



RESEARCH AND POST GRADUATE
DEPARTMENT OF MATHEMATICS,
ST. THOMAS COLLEGE, PALAI
ARUNAPURAM-686574, KERALA
Phone: 04822 212317, Fax: 91 4822216313

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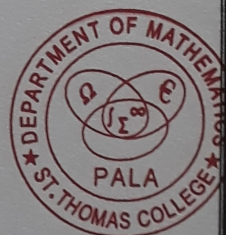
This is to certify that the dissertation entitled "A study on **MATROID THEORY**" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Miss. ARYA RAJ** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

Place: Pala
Date: 28/ 03/ 2019

Smt. Tinjumol Mathew,
Assistant Professor,
Department of Mathematics,
St. Thomas College, Palai

Forwarded by:

Prof. Thankachan Augustine
Head of the Department of Mathematics,
St. Thomas College, Palai.



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This is to certify that the dissertation entitled "A study on ALGEBRAIC GRAPH THEORY" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by Miss. C K ANJALI during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

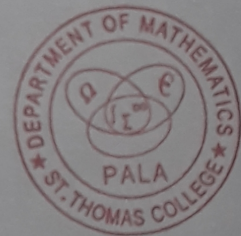
Dr. Bobby P Mathew
Assistant Professor,
Department of Mathematics,
St. Thomas College, Palai.

Place: Pala
Date: 28/ 03/ 2019

Forwarded by:

Thankachan

Prof. Thankachan Augustine
Head of the Department of Mathematics,
St. Thomas College, Palai.



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This is to certify that the dissertation entitled "A study on **CECH CLOSURE SPACE** " submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Miss. CHRISTEENA JOSE** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

Raj Mathew

Dr . Raj Mathew

Associate Professor

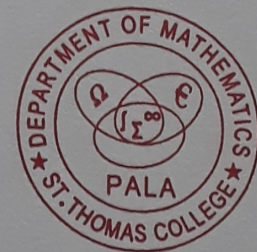
Department of Mathematics,
St. Thomas College, Palai

Place: Pala

Date: 28/ 03/ 2019

Forwarded by: *Thankachan*

Prof. Thankachan Augustine
Head of the Department of Mathematics,
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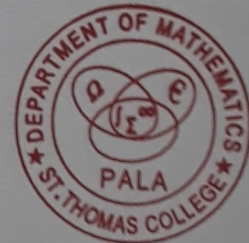
This is to certify that the dissertation entitled "A STUDY ON SEMIGROUP THEORY" submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Miss. JESLY JOSE** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

Place: Pala
Date: 28/ 03/ 2019

Raj Mathew
Dr. Raj Mathew,
Assistant Professor,
Department of Mathematics,
St. Thomas College, Palai

Forwarded by:

Thankachan
Prof. Thankachan Augustine
Head of the Department of Mathematics,
St. Thomas College, Palai.



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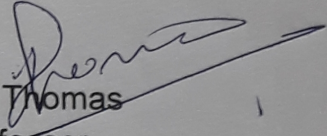


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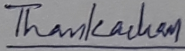
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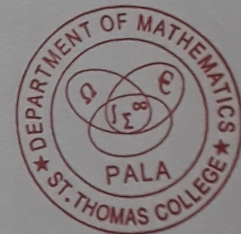
This is to certify that the dissertation entitled "A study on **PARACOMPACTNESS**" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Miss. JITHA JAIC** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

Place: Pala
Date: 28/03/2019


Prof. Tommy Thomas
Associate Professor
Department of Mathematics
St. Thomas College, Palai.

Forwarded by:


Prof. Thankachan Augustine
Associate Professor & Head
Department of Mathematics
St. Thomas College, Palai
Head of the Dept:
MATHEMATICS
St. Thomas College, Palai



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This is to certify that the dissertation entitled “**ALGORITHMS IN GRAPH THEORY AND ITS APPLICATIONS**” submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Miss. MEGHA THOMAS** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

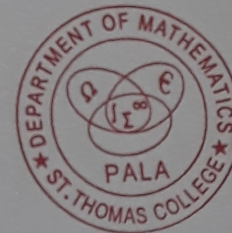
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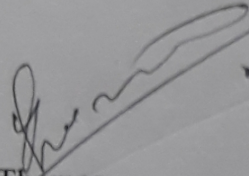


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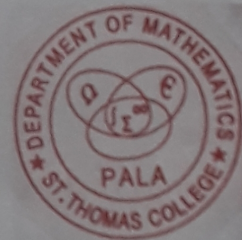
This is to certify that the dissertation entitled "A study on **DOMINATION**" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Miss.MERIN JACOB** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

Place: Pala
Date: 28/ 03/ 2019


Prof. Tommy Thomas,
Associate Professor,
Department of Mathematics,
St. Thomas College, Palai

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Prof. Thankachan Augustine
Head of the Department of Mathematics,
St. Thomas College, Palai.

