



SHRIMATI INDIRA GANDHI COLLEGE

(Nationally Accredited at “A” Grade (3rd Cycle) by NAAC)

Chatram Bus Stand, Tiruchirappalli – 620002.

1.3.2

Supporting Document for Project work


Mathematics

Ms. R.Maheswari, M.Sc., M.Phil.,
Assistant Professor,
PG& Research Department of Mathematics,
Shrimati Indira Gandhi College,
Tiruchirappalli-620 002

CERTIFICATE

This is to certify that the project work entitled “Properties of 2-Dimensional objects” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB21S381521	Aarthi K
CB21S381522	Barani K
CB21S381523	Dhanuja V
CB21S381524	Gayathiri K
CB21S381525	Harini Priya S


Signature of the Guide


Signature of the Head of the Department


The Head
Dept Of Mathematic.
Shrimati Indira Gandhi College,
Tiruchirappalli - 620 002

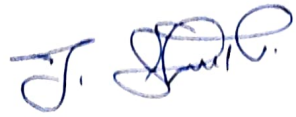
Dr.N.Umamaheswari, M.Sc., M.Phil.,B.Ed., Ph.D
Assistant Professor,
PG& Research Department of Mathematics,
Shrimati Indira Gandhi College,
Tiruchirappalli-620 002

CERTIFICATE

This is to certify that the project work entitled “Understanding the Conics through Augmented Reality” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB21S381526	Harini U
CB21S381527	Hema Priya S
CB21S381528	Jaya Lakshmi V
CB21S381529	Jayasree S
CB21S381530	Karthiba M


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The Head
Dept Of Mathematics
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Tiruchirappalli - 620 002

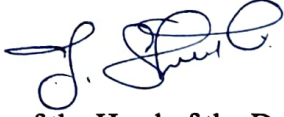
Ms.V.Anbuvalli, M.Sc., M.Phil.,
Assistant Professor,
PG& Research Department of Mathematics,
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Tiruchirappalli-620 002

CERTIFICATE

This is to certify that the project work entitled “Differential equations in Mathematical Modeling” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB21S381531	Mariya Nithya P
CB21S381532	Monika A
CB21S381533	Monisha M
CB21S381534	Rajabharathi R
CB21S381535	Sathiya Priya B


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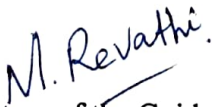
The Head
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Ms.M.Revathi, M.Sc., M.Phil.,
Assistant Professor,
PG& Research Department of Mathematics,
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CERTIFICATE

This is to certify that the project work entitled “Applications of Laplace Transforms” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB21S381536	Sathiyavani T
CB21S381537	Sorna Latha S
CB21S381538	Sowndharya D
CB21S381539	Swetha B
CB21S381540	Swetha S
CB21S381542	Vinothiya M


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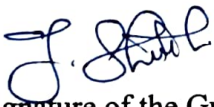

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Dr. J. Shanthi, M.Sc., M.Phil., B.Ed., PGDCA.,Ph.D.,
Head,PG& Research Department of Mathematics,
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CERTIFICATE

This is to certify that the project work entitled “Applications of Convergent and divergent Sequences” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB20S377670	R Abirami
CB20S377671	S Anusuya
CB20S377673	M Birundha
CB20S377674	P. Dhivyabharathi
CB20S377675	R Hemapriya


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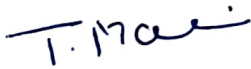
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Ms. T. Mahalakshmi, M.Sc., M.Phil.,
Assistant Professor,
PG& Research Department of Mathematics,
Shrimati Indira Gandhi College,
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CERTIFICATE

This is to certify that the project work entitled "Newton's theorem on the sum of the power of the roots" has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB20S377676	U Kalpanadevi
CB20S377677	P Kavya Shri
CB20S377678	M Keerthana
CB20S377679	R Keerthika
CB20S377680	S Lakshmipraba



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Assistant Professor,
PG& Research Department of Mathematics,
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CERTIFICATE

This is to certify that the project work entitled "To solve vector differentiation and integration problems" has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB20S377681	R Malathi
CB20S377682	S Malini
CB20S377683	M G Marthni Kiruba
CB20S377684	P Pavadharani
CB20S377685	S Renuka



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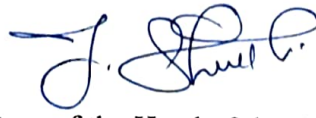
Ms. R. Maheswari, M.Sc., M.Phil.,
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CERTIFICATE

This is to certify that the project work entitled “Role of Eigen values and Eigen vectors in real life” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB20S377686	A Ruthra
CB20S377687	C Sowmiya
CB20S377688	M Srimugi
CB20S377689	J Suthikavya
CB20S377690	K Viveka


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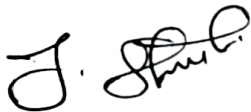

The Head
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Dr. J. Shanthi, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,
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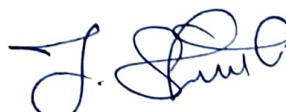
CERTIFICATE

This is to certify that the project work entitled "Special Kinds of Graphs" has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB19S 376960	S.Aarthy
CB19S 376961	C.Anitha
CB19S 376962	S.Kalki
CB19S 376963	K.Kanishka
CB19S 376964	A.Lakshmi Priya
CB19S 376965	G.Mahalakshmi
CB19S 376966	F.X.Mercy Anrose
CB19S 376967	K.Parameshwari



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Ms.D.Maheswari, M.Sc., M.Phil., SET
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CERTIFICATE

This is to certify that the project work entitled “Optimization techniques in advertising Problem” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB19S 376968	R.Pramila
CB19S 376969	A.Priya
CB19S 376970	S.Ramya
CB19S 376971	J.Sarawathi
CB19S 376972	G.Siva Sangari
CB19S 376973	N.Sivapriyas
CB19S 376974	S.Sona
CB19S 376975	K.Sugeeshwari



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CERTIFICATE

This is to certify that the project work entitled “LPP in Business and Management” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB19S 376976	R.Sujitha
CB19S 376977	S.Swetha
CB19S 376978	E.Vellaiyammal
CB19S 376979	C.Akila
CB19S 376981	N.Balambiga
CB19S 376982	C.Beula



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Assistant Professor,
PG& Research Department of Mathematics,
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CERTIFICATE

This is to certify that the project work entitled “Queuing Theory model in Hospitals” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB19S 376984	T.Daranisree
CB19S 376986	R.Dhivyastri
CB19S 376987	M.Gomathi
CB19S 376988	R.Harini
CB19S 376989	C.Heera
CB19S 376990	K.Ilakkiya

V.Praba

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CERTIFICATE

This is to certify that the project work entitled “A study on Domination” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB19S 377022	D.Kavikuil
CB19S 376992	R.Lavanya
CB19S 376993	S.Madhumathi
CB19S 376994	R.Monika
CB19S 376995	P.Nagalakshmi
CB19S 376996	M.Preethi
CB19S 376997	R.Priya Thilaga
CB19S 376998	P.Priyadharshini


