AN STUDY ON NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATION

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment of the

Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

Ayisha Nasrin A	(2020MB48)
Abirami R	(2021MB01)
Anitha P	(2021MB02)
Ashuruthi M	(2021MB03)
Avaidhaa Sarojini A M	(2021MB04)
Deepika V	(2021MB05)

Under the Guidance of

Dr. V. Vanitha, M.Sc.,M.Phil, B.Ed, ACIM, SET, Ph.D

Head and Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC(Cycle-4)Mary Land,

Madurai – 625018, Tamil Nadu.

March - 2024

Dr. V. VANITHA, M.Sc.,M.Phil, B.Ed, ACIM, SET, Ph.D

Head of the department,

Department of Mathematics

Fatima College (Autonomous)

Madurai – 62501

CERTIFICATE

This to certify that the project entitled, **"A STUDY ON NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATION"** submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision

Ayisha Nasrin A	(2020MB48)
Abirami R	(2021MB01)
Anitha P	(2021MB02)
Ashuruthi M	(2021MB03)
Avaidhaa Sarojini A.M	(2021MB04)
Deepika V	(2021MB05)

Place: Madurai

Date: 26.03.2024

SIGNATURE OF THE
INTERNAL EXAMINER

26/03/24

SIGNATURE OF THE
EXTERNAL EXAMINER

SIGNATURE OF THE
HEAD OF THE DEPARTENT

Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of, Dr. V. Vanitha Assistant Professor, Department of Mathematics, Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date : 26.03.2024

Station: Madurai

A. Ayisha Nasrin (2020MB48)

R. Abirami (2021MB01)

P. Anitha (2021MB02)

M. Ashuruthi (2021MB03)

A.M. Avaidhaa Sarojini (2021MB04)

V. Deepika (2021MB05)

A STUDY ON DOMINATION IN GRAPH THEORY

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment
of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2021MB73   MUNEESWARI I
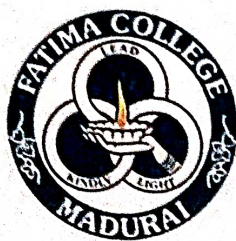
2021MB74   NAGARATHINAM S

2021MB76   POORNIMA E

2021MB77   PRAGATHEESWARI K

Under the Guidance of

Mrs. J. Annaal Mercy, M.Sc, B.Ed., M. Phil, SET., (Ph.D)

Assistant Professor

Department of Mathematics(SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC (Cycle-4)

Mary Land, Madurai– 625018, Tamil Nadu.

MARCH -2024

Mrs. J. Annaal Mercy, M.Sc, B.Ed., M. Phil, SET., (Ph.D)

Assistant Professor,

Department of Mathematics

Fatima College (Autonomous)

Madurai – 625018

CERTIFICATE

This to certify that the project entitled, **"A STUDY ON DOMINATION IN GRAPH THEORY"** submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.

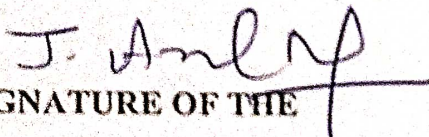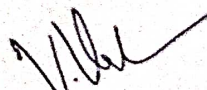|	
I. Muneeswari	2021MB73
S. Nagarathinam	2021MB74
E. Poornima	2021MB76
K. Pragatheeswari	2021MB77

Place: Madurai

Date: 26.03.2024

SIGNATURE OF THE

INTERNAL EXAMINER

SIGNATURE OF THE

EXTERNAL EXAMINER

SIGNATURE OF THE

HEAD OF THE DEPARTMENT

Dr. V. VANITHA

M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D

Head & Assistant Professor

Department of Mathematics(SF)

Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Mrs. J. Annaal Mercy, Assistant Professor, Department of Mathematics, Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 26.03.2024

Station: Madurai

I.MUNEESWARI (2021MB73)

S.NAGARATHINAM (2021MB74)

E.POORNIMA(2021MB76)

K.PRAGATHEESWARI(2021MB77)

A STUDY ON IMAGE PROCESSING ON MATLAB

A Project Submitted to Madurai Kamaraj University

In Partial Fulfillment of the

Requirement for the Award of the Degree of

BACHELOR OF SCIENCE MATHEMATICS
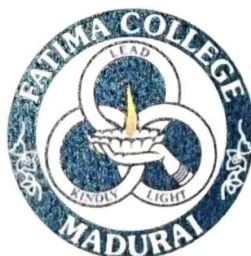
Submitted by

2021MB06   DHAARMINI.M.S.I

2021MB07   DHARANISRI.N

2021MB08   DHARSHINI.S

2021MB09   HEMAPATHI.C

Under the Guidance of

Dr .V.VANITHA, M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D

Head of the Department

Department of Mathematics

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC (Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu,

MARCH – 2024

Dr. V.VANITHA, M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D

Head of the Department,

Department of Mathematics

Fatima College (Autonomous)

Madurai – 625018

<div align="center">

CERTIFICATE

</div>

This to certify that the project entitled, **"A STUDY ON IMAGE PROCESSING ON MATLAB"** submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.

