

A STUDY ON FUZZY GRAPHS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

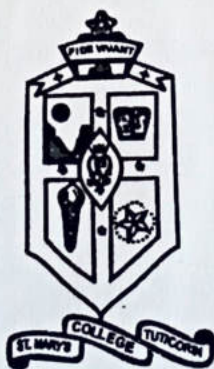
Submitted by

J. AKSHARA

Reg. No: 18SPMT01

Under the Guidance of

Dr. C. REENA M.Sc., B.Ed., M.Phil., SET, Ph.D.,



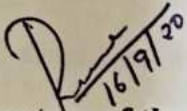
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St. Mary's College (Autonomous), Thoothukudi

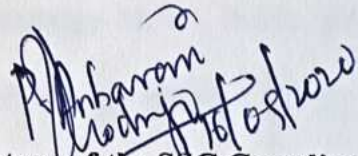
April - 2020

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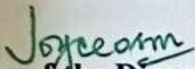
This is to certify that this project work entitled "A STUDY ON FUZZY GRAPHS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by J. AKSHARA (REG. NO: 18SPMT01).



Signature of the Guide



Signature of the SSC Coordinator



Signature of the Director



Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all, I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.**, and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.**, for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.**, SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Dr. C. Reena M.Sc., B.Ed., M.Phil., SET, Ph.D.**, Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON 2-VERTEX SELF SWITCHING IN GRAPHS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

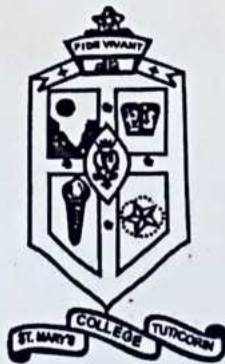
Submitted by

R. ANISTA SHEELA

Reg. No: 18SPMT02

Under the Guidance of

Dr. R. MARIA IRUDHAYA ASPIN CHITRA M.Sc., M.Phil., Ph.D.



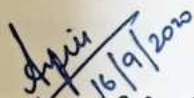
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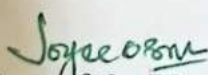
April - 2020

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This is to certify that this project work entitled "A STUDY ON 2-VERTEX SELF SWITCHING IN GRAPHS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by R. ANISTA SHEELA (REG. NO: 18SPMT02).


Signature of the Guide


Signature of the SSC Coordinator


Signature of the Director


Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

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I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.**, SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Dr. R. Maria Irudhaya Aspin Chitra M.Sc., M.Phil., Ph.D.** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON SMARANDACHE-NEAR-RING ON IDEALS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

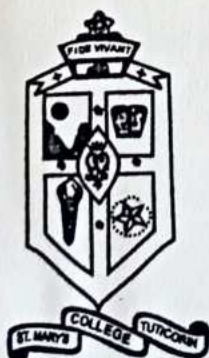
Submitted by

M.ARCHANA

Reg. No: 18SPMT03

Under the Guidance of

Ms. K. AMBIKA M.Sc., B.Ed., SET.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON SMARANDACHE-NEAR-RING ON IDEALS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by M. ARCHANA (REG. NO: 18SPMT03).

K. Archana
16/9/2020

Signature of the Guide

R. Archana
16/9/2020

Signature of the SSC Coordinator

J. Archana

Signature of the Director

Lucia Rose

Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

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I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics (SSC), for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. K. Ambika M.Sc., B.Ed., SET.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON DERIVATIONS OF INCLINE ALGEBRA

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

A.AROCKIA VANITHA

Reg. No: 18SPMT04

Under the Guidance of

Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,



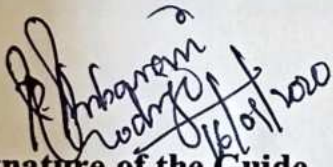
DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

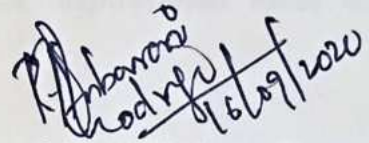
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CERTIFICATE

This is to certify that this project work entitled “A STUDY ON DERIVATIONS OF INCLINE ALGEBRA” is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by A.AROCKIA VANITHA (REG. NO: 18SPMT04).



