

Mahatma Gandhi College Thiruvananthapuram

Department of Mathematics

M.Sc. Projects (2021-23)

No.	Name	Project	Guide
1	Abhi M S	True Pairs Of Real Linear Operators	Mahesh
2	Anjali M S	Cryptography	Radhakrishnan
3	Anju J U	Fixed Point Theorems ; A Comparative Study	Ramkumar
4	Arathy M Nair	Mathematical Modelling in Population Growth and Epidemiology	Geetha
5	Athira K	Resolvability in Graphs	Ullas
6	Athira P R	Game Theory	Radhakrishnan
7	Devika Suresh	Farey Sequence	Geetha
8	Divya Sukeshan	Spanning Trees and Optimisation	Ramkumar
9	Edithiya D	Fixed Point Theorems On Metric Spaces and Their applications	Ullas
10	Kavya S R	Solutions of Nonlinear Equations	Ramkumar
11	Gayathri A P	Non - Euclidean Geometry	Mahesh
12	Lumina S R	Reimannian Geometry and Statistical Manifolds	Mahesh
13	Megha M P	Coding Theory	Geetha
14	Revathy M R	Graceful Graph	Ullas
15	Sneha S	Banach Algebra	Radhakrishnan
16	Sneha Sasi	An Introduction To Lie Algebra And Lie Groups	Geetha
17	Vipijith G M	Homology	Ramkumar
18	Hridya Mukesh	Modules	Ullas

Certified that the above students have submitted the project theme in the specified topics.

RL
Ramkumar R

A STUDY ON TRUE-PAIRS OF REAL LINEAR OPERATORS

*Dissertation submitted to the University of Kerala in partial
fulfillment of the requirements for the award of the degree of
Master of Science in Mathematics*

by

Name	Abhi M S
Candidate Code	62021118001
Exam Code	62020402
Subject Code	MM245

Department of Mathematics
Mahatma Gandhi College
Thiruvananthapuram - 695004

2021 - 2023



A STUDY ON CRYPTOGRAPHY

*Dissertation submitted to the University of Kerala in partial fulfillment
of the requirement for the award of the degree of
Master of Science in Mathematics.*

MG College

Presented by,
Anjali M.S.

Candidate Code : 62021118002
Exam Code : 62020402
Subject Code : MM 245

2021-2023



FIXED POINT THEOREMS; A COMPARITIVE STUDY

*Dissertation submitted to the University of Kerala in partial
fulfillment of the requirements for the award of the degree of
Master of Science in Mathematics*

by

Name	Anju J U
Candidate Code	62021118003
Exam Code	62020402
Subject Code	MM245

Department of Mathematics
Mahatma Gandhi College
Thiruvananthapuram - 695004

2021 - 2023



DISSERTATION

SUBMITTED TO THE UNIVERSITY OF KERALA IN
PARTIAL FULFILMENT OF THE REQUIREMENT FOR
THE DEGREE OF MASTER OF SCIENCE IN
MATHEMATICS

**MATHEMATICAL MODELLING IN
POPULATION GROWTH AND EPIDEMOLOGY**

SUBMITTED BY
ARATHY.M.NAIR

CANDIDATE CODE: 62021118004

EXAM CODE: 62020402

SUBJECT CODE: MM 245

DEPARTMENT OF MATHEMATICS
MAHATMA GANDHI COLLEGE
THIRUVANANTHAPURAM-04

UNIVERSITY OF KERALA
2021-2023



A STUDY ON RESOLVABILITY IN GRAPHS

*Dissertation submitted to the University of Kerala in partial
fulfillment of the requirements for the award of the degree of
Master of Science in Mathematics*

by

Name	Athira K
Candidate Code	62021118006
Exam Code	62020402
Subject Code	MM 245

Department of Mathematics
Mahatma Gandhi College
Thiruvananthapuram - 695004

2021 - 2023



A STUDY ON GAME THEORY

*Dissertation submitted to the University of Kerala in partial fulfillment
of requirement for the award of degree of
Master of Science in Mathematics.*

Presented by.
Athira P.R.