DHAARMINI.M.S.I	(2021MB06)
DHARANISRI.N	(2021MB07)
DHARSHINI.S	(2021MB08)
HEMAPATHI.C	(2021MB09)

Place: Madurai

Date: 26·03·2024

SIGNATURE OF THE

INTERNAL EXAMINER

SIGNATURE OF THE

EXTERNAL EXAMINER

SIGNATURE OF THE

HEAD OF THE DEPARTMENT

Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Dr. V.VANITHA, M.Sc., M.Phil., B.Ed., ACIM, SET, Ph.D., Head of The Department, Department of Mathematics(SF), Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 26.03.2024

Station: Madurai

M.S.I.DHAARMINI (2021MB06)   *M.S.I.Dharmini*

N.DHARANISRI (2021MB07)   *N.Dharanisri*

S.DHARSHINI (2021MB08)   *S.Dharshini*

C.HEMAPATHI (2021MB09)   *C.Hemapathi*

A STUDY ON REGRESSION ANALYSIS FOR DATA SCIENCE

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment of the
Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2021MB12	JEGADEESWARI B
2021MB13	KALPANA K
2021MB14	KARISHMA S
2021MB16	KEERTHIGA S

Under the Guidance of

Dr. V. VANITHA, M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D

Head of the Department

Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC (Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu,

MARCH - 2024

Dr. V. VANITHA, M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D

Head of the department,
Department of Mathematics
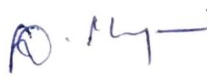Fatima College (Autonomous)
Madurai – 62501

CERTIFICATE

This to certify that the project entitled, ,"**A STUDY ON REGRESSION ANALYSIS FOR DATA SCIENCE"** submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision

JEGADEESWARI B	(2021MB12)
KALPANA K	(2021MB13)
KARISHMA S	(2021MB14)
KEERTHIGA S	(2021MB16)

Place: Madurai
Date: 26.03.24

**SIGNATURE OF THE
INTERNAL EXAMINER**

26/03/24

**SIGNATURE OF THE
EXTERNAL EXAMINER**

**SIGNATURE OF THE
HEAD OF THE DEPARTMENT**

Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Dr. V. VANITHA, Head of the Department, Department of Mathematics(SF), Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 26.03.2024

Station: Madurai

JEGADEESWARI B (2021MB12) B. Jegadeeswari.

KALPANA K (2021MB13) - K.Kalpaa

KARISHMA S (2021MB14) - S.Karishma.

KEERTHIGA S (2021MB16) - S. Keerthiga

A STUDY ON ALGEBRAIC GRAPH THEORY

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment of the

Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2021MB17	**KISHA PENNI .T**
2021MB18	**LAKSHMI .S**
2021MB19	**MAHALAKSHMI ALIES ARUNA .S**
2021MB20	**MAHESWARI .V**
2021MB21	**MOHANA SUPRIYA .A**

Under the Guidance of

Mrs. R. RAJESWARI M.Sc., M.Phil., SET., PGDCA.,
Assistant Professor
Department of Mathematics (SF)

FATIMA COLLEGE (Autonomous)
Re-Accredited with 'A++' Grade by NAAC (IVCYCLE)
Madurai – 625 018, Tamil Nadu.

MARCH - 2024

Mrs. R.RAJESWARI M.Sc., M.Phil., SET, PGDCA.,
Assistant Professor,
Department of Mathematics (SF)
Fatima College (Autonomous),
Madurai- 625 018.

CERTIFICATE

This is to certify that the project entitled, **"A STUDY ON ALGEBRAIC GRAPH THEROY"**

submitted by the following students, for the award of the degree of Bachelor of Science in

Mathematics at Fatima College (Autonomous), is a bonafide record of work carried out by them

under my guidance and supervision.

> **T.KISHA PENNI (2021MB17)**
>
> **S.LAKSHMI (2021MB18)**
>
> **S.MAHALAKSHMI ALIES ARUNA (2021MB19)**
>
> **V.MAHESWARI (2021MB20)**
>
> **A.MOHANA SUPRIYA (2021MB21)**

Signature of the
Internal Examiner

26/03/24

Signature of the
External Examiner

Signature of the
Head of the Department
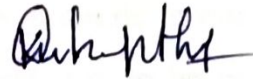
Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION
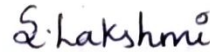
We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Mrs. R.Rajeswari, Assistant Professor, Department of Mathematics, Fatima College (Autonomous), Madurai -18 affiliated to Madurai Kamaraj University, Madurai inpartial fulfillment for the award of degree of Bachelor of Science in Mathematics.
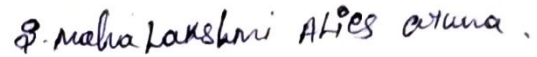
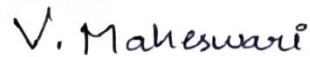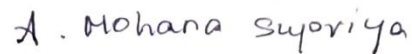Date: 26.3.24

Station: Madurai

T.KISHA PENNI (2021MB17)

S.LAKSHMI (2021MB18)

S.MAHALAKSHMI ALIES ARUNA
(2021MB19)

V.MAHESHWARI (2021MB20)

A.MOHANA SUPRIYA (2021MB21)

A STUDY ON FUZZY RELATIONS AND FUZZY GRAPH

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE MATHEMATICS

Submitted by

2021MB22	**K. MONISHA**
2021MB23	**G. MURUGESHWARI**
2021MB24	**J. NASREEN NILOPHER**
2021MB25	**T. NIVETHITHA**

Under the Guidance of

Mrs. R. RAJESWARI, M.Sc., M.Phil., SET., PGDCA.,

Assistant Professor,

Department of Mathematics

FATIMA COLLEGE(Autonomous)

Re-Accredited with 'A++' Grade by NAAC (IV CYCLE)

Madurai-625018, Tamil Nadu.

MARCH - 2024

Mrs. R. RAJESWARI M.Sc., M.Phil., SET, PGDCA.,
Assistant Professor,
Department of Mathematics,
Fatima College (Autonomous),
Madurai- 625 018.

CERTIFICATE

This is to certify that the project entitled, **"A STUDY ON FUZZY RELATIONS AND FUZZY GRAPH"** submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics at Fatima College (Autonomous), is a bonafide record of work carried out by them under my guidance and supervision.

