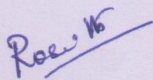


DECLARATION

CERTIFICATE

This is to certify that the dissertation entitled " ALEXANDROFF SPACE " is a bonafide record of work carried out by ANIT JACOB, Reg.No: CRASMMS001 of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.

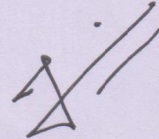


Ms. ROSEMITTY P.M

Assistant professor

Department of mathematics

Carmel College, Mala

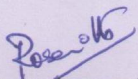


Ms. JISMY JOSEPH

Head of the Department

Department of mathematics

Carmel College, Mala



Internal examiner

Rose Mitty P.M.
Assistant Professor on Contract
Dept. of Mathematics
Carmel College, Mala



External examiner

Smita Davis
Assistant Professor, Head
Mathematics
S H College, Chalakudy

CERTIFICATE

This is to certify that the dissertation entitled "DECISION THEORY" is a bonafide record of work carried out by ANUJA THANKAPPAN, Reg.No: CRASMMS002 of MSc. Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.

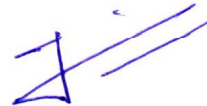


Ms. SNEHA JOHN

Assistant professor

Department of mathematics

Carmel College, Mala

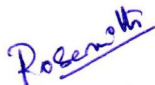


Dr. JISMY JOSEPH

Head of the Department

Department of mathematics

Carmel College, Mala



Internal examiner

Rosemitty P.M.

Assistant Professor on Contract

Dept. of Mathematics.

Carmel College, Mala.



External examiner

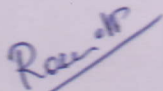
Snisha Davis

Assistant Professor, Head
Mathematics

S.H College, Chalakudy.

CERTIFICATE

This is to certify that the dissertation entitled "SPECTRAL GRAPH THEORY" is a Bonafide record of work carried out by ASHNA JAISON, Reg.No: CRASMMS003 of MSc. Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.

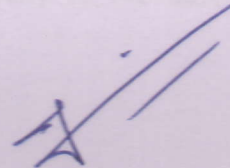


Ms. ROSEMITTY P M

Assistant professor

Department of mathematics

Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

Department of mathematics

Carmel College, Mala



Internal examiner

Rose Mitty P.M.
Assistant Professor on Contract.
Dept. of Mathematics.
Carmel College Mala.



External examiner

Smitha Davis
Assistant Professor, Head
Dept. of Mathematics
SH college, Chalakudy.

CERTIFICATE

This is to certify that the dissertation entitled "FUNDAMENTAL GROUP IN ALGEBRAIC TOPOLOGY" is a bonafide record of work carried out by AYANA VIJAYAN, Reg.No: CRASMMS004 of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.



Ms. SNEHA JOHN

Assistant professor

Department of mathematics
Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

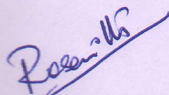
Department of mathematics
Carmel College, Mala

MALA

02-07-2020

AYANA VIJAYAN

Reg.No: CRASMMS004



Internal examiner

Rose Mitty P.M.
Assistant Professor on Contract
Dept. of Mathematics
Carmel College, Mala.



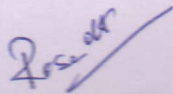
External examiner

Smidha Daus
Assistant Professor) Head
Mathematics
SH College, Chalaky

CERTIFICATE

DECLARATION

This is to certify that the dissertation entitled "SEMIRING" is a bonafide record of work carried out by BINNY K BABY, Reg.No:CRASMMS005 of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.

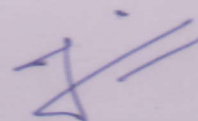


Ms. ROSEMITTY P M

Assistant professor

Department of mathematics

Carmel College, Mala

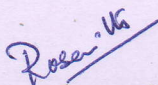


Dr. JISMY JOSEPH

Head of the Department

Department of mathematics

Carmel College, Mala



Internal examiner

Rosemitty P.M.
Assistant Professor on Contract
Dept. of Mathematics
Carmel College, Mala.



