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MSc MATHEMATICS

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A STUDY ON SEMIGROUP THEORY

*Dissertation submitted to the University of Kerala in partial fulfillment of
the requirement for the award of Degree of*

MASTER OF SCIENCE IN MATHEMATICS

of



University of Kerala

By

Candidate Code : 62021138002

Exam Code : 62020402

Subject Code : MM245

Year : 2023

CERTIFICATE

This is to certify that the thesis entitled "A STUDY ON SEMIGROUP THEORY", submitted, to the University of Kerala, in partial fulfillment for the award of the degree of Master of Science in Mathematics, is a bonafide record of the research work done by **AMEENA B** of this department.

Dr. Sibi C. Babu



Head of the Department

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AVERAGES OF ARITHMETIC FUNCTIONS

*Dissertation submitted for the partial fulfillment of requirement for
the degree of*

MASTER OF SCIENCE IN MATHEMATICS

of



University of Kerala

By

Candidate code : 62021138013

Exam Code : 62020402

Subject Code : MM245

Year : 2023

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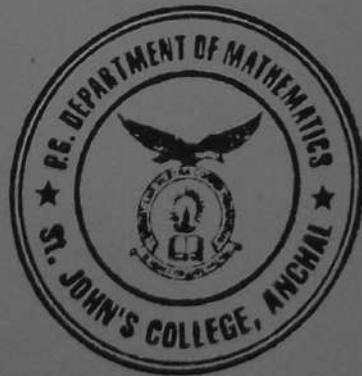
I here by certify that this dissertation here entitled **AVERAGES OF ARITHMETIC FUNCTIONS** is a bonafide record of the work carried out by Miss SYAMA M S MSc second year Mathematics student (2021-2023) of this department under my guidance and supervision in the partial fulfillment of the requirements for the Degree of Master Science in Mathematics of the University of Kerala.

DS

Dr. Dilip.D.S
Head of the Department
Department of Mathematics

[Handwritten Signature]

Dr. Sibi C Babu
Asst Professor
Supervising Teacher



A STUDY ON p -ADIC NUMBERS AND VALUATION THEORY

*Dissertation submitted to the University of Kerala in partial fulfillment of the requirement for
the award of Degree of*

MASTER OF SCIENCE IN MATHEMATICS



UNIVERSITY OF KERALA

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SUBJECT CODE : MM 245
YEAR : 2023

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I hereby certify that this project "A STUDY ON p-ADIC NUMBERS AND VALUATION THEORY" is a bonafide review of the literature on the topic carried out by AKSA KUNJUMON, under my supervision in partial fulfillment of the requirements for the Degree of Master of Science in Mathematics of the University of Kerala and no part of this has been submitted earlier for the award of any Degree.



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BITOPOLOGICAL SPACE

Dissertation submitted for the partial fulfillment of requirement for the degree of

MASTER OF SCIENCE IN MATHEMATICS

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I hereby certify that this project entitled BITOPOLOGICAL SPACE is a project work carried out by MUHAMMED AFSAL N S under my guidance and supervision, in partial fulfilment of the requirement for the MSc Degree in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any degree.



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Nonstandard Finite Difference Schemes

*Dissertation submitted to the University of Kerala in partial fulfillment of the
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MASTER OF SCIENCE IN MATHEMATICS



University of Kerala

By

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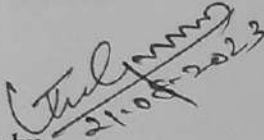
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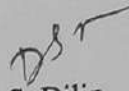
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I hereby certify that this project entitled "Nonstandard Finite Difference Schemes" is a project work carried out by VISHNU S under my guidance and supervision, in partial fulfilment of the requirement for the MSc Degree in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any degree.


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MEASURABLE DOMINATING FUNCTIONS

*Dissertation Submitted to the University of Kerala in partial fulfillment of
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I hereby certify that this project entitled " MEASURABLE DOMINATING FUNCTIONS" is a project work carried out by ASHINA S T under my guidance and supervision, in partial fulfilment of the requirement for the MSc Degree in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any degree.

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AN INTRODUCTION TO HYPERGRAPH THEORY AND ITS APPLICATIONS

Dissertation submitted for the partial fulfillment of requirement for the degree of

MASTER OF SCIENCE IN MATHEMATICS

of



University of Kerala

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Exam Code : 62020402
Subject Code : MM 245
Year : 2023

St. John's College, Anchal, Kollam

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I hereby certify that this project entitled "AN INTRODUCTION TO HYPER-GRAPH THEORY AND ITS APPLICATIONS" is a project work carried out by SELINA SAMUELKUTTY under my guidance and supervision, in partial fulfilment of the requirement for the MSc Degree in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any degree.

