

A STUDY ON SPLIT DOMINATION OF GRAPH

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

Degree of
BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB01 Abarna G

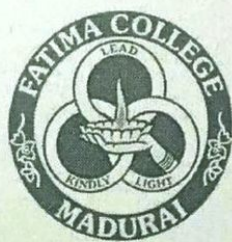
2019MB02 Abirami S

2019MB03 Anushree A

Under the Guidance of

Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

Assistant Professor and Head,
Department of Mathematics (SF)



Fatima College (Autonomous)

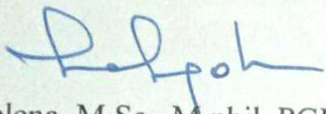
Re-Accredited with "A++" Grade by NAAC (Cycle - IV)

Mary Land, Madurai – 625018, Tamil Nadu.

June 2022

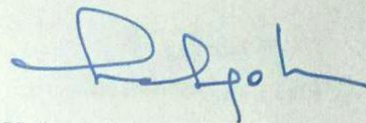
BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON SPLIT DOMINATION OF GRAPH" by ABARNA G (2019MB01), ABIRAMI S (2019MB02) and ANUSHREE A (2019MB03) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. E. Helena.



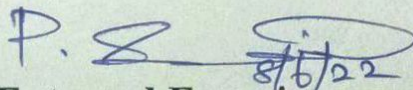
Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

Head of the Department



Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

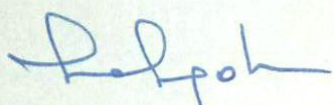
Project Guide



External Examiner

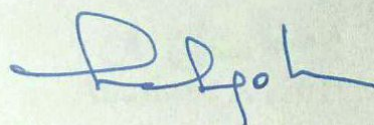
BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON SPLIT DOMINATION OF GRAPH" by ABARNA G (2019MB01), ABIRAMI S (2019MB02) and ANUSHREE A (2019MB03) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. E. Helena.



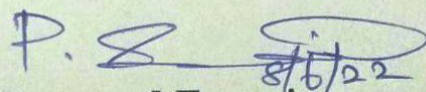
Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

Head of the Department



Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

Project Guide



External Examiner

A STUDY ON NON SPLIT DOMINATION OF GRAPH

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB07 Ilakkiya P K P

2019MB08 Devadharshini S

2019MB09 Dhanya R

Under the Guidance of

Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

Assistant Professor and Head,
Department of Mathematics(SF)



Fatima College(Autonomous)

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

MaryLand, Madurai- 625018, Tamil Nadu.

June 2022

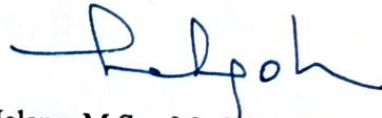
BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON NON SPLIT DOMINATION OF GRAPH" by ILAKKIYA P K P (2019MB07), DEVADHARSHINI S (2019MB08) and DHANYA R (2019MB09) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. E. Helena.



Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

Head of the Department



Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

Project Guide



External Examiner

DECLARATION

We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of **Dr. Mrs. E. HELENA, M.Sc., M.phil, PGDCA, Ph.D.**, Assistant professor and Head, Department of Mathematics (SF), Fatima College , Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of **Bachelor of Science in Mathematics**

Date: 8/6/22

Station: Madurai

pkp. Surya

ILAKKKIYA P K P (2019MB07)

S. Devadharshini

DEVADHARSHINI S (2019MB08)

Dhanya

DHANYA R(2019MB09)

SOME APPLICATIONS OF DOMINATION IN GRAPH THEORY

A project submitted to Madurai Kamaraj University in partial fulfillment of the requirement for
the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

C. Bridget Ciceelia Ignatius	2019MB05
R.Dharani	2019MB10
R.Dharshini	2019MB11

Under the Guidance of

Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D
Assistant Professor and Head,
Department of Mathematics (SF)



Fatima College (Autonomous)

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

Mary Land, Madurai – 625018, Tamil Nadu.

June - 2022.

BONAFIDE CERTIFICATE

This is to certify that the project entitled "SOME APPLICATIONS OF DOMINATION IN GRAPH THEORY" by BRIDGET CICEELIA IGNATIUS C (2019MB05), DHARANI R (2019MB10) and DHARSHINI R (2019MB11) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. E. Helena.



Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

Head of the Department



Dr. E. Helena, M.Sc., M.phil, PGDCA, Ph.D.

Project Guide


8/6/22

EXTERNAL EXAMINER

DECLARATION

We do hereby declare that this project is bonafide record of work carried out by us under the guidance and supervision of **Dr. E. Helena M.Sc., M.phil, PGDCA, Ph.D.**, Head & Assistant Professor, Department of Mathematics (SF), Fatima College (Autonomous), Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of **Bachelor of Science in Mathematics**.

Date: 08.06.2022

Station: Madurai



Bridget Ciceelia Ignatius.C (2019MB05)



Dharani.R (2019MB10)



Dharshini.R (2019MB11)

DEDUCTION OF LAGRANGES EQUATION USING CONSTRAINTS IN MECHANICS

A Project submitted to Madurai Kamaraj University in Partial Fulfilment

of the Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB12 Gandhimathi S

2019MB13 Geetha Mathi A

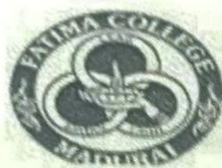
2019MB14 Haniya K S

Under the Guidance of

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

Assistant professor

Department of Mathematics (SF)



Fatima College (Autonomous)

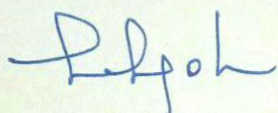
Re-Accredited with 'A++' Grade by NAAC (4th cycle)

Mary Land, Madurai – 625 018, Tamil Nadu.

JUNE - 2022.

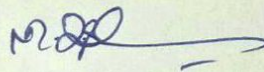
BONAFIDE CERTIFICATE

This is to certify that the project entitled "**DEDUCTION ON LAGRANGES EQUATION USING CONSTRAINTS IN MECHANICS**" by (2019MB12) Gandhimathi S, (2019MB13) Geetha Mathi A, (2019MB14) Haniya K S, in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. M. Subha.



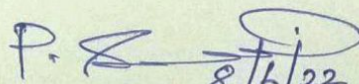
Dr. E. Helena. M.Sc., M.Phil., PGDCA., Ph.D.

Head of the Department



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

Project Guide

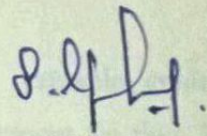


External Examiner

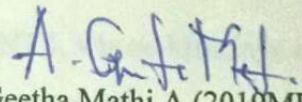
DECLARATION

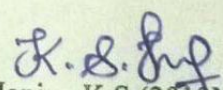
We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of **Dr. M. SUBHA M.Sc.,M.Phil.,Ph.D.,DCA.,ADHT.**, Assistant professor, Department of Mathematics (S.F), Fatima College, Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award on degree of **Bachelor of Science in Mathematics**.

Date: 08.06.2022


Gandhimathi S (2019MB12)

Station: Madurai.


