NAAC SSR



# Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)
90,PalghatRoad,Pollachi -642001,Coimbatore, Tamil Nadu, India.
95<sup>th</sup> Rank in NIRF -2023 - Among Colleges in India.



# PROBLEM SOLVING

# NUMBER OF STUDENTS UNDERTAKING PROJECTS (PG)

Name of the Department

**Mathematics** 

Name of the Course and Course Code

21PMS4P1 & Project

S. No Roll No.		Name of the Student	Project Guide	
1.	21-PM-01	E. GURUPRASATH	Dr. V. INTHUMATHI	
2.	21-PM-02	M. MOHAMMED THARIK	Dr. J.JAYASUDHA	
3,	21-PM-03	K. PONRAJ	Dr. R. SANTHI	
4.	21-PM-06	S. SIVANANDHAN	Dr. V. CHITRA	
5.	21-PM-07	M. TAMILARASAN	Dr. S.SIVASANKAR	
6.	21-PM-09	S. AKILA	Dr. S. KALEESWARI	
7.	· 21-PM-10	M. ANUDHARUNYA	Mrs. A. GNANASOUNDARI	
8.	21-PM-11	P. ANUPRIYA	Dr. N. SELVANAYAKI	
9.	21-PM-13	R. DEVI MANOHARI	Dr. M. MAHESWARI	
10.	21-PM-15	C. D. DHARSINI	Dr. V. INTHUMATHI	
11.	21-PM-16	G. DHARUNYA	Dr. J.JAYASUDHA	
12.	21-PM-17	M. GEETHANJALI	Dr. R. SANTHI	
13.	21-PM-19	N. KARTHIKA	Dr. V. CHITRA	
14.	21-PM-20	K. KIRUTHIKA	Dr. S.SIVASANKAR	
15.	21-PM-21	M. LAVANYA	Dr. S. KALEESWARI	
16.	21-PM-22	M. NIRMALA	Mrs. A. GNANASOUNDARI	
17.	21-PM-25	P. RAGAVI	Dr. N. SELVANAYAKI	
18.	21-PM-27	B. SIDHUJA	Dr. M. MAHESWARI	
19.	21-PM-28	S. SUNISHA	Dr. V. INTHUMATHI	
20.	21-PM-29 T. VIVETHA		Dr. J.JAYASUDHA	

Dr. R. MUTHUKUMARAN, M.A., M.Phil., B.Ed., Ph.D.,

PRINCIPAL N.G.M. College, Pollachi - 642 001 Coimbatore District

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

This is to certify that the project entitled, "A STUDY ON SOFT REGULAR GENERALIZED OPEN (CLOSED) SETS IN SOFT TOPOLOGICAL SPACES" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi, affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Mr. E. GURUPRASATH (Reg. No. 21-PM-01) during the period (2021 - 2023) of his study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

# **Countersigned**

Signature of the Guide Dr. V. Inthumathi, Ph.D., Associate Professor & Head

Department of Mathematics

N.G.M College, Pollachi - 642 001.

Associate Professor & Head Department of Mathematics

N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on <u>02.05.2023</u>

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

**Examiners:** 

1. 20 2 2/5/23 (Edt)
2. V= 9 http://dispose (Internal)

This is to certify that the project entitled, "A STUDY ON SOFT α-OPEN SETS AND SOFT α-CONTINUOUS FUNCTIONS IN SOFT TOPOLOGICAL SPACES" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi, affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Mr. M. MOHAMMED THARIK (Reg. No. 21-PM-02) during the period (2021 - 2023) of his study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

#### Countersigned

Signature of the Guide			Head of the Department
Dr. J. JAYASUDHA, M.Sc., M.Phil., Ph.D., Associate Professor Department of Mathematics N.G.M. College, Pollachi - 642 001 Submitted Talfili Natu, India.	held	on	at

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1. 20 2 21(1/2) 2. Type,

This is to certify that the project entitled, "A STUDY ON GENERALIZED b - CLOSED SETS IN MULTISET TOPOLOGICAL SPACES" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Mr. K. PONRAJ (Reg.No. 21-PM-03) during the period (2021 - 2023) of his study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

## **Countersigned**

Signiture of the Guide Assistant Professor

Department of Mathematics
N.G.M. College, Pollachi - 642 001.

Head of the Department

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on \_\_\_\_\_

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

# **Examiners:**

1.

2. R 2 02/5/23

This is to certify that the project entitled, "A STUDY ON THE INTERSECTION OF TWO SCIENCES - MATHEMATICS & ASTRONOMY " submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi, affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Mr. S. SIVANANDHAN (21-PM-06) during the period (2021-2023) of his study in **DEPARTMENT OF MATHEMATICS** the at NALLAMUTHU MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Countersigned

Signature of the Guide

Dr. V. CHITRA, M.Sc., M.Phil., B.Ed.Ph.D. **Associate Professor** Department of Mathematics NGM College (Govt. Aided) Pollachi - 642 nos India

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

# **Examiners:**

ON-2/1123 1.

This is to certify that the project entitled, "A STUDY ON BONDAGE NUMBER AND TOTAL BONDAGE NUMBER OF A GRAPH" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of eriginal research study done by Mr. M. TAMILARASAN (21-PM-07) during the period (2021 - 2023) of his study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

# **Countersigned**

Signature of sthe Griff Score Department of Mathematics
N.G.M. College (Govt. Alded)
Pollachi - 642001, Tamil Nadu, India

Head of the Department
Dr. V. Inthumathi, Ph.D.,

esociate Professor & Head eartment of Mathematics allege, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on 02.05.2023 at

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

## **Examiners:**

1.

2. 02 05 2.

This is to certify that the project entitled, "A STUDY ON DELAY DIFFERENTIAL EQUATIONS" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi Affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. S. AKILA (Reg. No. 21-PM-09) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI under my supervision and project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

# Countersigned

Signature of the Guide

Dr. S. KALEESWARI, M.Sc., M.Phil., Ph.D., SET,
Assistant Professor
Department of Mathematics
N.G.M. College, Pollachi - 642 001.

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head

Department of Mathematics

N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on \_\_\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

# **Examiners:**

1. 200 2 HORS

2. 2/5/23

This is to certify that the project entitled, "A STUDY ON SOFT b-OPEN SETS AND SOFT b-CONTINUITY" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by

Ms. M. ANUDHARUNYA (Reg. No.21-PM-10) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

#### Countersigned

Signature of the Guide

Head of the Department Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on \_

2/5/23

.17

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1. 00 2 2/8/27

2. A - ( ) 2/5/2;

This is to certify that the project entitled, "A STUDY ON SOFT PREOPEN SETS AND SOFT PRE SEPARATION AXIOMS" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi, affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. P. ANUPRIYA (21-PM-11) during the period (2022 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

## **Countersigned**

Signature of the Guide

Head of the Department
Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on <u>02.05.3022</u> at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1 20 7 2/1/2

2. Nehw 2/5/23

This is to certify that the project entitled, "A STUDY ON GOAL PROGRAMMING" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. R. DEVI MANOHARI (21-PM-13) during the period (2022 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

#### **Countersigned**

M. Mallli Signature of the Guide

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on \_\_\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

# **Examiners:**

- 1. 218123 2. M. Malliel23

This is to certify that the project entitled, "A STUDY ON TOPOLOGICAL INDICES IN CHEMICAL GRAPH THEORY" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous)Pollachi, affiliated to Bharathiar University) in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. C. D. DHARSINI (Reg.No 21-PM-15) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

# Countersigned

Signature of the Guide

Dr. V. Inthumathi, Ph.D.,
Associate Professor & Head
Department of Marks maries
N.G.M College, Pollage 2001.