Candidate Code : 62021118007
Exam Code : 62020402
Subject Code : MM 245

2021-2023



DISSERTATION

SUBMITTED TO THE UNIVERSITY OF KERALA IN PARTIAL
FULFILMENT OF THE REQUIREMENT FOR THE DEGREE
OF MASTER OF SCIENCE IN MATHEMATICS

FAREY SEQUENCE

NAME : DEVIKA SURESH
CANDIDATE CODE : 62021118008
EXAM CODE : 62020402
SUBJECT CODE : MM 245

UNIVERSITY OF KERALA

2021-23



SPANNING TREES AND OPTIMIZATION

DISSERTATION

SUBMITTED TO THE UNIVERSITY OF KERALA IN PARTIAL
FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE
OF MASTER OF SCIENCE IN MATHEMATICS

Presented by

Divya Sukesan.S

Candidate Code: 62021118009

Exam Code: 62020402

Subject Code: MM 245

DEPARTMENT OF MATHEMATICS

MAHATMA GANDHI COLLEGE

THIRUVANANTHAPURAM

2021-2023



**A STUDY ON SOLUTIONS OF NON-LINEAR
EQUATIONS
DISSERTATION**

Submitted to the University of Kerala in Partial Fulfilment of the
Requirements for the Degree of Master of Science in Mathematics.

Submitted by,

KAVYA S.R

CANDIDATE CODE: 62021118013

EXAM CODE: 62020402

SUBJECT CODE: MM 245

DEPARTMENT OF MATHEMATICS

MAHATMA GANDHI COLLEGE

THIRUVANANTHAPURAM - 04

2021-2023



A STUDY ON NON-EUCLIDEAN GEOMETRY
DISSERTATION

Submitted to the University of Kerala in Partial
Fulfillment of the Requirements for the Degree of Master
of Science in Mathematics

Submitted by,
GAYATHRI A P

CANDIDATE CODE: 62021118011

EXAM CODE: 62020402

SUBJECT CODE: MM 245

DEPARTMENT OF MATHEMATICS

MAHATMA GANDHI COLLEGE

THIRUVANANTHAPURAM - 04

2021-2023



A STUDY ON REIMANNIAN GEOMETRY AND STATISTICAL MANIFOLDS

*Dissertation submitted to the University of Kerala in partial
fulfillment of the requirements for the award of the degree of
Master of Science in Mathematics*

by

Name	Lumina S R
Candidate Code	6021115014
Exam Code	6020402
Subject Code	10125

Department of Mathematics
Mahatma Gandhi College
Thiruvananthapuram - 695004

2021 - 2023



CODING THEORY

**THE DISSERTATION SUBMITTED TO THE UNIVERSITY OF KERALA IN
PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE DEGREE OF
MASTER OF SCIENCE IN MATHEMATICS**

SUBMITTED BY

MEGHA.M.P

CANDIDATE CODE : 62021118015

EXAM CODE: 62020402

SUBJECT CODE: MM 245

DEPARTMENT OF MATHEMATICS

MAHATHMA GANDHI COLLEGE

THIRUVANANTHAPURAM

2021-2023

GRACEFUL GRAPH

DISSERTATION

SUBMITTED TO THE UNIVERSITY OF KERALA IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS OF THE DEGREE OF MASTER OF SCIENCE IN MATHEMATICS.

Submitted by,

REVATHY M R

CANDIDATE CODE: 62021118016

EXAM CODE: 62020402

SUBJECT CODE: MM245

DEPARTMENT OF MATHEMATICS

MAHATMA GANDHI COLLEGE

THIRUVANANTHAPURAM – 04

2021-2023



**A STUDY ON
BANACH ALGEBRA**

*Dissertation Submitted to University of Kerala
in Partial Fulfillment of requirements for the
award of master of Science Degree in Mathematics
of the University of Kerala*