Signature of the Guide



Signature of the SSC Coordinator



Signature of the Director



Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

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I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON FUZZY AND ANTI FUZZY PS IDEALS OF PS ALGEBRA

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

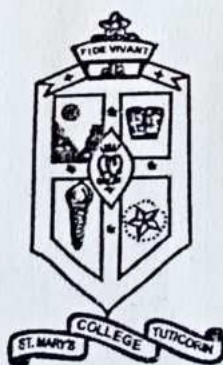
Submitted by

A.CESIL ZIONISHA

Reg. No: 18SPMT05

Under the Guidance of

Ms. M. KANAGA M.Sc., B.Ed., SET.,



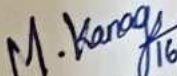
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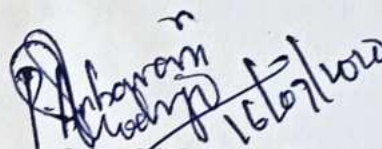
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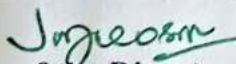
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This is to certify that this project work entitled "A STUDY ON FUZZY AND ANTI FUZZY PS IDEALS OF PS ALGEBRA" is submitted to St.Mary's College(Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by A. CESIL ZIONISHA (REG. NO: 18SPMT05).


Signature of the Guide


Signature of the SSC Coordinator


Signature of the Director


Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all, I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.,** and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.,** for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. M. Kanaga M.Sc., B.Ed., SET.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON P-FUZZY ALGEBRA

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

S. CHINTHAMANI

Reg. No: 18SPMT06

Under the Guidance of

Ms. A. FERDINA M.Sc., M.Phil., SET.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

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This is to certify that this project work entitled "A Study on P-Fuzzy Algebra" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by S. CHINTHAMANI (REG. NO: 18SPMT06).

A. Jorden
16/9/2020

Signature of the Guide

S. Chintamani
16/09/2020

Signature of the SSC Coordinator

Jorgeasm
Signature of the Director

Lucia Rose
Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

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I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. A. Ferdina M.Sc., M.Phil., SET.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09-2020

A STUDY ON GEODETIC NUMBER IN GRAPHS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

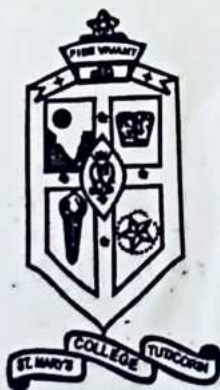
Submitted by

J.CROSS CATHRINE AJIBA

Reg. No: 18SPMT07

Under the Guidance of

Ms. J.JENIT AJITHA M.Sc., M.Phil.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

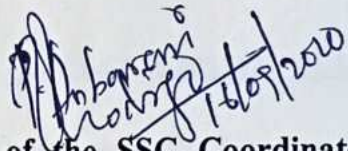
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College (Autonomous), Thoothukudi affiliated to MANONMANIAM
SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment
for the award of the Degree of Master of Science in Mathematics and is
the work done during the year 2019-2020 by J.CROSS CATHRINE
AJIBA (REG. NO: 18SPMT07).



Signature of the Guide



Signature of the SSC Coordinator



Signature of the Director
Director
Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.



Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

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I express my gratitude to Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D., SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide Ms. J.JENIT AJITHA M.Sc., M.Phil., Assistant Professor, Department of Mathematics.(SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16 . 09 . 2020

A STUDY ON HARMONIC MEAN LABELING OF GRAPHS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

V. ESAKI SHANTHIA

Reg. No: 18SPMT08

Under the Guidance of

Ms. H. SUJITHA M.Sc., M.Phil.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

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This is to certify that this project work entitled "A STUDY ON HARMONIC MEAN LABELING OF GRAPHS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by V. ESAKI SHANTHIA (REG. NO: 18SPMT08).