Head of the Department

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on O2.05.2023 at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

## **Examiners:**

1. V Miller (Internal
2 2 2 2 2 2 ( 5 x 5 )

This is to certify that the project entitled, "A STUDY ON NEUTROSOPHIC SOFT GROUPS" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Affiliated to Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by Ms. G. DHARUNYA (Reg. No. 21-PM-16) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

# Countersigned

Signature of the Guide

Dz. J. JAYASUDHA, M.Sc. M.Phil.Ph.D.,
Associate Professor
Department of Mathematics
N.G.M. College, Pollachi - 642 001.
Tamil Nadu, India.

Head of the Department

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on \_\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

# **Examiners:**

1. 200 2/1/2

2. J. J. ,

This is to certify that the project entitled, "A STUDY ON SOFT Np-OPEN SETS IN SOFT TOPOLOGICAL SPACES" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by Ms. N. KARTHIKA (21-PM-19) during the period (2022 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

**Countersigned** 

Signature of the Guide

Dr. V. CHITRA, M.Sc., M.Phil, B.Ed., Ph.D., **Associate Professor** Department of Mathematics NGM College (Govt. Aided) Pollachi - 642 001, Tamil Nadu, India

Submitted for the Viva-Voce Examination held on \_\_\_\_02.05.2023 Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

# **Examiners:**

91.1/1.

This is to certify that the project entitled, "A STUDY ON ENERGY OF A GRAPH" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi affiliated to Bharathiar University in partial fulfilment of the requirements for the award the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of research study done by Ms. K. KIRUTHIKA (Reg No: 21-PM-20) during the period (2021 - 2023) of her study in the DEPARTMENT OF **MATHEMATICS** at **NALLAMUTHU GOUNDER** MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide 2023

Dr. S. SIVASANKAR, M.Sc., M.Frill, Ph.D.
Associate Professor
Department of Mathematics
N.G.M. College (Govt. Akled)
Pollachi - 642001, Tamil Nadu, India

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on <u>O2.05.2023</u> at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

# **Examiners:**

1.

2.

This is to certify that the project entitled, "APPLICATIONS OF GREEN'S FUNCTION" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Affiliated to Bharathiar University, Pollachi in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by

Ms. M. LAVANYA (Reg. No: 21-PM-21) during the period (2021 - 2023) of her study in the

DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM

COLLEGE (AUTONOMOUS), POLLACHI under my supervision and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Countersigned

Signature of the Guide

Dr. S. KALEESWARI, M.Sc., M.Phil., Ph.D., SET,

Assistant Professor

Department of Mathematics

N.G.M. College, Pollachi - 642 001.

Head of the Department

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on \_\_\_\_\_\_at

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

**Examiners:** 

1. 5 2/81~3

2. Politica 2 2 15 2 2 3

This is to certify that the project entitled, "A STUDY ON Bc-OPEN SETS AND SOFT Bc-CONTINUITY" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. M. NIRMALA (Reg. No: 21-PM-22) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

## Countersigned

Signature of the Guide

Head of the Department

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on <u>02/05/23</u> at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1 2 2 2/3/2

2. A. Culton

This is to certify that the project entitled, "A STUDY ON SIGNATURE AUTHENTICATION USING FUZZY SET" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. P. RAGAVI (21-PM-25) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

## **Countersigned**

Signature of the Guide

Head of the Department Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

### **Examiners:**

Delwhi

This is to certify that the project entitled, "A STUDY ON SIMULATION IN OPERATION RESEARCH" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi, affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. B. SINDHUJA (21-PM-27) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

## **Countersigned**

MHall Signature of the Guide

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

# **Examiners:**

- M. Malli

This is to certify that the project entitled, "APPLICATIONS OF GRAPH THEORY IN COMPUTER SCIENCE" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi, affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. SUNISHA S. (21-PM-28) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

## Countersigned

Signature of the Guide

Dr. V. Inthumathi, Ph.D.,
Associate Professor & Head
Department of Mathematics
N.G.M College, Pollachi - 642 001.

Head of the Department

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on <u>02.05.2023</u> at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

2. 50 2111-3

This is to certify that the project entitled, "A STUDY ON NEUTROSOPHIC SOFT RINGS" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. T. VIVETHA (21-PM-29) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

# Countersigned

Signature of the Guide

Dr. J. JAYASUDHA, M.Sc., M.Phil, Ph.D., Associate Professor Department of Mathematics N.G.M. College, Pollachi - 642 001. Tamil Nadu, India.

Head of the Department

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on \_\_\_\_\_\_ at Nallamuthu Gounder

Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1. 502 2/5/4

2. 7.

This is to certify that the project entitled, "A STUDY ON  $\hat{\beta}$  GENERALIZED CLOSED SETS IN MULTISET TOPOLOGICAL SPACES" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), affiliated to Bharathiar University in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original work done by Ms. M. GEETHANJALI (Reg.No. 21-PM-17) during the period (2021 - 2023) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the project has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

# Countersigned

Signature of the Guide

Dr. R. SANTHI, Ph.D.,

Assistant Professor

Department of Mathematics

N.G.M. College, Pollachi - 642 001.

Submitted for the Viva-Voce Examination held on \_\_\_\_

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Associate Professor & Hend Department of Mathematics

N.G.M College, Polletti - 642 001.

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

RD 2/5/23

# NUMBER OF STUDENTS UNDERTAKING PROJECTS (PG)

Name of the Department

Mathematics

Name of the Course and Course Code

: 20PMS4P1 & Project

Name of in-charge

.

S. No	Roll No.	Name of the Student			
1	19-PM-31	THARANI S.			
2	20-PM-01	ARUN VIGNESH M.			
3	20-PM-02	DANIEL Y.			
4	20-PM-04	SUBAGURU J.			
5	20-PM-06	ANUSRI A.			
6	20-PM-07	ARCHANA SAI S.			
7	20-PM-08	BALASOWNDARI K.			
8	20-PM-09	DHIVYADHARSINI R.			
9	20-PM-10	DIVYA S.			
10	20-PM-11	KARTHIKA J.			
11	20-PM-14	KIRETHIKA M.			
20-PM-15		KIRUBAVATHI V.			
20-PM-16		LAVANYA G.			
14	20-PM-17	LOGAPRIYA V.			
15	20-PM-18	MANEESHA N.			
16	20-PM-20	MANJUESWARI G.			
17	20-PM-21	MANJULA N.			
20-PM-22 18		MOHANARAMYA M.			

S. No	Roll No.	Name of the Student		
19	20-PM-23	NATHIBRAMI M.		
20	20-PM-27	SANGEETHA M.		
21	20-PM-30	TAMILSELVI S.		
22	20-PM-31	DESIYAA M.S.		
23	20-PM-32	SUMITHARA N.		
24	20-PM-33	UMAMAHESHWARI T.		
20-PM-34 25		KANCHIYARASI Y.		