Sibi C Babu
21-06-2023

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BANACH ALGEBRA

Dissertation submitted for the partial fulfillment of requirement for the degree of

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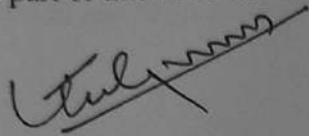
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I hereby certify that this project entitled "BANACH ALGEBRA" is a project work carried out by ARABHI ANIL under my guidance and supervision, in partial fulfilment of the requirement for the MSc Degree in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any degree.



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MANIFOLDS

*Dissertation submitted to the University of Kerala in the partial fulfilment of
requirement for the award of Degree of*

MASTER OF SCIENCE IN MATHEMATICS

of



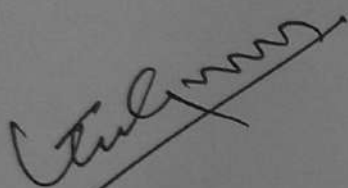
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By

Candidate Code	:	62021138006
Exam Code	:	62020402
Subject Code	:	MM 245
Year	:	2023

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This is to certify that the thesis entitled **MANIFOLDS**, submitted, to the University of Kerala, in partial fulfilment for the award of the degree of Master of Science in Mathematics, is a bonafide record of the research work done by **ATHIRA S** of this department.



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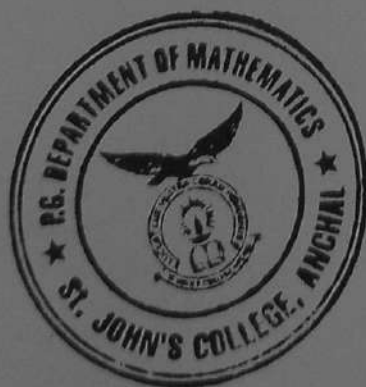
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AFFINE SPACES

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University of Kerala

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Subject Code : MM 245
Year : 2023

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This is to certify that the thesis entitled AFFINE SPACES, submitted, to the University of Kerala, in partial fulfillment for the award of the degree of Master of Science in Mathematics, is a bonafide record of the research work done by SANDRA SIVAN of this department.



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A STUDY ON QUADRATIC FORMS

*Dissertation submitted to the University of Kerala in partial fulfillment of the requirement for
the award of Degree of*

MASTER OF SCIENCE IN MATHEMATICS



UNIVERSITY OF KERALA

BY

CANDIDATE CODE : 62021138012
EXAM CODE : 62020402
SUBJECT CODE : MM 245
YEAR : 2023

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I hereby certify that this project "A STUDY ON QUADRATIC FORMS" is a bonafide review of the literature on the topic carried out by SURYA R.S. under my supervision in partial fulfillment of the requirements for the Degree of Master of Science in Mathematics of the University of Kerala and no part of this has been submitted earlier for the award of any Degree.

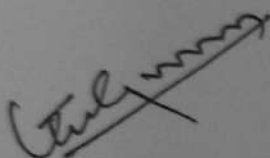


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FUZZY METRIC SPACES

*Dissertation submitted to the University of Kerala in the partial fulfillment of the
requirement for the award of Degree of*

MASTER OF SCIENCE IN MATHEMATICS

of



University of Kerala

By

Candidate Code : 62021138009
Exam Code : 62020402
Subject Code : MM 245
Year : 2023

CERTIFICATE

This is to certify that the thesis entitled **FUZZY METRIC SPACES**, submitted to the University of Kerala, in partial fulfillment for the award of the degree of Master of Science in Mathematics, is a bonafide record of the research work done by RESHIMA S of this department.



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STUDY ON RICKART *-RING

*Dissertation submitted to the University of Kerala in partial fulfillment of
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University of Kerala

By

Candidate Code : 62021138003

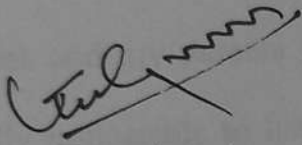
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Subject Code : MM245

Year : 2023

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This is to certify that this project work entitled "STUDY ON RICKART *-RING" is done by Ms. Angel Varghese (Register No. 62021138003) at the Department of Mathematics, St John's College, Anchal under my supervision and guidance for the partial fulfillment for the award of Master of Science in mathematics from Kerala University during the period 2021 -2023.



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