H. S. J. Pa
16/9/2020

Signature of the Guide

A. Anbaram
16/9/2020

Signature of the SSC Coordinator

J. J. J.

Signature of the Director
Director

Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Lucia Rose

Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

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I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. H. Sujitha M.Sc., M.Phil.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON CONVEX ANALYSIS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

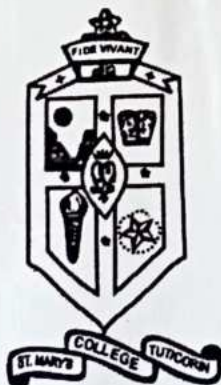
Submitted by

S. ISWARYA

Reg. No: 18SPMT10

Under the Guidance of

Ms. I. ANBU RAJAMMAL M.Sc., B.Ed., M.Phil., SET.,



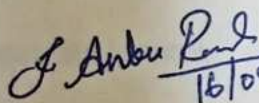
DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

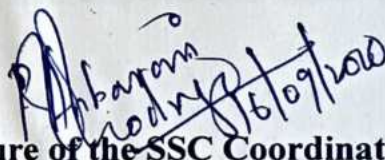
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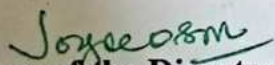
This is to certify that this project work entitled "A STUDY ON CONVEX ANALYSIS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by S. ISWARYA (REG. NO: 18SPMT10).


16/09/2020

Signature of the Guide


16/09/2020

Signature of the SSC Coordinator



Signature of the Director



Signature of the Principal

Principal

St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

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I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. I. Anbu Rajammal M.Sc., B.Ed., M.Phil., SET.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON FUZZY IDEALS IN BCI-ALGEBRAS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

P.JOHN SHEEBA

Reg. No: 18SPMT11

Under the Guidance of

Ms. P. SUGANYA M.Sc., M.Phil., SET.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON FUZZY IDEALS IN BCI-ALGEBRAS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by P.JOHN SHEEBA (REG. NO: 18SPMT11).

P. S. T. 16/9/20

Signature of the Guide

P. John Sheeba 16/09/2020

Signature of the SSC Coordinator

Joyce O. M.

Signature of the Director

Lucia Rose

Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

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I am very thankful to my guide Ms. P. Suganya M.Sc., M.Phil., SET., Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON SUPER MEAN LABELING OF GRAPHS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

A.JOSEPHIN AMALA PRAVEENA

Reg. No: 18SPMT12

Under the Guidance of

Ms. J. Jenit Ajitha M.Sc.,M.Phil.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

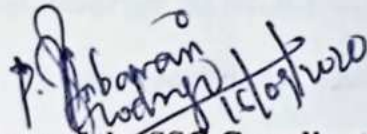
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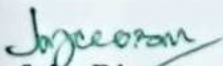
This is to certify that this project work entitled "A STUDY ON SUPER MEAN LABELING OF GRAPHS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by A.JOSEPHIN AMALA PRAVEENA (REG. NO: 18SPMT12).



Signature of the Guide



Signature of the SSC Coordinator



Signature of the Director



Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D., and to our Director Rev. Sr. F. Mary Joyce Baby M.A., M.Phil., for kindly permitting me to do this project.

I express my gratitude to Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D., SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide Ms. J.Jenit Ajitha M.Sc., M.Phil., Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.07.2020

A STUDY ON CORDIAL LABELING OF GRAPHS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

J.JOSPHINE JEGATHA

Reg. No: 18SPMT13

Under the Guidance of

Ms. K. AMBIKAM.Sc.,B.Ed.,SET.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON CORDIAL LABELING OF GRAPHS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019 - 2020
By J.JOSPHINE JEGATHA (REG. NO: 18SPMT13).

K. Jeyaraj
16/9/2020

Signature of the Guide

P. Anbaram
16/9/2020

Signature of the SSC Coordinator

S. Jeyaraj

Signature of the Director

Director

Self Supporting Courses

St. Mary's College (Autonomous)

Thoothukudi - 628 001.

