

Dr.R.MURUGANANDAM,M.Sc.,M.Phil.,Ph.D.,
Associate Professor
PG and Research Department of Mathematics
Thanthai Periyar Government Arts and Science College (A)
Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "THE DOMINATOR VERTEX AND EDGE COLORING OF SOME GRAPHS" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

AJITH KUMAR. A (Reg.No:20PMA01)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-2022.


Signature of the

Head of the department

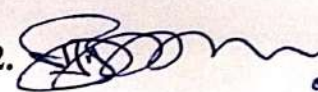
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide

ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

EXAMINERS:

1. 
02/06/22

2. 
02/06/22

Dr. P. THIRUNAVUKARASU, M.Sc., M. Phil., Ph.D., PGDCA., B.Ed.,
Assistant Professor,
PG & Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (A),
Tiruchirappalli - 620 023.

CERTIFICATE

This is to certify that the Project work entitled "INTRODUCTION TO Z TRANSFORM AND ITS PROPERTIES" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE(A), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY, TRICHY**, in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **DHINESHKUMAR S (Register No. : 20PMA03)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli – 23, during the period 2020-2022.

28/05/22
SIGNATURE OF THE HOD

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023

P. Thirunavukarasu
28/05/22
SIGNATURE OF THE GUIDE

Dr. P. THIRUNAVUKARASU,
M.Sc., M.Phil., Ph.D., B.Ed., PGDCA.,
Assistant Professor
PG & Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023, Tamilnadu, India

EXAMINERS

1. *[Signature]*
02/06/22

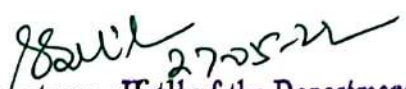
2.

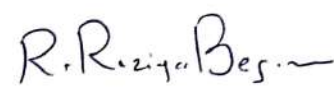
P. Thirunavukarasu
27/5/22
Dr. P. THIRUNAVUKARASU,
M.Sc., M.Phil., Ph.D., B.Ed., PGDCA.,
Assistant Professor
PG & Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023, Tamilnadu, India

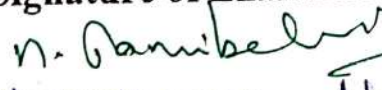
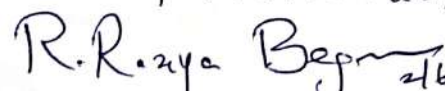
Dr.(Mrs.) R.RAZIYA BEGAM, M.Sc.,M.Phil, B.Ed,M.CA. Ph.D.,
Associate Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (Autonomous),
Tiruchirappalli- 620 023

CERTIFICATE

This is to certify that the Project work entitled " A STUDY ON INDEPENDENT SETS AND CLIQUES " done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY , TRICHY** In partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **S.JUSTIN BOSCO (Register No. : 20PMA04)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.


Signature of Head of the Department
PG & Research Department of Mathematics
Head of the department
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of Guide
ASSOCIATE PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

Signature of Examiner
(1)  2/6/22
(DR.M.TAMILSELVI, Head & Associate Professor
of Mathematics, SRC, Trichy)
(2)  2/6/22


Dr. (Mrs.) K. PONNAMMAL, M.Sc., M. Phil., M.CA., Ph.D.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (Autonomous),
Tiruchirappalli- 620 023.


CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON MINIMAL SURFACE" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS)**, affiliated to the **BHARATHIDASAN UNIVERSITY** in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by



C.KABISH KUIMARAN (Register No: 20PMA05)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli - 23 during the period 2020-2022.


30/5/22
ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.


30/5/22
Signature of the Guide
ASSISTANT PROFESSOR
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TIRUCHIRAPPALLI - 620 023.
Signature of the Examiners:


30/5/22
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

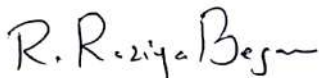
1. 
2/6/22
2. 
2/6/22

Dr.(Mrs.) R.RAZIYA BEGAM, M.Sc., M. Phil, B.Ed, M.CA. Ph.D.,
Associate Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (Autonomous),
Tiruchirappalli- 620 023.


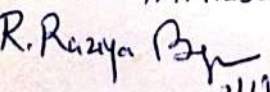
CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON EULER TOURS AND HAMILTON CYCLES " done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by P.KALAIVANAN (Register No. : 20PMA06) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.


Signature of the
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide
ASSOCIATE PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

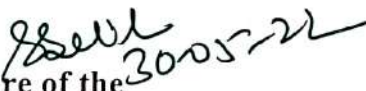
Examiners

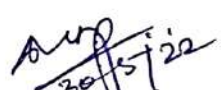
1.  2/6/22
DR. M. TAMILSELVI, H.O.D & Associate
Professor, SRC, Trichy
2.  4/6/22

Dr.K.RADHA, M.Sc.,M.Phil.,B.Ed.,SLET.,Ph.D.,
Assosicate Professor
PG and Research Department of Mathematics
Thanthai Periyar Government Arts and Science College (A)
Tiruchirappalli-620 023


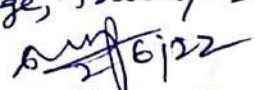
CERTIFICATE

This is to certify that the project work entitled "GALOIS THEORY AND SOME APPLICATIONS" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by A.KISHORE KUMAR (Reg.No:20PMA07) in the PG and Research Department of Mathematics, THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.