2021MB22	K. MONISHA
2021MB23	G.MURUGESWARI
2021MB24	J.NASREENNILOPHER
2021MB25	T. NIVETHITHA

26/03/24

Signature of the
Internal Examiner

Signature of the
External Examiner

Signature of the
Head of the Department
Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Mrs. R. RAJESWARI, M.Sc., M.Phil., SET., PGDCA., Assistant Professor, Department of Mathematics, Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 26.03.2024

Station: Madurai

K. MONISHA (2021MB22)

G. MURUGESWARI (2021MB23)

J. NASREEN NILOPHER (2021MB24)

T. NIVETHITHA (2021MB25)

A STUDY ON MEASURE THEORY

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment of

the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2021MB43   SYED ASMITHA H
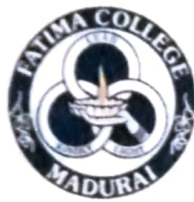
2021MB45   VARSHA M

2021MB46   VARSHINI M

Under the Guidance of

Mrs. R. JENOVI ROSARY DEEPA, M.Sc, M.Phil, SET, PGDCA

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC (Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu.

MARCH - 2024

Mrs. R. JENOVI ROSARY DEEPA M.Sc, M.Phil, SET, PGDCA

Assistant Professor

Department of Mathematics

Fatima College (Autonomous)

Madurai   625018

CERTIFICATE

This to certify that the project entitled "**A STUDY ON MEASURE THEORY**" submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.

SYED ASMITHA	2021MB43
VARSHA	2021MB45
VARSHINI	2021MB46

Place: Madurai

Date: 26.03.2024

SIGNATURE OF THE

INTERNAL EXAMINER

26/03/24

SIGNATURE OF THE

EXTERNAL EXAMINER

SIGNATURE OF THE

HEAD OF THE DEPARTMENT

Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Mrs. R. JENOVI ROSARY DEEPA, Assistant Professor, Department of Mathematics(SF), Fatima College (Autonomous), Madurai-18

affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

H. SYED ASMITHA (2021MB43)

M. VARSHA (2021MB45)

Station: Madurai

Date: 26. 03 2024.

M. VARSHINI (2021MB46)

A STUDY ON NUMBER THEORY IN CRYPTOGRAPHY

A Project Submitted To Madurai Kamaraj University in Partial Fulfilment of the

Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by:

2021MB51 AJITHA S

2021MB52 APARNA.S

2021MB53 ATCHAYA.S

2021MB56 DEEPIKA.A

2021MB57 DEVADHARSHINI.T

Under the Guidance of

Mrs. B. Vethamary Jacquline, M.Sc, M.Phil.,B.Ed.,PGDCA.,

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with 'A++' Grade by NAAC(IV CYCLE)

Madurai – 625018, Tamil nadu.

MARCH - 2024

Mrs.B.Vethamary Jacquline , M,Sc, M.Phil., B.Ed., PGDCA.,

Assistant Professor,

Department of Mathematics (SF)

Fatima College (Autonomous)

Madurai – 625018
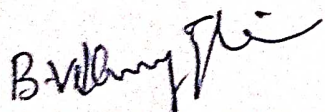
CERTIFICATE
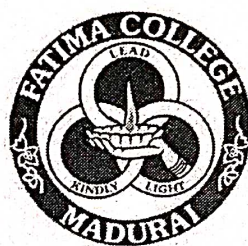
This to certify that the project entitled, "A STUDY ON NUMBER THEORY IN CRYPTOGRAPHY" submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.
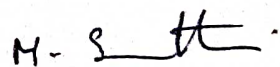
AJITHA S	2021MB51
APARNA S	2021MB52
ATCHAYA S	2021MB53
DEEPIKA A	2021MB56
DEVADHARSHINI T	2021MB57

Place: Madurai
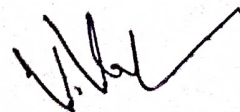
Date: 26.03.2024

SIGNATURE OF THE
INTERNAL EXAMINER

SIGNATURE OF THE
EXTERNAL EXAMINER
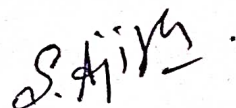
SIGNATURE OF THE
HEAD OF THE DEPARTMENT
Dr. V. VANITHA
..Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
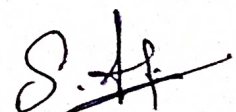Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Mrs. B. Vethamary Jacquline, Assistant Professor, Department of Mathematics(SF) , Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.
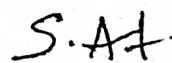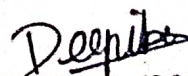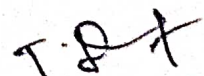
Date: 26·03·2024
Place : Madurai

AJITHA S (2021MB51)

APARNA S (2021MB52)

ATCHAYA S (2021MB53)

DEEPIKA A (2021MB56)

DEVADHARSHINI T (2021MB57)

A STUDY ON APPLICATION OF DIFFERTENTIAL EQUATIONS

IN MEDICAL FIELD

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment of the

Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

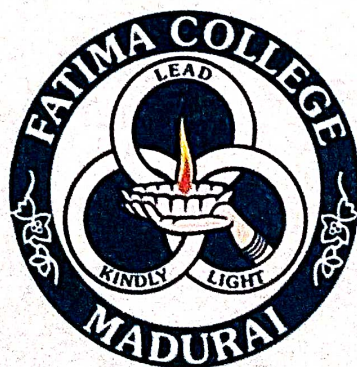2021MB61 FIRTHOUS A

2021MB62 ISHWARYA J

2021MB63 JAYASRI M

2021MB65 KANCHANA S

Under the Guidance of

Mrs.B.VethamaryJacquline, M.Sc., M.Phil., B.Ed., PGDCA.,

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC(Cycle-4)

Madurai – 625018, Tamil Nadu.

March – 2024.

Mrs.B.Vethamary Jacquline, M.Sc., M.Phil., B.Ed., PGDCA.,

Assistant Professor,

Department of Mathematics(SF)

Fatima College (Autonomous)

Madurai - 625018.