Geetha Mathi A (2019MB13)


Haniya K S (2019MB14)

**A STUDY ON STATIONARY VALUE OF LAGRANGE'S EQUATION
IN MECHANICS**

A Project submitted to Madurai Kamaraj University in Partial Fulfilment

of the Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB15 HEMA S

2019MB16 HEMALATHA K

2019MB17 ISHWARYA T

Under the Guidance of

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

Assistant professor

Department of Mathematics(SF)



Fatima College (Autonomous)

Re-Accredited with 'A++' Grade by NAAC (4th cycle)

Mary Land, Madurai – 625 018, Tamil Nadu.

JUNE - 2022.

BONAFIDE CERTIFICATE

This is to certify that the project entitled " **STUDY ON STATIONARY VALUE OF LAGRANGE'S EQUATION IN MECHANICS**" by HEMA S(2019MB15) , HEMALATHA K(2019MB16) , ISHWARYA T(2019MB17) , in partial fulfilment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. M. Subha.



Dr. E. HELENA. M.Sc., M.Phil., PGDCA., Ph.D.

Head of the Department



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

Project Guide


8/6/22

External Examiner

DECLARATION

We do hereby declare that this project is bonafide record of work carried out by us under the guidance and supervision of **Dr. M. Subha M.Sc., M.Phil., Ph.D., DCA., ADHT.,** Assistant Professor, Department of Mathematics (SF), Fatima College, Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of **Bachelor of Science in Mathematics**

Date: 08.06.2022

Station: Madurai


HEMA S (2019MB15)


HEMALATHA K (2019MB16)


ISHWARYA (2019MB17)

**ANALYSIS ON HAMILTON'S PRINCIPAL FUNCTION AND JACOBI'S THEOREM
IN MECHANICS**

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment

of the Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB18 Janaganandhini.K

2019MB19 KamalaVigneshwari.R

2019MB20 Karthiga.P

Under the Guidance of

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

Assistant Professor

Department of Mathematics (SF)



Fatima College [Autonomous]

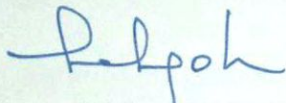
Re-Accredited with 'A++' Grade by NAAC (Cycle - IV)

Mary Land, Madurai - 625018, Tamil Nadu.

June-2022.

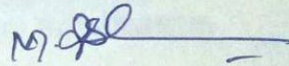
BONAFIDE CERTIFICATE

This is to certify that the project entitled "ANALYSIS ON HAMILTON'S PRINCIPAL FUNCTION AND JACOBI'S THEOREM IN MECHANICS" by JANAGANANDHINI K (2019MB18), KAMALAVIGNESHWARI R (2019MB19), and KARTHIGA P (2019MB 20) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. M. Subha.



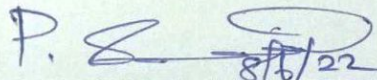
Dr. E. Helena, M.Sc., M.Phil., PGDCA, Ph.D.,

Head of the Department



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

Project Guide



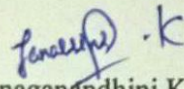
EXTERNAL EXAMINER

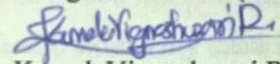
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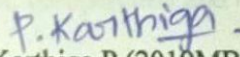
We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of Dr. Mrs. M. SUBHA M.Sc., M.Phil., Ph.D., DCA., ADHT., Assistant Professor, Department of Mathematics (SF), Fatima College, Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 08.06.2022

Station: Madurai

 .K
Janaganandhini.K (2019MB18)


KamalaVigneshwari.R (2019MB19)

 .
Karthiga.P (2019MB20)

A STUDY ON BASICS OF FUZZY SET THEORY
A Project Submitted to Madurai Kamaraj University in Partial
Fulfillment of the Requirement for the Award of Degree of
BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB21 C.KARTHIKA

2019MB23 R.LAKSHMI PRIYA

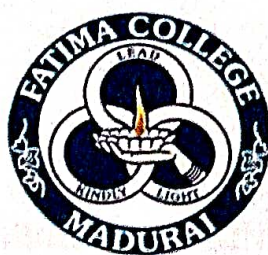
2019MB28 M.MONIKA

Under the Guidance of

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

Assistant Professor

Department of Mathematics



Fatima College (Autonomous)

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

Mary Land, Madurai - 625018, Tamil Nadu.

JUNE-2022

BONAFIDE CERTIFICATE

This is to certify that the project report entitled "A STUDY ON BASICS OF FUZZY SET THEORY" by C.KARTHIKA (2019MB21), R.LAKSHMI PRIYA (2019MB23) and M.MONIKA (2019MB28) in partial fulfilment of the requirements for the award of the Degree of Bachelor of Science in Mathematics submitted at Fatima College(Autonomous) under the guidance of Mrs. R. Jenovi Rosary Deepa.

Dr. E. Helena M.Sc., M.phil, PGDCA, Ph.D.

Head of the Department

Mrs.R.Jenovi Rosary Deepa M.sc.,M.Phil.,SIT,PGDCA.

Project Guide

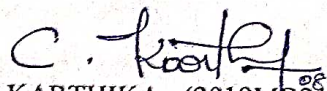
8/6/22
EXTERNAL EXAMINER

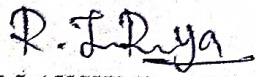
DECLARATION

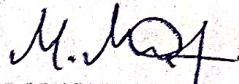
We do hereby declare that this project is bonafide record of work carried out by us under the guidance and supervision of Mrs.R.Jenovi Rosary Deepa M.sc.,M.Phil.,SET,PGDCA Assistant Professor, Department of Mathematics (SF), Fatima College (Autonomous), Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 08/06/2022 .

Station: Madurai


C.KARTHIKA (2019MB21) 08/06/2022


R.LAKSHMI PRIYA (2019MB23)


M.MONIKA (2019MB28)

A STUDY ON BASICS OF LATTICES

**A Project Submitted to Madurai Kamaraj University in Partial Fulfillment
of the Requirement for the Award of Degree of
BACHELOR OF SCIENCE IN MATHEMATICS**

Submitted by

2019MB22 M.KODEESHWARI

2019MB24 E.LAVANYA MANJARI

2019MB25 R.LAVEENA

Under the Guidance of

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

Assistant Professor

Department of Mathematics (SF)



Fatima College [Autonomous]

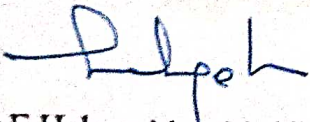
Re-Accredited with 'A++' Grade by NAAC (4th Cycle)

Mary Land, Madurai - 625018, Tamil Nadu.

APRIL - 2022(JUNE)

BONAFIDE CERTIFICATE

This is to certify that the project report entitled "A STUDY ON BASICS OF LATTICES" by M.KODEESHWARI (2019MB22), E.LAVANYA MANJARI(2019MB24), R.LAVEENA(2019MB25) and in partial fulfilment of the requirements for the award of the Degree of Bachelor of Science in Mathematics submitted at FatimaCollege(Autonomous) under the guidance of Mrs. R. Jenovi Rosary Deepa.



