

A STUDY ON DIOPHANTINE EQUATIONS

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

AHAMED FATHIMA .S

Reg . No.: 19SMM01

Under the guidance of

Mrs. R. HEPZIBAH ANITA, M.Sc., M.Phil., SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI – 627 011

Re-Accredited by NAAC at an 'A' Grade Institution

An ISO 9001:2015 Certified Institution

APRIL - 2021

**AN EXTENSION PROBLEM ON
GENERALIZED INVERSE OF MATRICES
USING PARTITION METHOD**

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

AMEER SHEEBA SHERIN A

Reg. No.: 19SMM02

Under the guidance of

Dr. S. Angelin Kavitha Raj, M.Sc., M.Phil., SET., Ph.D.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS(UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

**A STUDY ON EDGE, INDEPENDENT AND DISTANCE
DOMINATION IN GRAPHS**

*A Project submitted to SadakathullahAppa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

**MASTER OF SCIENCE
IN
MATHEMATICS**

Submitted by

M. ANITHA

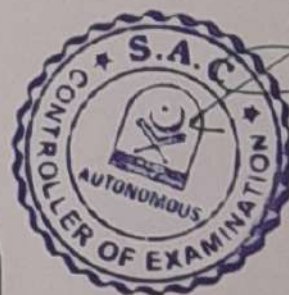
Reg. No.: 19SMM03

Under the guidance of

Dr. A. MALLIKA, M.Sc., M.Phil., Ph.D., SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI - 627011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

AN INTRODUCTION TO BOOLEAN ALGEBRA

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

ANUSIYA T

Reg. No.: 19SMM04

Under the guidance of

Dr.JAMAL FATHIMA., M.Sc., M.Phil.,SET., NET., Ph.D.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS(UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

SCHEDULING TIME TABLE USING GRAPH COLORING

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

ANUSUYA A

Reg. No.: 19SMM05

Under the guidance of

Mrs.R.HEPZIBAH ANITA, M.Sc,M.Phil,SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

A STUDY ON VARIOUS TYPES OF SEMIRINGS

*A Project submitted to Sdakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

ARUL JOTHI K

Reg . No.: 19SMM06

Under the guidance of

Mrs. Jerseena, M.Sc., M.Phil., SET.,

DEPARTMENT OF MATHEMATICS (UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI – 627 011

Re-Accredited by NAAC at an 'A' Grade Institution

An ISO 9001:2015 Certified Institution

APRIL - 2021

EIGEN FUZZY SETS OF FUZZY RELATIONS

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

ESAKKIAMMAL.S

Reg. No.: 19SMM08

Under the guidance of

Dr. S.Jamal Fathima, M.Sc., M.Phil.,SET.,NET.,Ph.D.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS(UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

STUDY ON FUZZY MATHEMATICS

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

FIRTHOUS FATHIMA A

Reg. No.: 19SMM09

Under the guidance of

Mr. V.P. Asan Nagoor Meeran, M.Sc., SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS(UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

**A STUDY ON NOETHERIAN AND
ARTINIAN RINGS**

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

G. S. INDHU

Reg. No.: 19SMM10

Under the guidance of

Mrs. R. Hepzibah Anita, M.Sc., B.Ed., M.Phil., SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

**STUDY ON NON LINEAR FUNCTIONAL
ANALYSIS**

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

IYNTHU SELVI S

Reg. No.: 19SMM11

Under the guidance of

Dr. S. Angelin Kavitha Raj, M.Sc., M.Phil., SET., Ph.D.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

AN INTRODUCTION TO LIE ALGEBRA

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

NANTHINI S

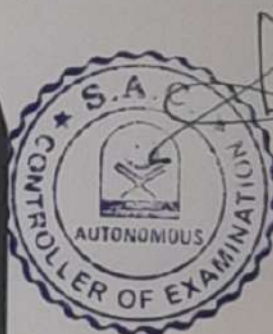
Reg. No.: 19SMM12

Under the guidance of

Mr. V. P. ASAN NAGOOR MEERAN, M.Sc., SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS(UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

A STUDY ON SNARK GRAPH

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

PARAKATH NISHA S

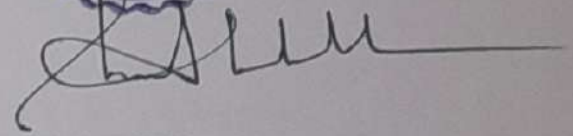
Reg. No: 19SMM13

Under the guidance of

Mrs. J.A Afraa Nuhaa, M.Sc., M.Phil.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS(UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

EVEN HARMONIOUS LABELING OF GRAPHS

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

RAJALAKSHMI S

Reg. No: 19SMM14

Under the guidance of

Dr. S. JAMAL FATHIMA, M.Sc., M.Phil., Ph.D., SET., NET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS(UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

