A STUDY ON TOPOLOGY AND ITS APPLICATIONS

Project work submitted to

ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI.

affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY,TIRUNELVELI.

in partial fulfilment of the requirement for the award of degree of

Bachelor of Science in Mathematics

Submitted by

NAMES	REGISTER NUMBER
J.ABINAYA	16SUMT01
A.ASWILA	16SUMT09
J.SWATHI LAKSHMI	16SUMT46
R.MARY ALFERED THILAGA ROSHINI	16SUMA04
T.VIVEKHA	16SUMA16

Under the Guidance of

Ms. K. Rajendra Suba M.Sc., M.Phil.,

DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

March - 2019

CERTIFICATE

This is to certify that this project report entitled "TOPOLOGY AND ITS APPLICATIONS" is submitted to St.Mary's College (Autonomous), Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli, in partial fulfilment for the award of degree of Bachelor of Science in Mathematics and is the work done during the year 2018 - 2019 by the following students :

NAMES	REGISTER NUMBER
J.ABINAYA	16SUMT01
A.ASWILA	16SUMT09
J.SWATHI LAKSHMI	16SUMT46
R.MARY ALFERED THILAGA ROSHINI	16SUMA04
T.VIVEKHA	16SUMA16

K. Rajendra Suba
24/03/19
Signature of the Guide

Prisilla Pauefier
28/03/19
Signature of the SSC Coordinator

26/3/19
Signature of the Director
Director
Self Supporting Courses
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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, we thank the Almighty for showering his blessings to undergo this project.

We express our 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. Peregrina Mary M.A., M.Ed.,** for kindly permitted us to do this project.

We express our gratitude to **Dr. G. Priscilla Pacifica M.Sc., B.Ed.,M.Phil.,Ph.D.,SET.,**SSC Coordinator, Department of Mathematics for her inspirational ideas and encouragement.

We are very thankful to our guide **Ms. K. Rajendra Suba M.Sc., M.Phil.,** Department of Mathematics (SSC) for her efficient and effective guidance. She played a key role in the preparation of this project.

We also thank our staff members for their encouragement in all our efforts. Finally, we thank all those who extended their help regarding this project.

Place : Thoothukudi

Date : 28.03.2019

A STUDY ON INVENTORY CONTROL

A project submitted to

ST MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

in partial fulfillment for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

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G.HARIPRIYA	16SUMT15
I.JENITHA LORDHU	16SUMT19
G.B.SNOWLIN	16SUMT39

Under the guidance of

Mrs.K. Heartlin M.Sc., M.Phil.,

DEPARMENT OF MATHEMATICS

St Mary's College (Autonomous), Thoothukudi

March-2019

CERTIFICATE

This is to certify that this project work entiled "A STUDY ON INVENTORY CONTROL" 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 **Bachelor of Science in Mathematics** and is a work done during the year 2018-2019 by the following students.

G.ABIRAMI	**16SUMT02**
M.ESAKKI DHARANI	**16SUMT12**
G.HARIPRIYA	**16SUMT15**
I.JENITHA LORDHU	**16SUMT19**
G.B.SNOWLIN	**16SUMT39**

R. Heartlin
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Signature of the Guide

G.Prisilla Bonifia
28/03/19
Signature of the SSC Coordinator

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Signature of the Principal
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St. Mary's College (Autonomous)
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Signature of the Examiner

ACKNOWLEDGEMENT

First of all we thank the Almighty for showing his blessing to undergo this project.

We express our 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 Sr. Peregrina Mary M.A., M.Ed.,** for having kindly permitted us to do this project.

We express our gratitude to **Dr. G. Priscilla Pacifica M.Sc., B.Ed., M.Phil., Ph.D., (SET)** the Head of the Department of Mathematics (SSC) for her inspirational ideas and encouragement she gave to us.

We are very thankful to our guide **Mrs.K. Heartlin M.Sc., M.Phil.,** for her efficient and effective guidance. She played a key role in the preparation of this project.