CERTIFICATE

This to certify that the project entitled, "A STUDY ON APPLICATION OF

DIFFERENTIAL EQUATIONS IN MEDICAL FIELD" submitted by the following students,for the award of the degree of Bachelor of Science in Mathematics is a bonafide record ofwork carried out by them under my guidance and supervision.
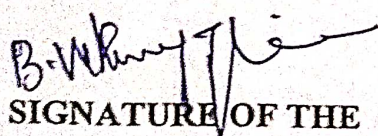
FIRTHOUS A 2021MB61

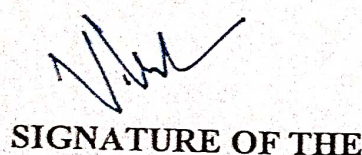ISHWARYA J 2021MB62

JAYASRI M 2021MB63

Place: Madurai

KANCHANA S 2021MB65

Date: 26.03.2024

SIGNATURE OF THE

SIGNATURE OF THE

INTERNAL EXAMINER

EXTERNAL EXAMINER

SIGNATURE OF THE

HEAD OF THE DEPARTMENT

Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
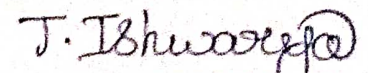Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance And supervision of Mrs.B.VethamaryJacquline, Assistant Professor, Department of Mathematics(SF), Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.
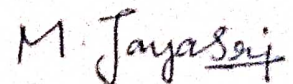
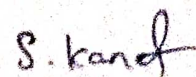**Date:** 26.03.2024

Station: Madurai

Firthous A(2021MB61)

Ishwarya J(2021MB62)

Jayasri M (2021MB63)

Kanchana S (2021MB65)

AN STUDY ON STRONG DOMINATION IN GRAPH THEORY

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment

of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE MATHEMATICS

Submitted by

2021MB79   RAGAVI C

2021MB80   RISWANA PARVEEN T

2021MB81   RUBADHARSHINI V

2021MB82   SELVAPRAJA V

Under the Guidance of

Mrs.J. Annaal Mercy, M.Sc, B.Ed., M.Phil, SET.,(Ph.D)

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC

(Cycle-4) Mary Land, Madurai – 625018, Tamil Nadu.

MARCH - 2024

Mrs. J. Annaal Mercy, M. Sc, B. Ed., M. Phil, SET., (Ph.D)

Assistant Professor,

Department of Mathematics (SF)

Fatima College (Autonomous)

Madurai – 625018

CERTIFICATE

This to certify that the project entitled, "A STUDY ON STRONG DOMINATION IN GRAPHS" submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.

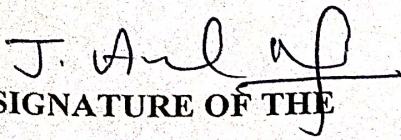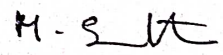|	
RAGAVI C	2021MB79
RISWANA PARVEEN T	2021MB80
RUBADHARSHINI V	2021MB81
SELVAPRAJA V	2021MB82

Place: Madurai

Date: 26.03.2024

SIGNATURE OF THE
INTERNAL EXAMINER

SIGNATURE OF THE
EXTERNAL EXAMINER

SIGNATURE OF THE

HEAD OF THE DEPARTMENT
Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Mrs. J. Annaal Mercy, Assistant Professor, Department of Mathematics, Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfilment for the award of degree of Bachelor of Science in Mathematics.

Date: 25.03.2024

Station: Madurai

C.RAGAVI (2021MB79)

T.RISWANA PARVEEN (2021MB80)

V. RUBADHARSHINI (2021MB81)

V.SELVAPRAJA (2021MB82)

A STUDY ON INTEGER PROGRAMMING

A Project Submitted to Madurai Kamaraj University in Partial Fulfilment of the

Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

SUBMITTED BY

2021MB83 SHOBIKA M
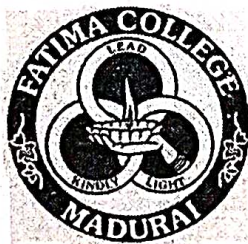
2021MB85 SIVA MEERA R

2021MB87 SONASHREE S R

2021MB90 SUJITHA V

Under the Guidance of

Mrs. P. DHANAPRIYA, M.Sc., M.Phil., SET

Assistant Professor

Department of Mathematics (SF)

FATIMA COLLEGE (Autonomous)
Re-Accredited with 'A++' Grade by NAAC (IV CYCLE)
Madurai - 625018, Tamil Nadu.

MARCH 2024

Mrs. P. DHANAPRIYA, M.Sc., M.Phil., SET
Assistant Professor,
Department of Mathematics (SF)
Fatima College (Autonomous)
Madurai – 625018

CERTIFICATE

This to certify that the project entitled, **"A STUDY ON INTEGER PROGRAMMING"**
submitted by the following students, for the award of the degree of Bachelor of Science
in Mathematics is a bonafide record of work carried out by them under my guidance and
supervision.

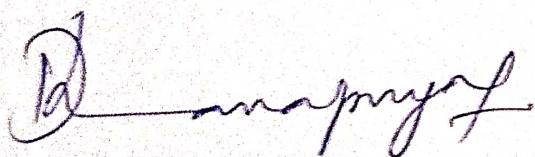|	
SHOBIKA M	2021MB83
SIVA MEERA R	2021MB85
SONASHREE S R	2021MB87
SUJITHA V	202MB90

Place: Madurai
Date: 26.03.2024
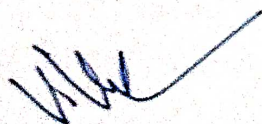
SIGNATURE OF THE
INTERNAL EXAMINER

H - S Ht.
SIGNATURE OF THE
EXTERNAL EXAMINER

SIGNATURE OF THE
HEAD OF THE DEPARTMENT

V. VANITHA
M.Phil. B.Ed. ACIM, SET, Ph.D
ad & Assistant Professor
rtment of Mathematics(SF)
College. Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Mrs. P. Dhanapriya, Assistant Professor, Department of Mathematics (SF), Fatima College (Autonomous), Madurai -18 and this work has not been submitted elsewhere for any other degree.