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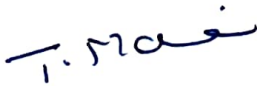
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CERTIFICATE

This is to certify that the project work entitled “Application of Trees in Graph Theory” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB19S 376999	R.Selvapriya
CB19S 377000	M.Shobana
CB19S 377001	S.Sivaranjani
CB19S 377002	K.Sowmiya
CB19S 377003	M.Sri Priyadharshini
CB19S 377004	S.Srinithi
CB19S 377005	S.Srividhya
CB19S 377006	S.Subraja



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CERTIFICATE

This is to certify that the project work entitled “Real life applications of Abstract Algebra” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB19S 377007	B.Sumithra
CB19S 377008	K.Swetha
CB19S 377009	K.S.Thanwanthega
CB19S 377010	V.Thilagavathi
CB19S 377011	S.Vaitheeswari
CB19S 377012	R.Vetriselvi
CB19S 377013	S.Vidhya
CB19S 377014	K.Vinothini


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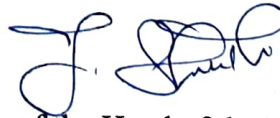
CERTIFICATE

This is to certify that the project work entitled “Role of Game theory in Marketing” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB19S 377015	S.Yogalakshmi
CB19S 377016	K.Abina
CB19S 377017	S.Aswni
CB19S 377018	P.Dharani Priya
CB19S 377019	V.Dharshini
CB19S 377020	R.Elakkiya
CB19S 377021	K.Kathiroli



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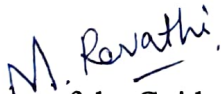
The Head
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Ms.M.Revathi, M.Sc., M.Phil.,
Assistant Professor,
PG& Research Department of Mathematics,
Shrimati Indira Gandhi College,
Tiruchirappalli-620 002

CERTIFICATE

This is to certify that the project work entitled “Application of Domination in various fields” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
CB19S 377023	D.Kaviya
CB19S 377024	K.Nandhini
CB19S 377025	M.Nisha
CB19S 377026	S.N.Parethey Sakthi Sree
CB19S 377027	P.Sowmiya


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Dr. V. Prabha, M.Sc., M.Phil., B.Ed., Ph.D.,
Assistant Professor,
PG & Research Department of Mathematics,
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CERTIFICATE

This is to certify that the project work entitled "Simulation modeling in operation Research" has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
P 21191050	Anuja K
P 21191051	Anushiya R S
P 21191052	Atchaya S
P 21191053	Boomika S
P 21191054	Indhumuki B
P 21191055	Jayasri M

V. Prabha

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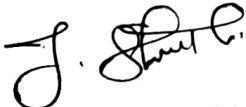
The Head
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Dr. J. Shanthi, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,
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CERTIFICATE

This is to certify that the project work entitled "Observation on the Diophante equation $y^2 = 14x^2 + 11$ & $y^2 = 17x^2 - 4$ " has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
P 21191056	Keerthana S
P 21191057	Kesava Priya K
P 21191058	Madhumitha P
P 21191059	Manimozhi G
P 21191060	Mohana Priya D
P 21191061	Nandhini V



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Dr. N. Uma Maheswari, M.Sc., M.Phil.,B.Ed., Ph.D
Assistant Professor,
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CERTIFICATE

This is to certify that the project work entitled “A study of semi- regular graph” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
P 21191062	Nivisha A
P 21191063	Pichayammal C
P 21191064	Poongodi P
P 21191065	Praveena M
P 21191066	Preetha P
P 21191067	Priyanga S


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PG& Research Department of Mathematics,
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CERTIFICATE

This is to certify that the project work entitled “Halin Graph and its application” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
P 21191068	Ramya A
P 21191069	Ramya T
P 21191070	Revathy A
P 21191071	Santhamathi R
P 21191072	Sathya A
P 21191073	Sneka P


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CERTIFICATE

This is to certify that the project work entitled "A study on LP space in measure" has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
P 21191074	Suriya S
P 21191075	Thamarai Selvi L
P 21191076	Yogha A C
P 21191077	Abarna D
P 21191078	Abarana J


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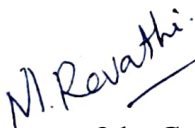
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Assistant Professor,
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CERTIFICATE

This is to certify that the project work entitled "A study on Double sequences and double series" has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
P 21191079	Amala B
P 21191080	Anusha S
P 21191081	Arul Selvi M
P 21191082	Devadharshini V
P 21191083	Dharani A


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Assistant Professor,
PG& Research Department of Mathematics,
Shrimati Indira Gandhi College,
Tiruchirappalli-620 002

CERTIFICATE

This is to certify that the project work entitled “Arithmetical function and Dirichlet multiplications” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
P 21191084	Dhurgadevi C
P 21191085	Durga V
P 21191086	Durga Devi K
P 21191087	Girija R
P 21191088	Guna Sundhari R



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Assistant Professor,
PG& Research Department of Mathematics,
Shrimati Indira Gandhi College,
Tiruchirappalli-620 002

CERTIFICATE

This is to certify that the project work entitled “A study on Edge Irregular Bipolar Fuzzy graphs” has been carried out by the following students under my supervision and guidance during the Academic Year 2021-2022.

Register No.	Name of the Student
P 21191089	Janet Niranjana J
P 21191090	Josephine Clara S
P 21191091	Kavitha N
P 21191092	Kavitha Sri S
P 21191093	Kaviya R



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Signature of the Head of the Department

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Dr.V. PRABA, M.Sc.,M.Phil.,B.Ed.,Ph.D.,Grad OR.,
Assistant professor, Department of Mathematics,
Shrimati Indira Gandhi college,
Tiruchirappalli-620 002.

CERTIFICATE

This is to certify that the project report entitled "**A STUDY ON MONOPHONIC CONCEPTS IN GRAPHS**" is submitted by **M.ABINAYA, REG. NO : P 20191401** to **BHARATHIDASAN UNIVERSITY Tiruchirappalli** in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year **2020 - 2022**.
This project work is done by the candidate under my guidance.



Signature of the Guide

(Dr.V. PRABA)



Signature of the

Head of the Department

(Dr.J. SHANTHI)

The Head
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Dr. V.PRABA, M.Sc.,M.Phil.,B.Ed.,Ph.D.GRAD OR

Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

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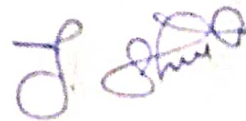
CERTIFICATE

This is to certify that the project report entitled "A STUDY ON COLOR CLASS AND COLORFUL DOMINATION " is submitted by A. ABIRAMALAKSHMI, REG . NO: P 20191402 to BHARATHIDASAN UNIVERSITY Tiruchirapalli in partial fulfillment for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS during the year 2020-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

(Dr.V.PRABA)



Signature of the

Head of the Department

(Dr.J.SHANTHI)

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Dr. V. PRABA, M.Sc., M.Phil., B.Ed., Ph.D. GRADE OR

Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

Tiruchirappalli-620 002.