External examiner

Smitha Davis
Assistant Professor
Mathematics
SH College, Chalakk

CERTIFICATE

This is to certify that the dissertation entitled "INTRODUCTION TO UNIFORM SPACES" is a bonafide record of work carried out by **BINO WILSON, Reg.No: CRASMMS006** of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.

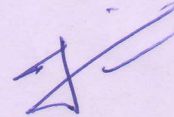
Assistant professor of Mathematics, Carmel College, Mala and no part of the dissertation has been presented before in any other Degree, Diploma, Associateship, Fellowship, or other similar title for the recognition of any University to the best of my knowledge and belief.



Ms. ROSEMITTY P M

Assistant professor

Department of mathematics
Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

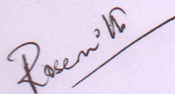
Department of mathematics
Carmel College, Mala

P.M. WALA

Date: 17/2/2020

BINO WILSON

Reg.No: CRASMMS006



Internal examiner

Rosemitty P.M.
Assistant Professor on Contract
Carmel College, Mala.
Dept. of Mathematics



External examiner


Smitha Davis
Assistant Professor, Head
SN college, Chalakudy

CERTIFICATE

DECLARATION

This is to certify that the dissertation entitled "KNOT THEORY AND ITS APPLICATIONS" is a Bonafede record of work carried out by DELNA DAVIS, Regna: CRASMMS007 of MSc. Mathematics under my supervision as partial fulfilment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.

at the dissertation entitled "KNOT THEORY AND ITS APPLICATIONS" in partial fulfillment for the award of the Master's Degree of Mathematics is a Bonafede work done by me during the period of study from 2018-2020 under the guidance of Ms. Reshma Varghese, Assistant professor of Mathematics, Carmel College, Mala. No part of the work has been presented before in any other Degree, Diploma, Associate ship, Fellowship or other similar title for the recognition of any University to the best of my belief.

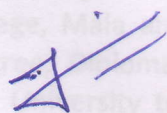

Ms. SNEHA JOHN

Assistant professor

Department of mathematics

Carmel College

Mala

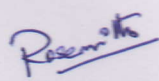

Dr. JISMY JOSEPH

Head of the Department


Department of mathematics

Carmel College

Mala


Internal examiner

Rosemilky P.M.
Assistant Professor on Contract
Dept of Mathematics.
Carmel College, Mala.



External examiner

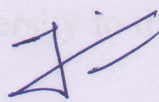
Smidha Davis
Assistant Professor, Head
Mathematics
SHT colleg, Chalakudy.

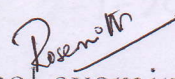
DECLARATION

CERTIFICATE


This is to certify that the dissertation entitled "TENSORS" is a bonafide record of work carried out by **HARITHA E N, Reg.No: CRASMMS008** of M.Sc. Mathematics under my supervision of as partial fulfilment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.


Ms. SNEHA, JOHN
Asst. Professor
Department of Mathematics
Carmel College, Mala


Dr. JISMY JOSEPH
Head of Department
Department of Mathematics
Carmel College, Mala


Internal examiner

Rose-mitty P. M.
Assistant Professor on Contract
Carmel College, Mala.
Dept. of Mathematics

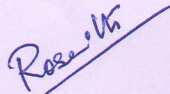

External examiner

Smitha Davis
Assistant Professor, Head
Sacred Heart College, Chelakudy

CERTIFICATE

This is to certify that the dissertation entitled "QUASIGROUP" is a bonafide record of work carried out by **HONEY THOMAS, Reg.No: CRASMMS009** of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.

Assistant professor of Mathematics, Carmel College, Mala and no part of the dissertation has been presented before in any other Degree, Diploma, Associateship, Fellowship, or other similar title for the recognition of any University to the best of my knowledge and belief.