PRINCIPAL

Dr. R. MUTHUKUMARAN MA MPN BER PhD., Principal Nallamuthu Gounder Mahalingam College, Pollachi - 642 001. HOD

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

This is to certify that the project entitled, "AN EXTENSION OF SOFT PREOPEN SETS TO HYPERSOFT PREOPEN SETS" submitted to the Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Mrs. S. THARANI (19-PM-31) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship /Fellowship or other similar title to any candidate of any University.

> V. galth. Signature of the Guide

> > Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Countersigned

Head of the Department, Ph.D.,

Associate Professor & Head Submitted Department of Mathematics amination held on 13.06. 2022 at Nallamuthu

Gounder Mahalingam College, Pollachi.

**Examiners:** 

1. V-Internal)
2. N- De (Evoletage).

This is to certify that the project entitled, "APPLICATION OF SOFT SETS, HYPER SOFT SETS AND PLITHOGENIC HYPERSOFT SETS IN COVID-19 DECISION MAKING MODEL" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Mr. ARUN VIGNESH. M (20-PM-01) during the period (2021 - 2022) of his study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Countersigned

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001.

Head of the Department

Department of Mathematics N.G.M College, Pollachi - 642 001. Gounder Mahalingam College, Pollachi.

#### Examiners:

1. V. Inthe (Internal).

This is to certify that the project entitled, "A STUDY ON SOME FUZZY GENERALIZED CLOSED SETS" submitted to the Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of science in Mathematics is a record of original research work done by Mr. Y. DANIEL (20-PM-02) during the period 2021 – 2022 of his study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Countersigned

Signature of the Guide Dr. J.JAYASUDHA, M.Sc., M.Phil., Ph.D., Assistant Professor, Department of Mathematics,

NGM College, Pollachi - 642 001.

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Submitted for the Viva –voce examination held on...

Submitted for the Viva –voce examination held on...

Submitted for the Viva –voce examination held on... N.G.M College, Pollachi - 642 001,

Gounder Mahalingam College, Pollachi.

**Examiners:** 

1. J. Jul (Internal)
2. Ne (External)

This is to certify that the project entitled, "A STUDY ON SOFT SET THEORY AND ITS APPLICATIONS" submitted to the Nallamuthu Gounder Mahalingam College(Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of study research work done by Mr. J. SUBAGURU (20-PM-04) during the period (2021 -2022) of his study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship /Fellowship or other similar title to any candidate of any University.

Dr. R. SANTHI, Ph.D.,

Assistant Professor

**Department of Mathematics** N.G.M. College, Pollachi - 642 001,

Countersigned

Head of the Department

Department of Mathematics

Gounder Mahalingam College, Pollachi.

N.G.M College, Pollachi - 642 001.

Examiners:

1. RS D (Internal)
2. No (Enternal)

This is to certify that the project entitled, "A STUDY ON SOFT a-OPEN SETS AND SOFT \a-CONTINUOUS FUNCTIONS IN SOFT TOPOLOGICAL SPACES" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfilment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. A. ANUSRI (20-PM-06) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Countersigned

Signature of the Guide Dr.V.CHITRA, Ph.D., Assistant Professor, Department of Mathematics, N.G.M. College, Pollachi - 642 001.

V- 9 Atti Head of the Department

Submitted for the Viva-Voce examination held on Asia Francisco Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi. Varhenatres 642 001.

Examiners:

1. Office (Insternal) 2. Note (Enternal)

This is to certify that the project entitled, "THE BONDAGE NUMBER OF A GRAPH " submitted to the Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of study research work done by Ms. ARCHANA SAI. S (20-PM-07) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi, under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide Dr. S. SIVASANKAR **Assistant Professor** 

Department of Mathematics N. G. M. College, Pollachi - 642 001

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Submitted for the Viva – Voce examination held on 13.6.2022

Associate Professor & Head aDopartment of Mathematics N.G.M College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

Examiners:

- (Enternal).

This is to certify that the project entitled, "A STUDY ON HERMITIAN MATRICES AND THEIR APPLICATIONS" submitted to the Department of Mathematics Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University), Pollachi in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. K. BALASOWNDARI (20-PM-08) during the period (2021 - 2022) of her study in the Department of Mathematics. Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

GO 8 06/22

Signature Afthe Guildense, M.Phil. Ph.D.,

Assistant Professor,

Department of Mathematics,

N.G.M. College, Pollachi - 642 001-

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head Department of Mathematics

Submitted for the Viva-Voce examination held on 13-6-2022 N.G.M College, Pollachi - 642 001.

at Nallamuthu

Gounder Mahalingam College, Pollachi.

Examiners:

1. Dolor

2. Notes (Enternal).

This is to certify that the project entitled, "A STUDY ON SOFT β-OPEN AND SOFT β-CONTINUOUS FUNCTIONS IN SOFT TOPOLOGICAL SPACES" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfilment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. R. DHIVYADHARSINI (20-PM-09) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head on Department of Mathematics

Submitted for the Viva-Voce examination held on Nallamuthu Gounder Mahalingam College (Autonomous), Pollagi M College, Pollachi - 642 001.

**Examiners:** 

1. A. Cubr. (Internal)
2. Ne (Enternal)

This is to certify that the project entitled, "A STUDY ON RHOTRIX THEORY" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University), Pollachi, in partial fulfillment of the requirements for the award of the degree of Master of science in Mathematics is a record of original research work done by Ms. S. DIVYA (20-PM-10) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

M. Malle

Countersigned

Dr. V. Inthumathi, Ph.D.,

N.G.M College, Pollachi - 642 001-

Gounder Mahalingam College, Pollachi.

# Examiners:

1. M. Malli: 2. New (Enternal).

This is to certify that the project entitled, "A STUDY ON SOFT GENERALIZED ab-CLOSED SETS IN SOFT TOPOLOGICAL SPACES" submitted to the Nallamuthu Gounder Mahalingam College(Autonomous, Affiliated to the Bharathiar University) Pollachi in partial fulfillment of the requirements for the award of the degree of Master of science in Mathematics is a record of original research work done by Ms. J. KARTHIKA (20-PM-11) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and guidance the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

> Reliabi Signature of the Guide

Countersigned

Head of the Department Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head

Submitted for the Viva -Voce examination held on. 13. 6. 2022 Department affarmentation N.G.M College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

Examiners:

1. Mehali. [Internal].
2. N= (Enternal).

This is to certify that the project, entitled " A STUDY ON FUZZY b-METRIC SPACES" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University), Pollachi, in partial fulfilment of the requirements for the award of the Degree of Master of science in Mathematics is a record of original reasearch work done by KIRTHIKA.M during the period (2021-2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, under my supervision and the guidance and that the project has not formed the basis for the award of any Degree/Diploma/ Associateship/Fellowship or other similar title to any candidate of any University.

Place: POLLACHI

Date: 10. 06. 2022

Dr. J.JAYASUDHA, M.Sc., M.Phil., Ph.D.,

Assistant Professor,

Department of Mathematics.

Countersigned NGM College, Pollachi - 642 001.

Head of the Department. Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head Department of Mathematics

Submitted for the Viva voice Examination held on N.G.M College and Indianation College and College and

Mahalingam College(Autonomous), Pollachi.

Examiners

1. T. Tpl (Internal)
2. Ne (Enternal).

This is to certify that the project entitled, "A STUDY ON A NEW SOLUTION TO THE MATRIX EQUATION X - AXB = C" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College, (Autonomous, Affiliated to the Bharathiar University) Pollachi in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. V. KIRUBAVATHI (20-PM-15) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Dr. R. SANTHI, Ph.D., Assistant Professor Department of Mathematics N.G.M. College, Pollachi - 542 601.