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON STAR CHROMATIC NUMBERS OF GRAPHS" is submitted by A. ANUSHYA,

REG. NO: P 20191403 to BHARATHIDASAN UNIVERSITY

Tiruchirappalli in partial fulfillment for the award of the degree of

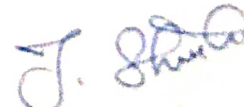
MASTER OF SCIENCE IN MATHEMATICS during the year

2020-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

(Dr.V. PRABA)



Signature of the

Head of the Department

(Dr.J. SHANTHI)

The Head
Dept Of Mathematic
Shrimati Indira Gandhi College
Tiruchirappalli - 620 002

Dr.V.PRABA, M.Sc.,M.Phil.,B.Ed.,Ph.D.GRAD OR


Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

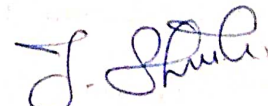
Tiruchirapalli-620 002.

CERTIFICATE

This is to certify that the project report entitled “AN APPLICATION OF INTERVAL VALUED FUZZY MATRICES IN MEDICAL DIAGNOSIS” is submitted by J.AYISHA SIDDQHA, REG.NO: P 20191404 to BHARATHIDASAN UNIVERSITY Tiruchirapalli in partial fulfillment for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS during the year 2021-2022. This project work is done by the candidate under my guidance.


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Signature of the

Head of the Department

(Dr.J.SHANTHI)

The Head
Dept Of Mathematic..
Shrimati Indira Gandhi College
Tiruchirapalli - 620 002

Dr. V. PRABA, M.Sc., M.Phil., B.Ed., Ph.D., Grad OR.,

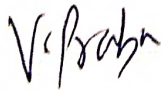
Assistant Professor, Department of Mathematics,

Shrimati Indira Gandhi College,

Tiruchirappalli - 620 002.

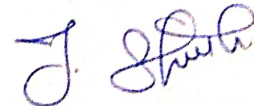
CERTIFICATE

This is to certify that the project report entitled "LAPLACE-BASED METHOD FOR THE LINEARIZED DYNAMICAL MODELS IN THE PRESENCE OF HILFER-FRACTIONAL OPERATOR" is submitted by A. BANUPRIYA, REG. NO: P 20191405 to BHARATHIDASAN UNIVERSITY Tiruchirappalli in partial fulfillment for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS during the year 2021-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

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Dr. V.PRABA , M.Sc., M.Phil., B.Ed., Ph.D., Grad(OR).,
Assistant Professor, Department of Mathematics,
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Tiruchirappalli-620 002.

CERTIFICATE

This is to certify that the project report entitled "**EXCELLENT - JUST EXCELLENT-VERY EXCELLENT GRAPHS**" is submitted by **S.DHANALAKSHMI, REG.NO:P20191406** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.

V. Praba

Signature of the Guide

(Dr. V.PRABA)

J. Shanthi

Signature of the

Head of the Department

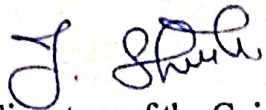
(Dr. J. SHANTHI)

The Head
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Shrimati Indira Gandhi College
Tiruchirappalli - 620 002


Dr. J. SHANTHI, M.Sc., M.Phil., B.Ed., Ph.D.,
Head, Department of Mathematics,
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CERTIFICATE

This is to certify that the project report entitled “**INTEGRAL SOLUTIONS OF THE TERNARY QUADRATIC EQUATIONS** $x^2 + y^2 = z^2 + 10$ & $3(x^2 + y^2) - 5xy + x + y + 1 = 15z^2$ ” is submitted by **P. DHANASSREE, REG.NO: P 20191407** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.


Signature of the Guide

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Dr.J.SHANTHI, M.Sc.,M.Phil.,B.Ed.,Ph.D.,

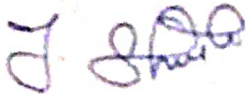
Head, Department of Mathematics,

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Tiruchirappalli-620 002.

CERTIFICATE

This is to certify that the project report entitled "**COMPLEMENT AND ISOMORPHISM OF A FUZZY GRAPH**" is submitted by **PDHARANI, REG.NO: P20191408** to **BHARATHIDASAN UNIVERSITY Tiruchirappalli** in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year **2021-2022**. This project work is done by the candidate under my guidance.



Signature of the Guide

(Dr.J.SHANTHI)



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Head of the Department

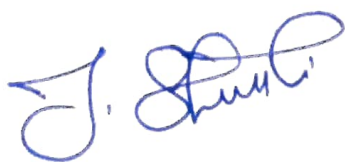
(Dr.J.SHANTHI)

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Dr. J. Shanthi , M.Sc., M.Phil., B.Ed., Ph.D.,
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CERTIFICATE

This is to certify that the project report entitled " **COMPARATIVE ANALYSIS OF VARIOUS NUMERICAL METHODS** " is submitted by **C.DHIVYADHARSHINI, REG.NO:P20191409** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



Signature of the Guide
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Dr.J.SHANTHI, M.Sc.,M.Phil.,B.Ed.,Ph.D.,

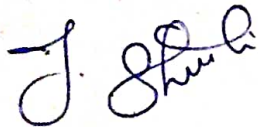
Head, Department of Mathematics,

Shrimati Indira Gandhi college,

Tiruchirappalli-620 002.

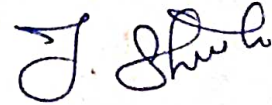
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This is to certify that the project report entitled **“SOLVING ORDINARY DIFFERENTIAL EQUATIONS BY MEANS OF SERIES METHOD”** is submitted by **K.GOMATHI, REG.NO: P20191410** to **BHARATHIDASAN UNIVERSITY Tiruchirappalli** in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Dr. J. SHANTHI, M.Sc., M.Phil., B.Ed., Ph.D.,

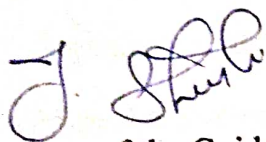
Head, Department of Mathematics,

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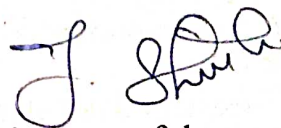
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This is to certify that the project report entitled "**LADDER GRAPHS WITH PENDANT EDGES ARE ODD GRACEFUL**" is submitted by **R.GOWRI, REG.NO: P 2019141** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Dr.J. SHANTHI, M.Sc.,M.Phil.,B.Ed.,Ph.D.,

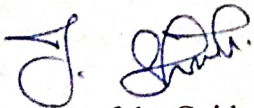
Head, Department of Mathematics,

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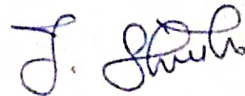
CERTIFICATE

This is to certify that the project report entitled "FUZZY LINEAR MATHEMATICAL PROGRAMMING IN AGRICULTURE" is submitted by S. GUNAPATHI, REG.NO: P 20191412 to BHARATHIDASAN UNIVERSITY, Tiruchirappalli in partial fulfillment for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS during the year 2020-2022. This project work is done by the candidate under my guidance.