SUBMITTED BY

SNEHA.S

CANDIDATE CODE: 62021118017

EXAM CODE: 62020402

SUBJECT CODE: MM 245

DEPARTMENT OF MATHEMATICS

MAHATMA GANDHI COLLEGE

THIRUVANANTHAPURAM

2021-2023



HOMOLOGY

DISSERTATION

Submitted
to the University of Kerala
in partial fulfillment of the requirements of the Degree
of Master Science in Mathematics

Submitted By
VIPIJITH G.M

Candidate Code : 62021118019

Exam Code : 62020402

Department of Mathematics
MAHATMA GANDHI COLLEGE
Thiruvananthapuram
2021-2023



A STUDY ON MODULES

*Dissertation submitted to university of Kerala a partial fulfillment of the requirement for
the award of the Degree of*

MASTER OF SCIENCE

in

MATHEMATICS

Submitted by

HRIDYA MUKESH

CANDIDATE CODE : 62021118020

EXAM CODE : 62020402

SUBJECT CODE : MM 245

DEPARTMENT OF MATHEMATICS

MAHATMA GANDHI COLLEGE

THIRUVANANTHAPURAM

2021-2023



AN INTRODUCTION TO LIE ALGEBRA AND LIE GROUPS

**THE DISSERTATION SUBMITTED TO THE UNIVERSITY OF KERALA IN PARTIAL FULFILMENT OF THE
REQUIREMENT FOR THE DEGREE OF MASTER OF SCIENCE IN MATHEMATICS**

SUBMITTED BY

SNEHA SASI

CANDIDATE CODE: 62021118018

EXAM CODE: 62020402

SUBJECT CODE: MM 245

DEPARTMENT OF MATHEMATICS

MAHATHMA GANDHI COLLEGE

THIRUVANANTHAPURAM

2021-2023



FIXED POINT THEOREMS ON METRIC SPACES AND THEIR APPLICATIONS

Dissertation submitted to the University of Kerala in partial fulfillment of the requirement for the degree of Master of Science in Mathematics

2021 21

Page No. 1

AN INTRODUCTION TO LIE ALGEBRA AND LIE GROUPS

**THE DISSERTATION SUBMITTED TO THE UNIVERSITY OF KERALA IN PARTIAL FULFILMENT OF THE
REQUIREMENT FOR THE DEGREE OF MASTER OF SCIENCE IN MATHEMATICS**

SUBMITTED BY

SNEHA SASI

CANDIDATE CODE: 62021118018

EXAM CODE: 62020402

SUBJECT CODE: MM 245

DEPARTMENT OF MATHEMATICS

MAHATHMA GANDHI COLLEGE

THIRUVANANTHAPURAM

2021-2023



FIXED POINT THEOREMS ON METRIC SPACES AND THEIR APPLICATIONS

Dissertation submitted to the University of Kerala in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics

by

Name	Edithiya D
Candidate Code	62021118010
Exam Code	62020402
Subject Code	MM 245

**Department of Mathematics
Mahatma Gandhi College
Thiruvananthapuram - 695004**

2021 - 2023




Mahatma Gandhi College, Thiruvananthapuram

Department of Mathematics

Project completion Certificate

This is to certify that the following student has completed and submitted the project work in partial fulfillment of the requirement for the award of MSc Degree in Mathematics during the academic year 2022-23.

Candidate code	Name	Name of Super-wising teacher	Title of the project
62021118001	Abhi MS	Dr Mahesh TV	A Study on True-Pairs of Real Linear Operations

HOD: 
Ram Kumar R
Head
Department of Mathematics

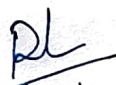
Mahatma Gandhi College, Thiruvananthapuram

Department of Mathematics

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Candidate code	Name	Name of Super-wising teacher	Title of the project
62021118002	Anjali M S	Dr K Radhakrishnan	A Study on Cryptography

HOD: 
Ram Kumar R
Head
Department of Mathematics

Mahatma Gandhi College, Thiruvananthapuram

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Candidate code	Name	Name of Super-ising teacher	Title of the project
62021118003	Anju J U	Dr Ramkumar R	Fixed Point Theorems; a Comparative Study

