

# **AUTOMATA THEORY**

*Dissertation submitted to*

**University of Calicut**

*in partial fulfilment of the requirement for the award of*

**BACHELORS OF DEGREE**

*in*

**MATHEMATICS**

*Submitted by*

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**MALENA K.T(CRARSMT014)**

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**Under the guidance of**

**Dr. JISMY JOSEPH**

**DEPARTMENT OF MATHEMATICS**

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**2017 – 2020**

## CERTIFICATE

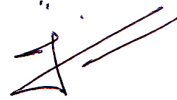
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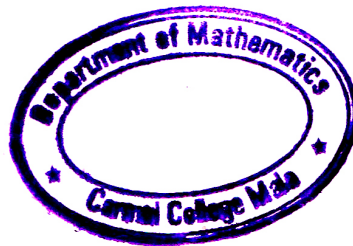
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# **INTRODUCTION TO CODING THEORY**

*Dissertation submitted to*

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*in*

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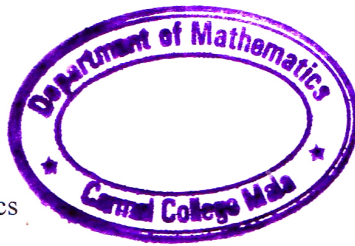
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# COMBINATORIAL DESIGNS

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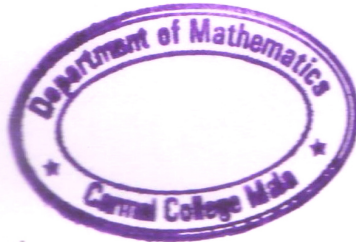
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# CONTINUED FRACTIONS

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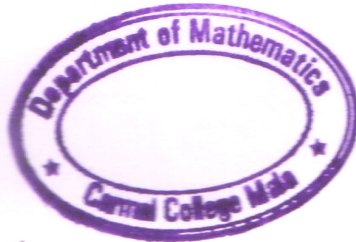
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# **FRACTAL GEOMETRY AND IT'S APPLICATIONS**

Project report submitted to the University of Calicut in partial fulfillment of  
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**IN**

**MATHEMATICS**

**BY**

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Athira K D (CRARSMT031)

Glency Davis (CRARSMT034)

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Mahitha U S (CRARSMT037)



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This is to certify that the dissertation entitled "FRACTAL GEOMETRY AND ITS APPLICATIONS" is a bona fide record of work carried out by Ardra Pradeep, Athira K.D, Glency Davis, Gloria Paul and Mahitha U.S of B.Sc Mathematics at Carmel College Mala submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirement for the degree of Bachelor of Science in Mathematics.



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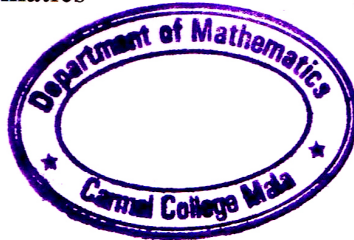
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# GRAPH COLOURING

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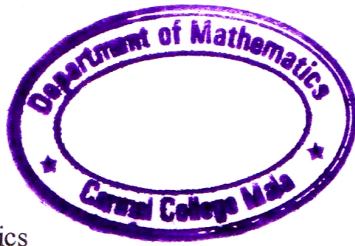
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# INNER PRODUCT SPACES

*Dissertation submitted to*

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# **INTRODUCTION TO METRIC AND TOPOLOGICAL SPACES**

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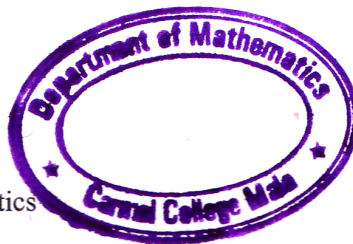
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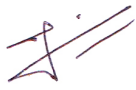


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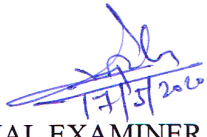
This is to certify that this project entitled “**INTRODUCTION TO METRIC AND TOPOLOGICAL SPACES**” submitted by **KRISHNENDHU HARI, SONA V A, SRUTHY E B, JOVINA VARGHESE, SANDRA JOJO** in partial fulfilment of the requirements for the B.Sc. Degree in Mathematics to the Calicut University is a bonafide record of the studies undertaken by them under my supervision at the Department of Mathematics, Carmel College, Mala during 2017-2020. This project report has not been submitted for any other degree elsewhere.

  
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# **PARTIAL ORDERS AND LATTICE**

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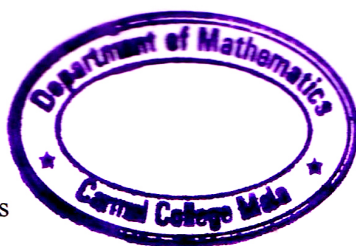
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