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Ms. D. MAHESWARI, M.Sc., M.Phil., SET.,

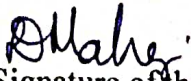
Assistant professor, Department of Mathematics,

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CERTIFICATE

This is to certify that the project report entitled "ZERO-SUM MAGIC GRAPHS AND THEIR NULL SETS" is submitted by G.HARSINI, REG.NO: P 20191413 to BHARATHIDASAN UNIVERSITY, Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.


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Mrs. D. MAHESWARI, M.Sc., M. Phil., SET.,

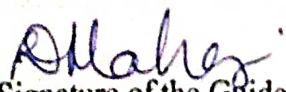
Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

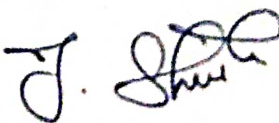
Tiruchirappalli - 620 002.

CERTIFICATE

This is to certify that the project report entitled "**HERMITIAN ADJACENCY MATRIX OF DIGRAPHS AND MIXED GRAPHS**" is submitted by **S. K. ISWARIA, REG.NO: P 20191414** to **BHARATHIDASAN UNIVERSITY Tiruchirappalli** in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.

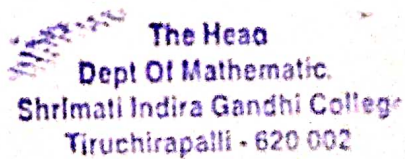

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Dept Of Mathematic.
Shrimati Indira Gandhi College
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Ms.D.MAHESWARI, M.Sc., M.Phil., SET.,

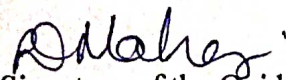
Assistant professor, Department of Mathematics,

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Tiruchirappalli-620 002.

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON GIRTH IN GRAPHS" is submitted by R.JANCYRANI, REG.NO:P 20191415 to BHARATHIDASAN UNIVERSITY, Tiruchirappalli in partial fulfillment for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS during the year 2021-2022. This project work is done by the candidate under my guidance.


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(D. MAHESWARI)



Signature of the

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(Dr. J.SHANTHI)

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Dept Of Mathematic
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Tiruchirapalli - 620 002

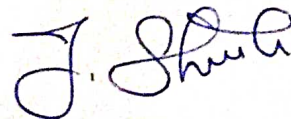
Ms.D.MAHESWARI, M.Sc.,M.Phil.,SET.,
Assistant professor, Department of Mathematics,
Shrimati Indira Gandhi college,
Tiruchirappalli-620 002.

CERTIFICATE

This is to certify that the project report entitled "A STUDY ON ALGEBRAIC K-THEORY" is submitted by A.JENIFER SOWNDRAMARY, REG.NO: P 20191416 to BHARATHIDASAN UNIVERSITY Tiruchirappalli in partial fulfillment for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS during the year 2021-2022. This project work is done by the candidate under my guidance.


Signature of the Guide

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Signature of the

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Dept Of Mathematic..
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Ms.D.MAHESWARI, M.Sc.,M.Phil.,SET.,

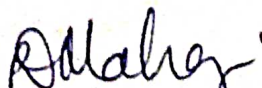
Department of Mathematics,

Shrimati Indira Gandhi college,

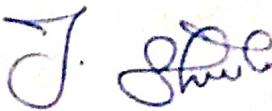
Tiruchirappalli-620 002.

CERTIFICATE

This is to certify that the project report entitled is submitted by "ON A NONLINEAR SYSTEM OF PDE'S ARISING IN FREE CONVECTION" is submitted by R.JENISHA SAIBI, REG.NO:P20191417 to BRATHIDASAN UNIVERSITY Tiruchirappalli in partial fulfillment for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS during the year 2021-2022. This project work is done by the candidate under my guidance.


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Ms.D. MAHESWARI, M.Sc., M.Phil., SET.,

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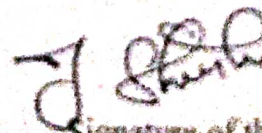
CERTIFICATE

This is to certify that the project report entitled "EIGENVALUES AND EXPANDERS" is submitted by **S. KAMALI, REG.NO:P 20191420** to **BHARATHIDASAN UNIVERSITY, Tiruchirappalli** in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2020-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

(D. MAHESWARI)



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Dept Of Mathematic
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Tiruchirappalli - 620 002

MS.V.ANBUVALLI,M.Sc.,M.Phil.,

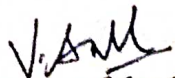
Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

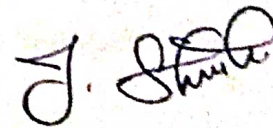
Tiruchirappalli-620 002.

CERTIFICATE

This is to certify that the project report entitled "AN EFFICIENT PARALLEL ALGORITHM FOR THE LONGEST PATH PROBLEM IN MESHES" is submitted by S.KAVIBHARATHI, REG.NO: P 20191421 to BHARATHIDASAN UNIVERSITY, Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.


Signature of the Guide

(V.ANBUVALLI)



Signature of the

Head of the Department

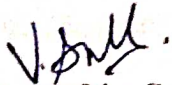
(J.SHANTHI)

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Ms .V. ANBUVALLI M.Sc.,M.Phil.,
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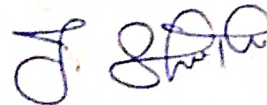
CERTIFICATE

This is to certify that the project report entitled "A STUDY ON FIBONACCI NUMBER OF THE TADPOLE GRAPH" is submitted by S. KAVIYA ARTHI REG.NO: P 20191422 to BHARATHIDASAN UNIVERSITY Tiruchirappalli in partial fulfillment for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS during the year 2020-2022. This project work is done by the candidate under my guidance.



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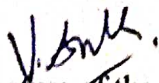
Assistant professor of mathematics,

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Tiruchirappalli-620 002.

CERTIFICATE

This is to certify that the project report entitled "ENERGY OF PYTHAGOREAN FUZZY GRAPHS WITH APPLICATIONS" is submitted by **D.KEERTHANA, REG.NO: P20191423** to **BHARATHIDASAN UNIVERSITY Tiruchirappalli** in partial fulfilment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.