Thankachan
Head of the Dept:
MATHEMATICS
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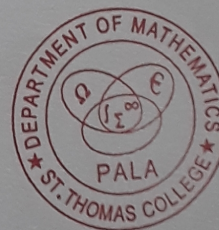
This is to certify that the dissertation entitled "A study on SPECTRAL GRAPH THEORY" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Miss. NITHA ANN SEBASTIAN** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

Place: Pala
Date: 28/ 03/ 2019

Thankachan
Prof. Thankachan Augustine,
Associate Professor & Head,
Department of Mathematics,
St. Thomas College, Palai

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Thankachan
Prof. Thankachan Augustine
Head of the Department of Mathematics,
St. Thomas College, Palai.



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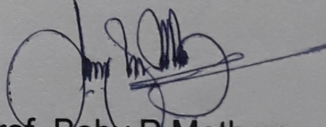


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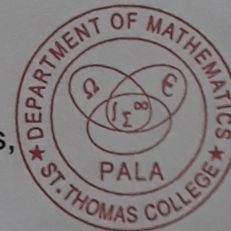
This is to certify that the dissertation entitled "**FRACTIONAL MATCHING**" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Ms. ROSE MARIA ANTONY** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

Place: Pala
Date: 28/ 03/ 2019


Prof. Bobby P Mathew,
Assistant Professor,
Department of Mathematics,
St. Thomas College, Palai

Forwarded by:

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Prof. Thankachan Augustine
Head of the Department of Mathematics,
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This is to certify that the dissertation entitled "A study on **FUZZY GRAPHS**" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Miss.SONU P S** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

Prof. Tinjumol Mathew,
Assistant Professor,
Department of Mathematics,
St. Thomas College, Palai

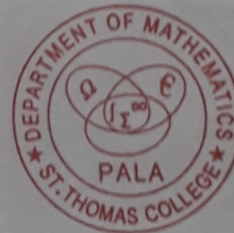
Place: Pala

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Forwarded by:

Prof. Thankachan Augustine
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St. Thomas College, Palai.

Thankachan
Head of the Dept:
MATHEMATICS
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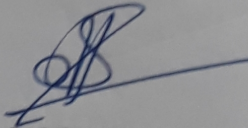
Date:

Dr. SUNIL C MATHEW
Associate Professor
Department of Mathematics
St. Thomas College Palai
Arunapuram P. O. – 686 574
Kerala, India.

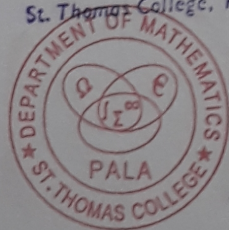
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This is to certify that the dissertation entitled **A Study on Topological Vector Spaces** is a record of bona fide work carried out by **Mr. Sreehari E S** under my supervision and guidance in the Department of Mathematics, St. Thomas College Palai during 2017-2019 towards the partial fulfillment of the requirements of Master of Science Degree in Mathematics by Mahatma Gandhi University, Kottayam.

Arunapuram
30/03/2019


Sunil C Mathew
(Supervising Guide)

Forwarded by *Thankachan Augustine*
Head of the Deptt
MATHEMATICS
St. Thomas College, Palai





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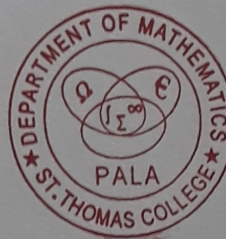
This is to certify that the dissertation entitled "A study on **HYPERGRAPH**" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirements for the award of the Degree of Master of Science in Mathematics is a record of original work done by **Miss. VISHNUPRIYA V R** during the period of her study in the Department of Mathematics, St. Thomas College Palai under my supervision and guidance.

Place: Pala
Date: 28/ 03/ 2019

Thankachan
Prof. Thankachan Augustine,
Associate Professor & Head,
Department of Mathematics,
St. Thomas College, Palai

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Thankachan
Prof. Thankachan Augustine
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