Lucia Rose

Signature of the Principal

Principal

St. Mary's College (Autonomous)

Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.,** and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.,** for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc.,B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. K.AMBIKA M.Sc.,B.Ed.,SET.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.9.2020

A STUDY ON α_1 AND α_2 NEAR RINGS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

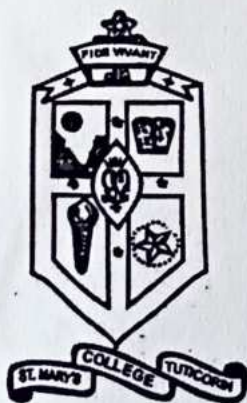
Submitted by

R. KALAI VANI

Reg. No: 18SPMT14

Under the Guidance of

Ms. I. ANBU RAJAMMAL M.Sc., B.Ed., M.Phil., SET.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON α_1 AND α_2 NEAR RINGS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by
R. KALAI VANI (REG. NO: 18SPMT14).

J. Anbu Paul
16/09/2020

Signature of the Guide

Angam
16/09/2020

Signature of the SSC Coordinator

Jayaram

Signature of the Director

Lucia Rose

Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all, I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.**, and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.**, for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.**, SSC Coordinator, Department of Mathematics (SSC), for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. I. Anbu Rajammal M.Sc., B.Ed., M.Phil., SET.**, Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.9.2020

A STUDY ON EDGE MAGIC LABELING FOR SOME CLASS OF GRAPHS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

S. KASI ESWARI

Reg. No: 18SPMT15

Under the Guidance of

Ms. M. KANAGA M.Sc., B.Ed., SET.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON EDGE MAGIC LABELING FOR SOME CLASS OF GRAPHS" is submitted to ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by S. KASI ESWARI (REG. NO: 18SPMT15).

M. Kanaga
16/09/2020
Signature of the Guide

P. Anbarasan
16/09/2020
Signature of the SSC Coordinator

Joyce
Signature of the Director
Director
Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Lucia Rose
Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all, I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.**, and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.**, for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.**, SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.


I am very thankful to my guide **Ms. M. Kanaga M.Sc., B.Ed., SET.**, Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON FUZZY IDEALS OF SEMIRINGS AND NEAR-RINGS

A project submitted to 

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

A. MARY ALFI

Reg. No: 18SPMT16

Under the Guidance of

Dr. C. REENA M.Sc., B.Ed., M.Phil., SET, Ph.D.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

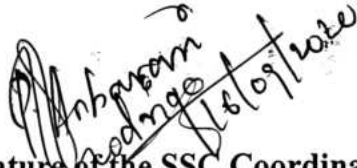
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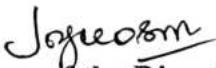
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Signature of the Guide



Signature of the SSC Coordinator



Signature of the Director



Signature of the Principal

Principal

St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all, I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.**, and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.**, for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.**, SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Dr. C. Reena M.Sc., B.Ed., M.Phil., SET., Ph.D.**, Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.9.2020

**A STUDY ON REGULAR GENERALIZED CLOSED SETS IN
TOPOLOGICAL SPACES.**

A project submitted to
ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI
affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

D.MARY JERLINE

Reg. No: 18SPMT17

Under the Guidance of

Dr.P.ANBARASI RODRIGO M.Sc.,B.Ed.,Ph.D.



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

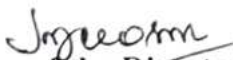
This is to certify that this project work entitled “A STUDY ON REGULAR GENERALIZED CLOSED SETS IN TOPOLOGICAL SPACES” is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by D.MARY JERLINE (REG. NO: 18SPMT17).



Signature of the Guide



Signature of the SSC Coordinator



Signature of the Director



Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all, I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.,** and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.,** for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc.,B.Ed.,Ph.D** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Dr.P. Anbarasi Rodrigo M.Sc.,B.Ed.,Ph.D** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON EXTENSION OF EDGE GRACEFUL LABELING

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

T.MUNEESWARI

Reg. No: 18SPMT18

Under the Guidance of

Ms. H. SUJITHA M.Sc., M.Phil.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON EXTENSION OF EDGE GRACEFUL LABELING" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfillment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by T.MUNEESWARI (REG. NO: 18SPMT18).