Date: 26.03.2024

Station: Madurai

M.Shobika.

SHOBIKA M(2021MB83)

R.Siva meera

SIVA MEERA R(2021MB85)

S.R.Sonashree.

SONA SHREE S R (2021MB87)

V. Sujitha

SUJITHA V(2021MB90)

A STUDY ON GRAPH LOGIC

A Project Submitted To Madurai Kamaraj University in Partial Fulfilment of the

Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

SUBMITTED BY

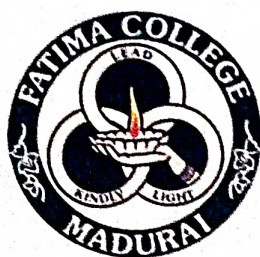**2021MB91 SUVITHA M**

2021MB92 SWETHA S

2021MB93 VANISHA R

2021MB95 VISHVAMAHALAKSHMI M

Under the Guidance of

Mrs. P.DHANAPRIYA, M.Sc, M.Phil., SET

Assistant Professor

Department of Mathematics

FATIMA COLLEGE (Autonomous)

Re- Accredited with "A++" Grade by NAAC (IV Cycle)

Madurai-625018,Tamilnadu.

MARCH 2024

Mrs. P. Dhanapriya, M.Sc., M.Phil., SET.

Assistant professor,

Department of mathematics

Fatima College (Autonomous)

Madurai -625018

CERTIFICATE

This to be certified that the project entitled, "A STUDY ON GRAPH LOGIC" submitted by The following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.
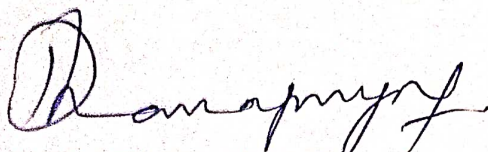
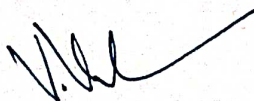|	
SUVITHA M	2021MB91
SWETHA S	2021MB92
VANISHA R	2021MB93
VISHVAMAHALAKSHMI M	2021MB95

Place: Madurai

Date: 26.03.2024

SIGNATURE OF THE
INTERNAL EXAMINER

SIGNATURE OF THE
EXTERNAL EXAMINER

SIGNATURE OF THE

HEAD OF THE DEPARTMENT
Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

2

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Mrs. P. Dhanapriya, Assistant Professor , Department of Mathematics, Fatima College (Autonomous), Madurai -18 and this work has not been submitted elsewhere for any other degree.

Date:26.03.2024

Station : Madurai

M. SUVITHA (2021MB91)

S. SWETHA (2021MB92)

R. VANISHA (2021MB93)

M. VISHVAMAHALAKSHMI (2021MB95)

A STUDY ON FUZZY SET THEORY

A Project Submitted To Madurai Kamaraj University in Partial Fulfillment of the

Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

SUBMITTED BY

2021MB96 NOOR MYMOON M

2021MB97 RAJAPRIYA V

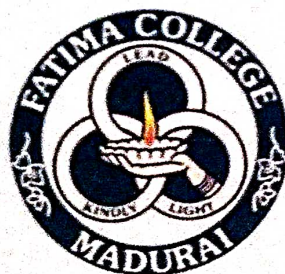### 2021MB98 SHARMILA S

2021MB99 JAYAM SHIVASHANGARI K

Under the Guidance of

Mrs. P. DHANAPRIYA, M.Sc, M.Phil., SET

Assistant Professor

Department of Mathematics (SF)

FATIMA COLLEGE (Autonomous)

Re-Accredited with 'A++' Grade by NAAC (IV CYCLE)

Madurai - 625018, Tamilnadu.

MARCH 2024

Mrs. P. DHANAPRIYA, M.Sc., M. Phil., SET
Assistant Professor,
Department of Mathematics (SF)
Fatima College (Autonomous)
Madurai – 625018

CERTIFICATE

This to certify that the project entitled, "A STUDY ON FUZZY SET THEORY" submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.
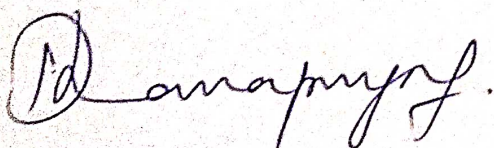
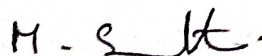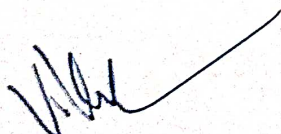| NOOR MYMOON M	2021MB96
RAJAPRIYA V	2021MB97
SHARMILA S	2021MB98
JAYAM SHIVASHANGARI K	2021MB99

Place: Madurai

Date: 26.03.2024.

SIGNATURE OF THE
INTERNAL EXAMINER

SIGNATURE OF THE
EXTERNAL EXAMINER

SIGNATURE OF THE
HEAD OF THE DEPARTMENT

i. V. VANITHA
M.Phil, B.Ed, ACIM, SET, Ph.D
ad & Assistant Professor
tment of Mathematics(SF)
Madurai - 625018

2

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Mrs. P. Dhanapriya, Assistant Professor , Department of Mathematics(SF), Fatima College (Autonomous), Madurai -18 and this work has not been submitted elsewhere for any other degree.