Signature of the
Head of the Department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide
Dr. K. RADHA, M.Sc.,M.Phil.,B.Ed.,SLET.,Ph.D.,
Associate Professor of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023.

Signature of the Examiners

- 
1. Dr. M. TAMIL SELVI
Associate Prof. of Maths
Seethalakshmi Ramaswamy
College, Trichy-2
- 
2. Dr. K. RADHA
Dr. K. RADHA, M.Sc.,M.Phil.,B.Ed.,SLET.,Ph.D.,
Associate Professor of Mathematics
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Tiruchirappalli-620 023.



Dr.R.MURUGANANDAM,M.Sc.,M.Phil.,Ph.D.,
Associate Professor
PG and Research Department of Mathematics
Thanthai Periyar Government Arts and Science College (A)
Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON DOMINATING COLORING NUMBER OF SOME GRAPHS" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

MANI. M (Reg.No:20PMA08)


in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-2022.


Signature of the

Head of the department

Head of the Department

PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide

ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

EXAMINERS:

1.



02/06/22

2.



02/06/22

Dr. P. BHARATHI, M.Sc., M.Phil., Ph.D.,
Assistant Professor
PG and Research Department of Mathematics
Thanthai Periyar Govt. Arts and Science College (Autonomous)
Tiruchirappalli-620 023

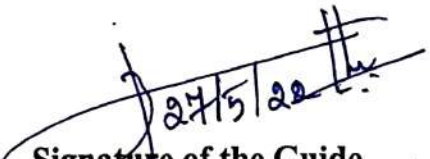
CERTIFICATE

This is to certify that the project work entitled "A STUDY ON QUEUEING MODEL" done under my guidance submitted to the Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

MANIKANDAN. M (Reg. No: 20PMA09)

in the PG and Research Department of Mathematics, Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.


Signature of the
Head of the department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide
Dr. P. BHARATHI, M.Sc., M.Phil., Ph.D.,
Assistant Professor
PG & Research Department of Mathematics
Thanthai Periyar Government
Arts and Science College (Autonomous)
Tiruchirappalli-620 023.

EXAMINERS:

1. 
2. 

Dr. P. BHARATHI, M.Sc., M.Phil., Ph.D.,
Assistant Professor
PG & Research Department of Mathematics
Thanthai Periyar Government
Arts and Science College (Autonomous)
Tiruchirappalli-620 023.

Dr. M.MARAGATHAM M.Sc., M.Phil., Ph.D.

Assosicate Professor

PG and Research Department of Mathematics

Thanthai Periyar Government Arts and Science College (A)

Tiruchirappalli-620 023.

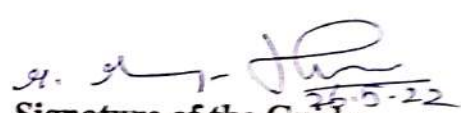
CERTIFICATE

This is to certify that the project work entitled "A STUDY ON PERFECT GRAPH AND CHORDAL GRAPHS" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (A), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **MARIYAPPAN K (Reg.No:20PMA10)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science(A), Tiruchirappalli- 23 during the period 2020-2022.


Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide


Dr. M. MARAGATHAM,
M.Sc., M.Phil., Ph.D.
Associate Professor
PG and Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
TIRUCHIRAPPALLI-620 023.

EXAMINERS

1.

 2/6/22

2.

 2.6.22

1. Dr. P-SHANMUGANANTHAM
ASSO. PROF of MATHS
National college
Trichy.

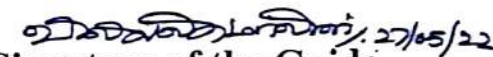
Dr. W. LILLY MERLINE, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts and Science College (Autonomous),
Tiruchirappalli – 23.

CERTIFICATE

This is to certify that the project work entitled “**APPLICATION OF FUZZY MATRIX IN REAL LIFE PROBLEMS**” done under my guidance and submitted to the **Thanthai Periyar Government Arts And Science College (Autonomous), Trichy-23** affiliated to the **BHARATHIDASAN UNIVERSITY** in partial fulfilment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **MARTIN ROSARIO. J (Reg. No. 20PMA11)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli-23 during the period 2020-2022.



Signature of the

Head of the Department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide

Dr. W. LILLY MERLINE
ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

Signature of the Examiners

1. 
02/06/22

2. 
02/06/22

Dr. (Mrs.) K. KASTURRI, M.Sc., M. Phil., SLST., Ph.D.,

Assistant Professor,

PG and Research Department of Mathematics,

Thanthai Periyar Government Arts & Science College (Autonomous),

Tiruchirappalli- 620 023.