Countersigned

Head of the Department

Submitted for the Viva -voce examination held on at Nallamuthunkof Madientitics

N.G.M. College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

Examiners:

1. RS Q (Internal)
2. Note (Enternal)

This is to certify that the project entitled, "A STUDY ON GRAPH LABELING" submitted to the Nallamuthu Gounder Mahalingam College(Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of study research work done by Ms. G. LAVANYA (20-PM-16) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

> Signature of the Guide Dr.V.CHITRA, Ph.D.,

Assistant Professor, Department of Mathematics, N.G.M. College, Pollachi - 642 001.

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Submitted for the Viva -Voce examination held on 16.03.2022 at Nathamatics N.G.M College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

Examiners:

April (Internal)

This is to certify that the project entitled, " A STUDY ON THE TOTAL k-DOMINATION IN GRAPHS " submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of study research work done by Ms. N. MANEESHA (20-PM-18) during the period (2021-2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

> Signature of the IVAS **Assistant Professor**

**Department of Mathematics** N. G. M. College, Pollachi - 642 001

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head

Submitted for the Viva -Voce examination held on \3. 5 - 2022 Permathant all dathematics
N.G.M College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

Examiners:

13/06 (Internal).

This is to certify that the project entitled, "A STUDY ON PERTURBATION THOERY" submitted to the Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University), Pollachi in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. G. MANJUESWARI (20-PM-20) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Counter signed

Signature of the Guide Dr. S. KALEESWARI, M.Sc., M.Phil., Ph.D., Assistant Professor, Department of Mathematics, N.G.M. College, Pollachi - 642 001

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head

Gounder Mahalingam College, Pollachi.

#### **Examiners:**

1. Police
2. Note (Enternal)

This is to certify that the project entitled, "A STUDY ON SPECTRAL PROPERTIES OF UNITARY AND NORMAL BIMATRICES" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University), Pollachi, in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. N. MANJULA (20-PM-21) during the period (2021-2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

M. Malli Signature of the Guide

Counter signed

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on. 136.202 Associate Printing Submitted for the Viva-Voce examination held on the Voce examination held of the Voce examination held on the

N.G.M College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

#### Examiners:

1. M.Malli (INTERNAL) 2. Notes (Enternal).

This is to certify that the project entitled, "A STUDY ON NEUTROSOPHIC GENERALIZED CONTINUOUS FUNCTIONS" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University), Pollachi in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by Ms. M. MOHANARAMYA (20-PM-22) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

> Melie ! Signature of the Guide

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head

Submitted for the Viva -voce examination held on 13.6. 202 N. Gt M. Call and 19 lachi - 642 001.

Gounder Mahalingam College, Pollachi.

Examiners:

1. Melbuli [Internal].

2. Not = ( Enterval.)

This is to certify that the project entitled, "A STUDY ON HYPERSOFT SEMI-OPEN SETS IN HYPERSOFT TOPOLOGICAL SPACES" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. NATHIBRAMI . M (20-PM-23) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Dr. V. Inthumathi, Ph.D.,
Associate Professor & Head
Department of Mathematics
N.G.M College, Pollachi - 642 001.

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Submitted for the Viva -voce examination held on 3.6.2022 Associate Professor & Head N.G.M College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

### **Examiners:**

1. Nexe (External).

2. V. Jatthini (Internal)

This is to certify that the project entitled, "A STUDY ON GENERALIZED FUZZY GRAPH STRUCUTURES" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of study research work done by Ms. M. SANGEETHA (20-PM-27) during the period (2021-2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

> Signature of the Guide Dr. R. SANTHI, Ph.D.,

Assistant Professor

Department of Mathematics

N.G.M. Conege, Polachi - 642 001.

Countersigned

Head of the Department

13.6.2022 Dr. V. Inthumathi, Ph.D., Submitted for the Viva – Voce examination held on ... ... at Nalparuthuof Mathematics N.G.M College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

#### **Examiners:**

1. RS (Internal)
2. Nese (Enternal).

This is to certify that the project entitled, "A STUDY ON NUMERICAL METHODS FOR SOLVING SYSTEMS OF NONLINEAR EQUATIONS" submitted to Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University), Pollachi in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. S. TAMIL SELVI (20-PM-30) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

> Signature of the Guide Dr.V.CHITRA, Ph.D. Assistant Professor, Department of Mathematics, N.G.M. College, Pollachi - 642 001

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D.,
Associate Professor & Head
on.
Department of Mathematics N.G.M College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

Submitted for the Viva -Voce examination held on.....

This is to certify that the project entitled, "A STUDY ON THE ENERGY OF GRAPH" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of study research work done by Ms. M. S. DESIYAA (20-PM-31) during the period (2021-2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of anyUniversity.

Signature of the Gui

Dr. S. SIVASANKAR Assistant Professor Department of Mathematics N. G. M. College, Poliact.

Countersigned

Dr. V. Inthumathi, Ph.D.,

Submitted for the Viva -Voce examination held on 13 - 202 at Natian Inference & Head Department of Mathematics

N.G.M College, Pollachi - 642 001.

Gounder Mahalingam College, Pollachi.

Examiners:

(Ensonal)

This is to certify that the project entitled, "A STUDY ON LOKTA-VOLTERRA EQUATIONS AND ITS APPLICATION" submitted to the Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University), Pollachi in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. N. SUMITHARA (20-PM-32) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Dr. S. KALEESWARI, M.Sc., M.Phil., Ph.D.,

Assistant Professor,

Department of Mathematics,

N.G.M. College, Pollachi - 642 001.

Counter signed

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Gounder Mahalingam College, Pollachi.

This is to certify that the project entitled, "A STUDY ON THE FUNDAMENTALS OF SOFT SET THEORY" submitted to the Nallamuthu Gounder Mahalingam College(Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of science in Mathematics is a record of original research work done by Ms. T. UMAMAHESHWARI (20-PM-33) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

> M. Maller Signature of the Guide

Countersigned

Head of the Department

Dr. V. Inthumathi, Ph.D.,

Associate Professor & Head

N.G.M College, Pollachi - 642 001.

13-6-22 Submitted for the Viva -voce examination held on ...... Department of Mathematics Gounder Mahalingam College, Pollachi.

Examiners:

1. M. Mallli (INTERNAL) 2. None (Enternal)

This is to certify that the project entitled, "A STUDY ON W-CLOSED SETS IN SOFT TOPOLOGICAL SPACES" submitted to the Department of Mathematics, Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University), Pollachi in partial fulfillment of the requirements for the award of the degree of Master of Science in Mathematics is a record of original research work done by Ms. Y. KANCHIYARASI (20-PM-34) during the period (2021 - 2022) of her study in the Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi under my supervision and the project work has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

Head of the Department

13.6.2022 Dr. V. Inthumathi, Ph.D., Submitted for the Viva -Voce examination held on

Department of Mathematics N.G.M College, Pollachi - 642 001. Gounder Mahalingam College, Pollachi.