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Ms.V.ANBUVALLI,M.Sc.,M.Phil.,

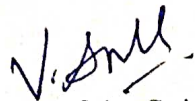
Assistant professor, Department of Mathematics,

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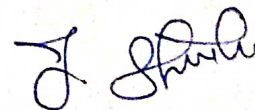
CERTIFICATE

This is to certify that the project report entitled “ **A STUDY ON
PARITY COMBINATION CORDIAL LABELING OF GRAPHS** ”
is submitted by **M.KIRUTHIGA, REG.NO: P 20191424** to
BHARATHIDASAN UNIVERSITY Tiruchirappalli in partial
fulfillment for the award of the degree of **MASTER OF SCIENCE
IN MATHEMATICS** during the year 2021-2022. This project work
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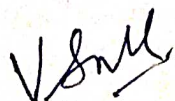
Assistant Professor, Department of Mathematics,

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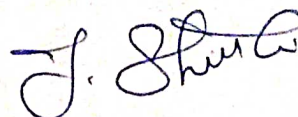
CERTIFICATE

This is to certify that the project report entitled “ **A STUDY ON V-FUZZY METRIC SPACE AND RELATED FIXED POINT THEOREMS** ” is submitted by **C.KIRUTHIKA, REG.NO: P 20191425** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

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Shrimati Indira Gandhi college,

Tiruchirappalli-620 002.

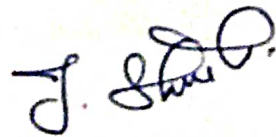
CERTIFICATE

This is to certify that the project report entitled "A STUDY ON EDGE ODD GRACEFUL LABELING OF SOME SPECIAL GRAPHS" is submitted by **M. KOKILA, REG.NO: P 20191426** to **BHARATHIDASAN UNIVERSITY Tiruchirappalli** in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2020-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

(Ms. V. ANBUVALLI)



Signature of the

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(Dr. J.SHANTHI)

The Head
Dept Of Mathematic,
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Ms. J. KIRUTHIKA, M.Sc., M.Phil., MBA.,

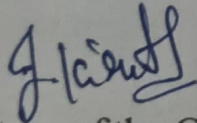
Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

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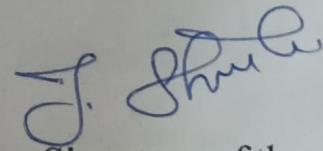
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This is to certify that the project report entitled “**A STUDY ON ELASTICITY WITHOUT STRESS OR STRAIN USING EULER LAGRANGE DIFFERENTIAL EQUATION**” is submitted by **C.PRIYADHARSHINI, REG.NO: P 18190527** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

(MS. J. KIRUTHIKA)



Signature of the

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(Dr. J. SHANTHI)

The Head
Dept Of Mathematic..
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Tiruchirapalli - 620 002

Dr. N. UMAMAHESWARI, M.Sc., M.Phil., B.Ed., Ph.D.,

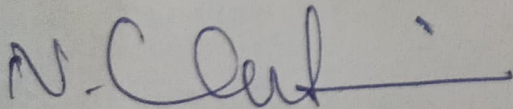
Assistant professor, Department of Mathematics,

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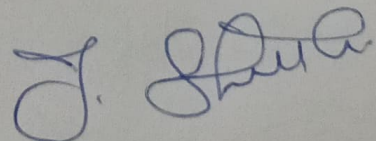
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This is to certify that the project report entitled “A STUDY ON DISTANCE OF SOME COMPOUND AND HEREDITARY GRAPHS” is submitted by **D. MADHUMITHA, REG.NO: P 20191428** to **BHARATHIDASAN UNIVERSITY**, Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2020-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

(Dr. N. UMAMAHESWARI)



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Dr.N. UMAMAHESWARI, M.Sc.,M.Phil.,B.Ed.,Ph.D.,

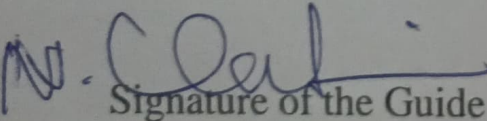
Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

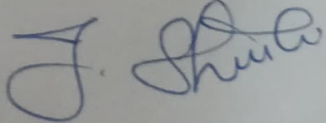
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This is to certify that the project report entitled “AN IMPROVED BOUNDS ON THE BURNING NUMBER OF GRAPH PRODUCTS” is submitted by **S.MADHUVARNAYAA, REG.NO: P20191429** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2020-2022. This project work is done by the candidate under my guidance.


Signature of the Guide

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Dr. N. UMAMAHESWARI, M.Sc.,M.Phil.,B.Ed.,Ph.D.,

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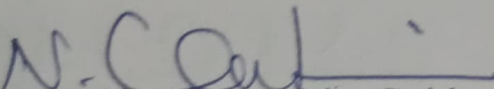
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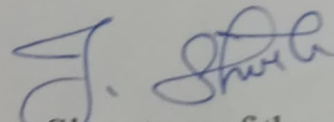
This is to certify that the project report entitled “A STUDY ON PARITY IN GRAPH SHARING GAMES” is submitted by L.MANJULA,

REG.NO: P20191430 to BHARATHIDASAN UNIVERSITY

Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2020-2022. This project work is done by the candidate under my guidance.


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Dr.N.UMAMAHESWARI, M.Sc.,M.Phil.,B.Ed.,Ph.D.,

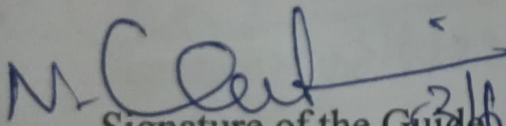
Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

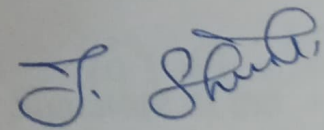
Tiruchirappalli-620 002.

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This is to certify that the project report entitled "**COMPLEX FUZZY LINEAR SYSTEMS**" is submitted by **S.MANJULA**,
REG.NO:P 20191431 to **BHARATHIDASAN UNIVERSITY**
Tiruchirappalli in partial fulfillment for the award of the degree of
MASTER OF SCIENCE IN MATHEMATICS during the year 2021-
2022. This project work is done by the candidate under my guidance.


Signature of the Guide 2/16/22

(Dr.N.UMAMAHESWARI)



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Dr.N.UMAMAHESWARI, M.Sc.,M.Phil.,B.Ed.,Ph.D.,

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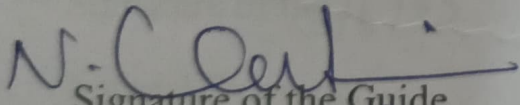
Shrimati Indira Gandhi college,

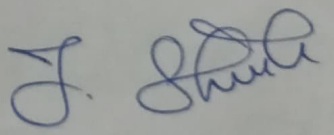
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CERTIFICATE

This is to certify that the project report entitled “**STOCHASTIC PROCESSES ON M/G/1 QUEUE AND HEAVY TRAFFIC LIMIT APPROXIMATION**” is submitted by **S.MATHU VIDHYA, REG NO:P20191432** to **BHARATHIDASAN UNIVERSITY**

Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.


Signature of the Guide
3/6/22
(Dr. N.UMAMAHESWARI)


Signature of the
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(Dr.J.SHANTHI)

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Dept Of Mathematic.,
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MS. M. REVATHI, M.Sc., M.phil.,

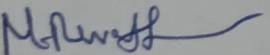
Assistant Professor, Department of Mathematics,

Shrimati Indira Gandhi College,

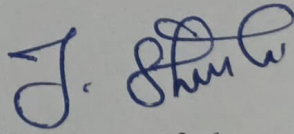
Tiruchirapalli-620 002.