CERTIFICATE

This is to certify that the Project work entitled " A STUDY ON INTEGRAL TRANSFORM METHODS " done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by M.MOHANRAJ (Register No : 20PMA12) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.


Signature of the

Head of the department

Head of the Department

PG & Research Department of Mathematics

Thanthai Periyar Government Arts & Science College (Autonomous)

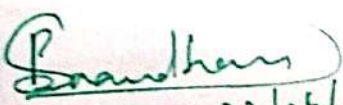
Tiruchirappalli - 620 023

Signature of the

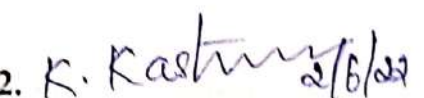
External Examiners


Signature of the Guide

Dr.K.KASTURRI, M.Sc., M.Phil., Ph.D.,
Assistant Professor
PG and Research Department of Mathematics
Thanthai Periyar Government
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TIRUCHIRAPPALLI-620 023.

1. 
02/06/22

Dr. P. Shanmuganathan
Asso. Prof. of Maths
NC7.

2. 
2/6/22

Dr.K.KASTURRI, M.Sc., M.Phil., Ph.D.,
Assistant Professor
PG and Research Department of Mathematics
Thanthai Periyar Government
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Dr. A. THANITHAMIL, M.Sc., M. Phil., Ph.D., B.Ed., PGDCA.,

Assistant Professor,

PG and Research Department of Mathematics,

Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli - 620 023.


CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON LINEAR ALGEBRA WITH APPLICATION" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by G. MUNISHWARAN (Register No. : 20PMA13) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.




Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide

Examiners

1. 
2/6/22
2. 
02/6/22


Dr. (Mrs.) K. KASTURRI, M.Sc., M. Phil., SLST., Ph.D.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (Autonomous),
Tiruchirappalli- 620 023.

CERTIFICATE

This is to certify that the Project work entitled "**A STUDY ON ITERATIVE METHODS FOR FIXED POINTS**" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY, TRICHY**, in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **R. PRASANTH (Register No: 20PMA14)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.


Signature of the

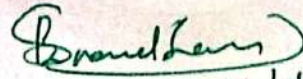
Head of the department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide

Dr.K.KASTURRI, M.Sc., M.Phil., Ph.D.,
Assistant Professor
P.G. and Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
TIRUCHIRAPPALLI-620 023.

Signature of the

External Examiners

1. 
02/06/22
Dr. P. Shanmugam
Asst. Prof. of Maths
H.T.

2. 
Dr.K.KASTURRI, M.Sc., M.Phil., Ph.D.,
Assistant Professor
P.G. and Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
TIRUCHIRAPPALLI-620 023.



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

Associate Professor & Head,

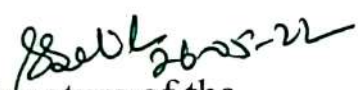
PG and Research Department of Mathematics,

Thanthai Periyar Government Arts & Science College (Autonomous),

Tiruchirappalli- 620 023.

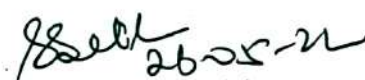
CERTIFICATE

This is to certify that the Project work entitled "**A STUDY ON LEGENDRE POLYNOMIAL**" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY - TRICHY** In partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **S.SELVARAJ** (Register No. : 20PMA15) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli - 23 during the period 2020-2022.


Signature of the

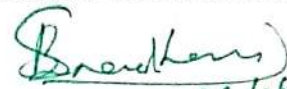
Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of Guide

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

Signature of Examiner

1. 
02/06/22

2. 
02/06/22

Dr.B.GAYATHRI,M.Sc., UGC-NET, M.Phil.,Ph.D.,P.G.D.C.A.,M.C.A.,
Associate Professor

PG and Research Department of Mathematics

Thanthai Periyar Government Arts and Science College (A)


Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON POWER
3 MEAN GRAPHS" done under my guidance submitted to the THANTHAI
PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous
and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY
in partial fulfilment of the requirements for the award of the Degree of MASTER
OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

SRIDHAR.A (Reg.No:20PMA16)

in the PG and Research Department of Mathematics, Thanthai Periyar
Government Arts and Science College (Autonomous and Accredited).
Tiruchirappalli -23 during the period 2020-2022.


Signature of the

Head of the department

Head of the Department

PG & Research Department of Mathematics

Thanthai Periyar Government Arts & Science College(Autonomous)

Tiruchirappalli - 620 023


Signature of the Guide

ASSOCIATE PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

EXAMINERS:

1. 
2/6/22

2. 
2/6/22

Dr. K. RADHA, M.Sc., M.Phil., B.Ed., SLET., Ph.D.,

Associate Professor,

PG and Research Department of Mathematics,

Thanthai Periyar Government Arts and Science College (Autonomous),

Tiruchirappalli- 620 023.

CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON FUZZY SETS AND THEIR APPLICATIONS" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY - TRICHY** In partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **SURESH.S (REGISTER NO : 20PMA17)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli - 23 during the period 2020-2022.

Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

2. **N. Ganibala** 2/6/22

Dr. M. TAMIL SELVI
Associate Professor of Maths & Head,
Seethalakshmi Ramaswamy
College, Trichy-2

Signature of the Guide
Dr. K. RADHA, M.Sc., M.Phil., B.Ed., SLET., Ph.D.,
Associate Professor of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023.

Signature of the Examiner

1. **Dr. K. RADHA**

Dr. K. RADHA, M.Sc., M.Phil., B.Ed., SLET., Ph.D.,
Associate Professor of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023.

Dr. P. MARAGATHA MEENAKSHI, M.Sc., M.Phil., PBDCSA., NET., Ph.D.,

Associate Professor

PG and Research Department of Mathematics

Thanthai Periyar Government Arts and Science College (Autonomous)

Tiruchirappalli 620-023


CERTIFICATE

This is to certify the project work entitled "**A Study on Singularly Perturbed Linear System of First Order Ordinary Differential Equations**" done under my guidance and submitted to the Thanthai Periyar Government Arts and Science College (Autonomous), affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **SURYA. D (Reg. No. 20PMA18)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli- 620 023 during the period 2020- 2022.


Signature of Head of the Department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

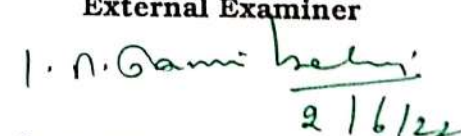
Internal Examiner

Dr. P. MARAGATHA MEENAKSHI,
M.Sc., M.Phil., PBDCSA., CSIR-UGC NET., Ph.D.,
Associate Professor & Research Supervisor
PG & Research Department of Mathematics
Thanthai Periyar Govt. Arts & Science College (A)
Tiruchirappalli - 620 023, TAMIL NADU INDIA


Signature of the Guide

Dr. P. MARAGATHA MEENAKSHI,
M.Sc., M.Phil., PBDCSA., NET., Ph.D.,
Associate Professor & Research Supervisor
PG and Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
TIRUCHIRAPPALLI-620 023.

External Examiner


Dr. M. Tamil Selvi,
Associate Professor & Head,
SRC college, Trichy-2.



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

Head & Associate Professor,

PG and Research Department of Mathematics,

Thanthai Periyar Government Arts & Science College (Autonomous),
Tiruchirappalli- 620 023.

CERTIFICATE

This is to certify that the Project work entitled "**A STUDY ON HERMITE POLYNOMIAL**" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS) TRICHY-23**, affiliated to the **BHARATHIDASAN UNIVERSITY - TRICHY** In partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **S.VIGNESH** (Register No. : 20PMA19) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli - 23 during the period 2020-2022.

[Signature]
Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

[Signature]
Signature of Guide

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

Signature of Examiner

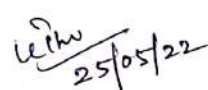
1. *[Signature]*
02/06/22
2. *[Signature]*
02/06/22

Dr.V.MALATHI, M.Sc., B.Ed., M.Phil., Ph.D.,
Assistant Professor,
PG and Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "**A STUDY ON PELL'S EQUATION**" done under my guidance submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE** (Autonomous and Accredited), Trichy-23 affiliated to the **BHARATHIDASAN UNIVERSITY** in partial fulfillment of the requirements for the award of the Degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **G.VINOTHKUMAR (Reg. No. 20PMA20)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-2022.


Signature of the
Head of the department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide
ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

Signature of the Examiners

1. 

2. 

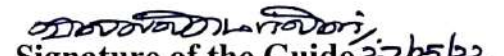
Dr. P. THIRUNAVUKARASU,
M.Sc., M.Phil., Ph.D., B.Ed., PGDCA.,
Assistant Professor
PG & Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023. Tamilnadu, India

Dr. W. LILLY MERLINE, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts and Science College (Autonomous),
Tiruchirappalli – 23.

CERTIFICATE


This is to certify that the project work entitled **“FUZZY MODEL USING FUZZY MATRIX”** done under my guidance and submitted to the **Thanthai Periyar Government Arts And Science College (Autonomous), Trichy-23** affiliated to the **BHARATHIDASAN UNIVERSITY** in partial fulfilment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **VISHNU GOPAL.N** (Reg. No. 20PMA21) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli – 23 during the period 2020 - 2022.


Signature of the
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide 27/05/22
(Dr. W. Lilly Merline)
ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

Signature of the Examiners

1. 
02/06/22

2. 
02/06/22

Dr. P. THIRUNAVUKARASU, M.Sc., M. Phil., Ph.D., PGDCA., B.Ed.,
Assistant Professor,
PG & Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (A),
Tiruchirappalli - 620 023.

CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON LATIN SQUARE DESIGN AND 2^2 - FACTORIAL DESIGN" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (A), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY, TRICHY**, in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **YOKESHWARAN C (Register No. : 20PMA22)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli - 23, during the period 2020-2022.

g. Selvi 30/05/22
SIGNATURE OF THE HOD

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023

P. Thirunavukarasu 28/5/22
SIGNATURE OF THE GUIDE

Dr. P. THIRUNAVUKARASU,
M.Sc., M.Phil., Ph.D., B.Ed., PGDCA.,
Assistant Professor
PG & Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023, Tamilnadu, India

EXAMINERS

1. *[Signature]*
02/06/22

2.

P. Thirunavukarasu 2/6/22
Dr. P. THIRUNAVUKARASU,
M.Sc., M.Phil., Ph.D., B.Ed., PGDCA.,
Assistant Professor
PG & Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023, Tamilnadu, India

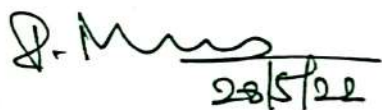


Dr. P. MARAGATHA MEENAKSHI, M.Sc., M.Phil., PBDCSA., NET., Ph.D.,
Associate Professor
PG and Research Department of Mathematics
Thanthai Periyar Government Arts and Science College (Autonomous)
Tiruchirappalli 620-023

CERTIFICATE

This is to certify the project work entitled "**A Study on Partially Singularly Perturbed Linear System of First Order Ordinary Differential Equations**" done under my guidance and submitted to the Thanthai Periyar Government Arts and Science College (Autonomous), affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **ABINAYA. J (Reg. No. 20PMA23)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli- 620 023 during the period 2020-2022.


Signature of Head of the Department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023

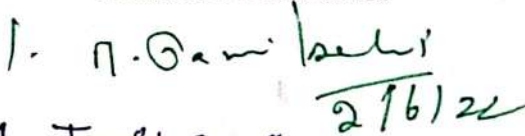

Signature of the Guide

Dr.P.MARAGATHA MEENAKSHI,
M.Sc.,M.Phil.,PBDCSA.,NET.,Ph.D.,
Associate Professor & Research Supervisor
P.G. and Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
TIRUCHIRAPPALLI 620 023.

Internal Examiner

Dr. P. MARAGATHA MEENAKSHI,
M.Sc., M.Phil., PBDCSA., NET., Ph.D.,
Associate Professor & Research Supervisor
PG & Research Department of Mathematics
Thanthai Periyar Govt. Arts & Science College -A)
Tiruchirappalli - 620 023, TAMIL NADU INDIA

External Examiner



Dr. M. Tamil Selvi,
Associate Professor & Head,
SRC college, Trichy-2.



Dr. W. LILLY MERLINE, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts and Science College (Autonomous),
Tiruchirappalli – 23.

CERTIFICATE

This is to certify that the project work entitled "**CLASSICAL ENCRYPTION TECHNIQUES**" done under my guidance and submitted to the Thanthai Periyar Government Arts and Science College (Autonomous), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **ANITHA.S** (Reg. No. 20PMA24) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli-23 during the period 2020-2022.


Signature of the


Head of the Department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide

Dr. W. LILLY MERLINE
ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

Signature of the Examiners

1. 
02/06/22

2. 
02/06/22

Dr. A. THANITHAMIL, M.Sc., M.Phil., Ph.D., B.Ed., PGDCA.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (A),
Tiruchirappalli - 620 023


CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON TRIANGULATED GRAPH AND THE ELIMINATION PROCESS" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE(A), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY , TRICHY**, in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **S.BHARATHI (Register No: 20PMA25)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli – 23, during the period 2020-2022.


Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide

Examiners

1. 
21/06/22

2. 
21/6/22

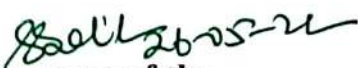
Dr. V. MALATHI, M.Sc., B.Ed., M.Phil., Ph.D.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (Autonomous),
Tiruchirappalli-620 023.

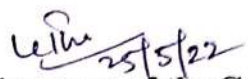
CERTIFICATE

This is to certify that the project work entitled "A STUDY ON FUZZY TREE AND FUZZY FOREST" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

K.DHIVYA PRIYA (Reg.No:20PMA26)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-2022.


Signature of the
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide
ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

Signature of the EXAMINERS:

1. 