Dr.E.Helena M.sc.,M.phil.,PGDCA,Ph.D

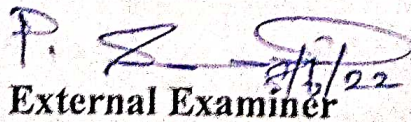
Head of the Department



Mrs.R.Jenovi Rosary Deepa

M.Sc., M.Phil.,SET, PGDCA

Project Guide



8/1/22

External Examiner

DECLARATION

We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of Mrs. R.Jenovi Rosary Deepa M.sc., M.Phil.,SET, PGDCA Assistant Professor, Department of Mathematics (SF), Fatima College, Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 08/06/2022.

M. Kodeeshwari

Kodeeshwari M (2019MB22)

E. Lavanya Manjari

Lavanya Manjari E (2019MB24)

R. Laveena

Laveena R (2019MB25)

Station: Madurai

A STUDY ON FUZZY MATHEMATICS

A Project Submitted to Madurai Kamaraj University in

Partial Fulfillment of the Requirement for the Award of

Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB26 K. MAHA LAKSHMI

2019MB27 R. MATHUMITHA

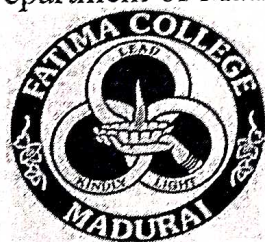
2019MB29 R. NAGASRI

Under the Guidance of

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

Assistant Professor

Department of Mathematics



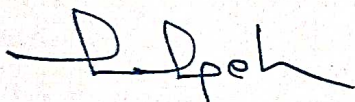
Fatima College [Autonomous]

Re-Accredited with 'A++' Grade by NAAC (IV-Cycle) Mary Land, Madurai - 625018, Tamil Nadu.

APRIL-2022(JUNE)

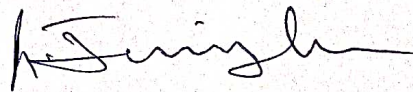
BONAFIDE CERTIFICATE

This is to certify that the project report entitled “A STUDY ON FUZZY MATHEMATICS” by K. MAHA LAKSHMI (2019MB26), R.MATHUMITHA (2019MB27) and R. NAGASRI (2019MB29) in partial fulfilment of the requirements for the award of the Degree of Bachelor of Science in Mathematics submitted at Fatima College(Autonomous) under the guidance of Mrs. R. Jenovi Rosary Deepa.



Dr.E. Helena M.Sc., M.Phil., PGDCA, Ph.D

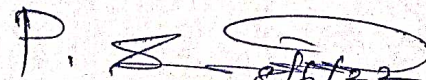
Head Of The Department



Mrs.R. Jenovi Rosary Deepa

M.Sc., M.Phil., SET, PGDCA

Project Guide



External Examiner

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Mrs. R.Jenovi Rosary Deepa M.sc., M.Phil., SET, PGDCA, department of mathematics, Fatima college(autonomous), Madurai-18 and this work has not been submitted elsewhere for any other degree.

Date: 08.06.2022

Station: Madurai

K. Mahalakshmi

K. MAHA LAKSHMI (2019MB26)

R. Mathumitha

R. MATHUMITHA (2019MB27)

R. Nagasri

R. NAGASRI (2019MB29)

A STUDY ON MARKOV CHAIN

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment
of the Requirement for the Award of the Degree of Bachelor of science in
Mathematics (SF)

Submitted by

NANDHINLK (2019MB30)
POOJA. R (2019MB32)
PRIYA DHARSHINLM (2019MB33)

Under the Guidance of

Mrs.B. Vethamary Jacqueline. M.Sc., M.Phil., B.Ed., PGDCA.,
Assistant Professor,
Department of Mathematics (SF)



Fatima College (Autonomous)

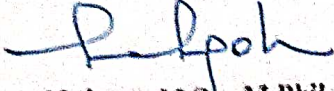
Re-Accredited with "A++" Grade by NAAC(Cycle-4)

Mary Land,
Madurai-625018.

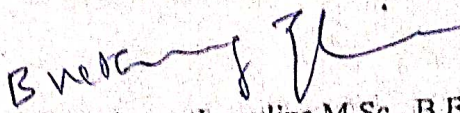
June- 2022

BONAFIDE CERTIFICATE

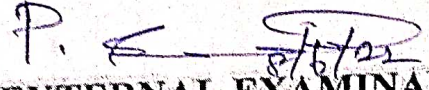
This is to certify that the project entitled "Markov chain" by
NANDHINI K (2019MB30), POOJA.R (2019MB32), PRIYA
DHARSHINI.M(2019MB33) in partial fulfillment of the requirements for the
award of degree of Bachelor of Science in Mathematics (SF) submitted at Fatima
College (Autonomous) under the guidance of Mrs.B. Vethamary Jacqueline.
M.Sc., B.Ed., M.Phil., PGDCA.,


Dr. E. Helena, M.Sc., M.Phil., PGDCA., Ph. D

Head of the Department


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

PROJECT GUIDE


EXTERNAL EXAMINAR

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Mrs.B.VethamaryJacqueline.M.Sc.M.phil., B.Ed., PGDCA.Assistant Professor, Department of Mathematics (S F) Fatima College (Autonomous), Madurai-18 and this work has not been submitted elsewhere for any other degree.

Date: 8/6/22

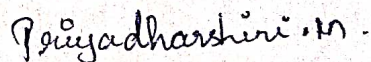
Station : Madurai

K. Nandhini

NANDHINI.K(2019MB30)



POOJA. R(2019MB32)



PRIYA DHARSHINI.M(2019MB33)

GALOIS THEORY

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

Submitted by

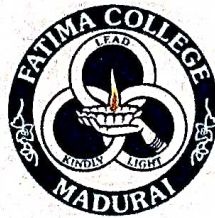
2019MB34 RAJASRI S

2019MB38 SAVITHA R

2019MB39 SHANMUGA PRIYA E

Under the Guidance of

Mrs. B. Vethamary Jacqueline, M.Sc., M.Phil., B.Ed., PGDCA.
Assistant Professor,
Department of Mathematics (SF)



Fatima College (Autonomous)

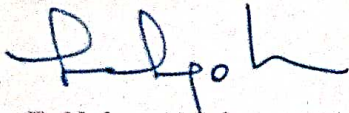
Re-Accredited with "A++" Grade by NAAC(Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu.

June - 2022.

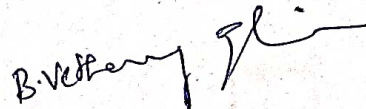
BONAFIDE CERTIFICATE

This is to certify that the project entitled "GALOIS THEORY" by
RAJASRI S (2019MB34), SAVITHA R (2019MB38) and SHANMUGA
PRIYA E (2019MB39) in partial fulfillment of the requirements for the award of
degree of Bachelor of Science in Mathematics (SF) submitted at Fatima College
(Autonomous) under the guidance of Mrs. B. Vethamary Jacqueline.



Dr. E. Helena, M.Sc., M.Phil., PGDCA, Ph.D.