**Examiners:** 

1. Melwhi [Internal]
2. Nel (Enternal)

#### NUMBER OF STUDENTS UNDERTAKING PROJECTS (PG)

Name of the Department : Mathematics

Name of the Course and Course Code : 19PMS4P1 & Project

S. No	Roll No.	Name of the Student	Project Guide
1	19-PM-01	ARUN BOOPATHI S.M.	Dr.V.INTHUMATHI
2	19-PM-02	VIGNESHWARAN M.	Dr.J.JAYASUDHA
3	19-PM-03	AFRIEN BANU H.	Dr.V.CHITRA
4	19-PM-04	ANNALAKSHMI R.	Dr.S.SIVASANKAR
5	19-PM-05	AYSHABEGAM F.	Dr.S,KALEESWARI
6	19-PM-06	CHARUMATHI P.	Mrs.A.GNANASOUNDARI
7	19-PM-07	DHARANI K.	Dr.N.SELVANAYAKI
8	19-PM-08	GOKILA S.	Dr,M.MAHESWARI
9	19-PM-09	GOKULA PRIYA M.	Dr.V.INTHUMATHI
10	19-PM-10	GOWTHAMI M.	Dr.J.JAYASUDHA
11	19-PM-11	HARITHA H.	Dr.V.CHITRA
12	19-PM-12	HEMAMALINI S.	Dr.S.SIVASANKAR
13	19-PM-13	JAYARAGAVI N.	Dr.S,KALEESWARI
14	19-PM-14	JENITTARAJ N.	Dr.S.SIVASANKAR
15	19-PM-15	KEERTHANA D.	Dr.N.SELVANAYAKI
16	19-PM-17	KOWSALYAHARISHANTHI C.	Dr,M.MAHESWARI
17	19-PM-18	LAKSHMI S.	Dr.V.INTHUMATHI
18	19-PM-19	LAVANYA S.	Dr.J.JAYASUDHA
19	19-PM-20	LISHAMARY A.	Dr.V.CHITRA
20	19-PM-21	LOGAPRIYA A.	Dr.S.SIVASANKAR
21	19-PM-23	MALINI R.	Dr.S,KALEESWARI
22	19-PM-24	MOHANA GAYATHIRI G.	Mrs.A.GNANASOUNDARI
23	19-PM-25	MOHANA SUNDARI S.	Dr.N.SELVANAYAKI

S. No	Roll No.	Name of the Student	Project Guide
24	19-PM-26	PAVITHRA R.	Dr,M.MAHESWARI
25	19-PM-27	SAUMIYA V.	Dr.V.INTHUMATHI
26	19-PM-28	SAVITHA P.	Dr.J.JAYASUDHA
27	19-PM-29	SOWMIYA R.	Dr.V.CHITRA
28	19-PM-30	SUBEKSHA R.	Mrs.M.AMSAVENI

Valturation HEAD OF THE DEPARTMENT

Dr. V. Inthumathi, Ph.D., Associate Professor & Head Department of Mathematics N.G.M College, Pollachi - 642 001. **PRINCIPAL** 

PRINCIPAL

G. M. COLLEGE, POLLACRI

This is to certify that the Project, entitled "A STUDY ON NANO ALPHA OPEN SETS IN NANO TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research S.M.ARUN BOOPATHI (Reg. No. 19-PM-01) during the period 2019-2020 of his study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and the Project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

**Signature of the Guide** 

Countersigned

**Head of the Department** 

V- Inthunth

Submitted for the Viva-voce Examination held on \_\_\_\_\_ at Nallamuthu Gounder

Mahalingam College (Autonomous), Pollachi.

Examiners:

1.

This is to certify that the project, entitled "A STUDY ON α GENERALIZED PRE-CLOSED SETS IN TOPOLOGICAL SPACES AND SOFT **TOPOLOGICAL SPACES** " submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by VIGNESHWARAN.M (19-PM-02) during the period (2019 - 2021) of her study in the **MATHEMATICS NALLAMUTHU DEPARTMENT OF** at **GOUNDER** MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University. J Jul

Signature of the Guide

#### Countersigned

#### **Head of the Department**

V- Inthunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the dissertation, entitled "A STUDY ON SOFT ĝ\*-CLOSED SETS IN SOFT TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by H.AFRIEN BANU (19-PM-03) during the period 2019-2020 of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and the Project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

Head of the Department

V- Inthunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder

Mahalingam College (Autonomous), Pollachi.

**Examiners:** 

1.

This is to certify that the dissertation, entitled "A STUDY ON CORDIAL LABELLING" submitted PRIME to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by ANNALAKSHMI. R (19-PM-04) during the period (2019-2021) of her study DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree /Diploma /Associate ship /Fellowship or other similar title to any candidate of my University.

a-P

Signature of the Guide

#### Countersigned

V- Inthunth

#### Head of the Department

#### **Examiners:**

1.

This is to certify that the dissertation, entitled "A STUDY ON STOCHASTIC DIFFERENTIAL EQUATIONS" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by AYSHABEGAM. F (19-PM-05) during the period (2020-2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and the Project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

**Signature of the Guide** 

Countersigned

**Head of the Department** 

V- Inthunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder

Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the project, entitled "A STUDY ON REGULAR BETA I-CLOSED SETS IN IDEAL TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by CHARUMATHI. P (19-PM-06) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

#### Countersigned

**Head of the Department** 

V- Ithurth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the dissertation, entitled "A STUDY ON  $\alpha$ -GENERALISED CLOSED SETS IN MULTISET TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by GOKILA S. (19-PM-08) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship [Fellowship or other similar title to any candidate of any University.

M. Malleli

Signature of the Guide

Countersigned

Head of the Department

V- Inthunt

Examiners:

1.

This is to certify that the dissertation, entitled "A STUDY ON SOME WEAKER FORMS OF SOFT OPEN SETS IN SOFT TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by GOKULAPRIYA. M (19-PM-09) during the period 2019-2021 of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and the Project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

**Head of the Department** 

V Inthunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder

Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the project, entitled "A STUDY ON of g-CLOSED SETS IN TOPOLOGICAL SPACES SOFT TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by M. GOWTHAMI (19-PM-10) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

**Head of the Department** 

V- Ithurt

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder

Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the project, entitled "A STUDY ON ρ-I-CLOSED SETS IN IDEAL TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by HARITHA.H (19-PM-11) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

**Head of the Department** 

V. Inthunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the project, entitled "A STUDY ON GEODETIC NUMBERS OF GRAPHS AND DIGRAPHS" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by HEMAMALINI.S (19-PM-12) during the period (2019 - 2021)of her study the **DEPARTMENT OF** in MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

V\_Itturt: Countersigned

**Head of the Department** 

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

- 1.
- 2.

This is to certify that the dissertation, entitled "RUNGE – KUTTA METHOD FOR DELAY DIFFERENTIAL EQUATIONS" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by JAYARAGAVI. N (19-PM-13) during the period (2020-2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

V- Inthunth

Countersigned

#### **Head of the Department**

Submitted for the Viva-voce Examination held on...... at Nallamuthu Gounder Mahalingam College, Pollachi.

- 1.
- 2.

This is to certify that the dissertation, entitled "A STUDY ON HAMILTONIAN CIRCUITS IN A COMPLETE GRAPH" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by JENITTARAJ. N (19-PM-14) during the period (2019-2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma /Associateship / Fellowship or other similar title to any candidate of any University.

9-1

Signature of the Guide

Countersigned

**Head of the Department** 

V- Inthunth

Submitted for the Viva-Voce examination held on.....at
Nallamuthu Gounder Mahalingam College, Pollachi.

- 1.
- 2.