2. 
Dr. P. THIRUNAVUKARASU,
M.Sc., M.Phil., Ph.D., B.Ed., PGDCA.,
Assistant Professor
PG & Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023. Tamilnadu, India

Dr. M. MARAGATHAM M.Sc.,M.Phil.,Ph.D.,

Associate Professor

PG and Research Department of Mathematics

Thanthai Periyar Government Arts and science College (A)

Trichirappalli - 620 023

CERTIFICATE

This is to certify that the work entitled "**MARKOVIAN DECISION PROCESS**" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (A)**, affiliated to the **BHARATHIDASAN UNIVERSITY** in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **Ms. E.GANGA (Reg No:20PMA27)** in PG and Research Department of Mathematics, **THANTHAI PERIYAR ARTS AND SCIENCE COLLEGE(A)**, Triruchirappalli - 620 023 during the period 2020-2022.

ganga 30.05.22
Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023

Dr. M. Maragatham 30.5.22
Signature of the Guide

Dr. M. MARAGATHAM,
M Sc, M Phil., Ph.D.,
Associate Professor
P.G. and Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
TIRUCHIRAPPALLI-620 023.

Signature of the Examiners

1. *(Signature)*
2/6/22

2. *Dr. M. Maragatham 2-6-22*

1. **DR. P-SHANMUGANANTHAM**
ASSO. PROF OF MATHS
NATIONAL COLLEGE
Trichy.

A STUDY ON FUNDAMENTAL EQUATIONS OF SURFACE THEORY

A dissertation submitted to the
Thanthai Periyar Government Arts and Science College (Autonomous),
Tiruchirappalli,

Affiliated to Bharathidasan University, Tiruchirappalli
in partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MATHEMATICS

Submitted by

K.GAYATHRI

(Register No. : 20PMA28)

Under the Guidance of

Dr. (Mrs.) K.PONNAMMAL, M.Sc., M.Phil., M.C.A., Ph.D.,

Assistant Professor of Mathematics,

PG and Research Department of Mathematics,

Thanthai Periyar Government Arts and Science (Autonomous),

Tiruchirappalli - 620 023.



**PG AND RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE
(AUTONOMOUS),
TIRUCHIRAPPALLI- 620 023.**

MAY-2022

Dr.K.RADHA,M.Sc.,M.Phil.,B.Ed.,SELT.,Ph.D.,
Associate Professor
PG and Research Department of Mathematics
Thanthai Periyar Government Arts and Science College (A)
Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "A STUDY ON VERTEX MAGIC AND EVEN VERTEX MAGIC TOTAL LABELING" done under my guidance submitted to the THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by K.KANIMALAR (Reg.No:20PMA29) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.

28/05/22
Signature of the
Head of the Department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023

28/5/22
Signature of the Guide
ASSOCIATE PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
THANTHAI PERIYAR GOVERNMENT
ARTS & SCIENCE COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 023.

Signature of the Examiners


1. *A. Ganimel*
Dr.M.TAMIL SELVI
Associate Professor of Mathematics Head
Sethalakshmi Ramaswamy
College (A), Trichy-2

2. *28/6/22*
Dr. K. RADHA M.Sc., M.Phil., B.Ed., SELT., Ph.D.,
Associate Professor of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
Tiruchirappalli-620 023.

Dr. A. THANTHAMBI, M.Sc., M.Phil., Ph.D., B.A., P.A.M.A.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (A),
Tiruchirappalli - 620 023

CERTIFICATE

This is to certify that the Project work entitled "A STUDY ON SECOND ORDER PARTIAL DIFFERENTIAL EQUATIONS" done under my guidance and submitted to the THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (A), TRICHY-23 affiliated to the BHARATHIDASAN UNIVERSITY, TRICHY, in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by M. KEERTHANA (Register No. : 20PMA30) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli - 23, during the period 2020-2022.


Signature of the
Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide

Examiners

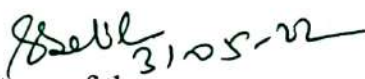
1. 
02/06/22

2. 

Dr. (Mrs.) K. KASTURRI, M.Sc., M. Phil., SLST., Ph.D.,
Assistant Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (Autonomous),
Tiruchirappalli- 620 023.

CERTIFICATE

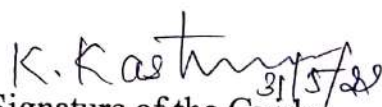
This is to certify that the Project work entitled "**A STUDY ON FIBANOCCHI AND LUCAS SUMS BY MATRIX METHODS**" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY, TRICHY**, in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **M.MARIAMMAL (Register No: 20PMA31)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.


Signature of the


Head of the department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023

Signature of the

External Examiners


Signature of the Guide

Dr.K.KASTURRI, M.Sc., M.Phil., Ph.D.,
Assistant Professor
P.G. and Research Department of Mathematics
Thanthai Periyar Government
Arts & Science College (Autonomous)
TIRUCHIRAPPALLI-620 023.

1. 
02/06/22
Dr. P. Shanmugavelu
Amo. prof. of Maths
NCT

2. 
2/6/22



Dr. S. SETHURAMAN, M.Sc., M.Phil., Ph.D.,
Associate professor & Head,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts & Science College (Autonomous),
Tiruchirappalli- 620 023.