HOD:



Ramkumar R

Head

Department of Mathematics


Mahatma Gandhi College, Thiruvananthapuram

Department of Mathematics

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Candidate code	Name	Name of Super-ising teacher	Title of the project
62021118004	Arathy M Nair	Dr Geetha C	Mathematical Modeling in Population Growth and Epidemiology

HOD: 
Ram Kumar IZ
Head
Department of Mathematics

Mahatma Gandhi College, Thiruvananthapuram

Department of Mathematics

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Candidate code	Name	Name of Super-wising teacher	Title of the project
62021118006	Athira k	Dr Ullas Chandran S V	A Study on Resolvability in Graphs

HOD: RL
Ram Kumar.12
Head
Department of Mathematics

Mahatma Gandhi College, Thiruvananthapuram

Department of Mathematics

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Candidate code	Name	Name of Super-wising teacher	Title of the project
62021118007	Athira P R	Dr K Radhakrishnan	A Study on Game Theory

HOD: DL
Ram Kumar.12
Head
Department of Mathematics

Mahatma Gandhi College, Thiruvananthapuram

Department of Mathematics

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Candidate code	Name	Name of Super-ising teacher	Title of the project
62021118008	Devika Suresh	Dr Geetha C	Farey Sequence

HOD:



Ram Kumar I2
Head

Department of Mathematics


Mahatma Gandhi College, Thiruvananthapuram

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Candidate code	Name	Name of Super-ising teacher	Title of the project
62021118009	Divya Sukesan	Dr Ramkumar R	Spanning Trees and Optimization

HOD: 
Ramkumar R
Head
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Mahatma Gandhi College, Thiruvananthapuram

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Candidate code	Name	Name of Super-wising teacher	Title of the project
62021118010	Edithiya D	Dr Ullas Chandran S V	Fixed point Theorems On Metric Space and Their Applications

HOD: 
Ram Kumar R
Head
Department of Mathematics


Mahatma Gandhi College, Thiruvananthapuram

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Candidate code	Name	Name of Super-wising teacher	Title of the project
62021118011	Gayathri A P	Dr Mahesh T V	Non-Euclidean Geometry


HOD: Ramkumar R
Head
Department of Mathematics

Mahatma Gandhi College, Thiruvananthapuram

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Candidate code	Name	Name of Super-wising teacher	Title of the project
62021118013	Kavya SR	Dr Ramkumar R	Solutions Of Non Linear Equations

HOD: RL
Ramkumar R
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Candidate code	Name	Name of Super-ising teacher	Title of the project
62021118014	Lumina S R	Dr Mahesh T V	Reimannian Geometry and Statistical Manifolds

HOD: Pl
Ranjumar. R
Head
Department of Mathematics


Mahatma Gandhi College, Thiruvananthapuram

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Candidate code	Name	Name of Super-ising teacher	Title of the project
62021118015	Megha M P	Dr Geetha C	Coding Theory

HOD: 
Ram Kumar.12
Head
Department of mathematics


Mahatma Gandhi College, Thiruvananthapuram

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Candidate code	Name	Name of Super-wising teacher	Title of the project
62021118016	Revathy M R	Dr Ullas Chandran S V	Graceful Graph

HOD: 
Ram Kumar R
Head
Department of Mathematics


Mahatma Gandhi College, Thiruvananthapuram

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62021118017	Sneha S	Dr K Radhakrishnan	Banach Algebra

HOD: 
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Head
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Candidate code	Name	Name of Super-wising teacher	Title of the project
62021118018	Sneha Sasi	Dr Geetha C	An Introduction to Lie Algebra And Lie Groups

HOD: RL
Ramkumar R
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62021118019	Vipijith G M	Dr Ramkumar R	Homology

HOD: 
Ramkumar R
Head
Department of Mathematics

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62021118020	Hridya Mukesh	Dr Ullas Chandran S V	A study on Modules

HOD:

PL
Ram Kumar R
Head
Department of mathematics