We also thank our staff members for their encouragement in all our efforts. we also wish to record our sincere thanks to our **Parents**, who gave us special attention to complete this work.

Finally we thank all those who extended their help regarding this project.

Place: Thoothukudi.

Date: 28.03.2019.

A STUDY ON MAGIC 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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

NAMES	REGISTER NUMBER
P.ABIRAMI	16SUMT03
S.ANU SELVA RADHA	16SUMT06
F.GRACELIN	16SUMT13
S.MERLIN SOPHIA	16SUMT25
S.SOWMIYA	16SUMT41

Under the guidance of

Mrs. K. HEARTLIN M.Sc., M.Phil.,

(DEPARTMENT OF MATHEMATICS)

St. Mary's College (Autonomous), Thoothukudi

March-2019

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON MAGIC LABELING" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRU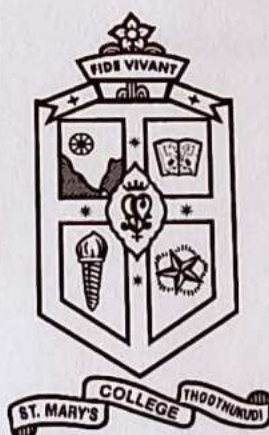NELVELI in partial fulfilment for the award of the Degree of Bachelor of Science in Mathematics and is the work done during the year 2018-2019 by the following students.

P.ABIRAMI	16SUMT03
S.ANU SELVA RADHA	16SUMT06
F.GRACELIN	16SUMT13
S.MERLIN SOPHIA	16SUMT25
S.SOWMIYA	16SUMT41

K. Heartlin
28/3/19
Signature of the Guide

J. Prisilla Pacifica
28/03/19
Signature of the SSC Coordinator

28/3/19
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Director
Self Supporting Courses
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Lucia Rose
Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

Place: Thoothukudi

Date: 28.03.2019

A STUDY ON NUMBER THEORY

A Project work submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

affiliated to

Manonmaniam Sundaranar University, Tirunelveli

in partial fulfillment for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

NAME	REGISTER NUMBER
C. AMUTHA	16SUMT04
T. KAVITHA	16SUMT21
A. MARIA NISHA	16SUMT24
M. MURUGALAKSHMI	16SUMT29
G. PADMAPRIYA	16SUMT30

Under the guidance of

Ms. A. Ancy M.Sc., M.Phil.

DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

March - 2019

CERTIFICATE

We hereby declare that the project report entitled "A STUDY ON NUMBER THEORY" being submitted to St.Mary's College (Autonomous), Thoothukudi affiliated to MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI, in partial fulfillment for the award of Degree of Bachelor of Science in Mathematics and its record of work during the year 2018 - 2019 by the following students :

C. AMUTHA	16SUMT04
T. KAVITHA	16SUMT21
A. MARIA NISHA	16SUMT24
M. MURUGALAKSHMI	16SUMT29
G. PADMAPRIYA	16SUMT30

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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We express our gratitude to **Dr. G. Priscilla Pacifica M.Sc., B.Ed., M.Phil., Ph.D., SET.,** SSC Coordinator, the Department of Mathematics(SSC) for her inspirational ideas and encouragement she gave to us.

We are very thankful to our guide **Ms. A. Ancy 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.

We also thank our staff members for their encouragement in all our efforts. We also wish to record our sincere thanks to our **Parents,** who gave us special attention to complete this work.

Finally, we thank all those who extended their help regarding this project.