CERTIFICATE


This is to certify that the Project work entitled "A STUDY ON LAGUERRE POLYNOMIAL " done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY – TRICHY** In partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by



P. PONMANI (Register No. : 20PMA32)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23 during the period 2020-2022


Signature of the

Head of the department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023


Signature of Guide
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli - 620 023
Signature of the Examiners

1. 
02/06/22
2. 
02/06/22

Dr.(Mrs.) R.RAZIYA BEGAM, M.Sc., M. Phil., B.Ed., M.CA., Ph.D.,
Associate Professor,

PG and Research Department of Mathematics,

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Tiruchirappalli- 620 023.


CERTIFICATE

This is to certify that the Project work entitled "**MAXIMUM DISTANCE BETWEEN MIDDLE PARTS IN GENERAL TREES**" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (AUTONOMOUS)**, affiliated to the **BHARATHIDASAN UNIVERSITY, TRICHY**, in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **T.PRAVEENA** (Register No. : 20PMA33) in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (Autonomous), Tiruchirappalli – 23, during the period 2020-2022.


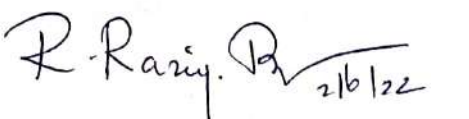

Signature of the

Head of the department

Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
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Signature of Guide

Examiners

1. 
2/6/22
2. 
2/6/22

Dr. M. MARAGATHAM ,M.Sc., M.Phil., B.Ed., Ph.D.,
Associate Professor,
PG and Research Department of Mathematics,
Thanthai Periyar Government Arts and Science College (Autonomous)
Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled "CENTERED TRIANGULAR SOME LABELING OF SOME GRAPHS" done under my guidance submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous)**, Trichy-23 affiliated to the **BHARATHIDASAN UNIVERSITY** in partial fulfillment of the requirements for the award of the Degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by

REVATHI S (Reg.No:20PMA34)

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Signature of the

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Head of the Department

PG & Research Department of Mathematics

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Tiruchirappalli - 620 023

1. DR. P. SHANMUGANANTHAM
ASSO. PROF OF MATHS
National College
Trichy.

Signature of the Guide

Dr. M. MARAGATHAM,

M Sc, M Phil, Ph D.

Associate Professor

P.G and Research Department of Mathematics

Thanthai Periyar Government

Arts and Science College (Autonomous)

TIRUCHIRAPPALLI-620 023.

EXAMINERS

1.

(Signature)

2/6/22

2.

(Signature)

2-6-22

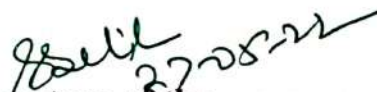
Dr.K.PONNAMMAL,M.Sc.,M.Phil.,M.C.A.,Ph.D.,
Assistant Professor,
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Tiruchirappalli-620 023.

CERTIFICATE


This is to certify that the project work entitled "**A STUDY ON SURFACES IN THE LARGE**" done under my guidance submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (Autonomous)**, Trichy-23 affiliated to the **BHARATHIDASAN UNIVERSITY** in partial fulfillment of the requirements for the award of the Degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by

G.SIVA RANJANI (Reg.No:20PMA35)

in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science college (Autonomous), Tiruchirappalli -23 during the period 2020-2022.




Signature of the
Head of the department

Head of the Department
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27/5/22

Dr. K. PONNAMMAL, M.Sc., M.Phil., M.C.A., Ph.D.,
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EXAMINERS:

1. 
2/6/22
2. 
2/6/22

Dr. P. MARAGATHA MEENAKSHI, M.Sc., M.Phil., PBDCSA., NET., Ph.D.,

Associate Professor

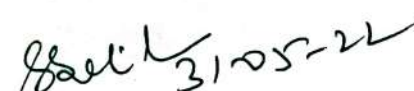
PG and Research Department of Mathematics

Thanthai Periyar Government Arts and Science College (Autonomous)

Tiruchirappalli 620-023

CERTIFICATE

This is to certify the project work entitled "**A Study on Multiscale Singularly Perturbed Linear System of First Order Ordinary Differential Equations**" done under my guidance and submitted to the Thanthai Periyar Government Arts and Science College (Autonomous), affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfilment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **SUBASHINI. S (Reg. No. 20PMA36)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli- 620 023 during the period 2020-2022.


Signature of Head of the Department

Head of the Department

PG & Research Department of Mathematics

Thanthai Periyar Government Arts & Science College(Autonomous)

Tiruchirappalli - 620 023


Internal Examiner

Dr. P. MARAGATHA MEENAKSHI,

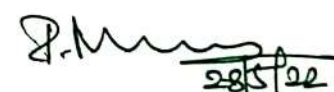
M.Sc., M.Phil., PBDCSA., CSIR-UGC NET., Ph.D.,

Associate Professor & Research Supervisor

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Thanthai Periyar Govt. Arts & Science College (A)

Tiruchirappalli - 620 023, TAMIL NADU INDIA


Signature of the Guide

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M.Sc., M.Phil., PBDCSA., NET., Ph.D.,

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Thanthai Periyar Government

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TIRUCHIRAPPALLI-620 023.