H. S. H.
16/9/2020

Signature of the Guide

P. Subramanian
16/9/2020

Signature of the SSC Coordinator

Jayaram

Signature of the Director

Lucia Rose

Signature of the Principal

Principal

St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.,** and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.,** for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. H. SUJITHA M.Sc., M.Phil.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON FUZZY STRUCTURE IN BETA (β) ALGEBRA

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

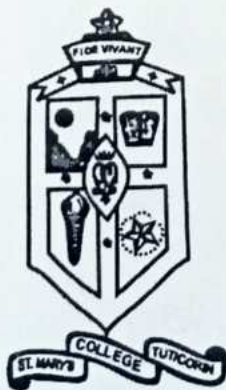
Submitted by

N.MUTHU DHARINI

Reg. No: 18SPMT19

Under the Guidance of

Ms. A. FERDINA M.Sc., M.Phil., SET.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON FUZZY STRUCTURE IN BETA (β) ALGEBRA" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by N. MUTHU DHARINI (REG. NO: 18SPMT19).

A. Jeyeline
16/9/2020

Signature of the Guide

M. Subramanian
16/09/2020

Signature of the SSC Coordinator

Jeyarajam

Signature of the Director

Lucia Rose

Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all, I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.,** and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.,** for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. A. FERDINA M.Sc., M.Phil., SET.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020.

A STUDY OF GRAPH COLORING

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

S.B.PRAISLIN

Reg. No: 18SPMT20

Under the Guidance of

Dr. R. MARIA IRUDHAYA ASPIN CHITRA M.Sc., M.Phil., Ph.D,



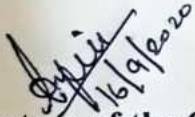
DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

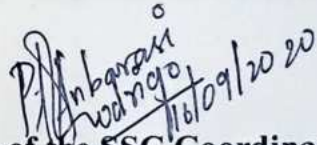
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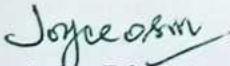
This is to certify that this project work entitled "A STUDY OF GRAPH COLORING" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by S.B.PRAISLIN (REG. NO: 18SPMT20).


16/9/2020

Signature of the Guide


16/9/2020

Signature of the SSC Coordinator



Signature of the Director



Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all, I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.**, and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.**, for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.**, SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Dr. R. Maria Irudhaya Aspin Chitra M.Sc., M.Phil., Ph.D.**, Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.9.2020

A STUDY ON HARDY SPACES

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

S.RAKINI

Reg. No : 18SPMT21

Under the Guidance of

Ms. P. SUGANYA M.Sc., M.Phil., SET.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON HARDY SPACES" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by S. RAKINI (REG. NO : 18SPMT21).

P. S. T. 16/9/20

Signature of the Guide

Signature of the SSC Coordinator

Signature of the SSC Coordinator

Joyce Rm

Signature of the Director

Lucia Rose

Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all, I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal

Rev. Dr. Sr. A. S. J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D., and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.,** for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. P. Suganya M.Sc., M.Phil., SET.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

**A STUDY ON NEW CLASS OF OPEN SETS IN TOPOLOGICAL
SPACE**

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

R.RUTH BRIGIT

Reg. No: 18SPMT22

Under the Guidance of

Dr.P.ANBARASI RODRIGO M.Sc.,B.Ed.,Ph.D.



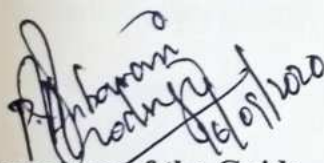
DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

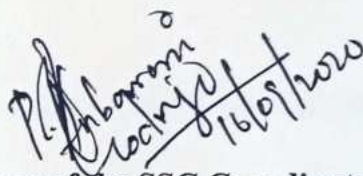
April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON NEW CLASS OF OPEN SETS IN TOPOLOGICAL SPACE" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by R.RUTH BRIGIT (REG. NO: 18SPMT22).