Place : Thoothukudi

Date : 28.03.2019

A STUDY ON FAREY SEQUENCE AND ITS APPLICATIONS

Project work submitted to

ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI.

affiliated to

Manonmaniam Sundaranar University,Tirunelveli.

in partial fulfilment of the requirement for the award of degree of

Bachelor of Science in Mathematics

Submitted by

NAME	REGISTER NUMBER
J.P. ANTO ISWARYA MITHUNA	16SUMT05
W. ASHA MILLATH	16SUMT08
S. MARIA FRANCIS SELVA MALAR	16SUMT23
K. SUBASHINI	16SUMT42
S. MURUGESWARI	16SUMA07

Under the guidance of
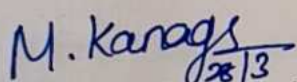
Ms.M.Kanaga, M.Sc., B.Ed., SET.,

DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi.
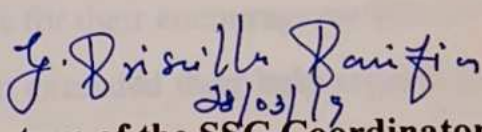
March -2019
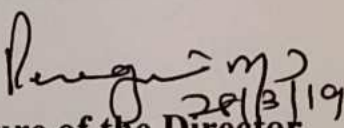
CERTIFICATE
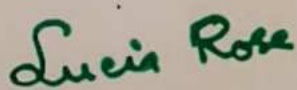
This is to certify that this project report entitled **"FAREY SEQUENCE"** is submitted to St.Mary's College (Autonomous), Thoothukudi affiliated to ManonmaniamSundaranar University, T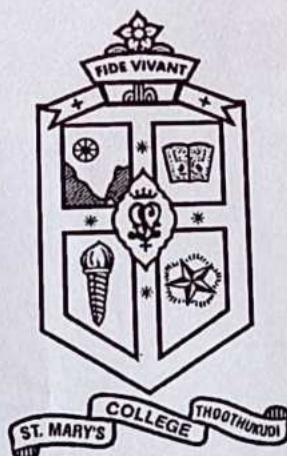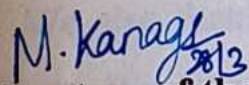irunelveli, in partial fulfilment for the award of degree of Bachelor of Science in Mathematics and is the work done during the year 2018 - 2019 by the following students :

NAME	REGISTER NUMBER
J.P. ANTO ISWARYA MITHUNA	16SUMT05
W. ASHA MILLATH	16SUMT08
S. MARIA FRANCIS SELVA MALAR	16SUMT23
K. SUBASHINI	16SUMT42
S. MURUGESWARI	16SUMA07

M. Kanags 28/3

Signature of the Guide

J. Prisulla Banifin 28/03/19

Signature of the SSC Coordinator

28/3/19

Signature of the Director
Director
Self Supporting Courses
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Thoothukudi - 628 001.

Lucia Rose

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

Signature of the Examiner

ACKNOWLEDGEMENT

Place : Thoothukudi

Date : 28.03.2019

A STUDY ON MODULES

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

NAME	REGISTER NUMBER
S. AROKYA POORANA ANISHA	16SUMT07
J. EMI ANISHA MARY	16SUMT11
R.GUNA VARTHINI	16SUMT14
A. OLIBHA ASHLIN	16SUMA09
B. RAJASRI	16SUMA12

Under the Guidance of

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

DEPARTMENT OF MATHEMATICS

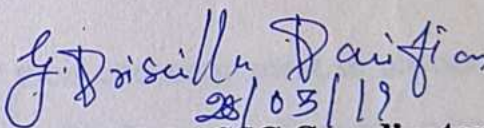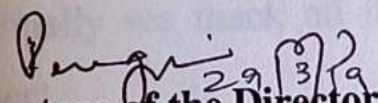## St. Mary's College (Autonomous), Thoothukudi
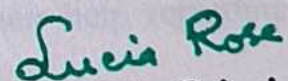
March - 2019

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON MODULES" 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 Bachelor of Science in Mathematics and is the work done during the year 2018-2019 by the following students.

S. AROKYA POORANA ANISHA	16SUMT07
J. EMI ANISHA MARY	16SUMT11
R.GUNA VARTHINI	16SUMT14
A. OLIBHA ASHLIN	16SUMA09
B. RAJASRI	16SUMA12

M. Kanaga

Signature of the Guide

G. Prisculla Daistian
28/03/19

Signature of the SSC Coordinator

Signature of the Director
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Lucia Rose

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

Signature of the Examiner

ACKNOWLEDGEMENT

Place: Thoothukudi

Date: 28·03·2019

A STUDY ON FUZZY MATRIX

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

NAME	REGISTER NUMBER
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B. MAHESWARI	16SUMT22
M. SUDHA	16SUMT45
A. JAYASHRI	16SUMA01

Under the Guidance of

Ms. R. Maria Irudhaya Aspin Chitra M.Sc., M.Phil.

DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

March-2019

CERTIFICATE

This is to certify that this project work entitled "A STUDY ON FUZZY MATRIX" 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 Bachelor of Science in Mathematics and is a work done during the year 2018-2019 by the following students.

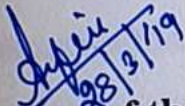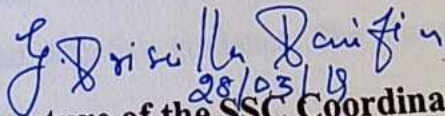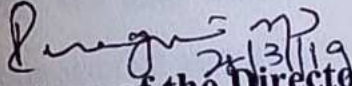|	
S. INDHUMATHI	16SUMT16
J. JOSHI GOWSINI	16SUMT20
B. MAHESWARI	16SUMT22
M. SUDHA	16SUMT45
A. JAYASHRI	16SUMA01

Signature of the Guide

Signature of the SSC Coordinator

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

Signature of the Examiner

ACKNOWLEDGEMENT

First of all we thank the Almighty for showering his blessing to undergo this project.

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We express our gratitude to **Dr. G. Priscilla Pacifica M.Sc., B.Ed., M.Phil., Ph.D., SET.,** SSC Coordinator, the Department of Mathematics (SSC) for her inspirational ideas and encouragement she gave to us.

We are very thankful to our guide **Ms. R. Maria Irudhaya Aspin Chitra 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.

We also thank our staff members for their encouragement in all our efforts. We also wish to record our sincere thanks to our **Parents,** who gave us special attention to complete this work.

Finally we thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 28. 03. 2019

A STUDY ON 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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

NAME	REGISTER NUMBER
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M.MUGESH PRIYA	16SUMT27
P.PRIYATHARSINI	16SUMT32
G.MURUGESWARI	16SUMA06
K.SUBASHINI	16SUMA15

Under the Guidance of

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

DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

March- 2019

CERTIFICATE

This is to certify that this project work entitled **"GRACEFUL LABELING"** 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 Bachelor of Science in Mathematics** and is the work done during the year **2018-2019** by the following students.

N.JEBAPRIYADHARSHINI	**16SUMT18**
M.MUGESH PRIYA	**16SUMT27**
P.PRIYATHARSINI	**16SUMT32**
G.MURUGESWARI	**16SUMA06**
K.SUBASHINI	**16SUMA15**

A. Anal 28/3/19
Signature of the Guide

G Prisilla Pauifia 28/03/19
Signature of the SSC Coordinator

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

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We express our gratitude to **Dr. G. Priscilla Pacifica M.Sc., B.Ed., M.Phil., Ph.D., SET,** SSC Coordinator, the Department of Mathematics (SSC) for her inspirational ideas and encouragement she gave to us.

We are very thankful to our 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.

We also thank our staff members for their encouragement in all our efforts. We also wish to record our sincere thanks to our **Parents,** who gave us special attention to complete this work.

Finally we thank all those who extended their help regarding this project

Place: Thoothukudi

Date: 28.03.2019

PROJECT MANAGEMENT WITH PERT AND CPM

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

NAME	REGISTER NUMBER
M.MOUNIKA	16SUMT26
E.REBECCA	16SUMT34
P. ROSY	16SUMT35
P.POONKANI KAVITHA	16SUMA10

Under the Guidance of

Ms. H. Sujitha M.Sc., M.Phil.

