathannur  
5/5/2022

  
Dr. Ardra, S  
Supervising Teacher  
Head of the Department  
Department of History  
Sree Narayana College Chathannur

**SOCIAL REFORMERS OF KERALA: SPECIAL  
REFERENCE TO V T BHATTATHIRIPAD**

Dissertation submitted to the University of Kerala in the partial fulfillment of the requirements for the award of the degree of Bachelor of Arts in History.

**Submitted by**

Abhinav S	:	14019130013
Amritha S Prasad	:	14019130018
Manju S	:	14019130044
Reshma Raj R S	:	14019130052

**Subject Code: HY 1645**

**Programme Code: 140**

**Under the Guidance of**

**Dr. Ardra. S**




**DEPARTMENT OF HISTORY  
SREE NARAYANA COLLEGE  
CHATHANNUR**

**CERTIFICATE**

This is to certify that the dissertation entitled "Social Reformers of Kerala: Special Reference to V. T. Bhattathiripad" is a bonafide work carried out by Abhinav S (Reg. No. 14019130013), Amritha S Prasad (Reg. No. 14019130018), Manju S (Reg. No. 14019130044), Reshma Raj R S (Reg. No. 14019130052) under my supervision and guidance in the Department of History, Sree Narayana College, Chathannur. Certified further, that to the best of my knowledge no part of this dissertation has been published or submitted before for the award of any Degree, Diploma, Title or Recognition.

Chathannur  
5.1.2022

  
Dr. Ardra. S  
Supervising Teacher  
Head of the Department  
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BEACH TOURISM CENTERS IN  
THIRUVANANTHAPURAM DISTRICT

Disertation submitted to the University of Kerala in the partial fulfillment of the  
requirements for the award of the degree of Bachelor of Arts in History.

Submitted by

Bhadrakaja Babu : 14019130004  
Swathy S J : 14019130011  
Arjun R : 14019130022  
Sudheep S : 14019130060  
Swathy. A : 14019130062

Subject Code: HY 1645  
Programme Code: 140  
Under the Guidance of  
Dr. Arles. S


DEPARTMENT OF HISTORY SREE NARAYANA  
COLLEGE CHATHANNUR



CERTIFICATE

This is to certify that the dissertation entitled "Beach Tourism Centers in  
Thiruvananthapuram District" is a bonafide work carried out by Bhadrakaja Babu  
(Reg.No.14019130004), Swathy S J (Reg. No. 14019130011), Arjun R (Reg.  
No.14019130022), Sudheep. S (Reg. No. 14019130060), Swathy. A  
(14019130062) under my supervision and guidance in the Department of  
History, Sree Narayana College, Chathannur. Certified further, that to the best  
of my knowledge no part of this dissertation has been published or referred  
before for the award of any Degree, Diploma, Title or Recognition.

Chairman  
DS/CS/2022

  
Dr. Arles. S  
Supervising Teacher  
Head of the Department  
Department of History  
Sree Narayana College Chathannur

**PANDIT K. P. KARUPPAN: A MULTIFACETED  
PERSONALITY**

Dissertation submitted to the University of Kerala in the partial fulfillment of the requirements for  
the award of the degree of Bachelor of Arts in History.

Submitted by

JASMI S PRAKASH : 14019130027  
BHIANVA S G : 14019130005  
GOPIKA S G : 14019130012  
ANANDU S KUMAR : 14019130019  
SANDRA S NATH : 14019130014

Subject Code: HY 3645

Programme Code: 140

Under the Guidance of

JINU C V

DEPARTMENT OF HISTORY  
SREE NARAYANA COLLAGE  
CHATHANNOR



**CERTIFICATE**

This is to certify that the dissertation entitled "Pandit K. P. Karuppan: A Multifaceted Personality" is a bonafide work carried by Jasmi S. Prakash (Reg. No. 14019130027), Bhianva S. G. (Reg. No. 14019130005), Gopika S. G. (Reg. No. 14019130012), Anand S. Kumar (Reg. No. 14019130019), and Sandra S. Nath (Reg. No. 14019130014) under my supervision and guidance in the department of history, Sree Narayana College, Chathannor. Certified further, that to the best of my knowledge no part of this dissertation has been published or submitted before for the award of any Degree, Diploma, Title or Recognition.

Chairman  
*B. S. S. S.*

*Jinu C V*  
JINU C. V  
Supervising Teacher  
Assistant professor  
Department of History,  
Sree Narayana College,  
Chathannor