Date: 26.03.2024

Station: Madurai

M. NOOR MYMOON (2021MB96)

V. RAJAPRIYA (2021MB97)

S. SHARMILA (2021MB98)

K. JAYAM SHIVASHANGARI (2021MB99)

A STUDY ON CONNECCTED GRAPHS ON FUZZY GRAPH THEORY

A Project Submitted to Madurai Kamaraj University in Partial fulfillment

of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2021MB104   Surekha C

2021MB105   Vidhya Sree P
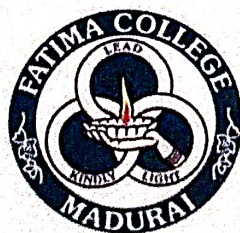
2021MB106   Ramchitra R

2021MB107   Sowmiya R

Under the Guidance of

Dr. M. Subha, M.Sc, M.Phil, DCA, ADHT, Ph.D
Assistant Professor
Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC (Cycle4)

Mary Land, Madurai– 625018, Tamil Nadu.

March-2024

Dr. M. Subha, M.Sc, M.Phil, DCA, ADHT, Ph.D

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Madurai – 625018

CERTIFICATE

This to certify that the project entitled, "A STUDY ON CONNECTED GRAPHS IN FUZZY GRAPH THEORY" submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.

SUREKHA C	2021MB104
VIDHYA SREE P	2021MB105
RAMCHITRA R	2021MB106
SOWMIYA R	2021MB107

Place: Madurai
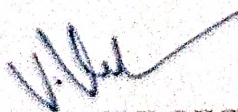
Date: 26.03.2024

SIGNATURE OF THE

INTERNAL EXAMINER

SIGNATURE OF THE

EXTERNAL EXAMINER

SIGNATURE OF THE

HEAD OF THE DEPARTMENT

Dr. V. VANITHA

M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D

Head & Assistant Professor

Department of Mathematics(SF)

Fatima College, Madurai - 625018

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr. M. Subha, Assistant Professor, Department of Mathematics, Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 26.03.2024

Station: Madurai

C. Surekha

Surekha C (2021MB104)

Vidhya sree P (2021MB105)

Ramchitra R (2021MB106)

Sowmiya R (2021MB107)

A STUDY ON DIRECTED GRAPHS IN GRAPH THEORY

A Project Submitted to Madurai Kamaraj University in Partial fulfillment

of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2021MB108   Durga Devi R

2021MB109   Mohanapriya A

2021MB110   Thasbiha Banu A

2021MB111   Vishnupriya M

Under the Guidance of

Dr. M. Subha, M.Sc., M.Phil., DCA., ADHT., Ph.D

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC (Cycle4)

Mary Land, Madurai– 625018, Tamil Nadu.

March-2024

Dr. M. Subha, M.Sc, M.Phil, DCA, ADHT, Ph.D

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Madurai – 625018

CERTIFICATE

This to certify that the project entitled, **"A STUDY ON DIRECTED GRAPH IN GRAPH THEORY"** submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.
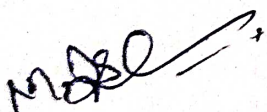
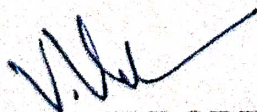|	
DURGA DEVI R	2021MB108
MOHANAPRIYA A	2021MB109
THASBIHA BANU A	2021MB110
VISHNUPRIYA M	2021MB111

Place: Madurai

Date: 26.03.2024

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EXTERNAL EXAMINER

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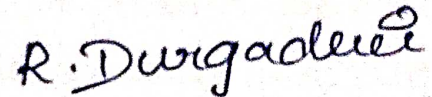
HEAD OF THE DEPARTMENT

Dr. V. VANITHA

M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D

Head & Assistant Professor

Department of Mathematics(SF)
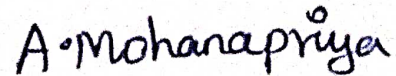
Fatima College, Madurai - 625018

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr. M. Subha, Assistant Professor, Department of Mathematics, Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.
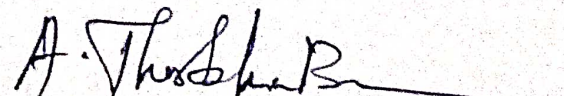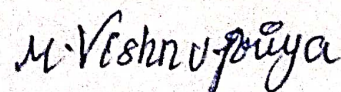
Date: 26.03.2024

Station: Madurai

Durga Devi R   (2021MB108)

Mohanapriya A (2021MB109)

Thasbiha Banu A (2021MB110)

Vishnupriya M   (2021MB111)

A STUDY ON VARIOUS TYPES OF GRAPH

A Project Submitted to Madurai Kamaraj University in Partial Fulfilment of the
Requirement for the Award of the Degree of

BACHELOR OF SCIENCE MATHEMATICS

Submitted by

2021MB26 M. PRADHIKSHAA

2021MB27 D. PRAVEENA

2021MB28 P. S. PRIYADHARSHINI

2021MB29 V. RAMYA

Under the Guidance of

Mrs. R. RAJESWARI, M.Sc., M.Phil., SET., PGDCA.,

Assistant Professor

Department of Mathematics

Fatima College (Autonomous)
Re-Accredited with "A++" Grade by NAAC (Cycle-4)
Mary Land, Madurai – 625018,
Tamil Nadu

MARCH - 2024

Mrs. R. RAJESWARI, M.Sc., M. Phil., SET, PGDCA
Assistant professor,
Department of Mathematics
Fatima College (Autonomous)
Madurai - 625018

CERTIFICATE

This is to certify that the project entitled "**VARIOUS TYPES OF GRAPH**" submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.

