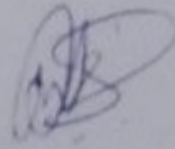


## CERTIFICATE

This is to certify that the dissertation entitled "MATHEMATICAL ASPECTS OF KARAṆAPADDHATI" is the work done by Arathy P.C., MSc Mathematics, Department of Mathematics, Al Ameen College, Edathala, as a review of literature of the work entitled "KARAṆAPADDHATI" of Dr. Venketeswara Pai R, Prof. K. Ramasubramanian, Prof. M.S. Sriram and Prof. M.D. Srinivas under my supervision and guidance and submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the award of Degree of MSc Mathematics.

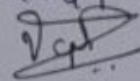


Dr. Venketeswara Pai R  
Associate Professor  
Department of Humanities and  
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Indian Institute of Science  
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Place: Edathala

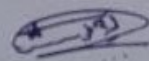
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Examiner 1.



VINITHA.T

Examiner 2.



Rousha T.R

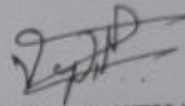
## CERTIFICATE

This is to certify that Ms.BENCY BENNY, has undergone the M.Sc. degree course at Al Ameen College Edathala Aluva, during the period 2019-2021, and has undertaken the dissertation **MODULAR FORMS AND POINCARÉ SERIES** for the award of the degree of Master of Science in Mathematics. It is a bonafide record of research carried out by her under the guidance of RINUSHA T R, Assistant Professor, Al-Ameen College, Edathala, Aluva and SREEJITH M M (Co-guide), Research scholar, Kerala School of Mathematics. The contents of this dissertation, in full or in parts, have not been submitted to any other Institute or University for the award of any degree or diploma.



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**Mr. SREEJITH M M**  
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Place : Edathala

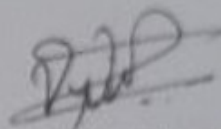
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Date: 16/8/21



Dr. Vinitha T

Supervising Teacher

# DYNAMIC PROGRAMMING

Dissertation submitted to

**MAHATMA GANDHI UNIVERSITY  
KOTTAYAM**

In partial fulfillment of the requirements for the award of degree of  
**MASTER OF SCIENCE IN MATHEMATICS**

By

JISMIYA JAMAL

[Reg No:190011015435]

Under the guidance of RINUSHA TR

Assistant Professor

Department of mathematics

**AL AMEEN COLLEGE, EDATHALA, ALUVA**



*[Handwritten signature]*  
16/08/2024  
VINDHANA-T  
*[Handwritten signature]*  
Soni Sebastian T.

**DEPARTMENT OF MATHEMATICS  
AL AMEEN COLLEGE, EDATHALA, ALUVA**

**2019-2021**

# **FRACTAL GEOMETRY**

Dissertation submitted to  
**MAHATMA GANDHI UNIVERSITY**  
**KOTTAYAM** In partial fulfillment of the requirements for the  
award of degree of

## **MASTER OF SCIENCE IN (MATHEMATICS)**

**HASEENA C.P**  
Reg No :190011015434

Under the guidance of  
**RILGHA KO**  
Asst. Professor  
Department of Mathematics  
Al Ameen College, Edathala, Aluva



**DEPARTMENT OF MATHEMATICS**  
Al Ameen College, Edathala, Aluva  
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VITHA-T

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## CERTIFICATE

This is to certify that the dissertation entitled **KNOT THEORY** is a bonafide record of work done by **EHUSANA K B** MSc mathematics , Department of mathematics, Al Ameen college Edathala, under our supervision and submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the award of Degree of Msc Mathematics.

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This is certify that the dissertation entitled "ELECTRIC NETWORK" being submitted by **Anusha K B**, Msc Mathematics, Department of Mathematics, Al-Ameen College, Edathala under our supervision and submitted to Mahatma Gandhi University, Kottayam, in Partial fulfillment of the award of Degree of MSc Mathematics.


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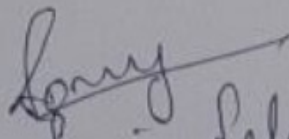
Geethika P.R.

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VINITHA

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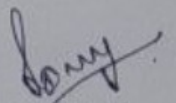
  
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This is to certify that the dissertation entitled "INTRODUCTION TO C\* ALGEBRA" is a bonafide record of work done by HARITHA M.H, MSc Mathematics, Department of Mathematics, Al Ameen College, Edathala, under my supervision and submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the award of Degree of MSc Mathematics.

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Date: 16/8/21

  
Prof. SONY SEBASTIAN

Supervising Teacher



## CERTIFICATE

This is to certify that the dissertation entitled "MARKOV CHAIN" is an authentic record of work done by **DHANYA.S.**, MSc Mathematics, Department of Mathematics, Al Ameen College, Edathala under the guidance and supervision of **Prof .Soumya K G** Assistant Professor, Department of Mathematics, Al Ameen College, Edathala. She is permitted to submit the project report

Place:Edathala


  
DR.VINITHA T

Date: 13/8/2021

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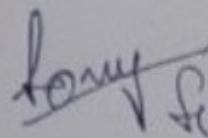
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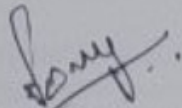


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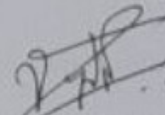
  
Soumya K G

## CERTIFICATE

This is to certify that Ms. ATHILA N P has undergone the M.Sc. degree course at Al Ameen College Edathala Aluva, during the period 2019-2021, and has undertaken the dissertation "MODULAR FORMS AND EISENSTEIN SERIES" for the award of the degree of Master of Science in Mathematics. It is a bonafide record of research carried out by her under the guidance of Mr. SONY SEBASTIAN, Associate Professor, Al-Ameen College, Edathala, Aluva and Mr. SREEJITH M M (Co-guide), Research scholar, Kerala School of Mathematics. The contents of this dissertation, in full or in parts, have not been submitted to any other Institute or University for the award of any degree or diploma.



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Department of Mathematics,  
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**Mr. SREEJITH M M**  
Co-Guide  
Research Scholar,  
Kerala School of Mathematics,  
Kozhikode.



Place : Edathala  
Date : 13-08-2021

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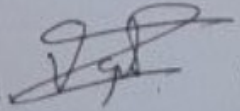
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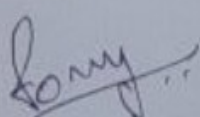
Geethika P.R

Guide

Place: Edathala

Date: 18/8/2021

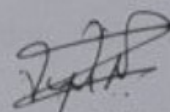
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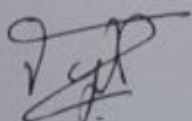
Dr. Vinitha T

Date:

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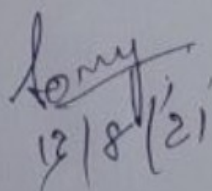
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VINITHA.T

Examiner 2:



12/8/21

Louis Sebastian T