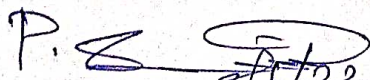
Head of the Department



Mrs. B. Vethamary Jacqueline

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

Project Guide

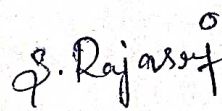

8/6/22
External examiner

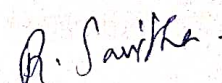
DECLARATION

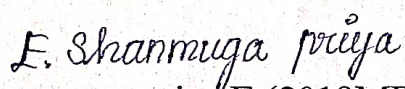
We do hereby declare that this work has been originally carried out by us under the guidance and supervision of **Mrs. B. Vethamary Jacqueline, M.Sc., M.Phil., B.Ed., PGDCA.** Assistant Professor, Department of Mathematics (SF), Fatima College (Autonomous), Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of **Bachelor of Science in Mathematics** and this work has not been submitted elsewhere for any other degree.

Date: 08-06-2022

Station: Madurai


Rajasri S (2019MB34)


Savitha R (2019MB38)


Shanmuga priya E (2019MB39)

HEAT EQUATION

**A Project Submitted to Madurai Kamaraj University in Partial Fulfillment
of the Requirement for the Award of Degree of
BACHELOR OF SCIENCE IN MATHEMATICS (SF)**

Submitted by

2019MB35 P.RAJESWARI

2019MB36 J.RENUKA

2019MB41 R.SINDHUJA

Under the Guidance of

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

**Assistant Professor Department of
Mathematics (SF)**



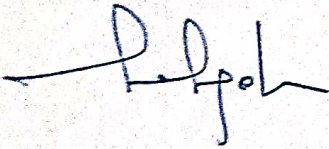
Fatima College [Autonomous]

**Re-Accredited with 'A++' Grade by NAAC (IV-Cycle) Mary
Land, Madurai - 625018, Tamil Nadu.**

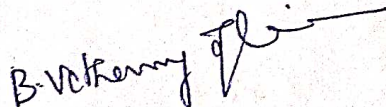
JUNE - 2022

BONAFIDE CERTIFICATE

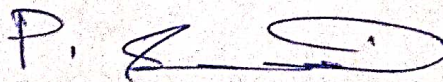
This is to certify that the project report entitled "HEAT EQUATION" by P.RAJESWARI (2019MB35), J.RENUKA (2019MB36) and R.SINDHUJA (2019MB41) in partial fulfilment of the requirements for the award of the Degree of Bachelor of Science in Mathematics (SF) submitted at Fatima College (Autonomous) under the guidance of Mrs. B. Vethamary Jacqueline.



Dr.E. Helena M.sc., M.Phil., PGDCA, Ph.D
Head Of The Department



Mrs. B. Vethamary Jacqueline M.sc., M.Phil., B.Ed, PGDCA
Project Guide

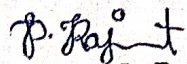


External Examiner

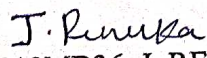
DECLARATION

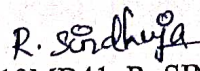
We do hereby declare that this project is bonafide record of work carried out by us under the guidance and supervision of **Mrs. B. Vethamary Jacqueline M.sc., M.Phil., B.Ed, PGDCA**, department of mathematics, Fatima college(autonomous) , Madurai affiliated to Madurai Kamaraj university, Madurai in partial fulfillment for the award of degree of **Bachelor of Science in Mathematics**.

Date: 08.06.2022


2019MB35 P. RAJESWARI

Station: Madurai


2019MB36 J. RENUKA


2019MB41 R. SINDHUJA

A STUDY ON TOTAL DOMINATION

A project submitted to Madurai Kamaraj University in partial fulfilment of the requirement
for the award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB42 Sowmiya S

2019MB43 Sriharisha S

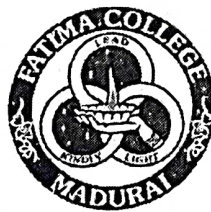
2019MB45 Subhathiga M

Under the Guidance of

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

Assistant Professor,

Department of Mathematics (SF).



Fatima College (Autonomous)

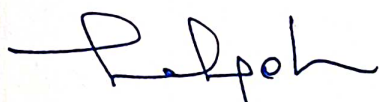
Re-Accredited with "A++" Grade by NAAC (Cycle4)

Mary Land, Madurai - 625018, Tamil Nadu.

JUNE - 2022.

BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON TOTAL DOMINATION" by Sowmiya S (2019MB42), Sriharisha.S (2019MB43), Subhathiga.M (2019MB45) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Mrs. J. Annaal Mercy.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D.



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

Head of the Department

Project Guide


8/6/22

External Examiner

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of **Mrs. J. Annaal Mercy, M.Sc., B.Ed., M.Phil., (Ph.D.), SET**, Assistant Professor, Department of Mathematics, Fatima College (Autonomous), Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfilment for the award of degree of Bachelor of Science in Mathematics.

Date: 08/06/2022

Station: Madurai

S. Sowmiya
Sowmiya S (2019MB42)

S. Sriharisha
Sriharisha S (2019MB43)

M. Subha
Subhathiga M (2019MB45)

A STUDY ON CONNECTED DOMINATION

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB46 Suvetha. P

2019MB48 Kiruthikajeyarani. T

2019MB49 Narthana. A

Under the Guidance of
Mrs.J.Annaal Mercy, M.Sc., B.Ed., M.Phil., (Ph.D.), SET.
Assistant Professor,
Department of Mathematics (SF).



Fatima College (Autonomous)

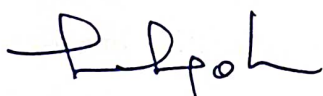
Re-Accredited with “A++” Grade by NAAC(Cycle4)

Mary Land, Madurai – 625018, Tamil Nadu.

June - 2022.

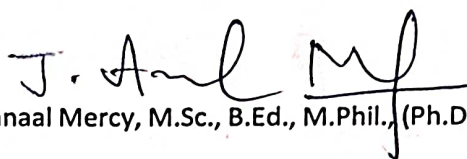
BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON CONNECTED DOMINATION" by SUVETHA P (2019MB46), KIRUTHIKAJEYARANI T (2019MB48) and NARTHANA A (2019MB49) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Mrs. J. Annaal Mercy.



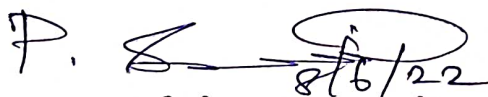
Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D .

Head of the Department



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

Project Guide



Signature of the External Examiner

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of **Mrs. J. Annaal Mercy, M.Sc., B.Ed., M.Phil., (Ph.D.), SET. Assistant Professor,** Department of Mathematics(SF), Fatima College (Autonomous), Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of **Bachelor of Science in Mathematics.**

Date: 08.06.2022

Station: Madurai

P. Suvetha

Suvetha. P (2019MB46)

T. Kiruthikajeyarani

Kiruthikajeyarani. T (2019MB48)

A. Narthana.

Narthana. A (2019MB49)

A STUDY ON GLOBAL DOMINATION

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

BACHELOR OF SCIENCE IN MATHEMATICS

2019MB50 Sharumathi. K

2019MB52 Akalya. A

2019MB53 Anitha. V

Under the Guidance of

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

Assistant Professor,

Department of Mathematics (SF).