This is to certify that the project, entitled "A STUDY ON GENERALIZED\*--CLOSED SETS IN MULTISET TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by KEERTHANA. D (19-PM-15) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

**Head of the Department** 

V- Ithurth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the dissertation, entitled "A STUDY ON GENERALIZED SEMI CLOSED AND OPEN SETS IN MULTISET TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by KOWSALYAHARISHANTHI C. (19-PM-17) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship [Fellowship or other similar title to any candidate of any University.

M. Malleli

Signature of the Guide

Countersigned

Head of the Department

V Inthunth

Submitted for the Viva —Voce examination held on...... at NallamuthuGounder

Mahalingam College, Pollachi.

Examiners:

1.

This is to certify that the project, entitled "ON NANO SEMI α-I OPEN SETS" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by LAKSHMI. S (19-PM-18) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

**Head of the Department** 

V- Inthunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder

Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the dissertation, entitled "A STUDY ON GCT-CLOSED SETS IN TOPOLOGICAL SPACES AND SOFT TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by S.LAVANYA (19-PM-19) during the period 2019-2020 of her study in the DEPARTMENT OF MATHEMATICS AT NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and the Project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

J Jul

#### Countersigned

**Head of the Department** 

V- Ithunt

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

- 1.
- 2.

This is to certify that the project, entitled "A STUDY ON SOFT b\*-CLOSED SETS IN SOFT TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by LISHAMARY. A (19-PM-20) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

**Head of the Department** 

V. Ithunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the dissertation, entitled "A STUDY ON GEODETIC NUMBER AND CHROMATIC NUMBER OF A GRAPH" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by LOGAPRIYA (19-PM-21) during the period 2019-2020 of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and the Project work has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

Countersigned

**Head of the Department** 

V- Inthunth

Submitted for the Viva-voce Examination held on \_\_\_\_\_ at Nallamuthu Gounder

Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the project, entitled "A STUDY ON FUZZY DIFFERENTIAL EQUATIONS" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by R.MALINI (19-PM-23) during the period (2020-2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

V- Ithurth

Countersigned

Head of the Department

Submitted for the Viva-Voce examination held on.....at Nallamuthu Gounder Mahalingam College, Pollachi.

- 1.
- 2.

This is to certify that the project, entitled "A STUDY ON b\* I-CLOSED SETS IN IDEAL TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by MOHANAGAYATHRI. G (19-PM-24) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

**Signature of the Guide** 

Countersigned

**Head of the Department** 

V- Ithurth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the dissertation, entitled "A STUDY ON GENERALIZED SEMIPRE CLOSED SETS IN MULTISET TOPOLOGICAL SPACES" submitted to the
Bharathiar University, in partial fulfillment of the requirements for the award of the Degree
of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done
by MOHANASUNDARI S. (19-PM-25) during the period 2019-2021 of her study in the
DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM
COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and the Project work has
not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or
other similar title to any candidate of any University.

Signature of the Guide

Countersigned

**Head of the Department** 

V- Inthunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder

Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

This is to certify that the project, entitled "A STUDY ON ii-OPEN SETS IN NANO TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by PAVITHRA R. (19-PM-26) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

M. Mallel: Signature of the Guide

Countersigned

**Head of the Department** 

V- Inthunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

1.

2.

This is to certify that the dissertation, entitled "A STUDY ON DECOMPOSITION OF SOFT OPEN SETS IN SOFT TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by SAUMIYA.V (19-PM-27) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship /Fellowship or other similar title to any candidate of any University.

V- Inthunth

Signature of the Guide

#### Countersigned

V. Inthunth

#### **Head of the Department**

Submitted for the Viva –Voce examination held on.....at Nallamuthu Gounder Mahalingam College, Pollachi.

#### **Examiners:**

1.

2.

project, entitled "A STUDY ON This to certify that the is GENERALIZED-CLOSED SETS IN TOPOLOGICAL SPACES AND SOFT TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by SAVITHA.P (19-PM-28) during the period (2019 - 2021) of her study in the **MATHEMATICS DEPARTMENT OF** at **NALLAMUTHU GOUNDER** MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

J Jul

Countersigned

#### **Head of the Department**

V- Inthunth

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

#### **Examiners:**

- 1.
- 2.

This is to certify that the project, entitled "A STUDY ON πg\*β-I-CLOSED SETS IN IDEAL TOPOLOGICAL SPACES" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by SOWMIYA. R (19-PM-29) during the period (2019 - 2021) of her study in the DEPARTMENT OF MATHEMATICS at NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Signature of the Guide

#### Countersigned

#### **Head of the Department**

Submitted for the Viva-voce Examination held on\_\_\_\_\_ at Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi.

**Examiners:** 

1.

2.

This is to certify that the project entitled "EXTENSION OF SOFT MATRICES TO HYPERSOFT MATRICES" submitted to the Nallamuthu Gounder Mahalingam College (Autonomous, Affiliated to the Bharathiar University) in partial fulfillment of the requirements for the award of the degree of Master of science in Mathematics during the period 2019 - 2021 of her study in the **Department of Mathematics** at **Nallamuthu** Gounder Mahalingam College (Autonomous), Pollachi, under my supervision and the projectwork has not formed the basis for the award of any Degree / Diploma / /Assosiateship / Fellowship or other similar title to any candidate University.

Signature of the Guide

Countersigned

**Head of the Department** 

V- Inthunth

Submitted for the Viva-Voce examination held on ...... at Nallamuthu Gounder

Mahalingam College, Pollachi.

Examiners:

1.

2.

### NUMBER OF STUDENTS UNDERTAKING PROJECTS (PG)

Name of the Department : Mathematics

Name of the Course and Course Code : 18PMS4P1 & Project

S. No	Roll No.	Name of the Student	Project Guide
1	18-PM-01	MAHALINGAM S.	Dr. S. SIVASANKAR
2	18-PM-02	SELVAKARTHIKAYEN P.	Dr. V. INTHUMATHI
3	18-PM-03	ABINAYA L.	Dr. J. JAYASUDHA
4	18-PM-04	AKSHAYA K.	Dr. R. SANTHI
5	18-PM-05	ANGUPARAMESWARI G.	Dr. V. CHITRA
6	18-PM-06	DIVYA P.	Dr. S. SIVASANKAR
7	18-PM-07	GAYATHRI P.	Dr. S. KALEESWARI
8	18-PM-08	GOKILA N.	Ms. M. AMSAVENI
9	18-PM-09	GOWRIKAMATCHI D.	Ms. A. GNANASOUNDARI
10	18-PM-10	GOWSALYA V.	Dr. V. CHITRA
11	18-PM-11	HEMALATHA P.	Dr. J. JAYASUDHA
12	18-PM-12	HEMAMBIGAI S.	Dr. V. INTHUMATHI
13	18-PM-13	JAYASUDHA S.	Dr. J. JAYASUDHA
14	18-PM-14	JEEVAROHINI N.	Dr. S. KALEESWARI
15	18-PM-15	KALAIMATHI T.	Dr. V. CHITRA
16	18-PM-16	KARTHIYA M.V.	Dr. S. SIVASANKAR
17	18-PM-17	KARUNYA S.	Dr. S. KALEESWARI
18	18-PM-18	KAVIMATHI R.	Dr. V. CHITRA
19	18-PM-19	KAVYA A.	Dr. V. INTHUMATHI
20	18-PM-20	MAHALAKSHMI P.	Dr. J. JAYASUDHA
21	18-PM-21	MAHALAKSHMI S.	Dr. V. INTHUMATHI
22	18-PM-22	MALINIPRIYA S.	Dr. V. CHITRA
23	18-PM-23	MENAGAPRIYA T.	Dr. S. SIVASANKAR