Ms. ROSMITTY P M.,

Assistant professor

Department of Mathematics
Carmel College, Mala

Place: MALA

Date: 02.07.2010



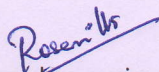
Dr. JISMY JOSEPH

Head of the Department

Department of Mathematics
Carmel College, Mala

HONEY THOMAS

Reg.No: CRASMMS009




Internal examiner

Rosemittty P.M

Assistant Professor in Contract

Carmel College, Mala.



External examiner

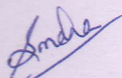
Smitha Dan's

Assistant Professor, Head

SH college, Chalakudy.

CERTIFICATE

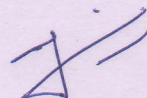
This is to certify that the dissertation entitled "SOFT SET" is a bonafide record of work carried out by **JESMI E P, Reg.No: CRASMMS010** of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.



Ms. SNEHA JOHN

Assistant professor

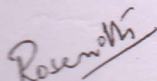
Department of mathematics
Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

Department of mathematics
Carmel College, Mala



Internal examiner

Rosemithy P.M.
Assistant Professor on Contract
Dept. of Mathematics
Carmel College, Mala.

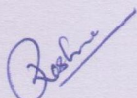


External examiner

Smitha Davis
Assistant Professor, Head
Mathematics
SH College, Chalakudy.

CERTIFICATE

This is to certify that the dissertation entitled "SEMIGROUP" is a bonafide record of work carried out by JITHAMOL P J, Reg.No: CRASMMS011 of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.




Ms. RESHMA VARGHESE

Assistant professor

Department of mathematics

Carmel College, Mala

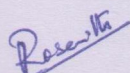


Dr. JISMY JOSEPH

Head of the Department

Department of mathematics

Carmel College, Mala



Internal examiner

Rosemitly P.M

Assistant Professor on Contract

Carmel College, Mala.



External examiner

Smitha Davis

Assistant Professor, Head

Mathematics

Su college, Chalakudy.

CERTIFICATE

This is to certify that the dissertation entitled "BAIRE SPACES AND DIMENSION THEORY" is a bonafide record of work carried out by **JIYA JOSE**, Reg.No: **CRASMM5012** of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.


Ms. ROSEMITY P M

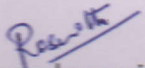
Assistant professor

Department of mathematics
Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

Department of mathematics
Carmel College, Mala


Internal examiner

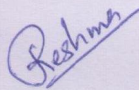
Rosemitty P.M.
Assistant Professor on Contract
Carmel College, Mala.


External examiner

Smitha Davis
Assistant Professor, head
SH College, Chalakudy.

CERTIFICATE

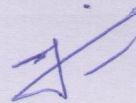
This is to certify that the dissertation entitled "INTRODUCTION TO MANIFOLDS" is a bonafide record of work carried out by **JUBIYA K J, Reg.No: CRASMMS013** of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.



Ms.RESHMA VARGHESE

Assistant professor

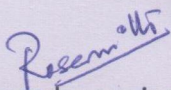
Department of mathematics
Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

Department of mathematics
Carmel College, Mala



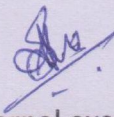
Internal examiner

Rosemitty P.M.

Assistant Professor on Contract

Dept. of Mathematics.

Carmel College, Mala.



External examiner

Smitha Davis

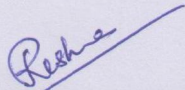
Assistant Professor, Head

Mathematics

Sacred Heart College, Chalakudy

CERTIFICATE

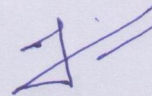
This is to certify that the dissertation entitled "NETS AND FILTERS" is a bonafide record of work carried out by KRISHNAPRIYA T C, Reg.No: CRASMMS014 of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.



Ms. RESHMA VARGHESE

Assistant professor

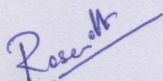
Department of mathematics
Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

Department of mathematics
Carmel College, Mala



Internal examiner

Rosemithy P.M.
Assistant Professor on Contract
Dept. of Mathematics
Carmel College, Mala.