Fatima College (Autonomous)

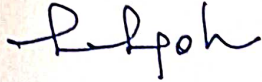
Re-Accredited with "A++" Grade by NAAC (Cycle4)

Mary Land, Madurai – 625018, Tamil Nadu.

JUNE - 2022.

BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON GLOBAL DOMINATION" by SHARUMATHI. K (2019MB50), AKALYA. A (2019MB52) and ANITHA.V (2019MB53) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Mrs. J. Annaal Mercy.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D .



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

Head of the Department

Project Guide



Signature of the External Examiner

DECLARATION

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

Date: 07/06/22

Station: Madurai

K. Sharumathi

Sharumathi. K (2019MB50)

A. Akalya

Akalya. A (2019MB52)

V. Anitha.

Anitha. V (2019MB53)

AN INTRODUCTORY STUDY ON SNARK GRAPH

A project submitted to Madurai Kamaraj University in Partial fulfillment of
the Requirement for the Award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

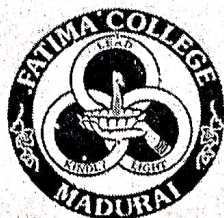
2019MB54	Athikathasneem.A
2019MB56	Chobana.M
2019MB58	Dharshini.A
2019MB59	Dhivya.M

Under the Guidance of

Dr. Mano, M.Sc., M.Phil, PGDCA, Ph.D

Assistant Professor,

Department of Mathematics (SF)



Fatima College (Autonomous)

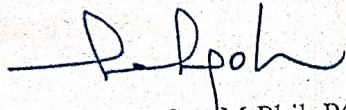
**Re-Accredited with "A++" Grade by NAAC(Cycle-
4)**

Mary Land, Madurai – 625018, Tamil Nadu.

June - 2022.

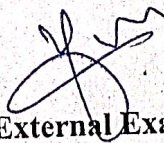
BONAFIDE CERTIFICATE

This is to certify that the project entitled "SNARK" by A.Athika thasneem(2019MB54) M.Chobana(2019MB56) A.Dharshini(2019MB58) M.Dhivya(2019MB59) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. E. Helena.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D
Head of the Department

Dr.K.Mano M.Sc.,M.Phil.,B.Ed.,SET,Ph.D.,
Project Guide



External Examiner

DECLARATION

We do hereby declare that this Project is a Bonafid record of work carried out by as under the Guidance and Supervision of Dr.K.Mano M.Sc.,M.Phil.,B.Ed.,SET,Ph.D., Assistant Professor Department of Mathematics (SF) Fatima College, Madurai Affiliated to Madurai Kamaraj University Madurai in Partial Fulfillment for the Award of Degree of Bachelor of Science in Mathematics.

Date:

Station: Madurai

Athika thasneem.A(2019MB54)

Chobana.M(2019MB56)

Dharshini.A(2019MB58)

Dhivya.M(2019MB59)

Athika thasneem
M. Chobana
A. Dharshini
M. Dhivya

AN INTRODUCTORY STUDY ON SNARK GRAPH

A project submitted to Madurai Kamaraj University in Partial fulfillment of
the Requirement for the Award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB54	Athikathasneem.A
2019MB56	Chobana.M
2019MB58	Dharshini.A
2019MB59	Dhivya.M

Under the Guidance of

Dr. Mano, M.Sc., M.Phil, PGDCA, Ph.D
Assistant Professor,
Department of Mathematics (SF)



Fatima College (Autonomous)

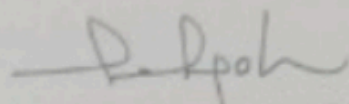
Re-Accredited with "A++" Grade by NAAC(Cycle-
4)

Mary Land, Madurai – 625018, Tamil Nadu.

June - 2022.

BONAFIDE CERTIFICATE

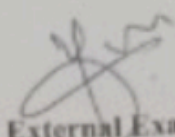
This is to certify that the project entitled "SNARK" by A.Athika thasneem(2019MB54) M.Chobana(2019MB56) A.Dharshini(2019MB58) M.Dhivya(2019MB59) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. E. Helena.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D
Head of the Department

Dr.K.Mano M.Sc.,M.Phil.,B.Ed.,SET,Ph.D.,

Project Guide



External Examiner

DECLARATION

We do hereby declare that this Project is a Bonafid record of work carried out by as under the Guidance and Supervision of Dr.K.Mano M.Sc.,M.Phil.,B.Ed.,SET,Ph.D., Assistant Professor Department of Mathematics (SF) Fatima College, Madurai Affiliated to Madurai Kamaraj University Madurai in Partial Fulfillment for the Award of Degree of Bachelor of Science in Mathematics.

Date:

Station: Madurai

Athika thasneem.A(2019MB54) *Athika thasneem*

Chobana.M(2019MB56) *M. Chobana*

Dharshini.A(2019MB58) *A. Dharshini*

Dhivya.M(2019MB59) *M. Dhivya*

A STUDY ON QUADRILATERALS AND POLYGONS

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB60	Durga. P
2019MB61	Durgadevi. M
2019MB62	Haripriyanga. C
2019MB64	Hemadevi. D

Under the Guidance of

Dr. K. Mano, M.Sc., M.Phil., B. Ed., SET., Ph.D.

**Assistant Professor
Department of Statistics (SF)**



Fatima College (Autonomous)

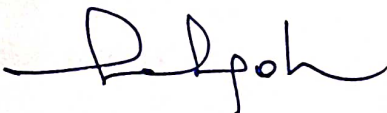
Re-Accredited with "A++" Grade by NAAC(Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu.

April – 2022(June).

BONAFIDE CERTIFICATE

This is to certify that the project entitled "**A STUDY ON QUADRILATERALS AND POLYGONS**" by DURGA .P(2019MB60) DURGADEVI .M(2019MB61) HARI PRIYANGA .C(2019MB62) HEMADEVI .D(2019MB64) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. K. Mano.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D

Head of the Department

Dr. K. Mano, M.Sc., M.Phil., B. Ed., SET., Ph.D.

Project Guide


Examiner

DECLARATION

We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of Assistant professor **Dr. K. Mano, M.Sc., M.Phil., B. Ed., SET., Ph.D.** ,Department of Statistics(SF) , Fatima College ,Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment of the award of degree of **Bachelor of science in Mathematics.**

Date:

Station: Madurai

Durga .P (2019MB60)

Durgadevi. M (2019MB61)

Hari Priyanga. C (2019MB62)

Hemadevi .D(2019MB64)

AN STUDY ON DIRECTED GRAPHS IN GRAPH THEORY

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment

of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB67 Jayalakshmi J

2019MB68 Jeya Varshini M

2019MB69 Kalpana M

Under the Guidance of

Dr. M. Rasi, M.Sc., M.Phil, Ph.D, SET
Assistant Professor
Department of Mathematics (SF)



Fatima College (Autonomous)

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

Mary Land, Madurai – 625018, Tamil Nadu.

June - 2022.

BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON DIRECTED GRAPHS IN GRAPH THEORY" by JAYALAKSHMI J (2019MB67), JIYA VARSHINI M (2019MB68) and KALPANA M (2019MB69) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. M. Rasi.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D

Head of the Department



Dr. M. Rasi, M.Sc., M.Phil, Ph.D, SET.

Project Guide



External Examiner

DECLARATION

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

Date: 07-06-2022

Station: Madurai

J. Jayalakshmi

Jayalakshmi J (2019MB67)

M. Jeyavarshini

Jeya Varshini M (2019MB68)

M. Kalpana

Kalpana M (2019MB69)

AN STUDY ON HOMOTOPY ANALYSIS METHOD IN SOLVING SYSTEM OF NONLINEAR DIFFERENTIAL EQUATIONS

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment

of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

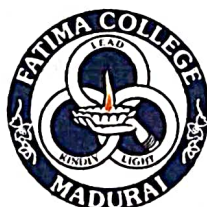
2019MB70 Karthika B

2019MB71 Kavi Dhaarani S

2019MB72 Kaviya M

Under the Guidance of

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



Fatima College (Autonomous)

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

Mary Land, Madurai – 625018, Tamil Nadu.

June - 2022.

BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON HOMOTOPY ANALYSIS METHOD IN SOLVING A SYSTEM OF NONLINEAR DIFFERENTIAL EQUATIONS" by KARTHIKA B (2019MB70), KAVIDHAARANI S (2019MB71) and KAVIYA M (2019MB72) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. M. Rasi.



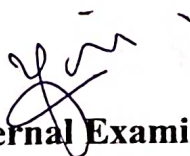
Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D

Head of the Department



Dr. M. Rasi, M.Sc., M.Phil, Ph.D, SET.

Project Guide



External Examiner

DECLARATION

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

Date: 07 - 06 - 2022

Station: Madurai

B. Karthika
Karthika B (2019MB70)

S. Kavidhaarani
Kavidhaarani S (2019MB71)

M. Kaviya
Kaviya M (2019MB72)

AN STUDY ON DOMINATION IN GRAPH THEORY

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment

of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

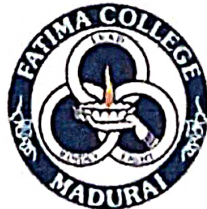
2019MB73 Kavya P

2019MB74 Keerthana G

2019MB75 Krishna Priya K

Under the Guidance of

Dr. M. Rasi, M.Sc., M.Phil, Ph.D, SET
Assistant Professor
Department of Mathematics (SF)



Fatima College (Autonomous)

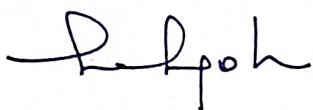
Re-Accredited with "A++" Grade by NAAC(Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu.

June - 2022.

BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON DOMINATION IN GRAPH THEORY" by KAVYA P (2019MB73), KEERTHANA G (2019MB74) and KRISHNA PRIYA K (2019MB75) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Dr. M. Rasi.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D

Head of the Department



Dr. M. Rasi, M.Sc., M.Phil, Ph.D, SET.

Project Guide



External Examiner

DECLARATION

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

Date: 07.06.2022

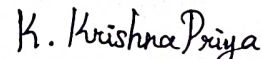
Station: Madurai



Kavya P (2019MB73)



Keerthana G (2019MB74)



Krishna Priya K (2019MB75)

AN INTRODUCTORY STUDY ON AUTOMATA THEORY

A Project Submitted to Madurai Kamaraj University in Partial
fulfillment of the Requirement for the Award of the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

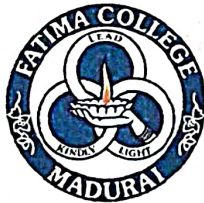
2019MB76 Lavanya. M

2019MB77 Mahalakshmi. K

2019MB78 Monika. P

Under the Guidance of

Mrs. P .Dhanapriya, M.Sc., M.Phil., SET
Assistant Professor Department of Statistics (SF)



Fatima College (Autonomous)

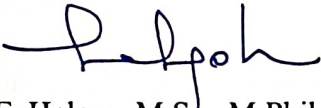
Re-Accredited with “A++” Grade by NAAC(Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu.

April-2022(June)

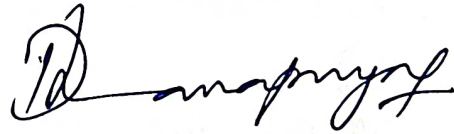
BONAFIDE CERTIFICATE

This is to certify that the project entitled “**AN INTRODUCTORY STUDY ON AUTOMATA THEORY**” by LAVANYA.M(2019MB76), MAHALAKSHMI.K(2019MB77) and MONIKA.P (2019MB78) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Mrs.P.Dhanapriya.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D

Head of the Department



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

Project Guide



External Examiner

DECLARATION

We do hereby declare that this project is a bonafide record of work carried out

By me under the guidance and supervision of Mrs. P. Dhanapriya, M.Sc., M.Phil.,

SET Assistant Professor, Department of Statistics, Fatima College (Autonomous),

Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for

The award of degree of Bachelor of Science in Mathematics.

Date: 7.06.2022

Station: Madurai



Lavanya.M (2019MB76)



Mahalakshmi.K (2019MB77)

AN INTRODUCTORY STUDY ON FORMAL LANGUAGES

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB79 Muthulakshmi K

2019MB80 Namitha K

2019MB81 Nithyalakshmi R

Under the Guidance of

Mrs. P. Dhanapriya, M.Sc., M.Phil., SET.
Assistant Professor
Department of Statistics (SF)



Fatima College (Autonomous)

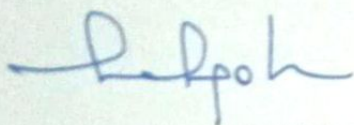
Re-Accredited with "A++" Grade by NAAC(Cycle-4)

Mary Land, Madurai – 625018, Tamil Nadu.

April – 2022(June).

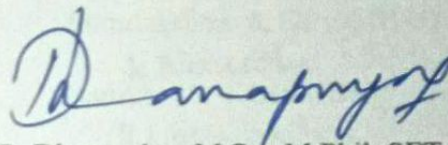
BONAFIDE CERTIFICATE

This is to certify that the project entitled "**AN INTRODUCTORY STUDY ON FORMAL LANGUAGES**" by MUTULAKSHMI K (2019MB79), NAMITHA K (2019MB80), NITHYALAKSHMI R (2019MB80) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Mrs. P. Dhanapriya.