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This is to certify that the project report entitled "**THE AVERAGE COVERING NUMBER OF A GRAPH**" is submitted by **R. MIRUTHULA, REG.NO: P 20191433** to **BHARATHIDASAN UNIVERSITY, Tiruchirapalli** in partial fulfilment for the award of the degree **MASTER OF SCIENCE IN MATHEMATICS** during the year **2020-2022** . This project work is done by the candidate under my guidance.


Signature of the Guide

(MS .M. REVATHI)


Signature of the

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(Dr. J.SHANTHI)

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Shrimati Indira Gandhi College
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Ms. M. REVATHI, M.Sc., M.Phil.,

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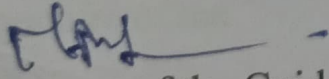
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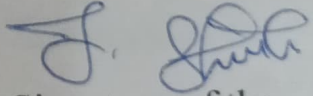
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This is to certify that the project report entitled "**A STUDY ON BIPOLAR FUZZY HYPERGRAPH**" is submitted by **A. NANCY, REG.NO: P 20191434** to **BHARATHIDASAN UNIVERSITY**

Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.

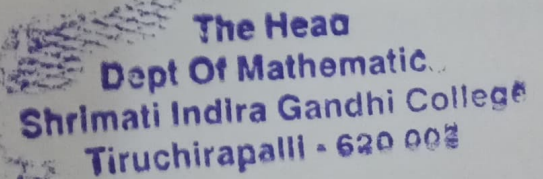

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Signature of the

Head of the Department

(Dr. J. SHANTHI)


The Head
Dept Of Mathematic
Shrimati Indira Gandhi College
Tiruchirapalli - 620 002

Ms. M. REVATHI, M.Sc.,M.Phil.,

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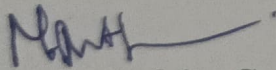
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This is to certify that the project report entitled **“SOME RESULTS ON TOTAL BLOCK GRAPHS AND LINE GRAPHS AND QUASITOTAL GRAPHS”** is submitted by **S. NAVIYA,**

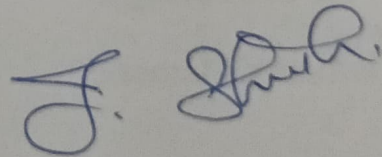
REG.NO: P 20191435 to BHARATHIDASAN UNIVERSITY,

Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year **2020-2022.** This project work is done by the candidate under my guidance.



Signature of the Guide

(Ms. M. REVATHI)



Signature of the

Head of the Department

(Dr. J. SHANTHI)

**The Head
Dept Of Mathematic...
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Tiruchirapalli - 620 002**

Ms.M. REVATHI, M.Sc.,M.Phil.,

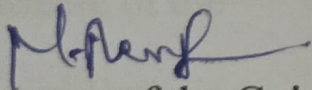
Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

Tiruchirappalli-620 002.

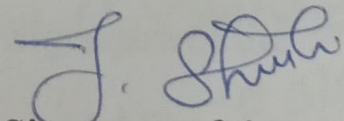
CERTIFICATE

This is to certify that the project report entitled “**OSCILLATORY PROPERTIES OF SOLUTIONS OF EVEN ORDER DIFFERENTIAL EQUATIONS**” is submitted by **M. PAVITHRA** REG.NO:P20191436 to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

(Ms.M. REVATHI)



Signature of the

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(Dr.J. SHANTHI)

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Dept Of Mathematic.

Shrimati Indira Gandhi College

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Ms. M. REVATHI, M.Sc., M.Phil.,

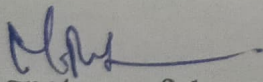
Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi College,

Tiruchirappalli-620 002.

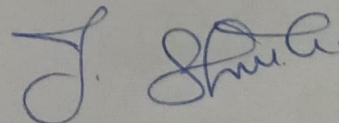
CERTIFICATE

This is to certify that the project report entitled “**ON STAR-SHAPED FUZZY SETS AND SEQUENCES OF FUZZY STAR-SHAPED NUMBERS**” is submitted by **D. PRAVEENA, REG.NO: P 20191437** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Dept Of Mathematic,
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Tiruchirapalli - 620 002

Ms. M. REVATHI, M.Sc., M.Phil.,

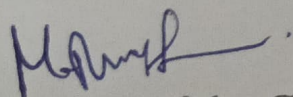
Assistant professor, Department of Mathematics,

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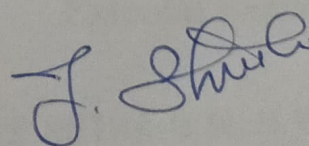
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This is to certify that the project report entitled "**IRREGULAR BIPOLAR FUZZY GRAPHS**" is submitted by **J. PRICILLA JANCY, REG.NO: P 20191438** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Dept Of Mathematic,
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Ms. R. MAHESWARI, M.Sc., M.Phil.,

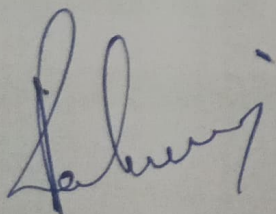
Assistant Professor, Department of Mathematics,

Shrimati Indira Gandhi college,

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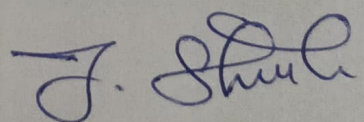
CERTIFICATE

This is to certify that the project report entitled “**NUTRITION MODELING THROUGH NANO TOPOLOGY**” is submitted by S. ^{P20191439} ~~P20191441~~ **PRIYADHARSHINI, REG.NO: P20191441** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Ms.R. MAHESWARI, M.Sc., M.Phil.,

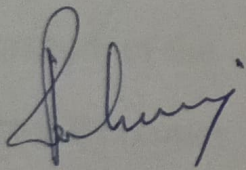
Assistant professor, Department of Mathematics,

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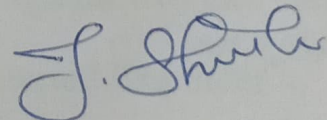
CERTIFICATE

This is to certify that the project report entitled “**A STUDY ON DOMINATION IN FUZZY SOFT GRAPHS**” is submitted by **K.SANGEETHA, REG.NO: P 20191440** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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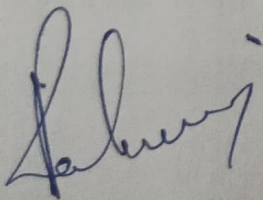
(Dr.J. SHANTHI)

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Ms. R. MAHESWARI, M.Sc., M.Phil.,
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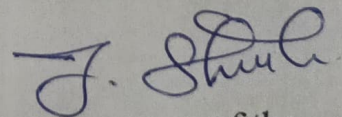
CERTIFICATE

This is to certify that the project report entitled “**NUTRITION MODELING THROUGH NANO TOPOLOGY**” is submitted by **S. PRIYADHARSHINI, REG.NO: P20191441** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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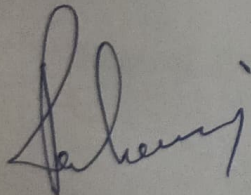
Assistant Professor, Department of Mathematics,