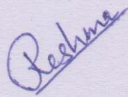


External examiner

Smitha Davis
Assistant Professor, Head
Mathematics
Sacred Heart College, Malakudy

CERTIFICATE

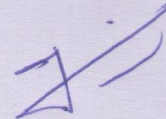
This is to certify that the dissertation entitled "**NETWORK ANALYSIS TECHNIQUES**" is a bonafide record of work carried out by **MARIYA CHERIYAN E, Reg.No: CRASMMMS015** of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.



Ms. RESHMA VARGHESE

Assistant professor

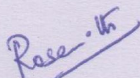
Department of mathematics
Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

Department of mathematics
Carmel College, Mala



Internal examiner

Rosemitty P.M
Assistant Professor in Contact
Carmel College, Mala.

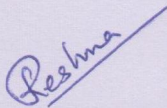


External examiner,

Smidha Davis
Assistant Professor, Head
Mathematics
Sacred Heart College, Chalakudy.

CERTIFICATE

This is to certify that the dissertation entitled "BILINEAR FORMS" is a bonafide record of work carried out by RIYA K P, Reg.No: CRASMMS016 of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.



Ms. RESHMA VARGHESE

Assistant professor

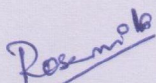
Department of mathematics
Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

Department of mathematics
Carmel College, Mala



Internal examiner

Rosemitty P.M.
Assistant Professor on Contract
Dept. of Mathematics.
Carmel College, Mala.



External examiner

Smitha Davis
Assistant professor, Head
Mathematics
Sacred Heart College,
Chalakkay.

CERTIFICATE

This is to certify that the dissertation entitled "BANACH ALGEBRA" is a bonafide record of work carried out by ROSHNI SATHIS, Reg.No: CRASMMS017 of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.

Professor of Mathematics, Carmel College, Mala and no part of the dissertation has been presented before in any other Degree, Diploma, Associate ship, Fellowship, or other similar title for the recognition of any University to the best of my knowledge and belief.



Ms. SNEHA JOHN

Assistant professor

Department of mathematics
Carmel College, Mala




Dr. JISMY JOSEPH

Head of the Department

Department of mathematics
Carmel College, Mala

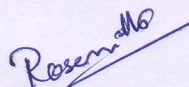
Place: MALA

Date: 07/05/2020



ROSHNI SATHIS

Reg.No: CRASMMS017



Internal examiner

Rosemitty P.M.
Assistant Professor on Contract
Dept. of Mathematics.
Carmel College, Mala.



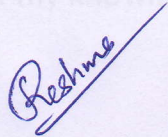
External examiner

Anisha Davis
Assistant Professor, Head
Mathematics.
SH College, Chalakudy.

CERTIFICATE

This is to certify that the dissertation entitled "CONTINUED FRACTION" is a bonafide record of work carried out by **SWATHY KRISHNA K P**, Reg.No: **CRASMMS018** of MSc.Mathematics under my supervision as partial fulfillment for the requirement of the Degree of Master of Science in Mathematics. No part of this project has been submitted for any other degree elsewhere.

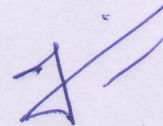
Assistant professor of Mathematics, Carmel College, Mala and no part of the dissertation has been presented before in any other Degree, Diploma, Associate ship, Fellowship, or other similar title for the recognition of any University to the best of my knowledge and belief



Ms. RESHMA VARGHESE

Assistant professor

Department of mathematics
Carmel College, Mala



Dr. JISMY JOSEPH

Head of the Department

Department of mathematics
Carmel College, Mala



Internal examiner

Rosemary P.M.
Assistant Professor on Contract
Dept. of Mathematics
Carmel College, Mala.



External examiner

Smidha Davis
Assistant Professor, Head
Mathematics
Sacred Heart College, Chalakudi