Signature of the Guide



Signature of the SSC Coordinator



Signature of the Director



Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.,** and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.,** for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.,** Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON DIFFERENT POLYNOMIALS IN GRAPHS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

S.SANTHIYA

Reg. No: 18SPMT23

Under the Guidance of

Ms. H. SUJITHA M.Sc., M.Phil.,



DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

April - 2020

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON DIFFERENT POLYNOMIALS IN GRAPHS" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI in partial fulfilment for the award of the Degree of Master of Science in Mathematics and is the work done during the year 2019-2020 by S. SANTHIYA (REG. NO: 18SPMT23).

H. S. J. P.
16/9/2020

Signature of the Guide

P. Anbaram
16/09/2020

Signature of the SSC Coordinator

J. George
Signature of the Director

Lucia Rose
Signature of the Principal

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

First of all I thank the Almighty for showering his blessings to undergo this project.

I express my sincere gratitude and heartfelt thanks to our Principal **Rev. Dr. Sr. A.S.J. Lucia Rose M.Sc., PGDCA., M.Phil., Ph.D.**, and to our Director **Rev. Sr. F. Mary Joyce Baby M.A., M.Phil.**, for kindly permitting me to do this project.

I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.**, SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Ms. H. Sujitha M.Sc., M.Phil.**, Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON PRIME IDEALS IN GAMMA NEAR - RINGS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

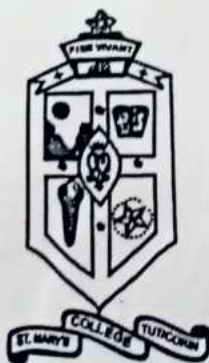
Submitted by

X.SHERINA

Reg. No: 18SPMT24

Under the Guidance of

Ms. M. KANAGA M.Sc., B.Ed., SET.,



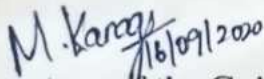
DEPARTMENT OF MATHEMATICS


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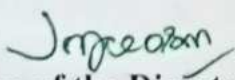
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Signature of the Guide


Signature of the SSC Coordinator


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Thoothukudi - 628 001.

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I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020

A STUDY ON FUZZY CONVERGENCE OF SEQUENCES AND FILTERS

A project submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfilment for the award of the degree of

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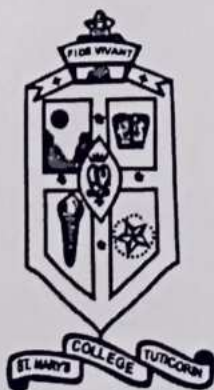
Submitted by

M.SUBALAKSHMI

Reg. No: 18SPMT25

Under the Guidance of

Dr.C.REENA M.Sc.,B.Ed.,M.Phil.,SET,Ph.D.,



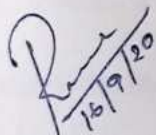
DEPARTMENT OF MATHEMATICS

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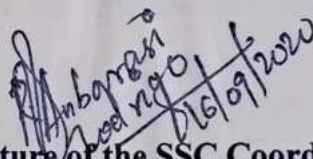
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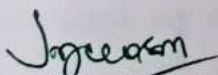
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Signature of the Guide



Signature of the SSC Coordinator



Signature of the Director



Signature of the Principal

Principal
St. Mary's College (Autonomous)
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I express my gratitude to **Dr. P. Anbarasi Rodrigo M.Sc., B.Ed., Ph.D.**, SSC Coordinator, Department of Mathematics, for her inspirational ideas and encouragement.

I am very thankful to my guide **Dr. C. Reena M.Sc., B.Ed., M.Phil., SET, Ph.D.**, Assistant Professor, Department of Mathematics (SSC), for her efficient and effective guidance. She played a key role in the preparation of this project.

I also thank my staff members for their encouragement in all my efforts. Finally I thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 16.09.2020