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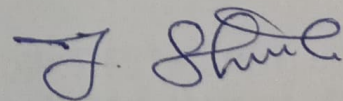
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This is to certify that the project report entitled “**TOPOLOGICAL APPROACH FOR DECISION-MAKING OF COVID -19 INFECTION VIA A NANO TOPOLOGY MODEL**” is submitted by **P.SANGEETHA, REG.NO: P 20191441** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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(Ms. R.MAHESWARI)



Signature of the

Head of the Department

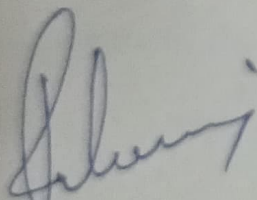
(Dr. J.SHANTHI)

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Ms. R. MAHESWARI, M.Sc., M.Phil.,
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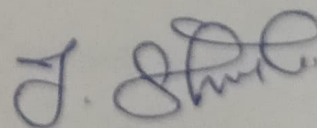
CERTIFICATE

This is to certify that the project report entitled "A STUDY ON FUZZY TOTAL COLORING AND CHROMATIC NUMBER OF A COMPLETE FUZZY GRAPH AND REGULAR FUZZY GRAPH" is submitted by **R.SANGEETHA, REG.NO: P 20191442** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



Signature of the Guide

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Ms. R. MAHESWARI, M.Sc., M.Phil.,

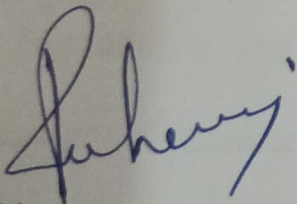
Assistant Professor, Department of Mathematics,

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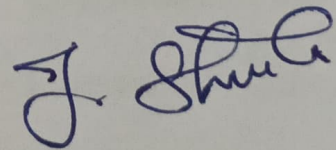
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This is to certify that the project report entitled “**A STUDY ON WEAKLY TRIANGULATED GRAPHS**” is submitted by **G. SANTHIYA**, **REG. NO: P 20191443** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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(MS. R. MAHESWARI)



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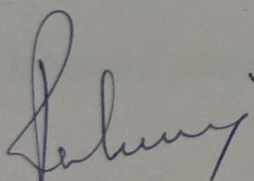
(Dr. J. SHANTHI)

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Ms. R. MAHESWARI M.Sc., M.Phil.,
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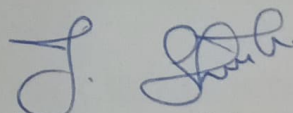
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This is to certify that the project report entitled “**A STUDY ON DOUBLE VERTEX GRAPHS AND COMPLETE DOUBLE VERTEX GRAPHS**” is submitted by **R. SANTHIYA, REG.NO: P 20191444** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021 - 2022. This project work is done by the candidate under my guidance.



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Ms. T. MAHALAKSHMI, M.Sc.,M.Phil.,B.Ed.,

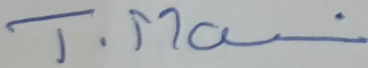
Assistant professor, Department of Mathematics,

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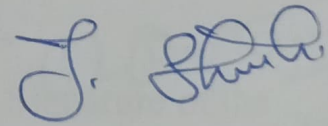
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This is to certify that the project report entitled “ **EXACT COVERING ON BUTTERFLY AND BENES NETWORKS** ” is submitted by **S.SARANYA, REG.NO: P20191445** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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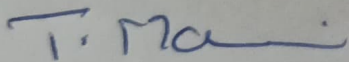
(Dr. J. SHANTHI)

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Ms. T. MAHALAKSHMI, M.Sc., M. Phil., B. Ed.,
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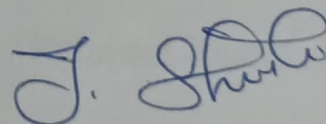
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This is to certify that the project report entitled "A STUDY ON CORDIAL LABELING FOR THE SPLITTING GRAPH OF SOME STANDARD GRAPHS" is submitted by **E.SARUMATHI, REG.NO: P20191446** to **BHARATHIDASAN UNIVERSITY, Tiruchirappalli** in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Ms.T.MAHALAKSHMI, M.Sc.,M.Phil.,B.Ed.,

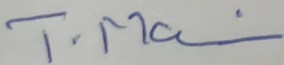
Assistant professor, Department of Mathematics,

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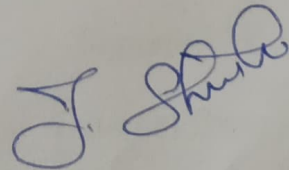
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This is to certify that the project report entitled "**OBSERVATIONS ON HOMOGENEOUS AND NON HOMOGENEOUS QUADRATIC DIOPHANTINE EQUATIONS**" is submitted by **S.SELVANATHI, REG.NO: P 20191447** to **BHARATHIDASAN UNIVERSITY Tiruchirappalli** in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Ms. T. MAHALAKSHMI, M.Sc.,M.Phil.,B.Ed.,

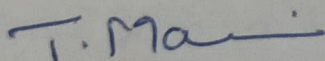
Assistant professor, Department of Mathematics,

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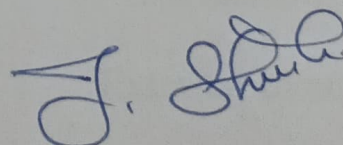
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This is to certify that the project report entitled “**THE INTERSECTION GRAPHS OF SUBTREES IN TREES ARE EXACTLY THE CHORDAL GRAPHS** ” is submitted by **R.SHALINI, REG.NO: P 20191448** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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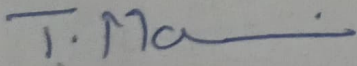
Assistant Professor, Department of Mathematics.

Shrimati Indira Gandhi College.

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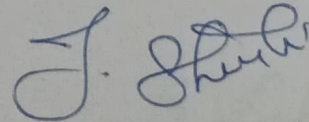
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This is to certify that the project report entitled “**A STUDY ON EDGE-TRANSITIVE GRAPHS**” is submitted by **S. SHALINI, REG. NO: P20191449** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfilment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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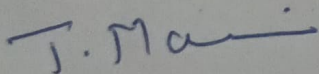
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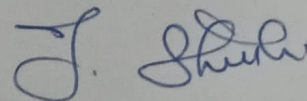
This is to certify that the project report entitled "**A STUDY ON INTEGER SOLUTION OF THE HOMOGENEOUS AND NON HOMOGENEOUS TRINARY QUADRATIC EQUATION**" is submitted by **V.SHOBANA, REG.NO: P 20191450** to **BHARATHIDASAN UNIVERSITY**

Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Ms. V. BAHAVATHI, M.Sc., M.Phil.,