STUDY ON n -INNER PRODUCT SPACE

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

RAMANI R

Reg. No.: 19SMM15

Under the guidance of

Mrs. J.A Afraa Nuhaa, M.Sc., M.Phil.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS(UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

STUDY ON MEAN LABELING

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

SHIFANA J

Reg. No.: 19SMM16

Under the guidance of

Dr. S. Angelin Kavitha Raj, M.Sc., M.Phil., SET., Ph.D.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

A STUDY ON FUZZY ASSIGNMENT PROBLEM

*Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

SITHIAALIYA A

Reg . No: 19SMM17

Under the guidance of

Dr.A.Mallika, M.Sc., M.Phil., Ph.D., SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI – 627 011

Re-Accredited by NAAC at an 'A' Grade Institution

An ISO 9001:2015 Certified Institution

APRIL - 2021

A STUDY ON EXTREMAL TREES AND RECONSTRUCTION

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

SOWFIYA NAZIK S

Reg . No.: 19SMM18

Under the guidance of

Mrs.U.Jerseena, M.Sc., M.Phil., SET.,

DEPARTMENT OF MATHEMATICS (UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI – 627 011

Re-Accredited by NAAC at an 'A' Grade Institution

An ISO 9001:2015 Certified Institution

APRIL - 2021

THE STUDY ON K-TRIPOTENT MATRICES

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

SUDALI D

Reg . No.: 19SMM19

Under the guidance of

Dr. A. MALLIKA, M.Sc., M.Phil., Ph.D., SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



[Handwritten signature]

SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI – 627 011

Re-Accredited by NAAC at an 'A' Grade Institution

An ISO 9001:2015 Certified Institution

APRIL - 2021

A STUDY ON GRAPHS AND MATRICES

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

THANGALAKSHMI I

Reg. No.: 19SMM20

Under the guidance of

Dr. S. JAMAL FATHIMA, M.Sc., M.Phil., Ph.D., SET., NET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



**SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)**

TIRUNELVELI – 627 011

Re-Accredited by NAAC at an 'A' Grade Institution

An ISO 9001:2015 Certified Institution

APRIL - 2021

STUDY ON FUZZY ALGEBRA

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

S. UCHIMAHALI

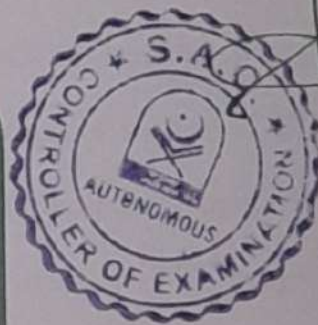
Reg. No.: 19SMM21

Under the guidance of

J. A. AFRAA NUHAA, M.Sc., M.Phil.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI – 627011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

ON DOMINATION POLYNOMIALS ON SOME GRAPHS

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

AHAMED KAMIL M

Reg. No.: 19SMM22

Under the guidance of

Mr. V.P. Asan Nagoor Meeran, M.Sc., SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI-627 011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

**ON RAMANUJAN GRAPHS AND SOLVABILITY OF
GRAPH INEQUALITY**

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial
fulfillment of the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

K. MOHAMED ABDUL FAIZAL

Reg. No.: 19SMM23

Under the guidance of

Dr. S. JAMAL FATHIMA, M.Sc., M.Phil., Ph.D., SET., NET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI - 627011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

REMOVABLE CYCLES AND CHAINS IN CONNECTED GRAPHS

*A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfilment of
the requirements for the award of the Degree of*

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

S . SIVA

(Reg . No : 19SMM24)

Under the guidance of

Mrs. J.A. AFRAA NUHAA, M.Sc., M.Phil., ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UNAIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI – 627 011

An ISO 9001:2015 Certified Institution

Re-Accredited with 'A' Grade by NAAC

APRIL – 2021

PROBLEMS ON GRAPH COLORINGS

A Project submitted to SadakathullahAppa College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

S. SRIRAM

Reg. No.: 19SMM25

Under the guidance of

R. HEPZIBAH ANITA, M.Sc., B.Ed., M.Phil., SET.,

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI – 627011

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL - 2021

THEORY OF IDEALS IN TERNARY SEMIGROUPS

A Project submitted to Sadakathullah Appa College (Autonomous) in partial fulfilment of the requirements for the award of the Degree of

MASTER OF SCIENCE

IN

MATHEMATICS

Submitted by

S.FAZILA PARVEEN

(Reg.No: 18SMM09)

Under the guidance of

Dr. S. ANGELIN KAVITHA RAJ, M.Sc., M.Phil., SET., Ph.D

ASSISTANT PROFESSOR

DEPARTMENT OF MATHEMATICS (UN-AIDED)



SADAKATHULLAH APPA COLLEGE

(AUTONOMOUS)

TIRUNELVELI – 627 001

Re-Accredited by NAAC at an 'A' Grade

An ISO 9001:2015 Certified Institution

APRIL – 2021