S. No	Roll No.	Name of the Student	Project Guide
24	18-PM-24	NITHYA K.	Dr. S.KALEESWARI
25	18-PM-25	PRIYA A.	Dr. S.KALEESWARI
26	18-PM-26	PRIYADHARSHINI D.	Dr. V. INTHUMATHI
27	18-PM-27	RAGAVI S.	Dr. J. JAYASUDHA
28	18-PM-28	RAMYA E.	Dr. V. INTHUMATHI
29	18-PM-29	SANGAVI E.M.	Dr. V. CHITRA
30	18-PM-30	SELVA RANI S.	Dr. S. SIVASANKAR
31	18-PM-31	SHOBIKA K.	Dr. S. KALEESWARI
32	18-PM-32	SINDHIYA M.	Ms. A.GNANASOUNDARI
33	18-PM-33	SIVASANKARI R.	Dr. V. INTHUMATHI
34	18-PM-34	SOWNDHARYA J.	Dr. J. JAYASUDHA
35	18-PM-35	SRINITHI S.	Dr. J. JAYASUDHA
36	18-PM-36	SUBALAKSHMI G.	Dr. V. CHITRA

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Head, Department of Mathematics NGM College (Autonomous) (Affiliated to Bharathiar University) Pollacki - 642 001 **PRINCIPAL** 

PRINCIPAL

G. M. COLLEGE, POLLACRI

# A STUDY ON THEORETIC ALGORITHMS IN GRAPH THEORY

Project work submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the award of the Degree of

#### MASTER OF SCIENCE IN MATHEMATICS

Submitted By

S. MAHALINGAM (Reg. No. 18-PM-01)

Under the guidance of

Dr. S. SIVASANKAR



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

( Autonomous, Affiliated to Bharathiar University)

Reaccredited by NAAC

An ISO 9001:2008 Certified Institution POLLACHI-642 001

## A STUDY ON GRAPH LABELLINGS

Project work submitted to
Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the award of the Degree of

### MASTER OF SCIENCE IN MATHEMATICS

Submitted By

P.SELVAKARTHIKEYAN (Reg. No. 18-PM-02)

Under the guidance of

Dr. V. INTHUMATHI



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

( Autonomous, Affiliated to Bharathiar University)

Reaccredited by NAAC

An ISO 9001:2008 Certified Institution POLLACHI-642 001

#### NUMERICAL MODELLING WITH C++ PROJECT REPORT

Submitted by

ABINAYA. L

REG. NO: 18-PM-03

Under the guidance of

#### Dr. J. JAYASUDHA, M.Sc., M.Phil., Ph.D., Assistant Professor, Department of Mathematics

A project report submitted to

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi,

Affiliated to Bharathiar University, Coimbatore

In partial fulfillment of the requirement for the award of the Degree of

#### POST GRADUATE DEGREE IN MATHEMATICS



#### DEPARTMENT OF MATHEMATICS

#### NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

(Affiliated to Bharathiar University, Coimbatore)

(An, ISO 9001:2000 Certified Institution)

Accredited by NACC

Pollachi - 642001

# A STUDY ON HAMILTONICITY OF CAYLEY GRAPHS AND ITS PRODUCTS

Project work submitted to

Nallamuthu Gounder Mahalingam College, Pollachi,

In partial fulfillment of the requirement for the award of the Degree of

## MASTER OF SCIENCE IN MATHEMATICS

Submitted by

**DIVYA.P** 

**REG.NO: 18-PM-06** 

Under the guidance of

Dr. S. SIVASANKAR



## **DEPARTMENT OF MATHEMATICS**

## NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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(An ISO 9001:2000 Certified Institution)

Accredited by NACC

**POLLACHI - 642001** 

**AUGUST-2020** 

#### BASIC CONNECTIVITIES IN FUZZY LOGIC

Submitted by

GAYATHRI. D

**REG. NO: 18-PM-07** 

Under the guidance of

### Dr. S. KALEESWARI, M.Sc., M.Phil., Ph.D., SET., Assistant Professor, Department of Mathematics

A project report submitted to

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi,

Affiliated to Bharathiar University, Coimbatore

In partial fulfillment of the requirement for the award of the Degree of

## POST GRADUATE DEGREE IN MATHEMATICS



#### DEPARTMENT OF MATHEMATICS

## NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

(Affiliated to Bharathiar University, Coimbatore)

(An, ISO 9001:2000 Certified Institution)

Accredited by NACC

Pollachi - 642001

#### A STUDY ON FUZZY HYPERGRAPHS

Project work submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the award of the Degree of

# MASTER OF SCIENCE IN MATHEMATICS

Submitted By

V. GOWSALYA (Reg. No. 18-PM-10)

Under the guidance of

Dr. V. CHITRA



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous, Reaccredited by NAAC)
POLLACHI - 642 001, TAMILNADU, INDIA.

**JULY 2020** 

# A STUDY ON SEPARATION AXIOMS IN BITOPOLOGICAL SPACES

Project work submitted to Nallamuthu Gounder Mahalingam College , Pollachi in partial fulfillment of the requirements for the award of the Degree of

## MASTER OF SCIENCE IN MATHEMATICS

Submitted by

P. HEMALATHA (Reg.no:18-PM-11)

Under the guidance of

Dr. J. JAYASUDHA



## DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous , Affiliated to Bharathiar University)
Accredited by NAAC

An ISO 9001:2008 Certified Institution

**POLLACHI-642 001** 

### A STUDY ON FREDHOLM OPERATORS

Project work submitted to

Nallamuthu Gounder Mahalingam College, Pollachi, in partial fulfillment of the requirement for the award of the degree of

## MASTER OF SCIENCE IN MATHEMATICS

Submitted by

Ms. S. HEMAMBIGAI

(Reg. NO: 18-PM-12)

Under the guidance of

Dr. V. INTHUMATHI



### DEPARTMENT OF MATHEMATICS

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous, Affiliated to Bharathiar University)

Re-Accredited by NAAC,

An ISO 9001:2000 Certified Institution

POLLACHI - 642 001

# A STUDY ON IRRATIONAL NUMBERS AND FAREY SERIES

Project work submitted to Nallamuthu Gounder Mahalingam College , Pollachi in partial fulfillment of the requirements for the award of the Degree of

## MASTER OF SCIENCE IN MATHEMATICS

Submitted by

S. JAYASUDHA (Reg.no:18-PM-13)

Under the guidance of

Dr. J. JAYASUDHA



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous , Affiliated to Bharathiar University)
Accredited by NAAC

An ISO 9001:2008 Certified Institution

POLLACHI-642 001

# A STUDY ON EGYPTIAN FRACTION PROJECT REPORT

Submitted by

JEEVAROHINI. N

REG.NO: 18-PM-14

Under the guidance of

Dr.S. KALEESWARI, M.Sc., M.Phil., Ph.D., SET., Assistant Professor, Department of Mathematics.