        2021MB26 M. PRADHIKSHAA

        2021MB27 D. PRAVEENA

        2021MB28 P. S. PRIYADHARSHINI
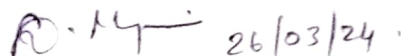
        2021MB29 V. RAMYA

Place: Madurai

Date: 26.03.2024

SIGNATURE OF THE   **SIGNATURE OF THE**
INTERNAL EXAMINER   **EXTERNAL EXAMINER**

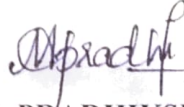**SIGNATURE OF THE**

HEAD OF THE DEPARTMENT

Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of **Mrs. R. RAJESWARI, M.Sc., M.Phil., SET., PGDCA., Assistant Professor, Department of Mathematics**, Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfilment for the award of degree of Bachelor of Science in Mathematics.
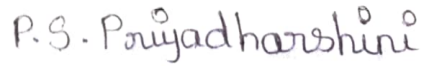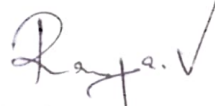
Date: 26.03.2024

Station: Madurai

M. PRADHIKSHAA 2021MB26

D. PRAVEENA 2021MB27

P. S. PRIYADHARSHINI 2021MB28

V. RAMYA 2021MB29

A STUDY ON FIXED POINTS IN QUASI METRIC SPACE

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS
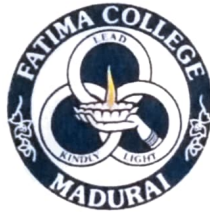
Submitted by

2021MB30   Ranjani K.S

2021MB31   Rinthiya S

2021MB34   ShanmugaPriya K

2021MB35   Shobikashri S

Under the Guidance of

Mrs. R. Jenovi Rosary Deepa, M.Sc., M.Phil. SET, PGDCA.

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC (Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu.

March **- 2024**

R. JENOVI ROSARY DEEPA M.Sc., M.Phil. SET, PGDCA

Assistant Professor,

Department of Mathematics

Fatima College (Autonomous)

Madurai – 625018

CERTIFICATE

This to certify that the project entitled, **"A STUDY ON FIXED POINTS IN QUASI METRIC SPACE"** submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision
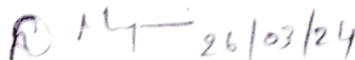
RANJANI K.S	2021MB30
RINTHIYA S	2021MB31
SHANMUGAPRIYA K	2021MB34
SHOBIKASHRI S	2021MB35

Place: Madurai

Date: 26.03.2024

SIGNATURE OF THE

INTERNAL EXAMINER

26/03/24

SIGNATURE OF THE

EXTERNAL EXAMINER

SIGNATURE OF THE

HEAD OF THE DEPARTMENT

Dr. V. VANITHA
M.Sc., M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Mrs. R. JENOVI ROSARY DEEPA, Assistant Professor, Department of Mathematics (SF), Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date 26.03.2024
Station Madurai

K.S.Ranjani
Ranjani K S (2021MB30)

Rinthiya S
Rinthiya S (2021MB31)

Shanmugapriya K
ShanmugaPriya K (2021MB34)

S. Shobikashri
Shobikashri S (2021MB35)

A STUDY ON FUZZY SETS

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment

of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

(2021MB36) SHURUTHI M

(2021MB37) SNEHA N

(2021MB39) SUDHARSHANA PRIYA S

Under the Guidance of

Mrs. R. JENOVI ROSARY DEEPA, M.Sc, M.Phil, SET,PGDCA

Assistant Professor

Department of Mathematics

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC(Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu.

March – 2024

Mrs. R. JENOVI ROSARY DEEPA, M. sc., M. Phil., SET, PGDCA

Assistant Professor,

Department of Mathematics (SF)

Fatima college (Autonomous)

Madurai - 625018

CERTIFICATE

This is to certify that the project entitled "**A STUDY ON FUZZY SETS**" submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.
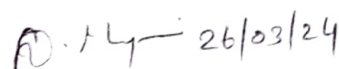
SHURUTHI M	(2021MB36)
SNEHA N	(2021MB37)
SUDHARSHANA PRIYA S	(2021MB39)

Place: Madurai

Date: 26.03.2024

SIGNATURE OF THE

INTERNAL EXAMINER

26/03/24

SIGNATURE OF THE

EXTERNAL EXAMINER

SIGNATURE OF THE

HEAD OF THE DEPARTMENT

Dr. V. VANITHA

M Sc, M Phil, B Ed, ACIM, SET, Ph.D

Head & Assistant Professor

Department of Mathematics(SF)

Fatima College, Madurai - 625018

DECLARATION

We do here by declare that this work has been originally carried out by us under the guidance and supervision of Mrs. R. JENOVI ROSARY DEEPA, Assistant Professor, Department of Mathematics (SF), Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 26.03.2024

Station: Madurai

SHURUTHI M (2021MB36) M. Shuruthi

SNEHA N (2021MB37) N. Sneha

SUDHARSHANA PRIYA S (2021MB39) S. Sudharshana Priya

A STUDY ON BASICS OF TOPOLOGY

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment of

the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2021MB40   SUJITHA M

2021MB41   SUMITHRA M

2021MB42   SWETHA S

Under the Guidance of

Mrs. R. JENOVI ROSARY DEEPA, M.Sc, M.Phil, SET, PGDCA

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Mary Land, Madurai – 625018, Tamil Nadu.

MARCH - 2024

Mrs. R. JENOVI ROSARY DEEPA, M.Sc., M. Phil., SET, PGDCA

Assistant Professor,

Department of Mathematics(SF)

Fatima College (Autonomous)

Madurai – 625018

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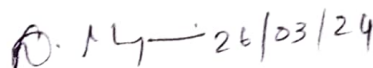|		
SUJITHA M	2021MB40	
SUMITHRA M	2021MB41	
SWETHA S	2021MB42	

Place: Madurai

Date: 26.03.2024

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Date: 26.03.2024   M. SUJITHA (2021MB40)   — M. Sujitha.

Station: Madurai   M. SUMITHRA (2021MB41)   — M. Sumithra

                     S. SWETHA (2021MB42)   — S. Swetha

A STUDY ON MARKOV CHAIN IN STOCHASTIC PROCESS

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment

of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

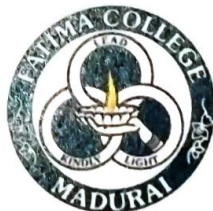2021MB47   Varshini V

2021MB48   Viji E

2021MB50   Yuva Dharshini M

Under the Guidance of

Mrs. B. VETHAMARY JACQUILNE, M.Sc., M.Phil., B.Ed., PGDCA.