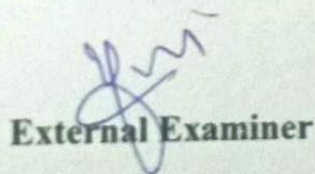
Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D

Head of the Department



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

Project Guide



External Examiner

DECLARATION

We do hereby declare that this project is a bonafide record of work carried out by me under the guidance and supervision of **Mrs. P. DHANAPRIYA, M.Sc., M.Phil., SET.,** Assistant Professor Department of Statistics, Fatima College (Autonomous), Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of **Bachelor of Science in Mathematics.**

Date: 07.06.2022

Station: Madurai

K. Muthulakshmi
Muthulakshmi K (2019MB79)

K. Namitha
Namitha K (2019MB80)

R. Nithyalakshmi
Nithyalakshmi R (2019MB81)

AN INTRODUCTORY STUDY ON FRACTALS

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB82 Nivetha R

2019MB83 Priyadharshini P

2019MB84 Priyadharshini T

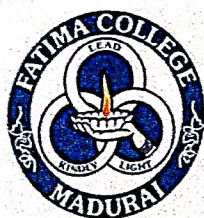
2019MB85 Priyanka M

Under the Guidance of

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

Assistant Professor

Department of Statistics (SF)



FatimaCollege(Autonomous)

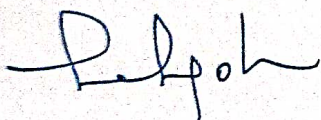
Re-Accredited with "A++" Grade by NAAC (Cycle-4)

Mary Land, Madurai- 625018, Tamil Nadu.

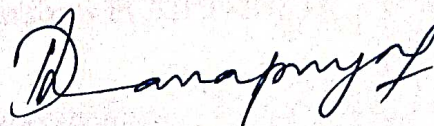
April-2022(June).

BONAFIDE CERTIFICATE

This is to certify that the project entitled "AN INTRODUCTORY STUDY ON FRACTALS" by NIVETHA R (2019MB82), PRIYADHARSHINI P (2019MB83), PRIYADHARSHINI T (2019MB84) and PRIYANKA M (2019MB85) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Mrs. P. Dhanapriya.

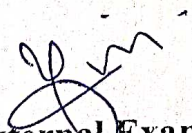


Dr.E. Helena, M.Sc., M.Phil., PGDCA, Ph.D Mrs. P. Dhanapriya, M.Sc., M.Phil., SET.



Head of the Department

Project Guide



External Examiner

DECLARATION

We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of Mrs. P. Dhanapriya M.Sc., M.Phil., SET, Assistant professor, Department of Statistics(SF), Fatima College, Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of **Bachelor of Science in Mathematics**.

Date: 07.06.2022

Station: Madurai

Nivetha R

Nivetha R (2019MB82)

Priyadharshini P

Priyadharshini P(2019MB83)

Priyadharshini T

Priyadharshini T(2019MB84)

M. Priyanka

Priyanka M(2019MB85)

A STUDY ON SUM OF SQUARES

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB89 Rendhu M

2019MB90 Renuga A

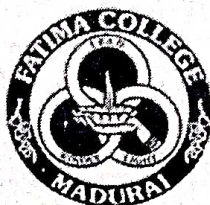
2019MB91 Saranya S

Under the Guidance of

Ms. P. Muthumeena, M. Sc., PGDCA., SET., B.Ed.,

Assistant Professor

Department of Mathematics (SF)



Fatima College (Autonomous)

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

College with Potential for Excellence (2004-2019)

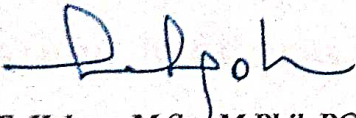
74th Rank in India Ranking 2020 (NIRF) by MHRD

Mary Land, Madurai – 625018, Tamil Nadu.

June - 2022.

BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON SUM OF SQUARES" by RENDHU M (2019MB89), RENUGA A (2019MB90) and SARANYA S (2019MB91) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Ms. P. Muthumeena.

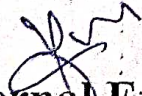


Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D

Head of the Department

Ms. Muthumeena, M.Sc., PGDCA., SET., B.Ed.

Project Guide



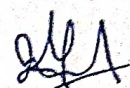
External Examiner

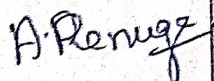
DECLARATION

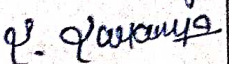
We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of Ms. P. Muthumeena Assistant Professor, Department of Mathematics, Fatima College (Autonomous), Madurai in partial fulfilment for the award of degree of Bachelor of Science in Mathematics.

Date: 07/06/2022

Station: Madurai

Rendhu M (2019MB89) 

Renuga A (2019MB90) 

Saranya S (2019MB91) 

A STUDY ON PERFECT NUMBERS

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment

of the Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB92 Shanmuga Prabha P

2019MB93 Shanmugapriya A

2019MB94 Shenbagadivya P

2019MB95 Sneka G

Under the Guidance of

Ms. P. Muthumeena, M. Sc., PGDCA., SET., B.Ed.,

Assistant Professor

Department of Mathematics



Fatima College [Autonomous]

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

College for Excellence

74th Rank in India Ranking by MHRD

Mary Land, Madurai - 625018, Tamil Nadu.

JUNE - 2022

BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON PERFECT NUMBERS" by P.SHANMUGAPRABHA (2019MB92) , A.SHANMUGAPRIYA (2019MB93) , P.SHENBAGADIVYA (2019MB94) , G.SNEKA (2019MB95) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Ms. P. Muthumeena.



Dr. E. Helena, M.Sc., M.Phil., PGDCA, Ph.D
B.ED.

Head of the Department

Ms. P. Muthumeena, M.Sc., PGDCA., SET.,

Project Guide



External Examiner

DECLARATION

We do hereby declare that this project is a bonafide record of work originally carried out by us under the guidance and supervision of Mrs.P.Muthumeena, M.Sc., PGDCA.,SET.,B.Ed., Assistant professor, Department of Mathematics, Fatima College (Autonomous), Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 07.06.2022

Station: Madurai

P. Shanmuga Prabha
Shanmuga Prabha.P (2019MB92).

A. Shanmugapriya.
Shanmugapriya.A (2019MB93).

P. Shenbagadivya.
Shenbagadivya.P (2019MB94).

Sneka.G
Sneka.G (2019MB95).

A STUDY ON DIOPHANTINE EQUATIONS

**A Project Submitted to Madurai Kamaraj University in Partial Fulfillment
of the Requirement for the Award of the Degree of
BACHELOR OF SCIENCE IN MATHEMATICS**

Submitted by

2019MB86 S.Priyatharshini

2019MB87 R.Ramya devi

2019MB88 S.Ranjeetha

Under the Guidance of

Ms.P.Muthumeena M.Sc.,PGDCA.,SET.,B.Ed.,

Assistant Professor

Department of Mathematics (SF)



Fatima College (Autonomous)

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

College with Potential for Excellence

74th Rank in India Ranking 2020 (NIRF) by MHRD

Mary Land, Madurai – 625018, Tamil Nadu.

JUNE- 2022.