External Examiner

Dr. M. Tamil Selvi
Associate Professor & Head
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Dr.B.GAYATHRI, M.Sc.,UGC-NET,M.Phil.,Ph.D.,P.G.D.C.A.,M.C.A.,
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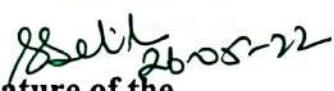
Thanthai Periyar Government Arts & Science College (Autonomous)
Tiruchirappalli-620 023

CERTIFICATE

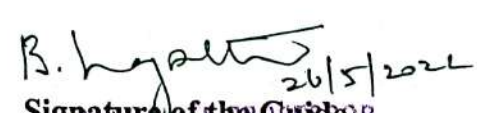
This is to certify that the project work entitled "**A STUDY ON CENTROIDAL AND F-CENTROIDAL MEAN LABELING OF GRAPHS**" done under my guidance submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (Autonomous and Accredited)**, Trichy-23 affiliated to the **BHARATHIDASAN UNIVERSITY** in partial fulfillment of the requirements for the award of the Degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by

SUDHARSANA.M (Reg.No:20PMA37)

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Signature of the
Head of the department

Head of the Department
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Signature of the Guide
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EXAMINERS:

1. 

2. 

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Tiruchirappalli - 620 023.

CERTIFICATE

This is to certify that the Project work entitled "**LIKELIHOOD RATIO ORDERING AND SOME APPLICATIONS**" done under my guidance and submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE(A), TRICHY-23** affiliated to the **BHARATHIDASAN UNIVERSITY, TRICHY**, in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **THANUPRIYA T (Register No. : 20PMA39)** in the PG and Research Department of Mathematics, Thanthai Periyar Government Arts & Science College (A), Tiruchirappalli – 23, during the period 2020-2022.

ggail 30-05-22
SIGNATURE OF THE HOD

Head of the Department
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P. Thirunavukarasu 28/05/22
SIGNATURE OF THE GUIDE

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EXAMINERS

1. *B. Sankaranarayanan*
02/06/22

2.

P. Thirunavukarasu 2/6/22
Dr. P. THIRUNAVUKARASU,
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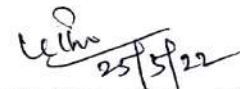


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CERTIFICATE

This is to certify that the project work entitled "**A STUDY ON LINEAR DIOPHANTINE EQUATION**" done under my guidance submitted to the **THANTHAI PERIYAR GOVERNMENT ARTS & SCIENCE COLLEGE (Autonomous and Accredited), Trichy-23** affiliated to the **BHARATHIDASAN UNIVERSITY** in partial fulfillment of the requirements for the award of the Degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by **T.UMAMAHESHWARI(Reg.No:20PMA40)** in the PG and Research Department of Mathematics, Thanthai Periyar Govt. Arts Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-2022.


Signature of the
Head of the department
Head of the Department,
PG & Research Department of Mathematics
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Signature of the Guide
ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF MATHEMATICS
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Signature of the EXAMINERS:

1. 

2. 

Dr. P. THIRUNAVUKARASU,
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Tiruchirappalli-620 023

CERTIFICATE

This is to certify that the project work entitled “A STUDY ON K BANHATTI INDEX OF GRAPHS” done under my guidance submitted to the Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of **MASTER OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by

VALLI DEIVANAI. S (Reg.No:20PMA41)

in the PG and Research Department of Mathematics, Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.


Signature of the
Head of the department
Head of the Department
PG & Research Department of Mathematics
Thanthai Periyar Government Arts & Science College(Autonomous)
Tiruchirappalli - 620 023


Signature of the Guide
ASSOCIATE PROFESSOR
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EXAMINERS:

1. 

2. 

Dr. P. BHARATHI, M.Sc., M.Phil., Ph.D.,
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CERTIFICATE

This is to certify that the project work entitled "CHARACTERIZATION OF HEPTAGONAL NUMBER, OCTAGONAL NUMBER AND TRIANGULAR NUMBER" done under my guidance submitted to the Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 affiliated to the BHARATHIDASAN UNIVERSITY in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN MATHEMATICS is a bonafide record of the work done by

VIJAYALAKSHMI. N (Reg. No: 20PMA42) in the PG and Research Department of Mathematics, Thanthai Periyar Govt. Arts and Science college (Autonomous and Accredited), Tiruchirappalli -23 during the period 2020-22.

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Tiruchirappalli - 620 023

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Dr. P. BHARATHI, M.Sc., M.Phil., Ph.D.,
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EXAMINERS:

1. N. Ganesh
21/6/22

2. P. 2/6/22

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Tiruchirappalli-620 023.