Assistant Professor

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Fatima College (Autonomous)

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Mary Land, Madurai – 625 018, Tamil Nadu.

MARCH-2024

Mrs. B. VETHAMARY JACQULINE M.Sc., M.Phil., B.Ed., PGDCA.

Assistant Professor,
Department of Mathematics
Fatima College (Autonomous)
Madurai – 625018

CERTIFICATE

This to certify that the project entitled, **"A STUDY ON MARKOV CHAIN IN STOCHASTIC PROCESS"** submitted by the following students, for the award of the degree of Bachelor of Science in Mathematics is a bonafide record of work carried out by them under my guidance and supervision.

VARSHINI V	**(2021MB47)**
VIJI E	**(2021MB48)**
YUVA DHARSHINI M	**(2021MB50)**

Place: Madurai
Date: 26.03.2024

SIGNATURE OF THE
INTERNAL EXAMINER

SIGNATURE OF THE
EXTERNAL EXAMINER

SIGNATURE OF THE
HEAD OF THE DEPARTMENT

Dr. V. VANITHA
M.Sc, M.Phil, B.Ed, ACIM, SET, Ph.D
Head & Assistant Professor
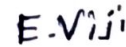Department of Mathematics(SF)
Fatima College, Madurai - 625018

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Mrs. VETHAMARY JACQULINE M.Sc., B.Ed., M.Phil., PGDCA., Assistant Professor, Department of Mathematics(SF), Fatima College (Autonomous), Madurai-18 affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.
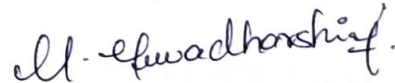
Date: 26·03·2024

Station: Madurai

Varshini V   (2021MB47)

Viji E   (2021MB48)

Yuva Dharshini M   (2021MB50)

A STUDY ON APPLICATIONS OF GRAPH THEORY

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment of
the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE MATHEMATICS

Submitted by

2021MB66 KARTHIGA N

2021MB67 KAVITHARSHINI T
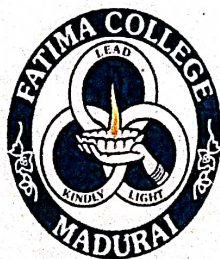
2021MB69 LAKSHMIPRIYA A

2021MB71 MAHA ALAGUMATHI J

Under the Guidance of

Mrs.J. Annaal Mercy, M.Sc, B.Ed., M.Phil, SET., (Ph.D)

Assistant Professor

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Re-Accredited with "A++"Grade by NAAC(Cycle-4)

Mary Land, Madurai– 625018, Tamil Nadu.

MARCH -2024

Mrs.J. Annaal Mercy, M.Sc, B.Ed., M.Phil, SET., (Ph.D)

Assistant Professor,

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Fatima College (Autonomous)

Madurai – 625018

CERTIFICATE

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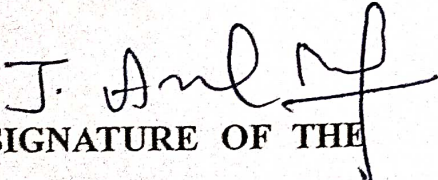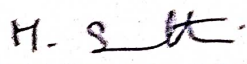
N.Karthiga 2021MB66

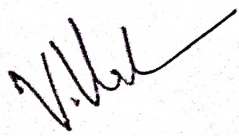T.Kavitharshini 2021MB67

A.Lakshmi Priya 2021MB69

J.Maha Alagumathi 2021MB71

Place: Madurai

Date: 26.03.2024

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Dr. V. VANITHA

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Head & Assistant Professor

Department of Mathematics(SF)

Fatima College, Madurai - 625018

DECLARATION

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Date: 26.03.2024

Station: Madurai

N.KARTHIGA (2021MB66)

T.KAVITHARSHINI (2021MB67)

A. LAKSHMIPRIYA (2021MB69)

J.MAHA ALAGUMATHI (2021MB71)

A STUDY ON FUZZY MATRICES

A Project Submitted to Madurai Kamaraj University in Partial fulfillment

of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2021MB100   Abirami R
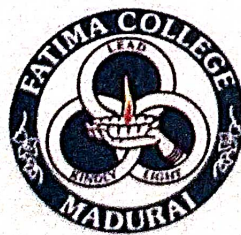
2021MB101   Hema M

2021MB102   Pamina J

2021MB103   Madhumitha M

Under the Guidance of

Dr. M. Subha, M.Sc., M.Phil., DCA., ADHT., Ph.D

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Re-Accredited with "A++" Grade by NAAC (Cycle4)

Mary Land, Madurai– 625018, Tamil Nadu.

March-2024

Dr. M. Subha, M.Sc, M.Phil, DCA, ADHT, Ph.D

Assistant Professor

Department of Mathematics (SF)

Fatima College (Autonomous)

Madurai – 625018

CERTIFICATE

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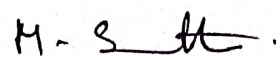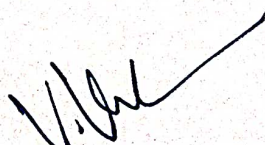|	
ABIRAMI R	2021MB100
HEMA M	2021MB101
PAMINA J	2021MB102
MADHUMITHA M	2021MB103

Place: Madurai

Date: 26.03.2024

SIGNATURE OF THE

INTERNAL EXAMINER

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Date: 26.03.2024

Station: Madurai

Abirami R   (2021MB100)

Hema M   (2021MB101)

Pamina J   (2021MB102)

Madhumitha M   (2021MB103)