BONAFIDE CERTIFICATE

This is to certify that the project entitled "A STUDY ON DIOPHANTINE EQUATIONS" by S.PRIYATHARSHINI (2019MB86), R.RAMYA DEVI (2019MB87) and S.RANJEETHA (2019MB88) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Ms.P.Muthumeena.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D

Head of the Department

Ms.P.Muthumeena M.Sc.,PGDCA.,SET.,R.Ed

Project Guide



External Examiner

DECLARATION

We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of **MS.P. MUTHUMEENA, M.Sc., PGDCA., SET., B.Ed** Assistant Professor, Department of Mathematics (SP), Fatima College , Madurai affilietet to Madurai Kamaraj University , Madurai in partial fulfilment for the award of degree of **Bachelor of Science in Mathematics.**

Date: 07.06.2022

place: Madurai

S. Priyatharshini
S.Priyatharshini (2019MB86)

R.Ramya Devi
R.Ramya Devi(2019MB87)

S. Ranjeetha
S.Ranjeetha(2019MB88)

FUZZY DECISION MAKING USING OWA OPERATOR

A Project Submitted to Madurai Kamaraj University in Partial Fulfillment

Of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB96 M. SOWMIYA

2019MB97 C. SOWMYA

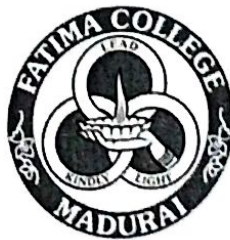
2019MB98 N.B. SULEKHA RATHNAA

Under the Guidance of

Miss. J. Joseline charisma, M. Sc., M.Phil., PGDCA., (Ph. D)

Assistant Professor

Department of Mathematics



Fatima College (Autonomous)

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

Mary Land, Madurai - 625018, Tamil Nadu.

JUNE - 2022

BONAFIDE CERTIFICATE

This is to certify that the project entitled **“FUZZY DECISION MAKING USING OWA OPERATOR”** by **M.SOWMIYA (2019MB96), C.SOWMYA (2019MB97), N.B. SULEKHA RATHNAA (2019MB98)**, in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of **MISS. J. JOSELINE CHARISMA**.



Dr. E. Helena, M.Sc., M.Phil., PGDCA, Ph.D

Head of the Department



Miss J. Joseline charisma M.Sc.,
M.Phil., PGDCA,(Ph.D)

Project Guide



External Examiner

DECLARATION

We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of **Miss. J. Joseline Charisma M.Sc., M.Phil., PGDCA., (Ph. D).**, Assistant Professor, Department of Mathematics (SF), Fatima College, Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of **Bachelor of Science in Mathematics**.

M.SOWMIYA (2019MB96) *M. Sowmiya*

C.SOWMYA (2019MB96) *C. Sowmya*

N.B.SULEKHA RATHNAA (2019MB98)

N. B. Sulekha Rathnaa

DATE: *7.06.22*

PLACE: Madurai

FUZZY DECISION MAKING USING CWA OPERATOR

A Project Submitted to Madurai Kamaraj University in Partial

Fulfillment of the Requirement for the Award of the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

2019MB99 Swathy S

2019MB100 Nagajothi M

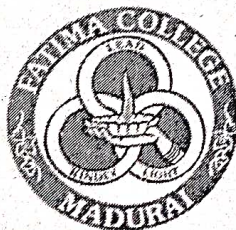
2019MB101 Sathiyasuvathi N

Under the Guidance of

Ms. J.Joseline charismaz, M.Sc., M. Phil, PGDCA, (Ph. D)

Assistant Professor

Department of Mathematics(SF)



Fatima College(Autonomous)

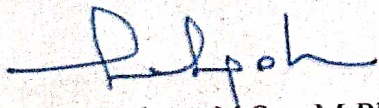
Re-Accredited with "A++" Grade by NAAC (Cycle -

IV) Mary Land, Madurai- 625018, Tamil Nadu.

June -2022

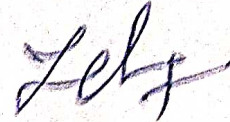
BONAFIDE CERTIFICATE

This is to certify that the project entitled "FUZZY DECISION MAKING USING CWA OPERATOR" by SWATHY S (2019MB99), NAGAJOTHI M (2019MB109) and SATHIYASUVATHI N (2019MB101) in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Mathematics submitted at Fatima College (Autonomous) under the guidance of Ms. J. Joseline charisma.



Dr. E. Helena, M.Sc., M.Phil, PGDCA, Ph.D

Head of the Department



J. Joseline charisma M.Sc., M.Phil.,
PGDCA (Ph.D)

Project Guide



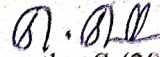
External Examiner

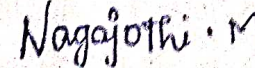
DECLARATION

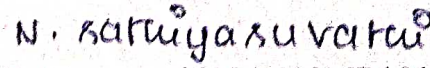
We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of Miss. J. Joseline charisma M.Sc., M. Phil., PGDCA., (Ph. D) Assistant Professor, Department of Mathematics (SF), Fatima College (Autonomous), Madurai affiliated to Madurai Kamaraj University, Madurai in partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

Date: 07-06-2022

Station: Madurai


Swathy S (2019MB99)


Nagajothi M (2019MB100)


Sathiyasuvathi N (2019MB101)

FUZZY DECISION MAKING USING OWG OPERATOR

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

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

M.ABINAYA (2019MB102)

R.SARANYA (2019MB103)

B.JAYASHREE (2019MB104)

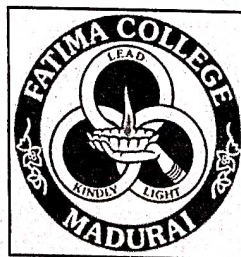
K. HARSHINI (2019MB105)

Under the Guidance of

Miss.J. Joseline charisma, M. Sc., M. Phil, PGDCA, (Ph.D)

Assistant Professor

Department of Mathematics (SF)



Fatima College (Autonomous)

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

Mary Land, Madurai - 625018, Tamil Nadu.

June - 2022

ACKNOWLEDGEMENT

times our own light goes off and we are rekindled by the spark of others. Some of the Persons who guided us and nurtured us are mentioned here.

We sincerely thank the almighty God for giving us strength and good health to complete this project successfully.

We express our heartfelt thanks to our principal Dr. Sr. G. CELINE SATHAYAM MARY for giving us the opportunity to be part of FATIMA family, thereby being a milestone in our path towards success.

We whole heartedly extend our warm gratitude to our Head of the department Dr. E. Helena M. Sc., M. Phil., DCA, Ph. D for her valuable suggestion and kind guidance through this project.

It is a great pleasure in thanking our project guide Miss. J. Joseline charisma M. Sc., MPhil, PGDCA, (Ph.D) project supervisor and Assistant professor of our department, who helps us a lot to complete our project successfully.

We owe a special gratitude to our family and friends for their motivation and support throughout the period of study.

We heart fully thank all who have contributed directly and indirectly in bringing up this project.

DATE : 07.06.2022

PLACE : MADURAI

DECLARATION

We do hereby declare that this project is a bonafide record of work carried out by us under the guidance and supervision of Miss. J. Joseline Charisma M.Sc., M.Phil., PGDCA., (Ph. D)., Assistant Professor, Department of Mathematics (SF), Fatima College, Madurai affiliated to Madurai Kamaraj University, Madurai for partial fulfillment for the award of degree of Bachelor of Science in Mathematics.

DATE: 07.06.2022

M. Abinaya
M.ABINAYA (2019MB102)

R. Saranya
R.SARANYA (2019MB103)

Jayashree B
B.JAYASHREE (2019MB104)

Harshini K
K. HARSHINI (2019MB105)

PLACE: MADURAI