A project report submitted to

NallamuthuGounderMahalingam College (Autonomous), Pollachi,

Affiliated to BharathiarUniversity,Coimbatore

In partial fulfillment of the requirement for the award of the Degree of

### POST GRADUATE DEGREE IN MATHEMATICS



### DEPARTMENT OF MATHEMATICS

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(Affiliated to BharathiarUniversity,Coimbatore)

(An, ISO 9001:2000 Certified Institution)

Accredited by NACC

Pollachi - 642001

### A STUDY ON MARKOV ANALYSIS

Project work submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the award of the Degree of

# MASTER OF SCIENCE IN MATHEMATICS

Submitted By

T.KALAIMATHI (Reg. No. 18-PM-15)

Under the guidance of

Dr. V. CHITRA



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous, Re-Accredited by NAAC)
POLLACHI-642 001, TAMILNADU, INDIA.

#### A STUDY ON FUZZY GRAPHS

Project work submitted to

Nallamuthu Gounder Mahalingam College, Pollachi,

In partial fulfillment of the requirement for the award of the Degree of

### MASTER OF SCIENCE IN MATHEMATICS

Submitted by

KARTHIYA M V

REG. NO: 18-PM-16

Under the guidance of

Dr. S. SIVASANKAR



## DEPARTMENT OF MATHEMATICS

# NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous, Affiliated to Bharathiar University, Coimbatore)

(An ISO 9001:2000 Certified Institution)

Accredited by NACC

POLLACHI - 642001

AUGUST-2020

### A STUDY ON RIEMANN SURFACES

Project work submitted to
Nallamuthu Gounder Mahalingam College,Pollachi
in partial fulfillment of the requirements for the award of the Degree
of

### MASTER OF SCIENCE IN MATHEMATICS

Submitted by

Ms. R. KAVIMATHI (Reg.no:18-PM-18)

Under the guidance of

Dr. V.CHITRA



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous , Affiliated to Bharathiar University)
Accredited by NAAC

An ISO 9001:2008 Certified Institution

POLLACHI-642 001

# A STUDY ON SUM CORDIAL LABELING OF GRAPHS

Project work submitted to
Nallamuthu Gounder Mahalingam College, Pollachi
in partial fulfillment of the requirements for the award of the Degree of

### MASTER OF SCIENCE IN MATHEMATICS

Submitted by

Ms. P.MAHALAKSHMI (Reg.no:18-PM-20)

Under the guidance of

Dr. J.JAYASUDHA



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous , Affiliated to Bharathiar University)
Accredited by NAAC

An ISO 9001:2008 Certified Institution

**POLLACHI-642 001** 

**July 2020** 

# A STUDY ON DETERMINANT AND ADJOINT OF FUZZY SQUARE MATRIX

Project work submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the award of the Degree of

## MASTER OF SCIENCE IN MATHEMATICS

Submitted By

S.MALINIPRIYA

(Reg. No. 18-PM-22)

Under the guidance of

Dr. V. CHITRA



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous, Accredited by NAAC)
POLLACHI-642 001, TAMILNADU, INDIA.

JUNE - 2020

#### A STUDY ON HYPERGRAPH

Project work submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the award of the Degree of

# MASTER OF SCIENCE IN MATHEMATICS

Submitted By
T.MENAGAPRIYA
(Reg. No. 18-PM-23)

Under the guidance of





# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous, Reaccredited by NAAC)
POLLACHI - 642 001, TAMILNADU, INDIA.

**JULY 2020** 

# BEHAVIOUR OF MATRICES UNDER PERTURBATION THEORY

Submitted by

#### PRIYA.A

REG. NO: 18-PM-25

Under the guidance of

#### Dr. S. KALEESWARI, M.Sc., M.Phil., Ph.D., SET., Assistant Professor, Department of Mathematics

A project report submitted to

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi,

Affiliated to Bharathiar University, Coimbatore

In partial fulfillment of the requirement for the award of the Degree of

### POST GRADUATE DEGREE IN MATHEMATICS



#### DEPARTMENT OF MATHEMATICS

## NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

(Affiliated to Bharathiar University, Coimbatore)

(An, ISO 9001:2000 Certified Institution)

Accredited by NACC

Pollachi - 642001

# A STUDY ON FUZZY SQUARE MATRIX AND ITS APPLICATION

Project work submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the award of the Degree of

# MASTER OF SCIENCE IN MATHEMATICS

Submitted By

D.PRIYADHARSHINI (Reg. No. 18-PM-26)

Under the guidance of

Dr. V. INTHUMATHI



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous, Accredited by NAAC)
POLLACHI-642 001, TAMILNADU, INDIA.

**JUNE - 2020** 

# A STUDY ON TURTLE GEOMETRY PROJECT REPORT

Submitted by

RAGHAVI. S

REG. NO: 18-PM-27

Under the guidance of

### Dr. J. JAYASUDHA, M.Sc., M.Phil., Ph.D., Assistant Professor, Department of Mathematics

A project report submitted to

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi,

Affiliated to Bharathiar University, Coimbatore

In partial fulfillment of the requirement for the award of the Degree of

# POST GRADUATE DEGREE IN MATHEMATICS



## DEPARTMENT OF MATHEMATICS

# NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

(Affiliated to Bharathiar University, Coimbatore)

(An, ISO 9001:2000 Certified Institution)

Accredited by NACC

Pollachi - 642001

### A STUDY ON CRYPTOLOGY

#### PROJECT REPORT

Submitted by

SHOBIKA. K

REG. NO: 18-PM-31

Under the guidance of

Dr. S. KALEESWARI, M.Sc., M.Phil., Ph.D., SET., Assistant Professor, Department of Mathematics.

A project report submitted to

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi,

Affiliated to Bharathiar University, Coimbatore

In partial fulfillment of the requirement for the award of the Degree of

# POST GRADUATE DEGREE IN MATHEMATICS



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(An, ISO 9001:2000 Certified Institution)

Accredited by NACC

Pollachi - 642001

лицу-2020

### A STUDY ON UNIFORM SPACES PROJECT REPORT

Submitted by

SINDHIYA. M

REG. NO: 18-PM-32

Under the guidance of

### Mrs. A. GNANASOUNDARI, M.Sc., M.Phil., Assistant Professor, Department of Mathematics

A project report submitted to

Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi,

Affiliated to Bharathiar University, Coimbatore

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# POST GRADUATE DEGREE IN MATHEMATICS



### DEPARTMENT OF MATHEMATICS

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

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Accredited by NACC

Pollachi - 642001

# A STUDY ON DIFFERENT TYPES OF INTERPOLATION

Project work submitted to
Nallamuthu Gounder Mahalingam College , Pollachi
in partial fulfillment of the requirements for the award of the Degree of

## MASTER OF SCIENCE IN MATHEMATICS

Submitted by

R . SIVASANKARI (Reg.No:18-PM-33)

Under the guidance of

Dr. V. INTHUMATHI



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(Autonomous , Affiliated to Bharathiar University)
Accredited by NAAC

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POLLACHI-642 001

### A STUDY ON DIOPHANTINE EQUATIONS

Project work submitted to Nallamuthu Gounder Mahalingam College , Pollachi in partial fulfillment of the requirements for the award of the Degree of

## MASTER OF SCIENCE IN MATHEMATICS

Submitted by

J. SOWNDHARYA (Reg.no:18-PM-34)

Under the guidance of

Dr. J. JAYASUDHA



# DEPARTMENT OF MATHEMATICS NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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