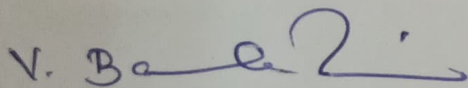
Assistant professor, Department of Mathematics,

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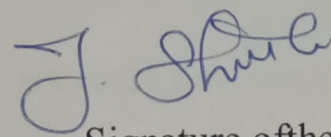
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This is to certify that the project report entitled **“ON COMPLETE INTERVAL VALUED FUZZY GRAPHS”** is submitted by **R.SOWNTHARYA, REG.NO: P20191451** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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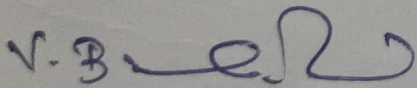
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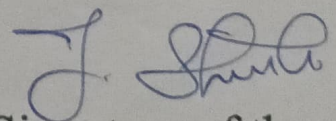
CERTIFICATE

This is to certify that the project report entitled "A STUDY ON EVEN VERTEX ODD MEAN LABELING OF SOME GRAPHS" is submitted by **Y. SUDHA PRINCIYA**, REG.NO: P 20191452 to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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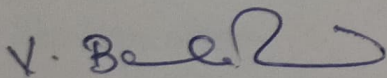
Assistant professor, Department of Mathematics,

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Tiruchirappalli-620 002.

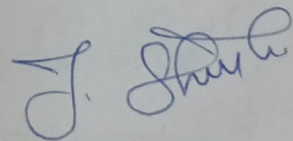
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This is to certify that the project report entitled "**A STUDY ON FUZZY GRAPH COLORING AND ITS APPLICATIONS**" is submitted by **M.SUVATHI, REG.NO: P 20191453** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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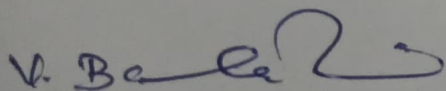
Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

Tiruchirappalli-620 002.

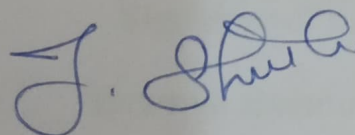
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This is to certify that the project report entitled “**REGULAR AND IRREGULAR INTERVAL VALUED FUZZY GRAPHS**” is submitted by **P.TAMIZHARASI, REG.NO: P 20191454** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Ms.V.BAHAVATHI M.Sc., M.Phil.,

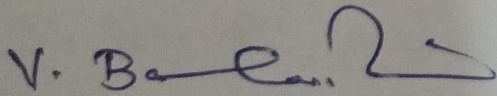
Assistant professor, Department of Mathematics,

Shrimati Indira Gandhi college,

Tiruchirappalli-620 002.

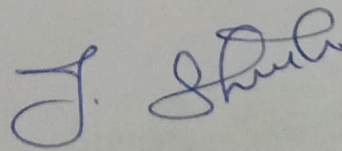
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This is to certify that the project report entitled “**A STUDY ON EVEN-ODD HARMONIOUS LABELING OF GRAPHS**” is submitted by **B.THANGAPRIYA, REG.NO: P 20191455** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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Ms. V. BAHAVATHI, M.Sc., M.Phil.,

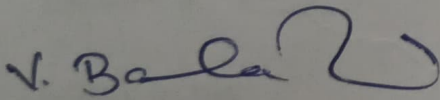
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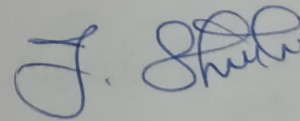
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This is to certify that the project report entitled “**A STUDY ON GEOMETRIC MEAN LABELING OF LINE GRAPHS**” is submitted by **D.THANUSPRIYA, REG.NO: P20191456** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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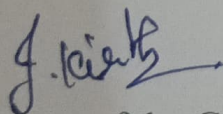
Assistant professor, Department of Mathematics,

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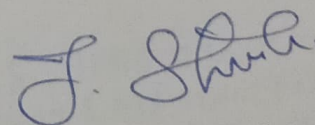
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This is to certify that the project report entitled “A STUDY ON HAMILTONIAN GRAPH INVOLVING NEIGHBORHOOD UNIONS” is submitted by **A.VAISHALI, REG.NO: P 20191457** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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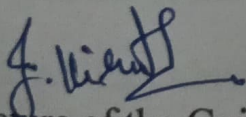
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Ms. J. KIRUTHIKA, M.Sc., M.Phil., MBA.,
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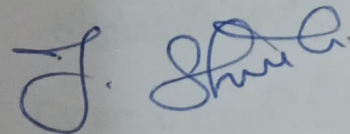
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This is to certify that the project report entitled “**A STUDY ON COMPUTING WITH PERMUTATION AND TRANSITIVE GRAPHS**” is submitted by **G.VAISHALI, REG.NO: P 20191458** to **BHARATHIDASAN UNIVERSITY, Tiruchirappalli** in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2020-2022. This project work is done by the candidate under my guidance.



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Ms. J. KIRUTHIKA, M.Sc., M.Phil., MBA.,

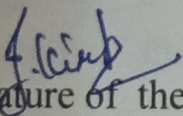
Assistant Professor, Department of Mathematics,

Shrimati Indira Gandhi College,

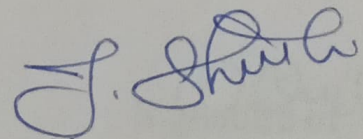
Tiruchirappalli - 620 002.

CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON ROOT SQUARE MEAN LABELING OF SOME NEW DISCONNECTED AND DEGREE SPLITTING GRAPHS”** is submitted by **P. VIDHYA, REG. NO: P 20191459** to **BHARATHIDASAN UNIVERSITY** Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.


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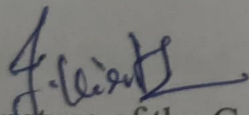
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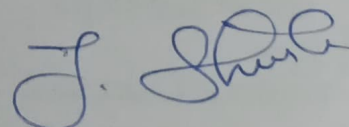
This is to certify that the project report entitled “**A STUDY ON SOME MODELS OF GRAPHS FOR SCHEDULING SPORTS COMPETITIONS**” is submitted by **K. VIJAYAVANI, REG.NO: P 20191460** to **BHARATHIDASAN UNIVERSITY.**

Tiruchirappalli in partial fulfillment for the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** during the year 2021-2022. This project work is done by the candidate under my guidance.



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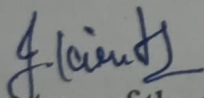
Assistant professor, Department of Mathematics,

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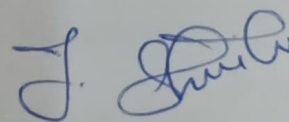
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This is to certify that the project report entitled "A STUDY ON RESOLUTION OF COMPOSITE FUZZY RELATION EQUATIONS" is submitted by A.VINOTHINI, REG.NO: P 20191461 to BHARATHIDASAN UNIVERSITY Tiruchirappalli in partial fulfillment for the award of the degree of MASTER OF SCIENCE IN MATHEMATICS during the year 2021-2022. This project work is done by the candidate under my guidance.



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