DEPARTMENT OF MATHEMATICS

St. Mary's College (Autonomous), Thoothukudi

March- 2019

CERTIFICATE

This is to certify that this project work entitled **"PROJECT MANAGEMENT WITH PERT AND CPM"** 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 Bachelor of Science in Mathematics** and is the work done during the year **2018-2019** by the following students.
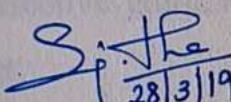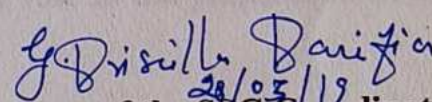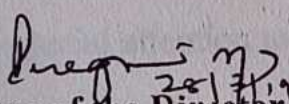
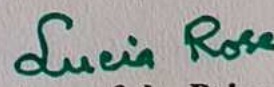|	
M.MOUNIKA	**16SUMT26**
E. REBECCA	**16SUMT34**
P.ROSY	**16SUMT35**
P.POONKANI KAVITHA	**16SUMA10**

28/3/19

Signature of the Guide

28/03/19

Signature of the SSC Coordinator

Signature of the Director
Director
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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

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Finally we thank all those who extended their help regarding this project.

Place: Thoothukudi

Date: 28-3-19

BCH AND PSEUDO BCH – 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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

NAME	REGISTER NUMBER
G. PRIYA DHARSHINI	16SUMT31
A. SAHAYA CHRISTY ASWINA	16SUMT36
P. SORNALAKSHMI	16SUMT40
P.SUBITHRA	16SUMT44
A. RAJESWARI	16SUMA13

Under the Guidance of

Ms. R. Maria Irudhaya Aspin Chitra M.Sc., M.Phil.

DEPARTMENT OF MATHEMATICS
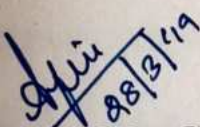
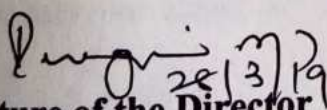St. Mary's College (Autonomous), Thoothukudi
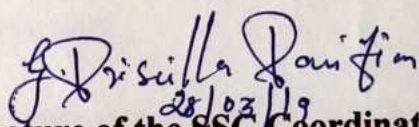
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CERTIFICATE

This is to certify that this project work entitled "BCH AND PSEUDO BCH-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 Bachelor of Science in Mathematics and is a work done during the year 2018-2019 by the following students.
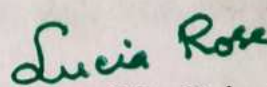
G. PRIYA DHARSHINI	16SUMT31
A. SAHAYA CHRISTY ASWINA	16SUMT36
P.SORNALAKSHMI	16SUMT40
P. SUBITHRA	16SUMT44
A. RAJESWARI	16SUMA13

Signature of the Guide

Signature of the SSC Coordinator

Signature of the Director

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Signature of the Principal

Principal
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Thoothukudi - 628 001.

Signature of the Examiner

ACKNOWLEDGEMENT

Place: Thoothukudi

Date: 28. 3. 19

A STUDY ON DOMINATION 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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

NAME	REGISTER NUMBER
P. SARANYA	16SUMT37
M. SHENBAGAM	16SUMT38
S. SUBHALAKSHUMI	16SUMT43
R. VAISHNAVI	16SUMT48
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Under the Guidance of

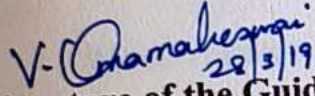## Ms. V. Uma Maheswari M.Sc., M.Phil,

DEPARTMENT OF MATHEMATICS
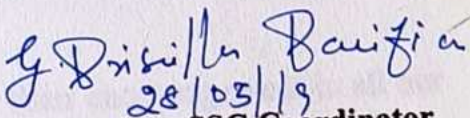
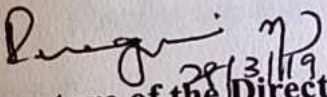St. Mary's College (Autonomous), Thoothukudi

March- 2019

CERTIFICATE

This is to certify that this project work entitled "**A STUDY ON DOMINATION 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 **Bachelor of Science in Mathematics** and is a work done during the year 2018-2019 by the following students

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M. SHENBAGAM	16SUMT38
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Place: Thoothukudi

Date: 28·3·2019