

THE APPLICATIONS OF CALCULUS IN CARDIOLOGY

*A Dissertation submitted to Mahatma Gandhi University in partial fulfilment of the
requirements for the Degree of*

BACHELOR OF SCIENCE IN MATHEMATICS

SUBMITTED BY:

ANITA ABRAHAM REG NO: 200021032314

ANJALIKRISHNA V REG NO: 200021032315

ANJITHA MATHEWS REG NO: 200021032316



UNDER THE GUIDANCE OF
DR.SR. SHEENA MATHEW

CBCS SEMESTER VI

DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA

MARCH 2023



**CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE PALA
ARUNAPURAM**

CERTIFICATE

I do hereby certify that, the dissertation entitled " **THE APPLICATIONS OF MATHEMATICS IN CARDIOLOGY** " is a bonafide record of work done by Ms. **ANITA ABRAHAM** , Ms. **ANJALIKRISHNA V** and Ms. **ANJITHA MATHEWS** under my supervision in partial fulfilment of the requirements for the Degree of Bachelor of Science in Mathematics of MG University and that no part of this work has been submitted earlier for the award of any degree.

Place: Arunapuram

Date: 29-03-2023

DR. SR. SHEENA MATHEW

(Supervising Guide)

Forwarded:

DR.SR. SONIA K THOMAS

Head of the Department

MATHEMATICS IN MUSIC

**A dissertation submitted to
Mahatma Gandhi University
in partial fulfilment of the requirements for the Degree of**

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

MALAVIKA VINOD

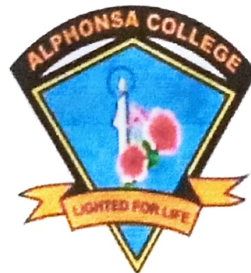
REG NO : 200021032333

MEENU KURIAKOSE

REG NO : 200021032334

MEKHA VINCENT

REG NO : 200021032335



UNDER THE GUIDANCE OF

Dr . Sr . Sheena Mathew

**CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA
MARCH 2023**



CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA
MARCH 2023


CERTIFICATE

I do hereby certify that, the dissertation entitled “**MATHEMATICS IN MUSIC**” is a bonafide record of work done by **Ms. Malavika Vinod, Ms. Meenu Kuriakose** and **Ms. Mekha Vincent** under my supervision in partial fulfilment of the requirements for the Degree of Bachelor of Science in Mathematics of MG University and that no part of this work had been submitted earlier for the award of any degree.

Place: Arunapuram

Date: 28/3/2023

Dr. Sr. Sheena Mathew
(Supervising Guide)

Forwarded: 

Dr. Sr. Sonia K Thomas

Head of the department

MATHEMATICAL MODELING OF COVID 19 CASES IN BANGLADESH

A dissertation submitted to
Mahatma Gandhi University, Kottayam.

In partial fulfillment of requirements for the degree of
BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

ALEENA KURIAN	200021032311
AMIYA FATHIMA	200021032312
AMMU ELSA PUNNEN	200021032313

Under the guidance of
Dr. Sr. SHEENA MATHEW



CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA

MARCH 2023



DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA
ARUNAPURAM P.O., KOTTAYAM

CERTIFICATE

I do hereby certify that the dissertation entitled “**MATHEMATICAL MODELING OF COVID 19 CASES IN BANGLADESH**” is a bonafide record of work done by **ALEENA KURIAN, AMIYA FATHIMA, and AMMU ELSA PUNNEN** under my supervision in partial fulfillment of the requirement for the degree (CBCS) of Bachelor of Science in Mathematics of Mahatma Gandhi University and that no part of this work has been submitted earlier for the award of any degree.

Dr. Sr. Sheena Mathew
(Supervising Guide)

Place : Arunapuram

Date: 29/3/2022

Forwarded:

Dr. Sr. Sonia K Thomas
Head of the Department

MATHEMATICS IN BANKING INDUSTRY

A dissertation submitted to

Mahatma Gandhi University

in partial fulfilment of the requirements for the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by:

AYANAMOL C BEN RegNo. 200021032340

BHAGYALAKSHMI S RegNo. 200021032341

MILAN ANDREW RegNo. 200021032342



UNDER THE GUIDANCE OF

Dr.Sr.Sonia K Thomas

CBCS

SEMESTER VI

DEPARTMENT OF MATHEMATICS

ALPHONSA COLLEGE PALA

MARCH 2023




CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE PALA
ARUNAPURAM


CERTIFICATE

I do hereby certify that the dissertation entitled "**MATHEMATICS IN BANKING INDUSTRY**" is a bonafide record of work done by **AYANAMOL C BEN, BHAGYALAKSHMI S, MILAN ANDREW**, under my supervision in partial fulfilment of the requirements for the degree (CBCS) of Bachelor of Science in Mathematics of M.G. University and that no part of this work has been submitted earlier for the award of any degree.

Place: Arunapuram

Date: 31/03/2023


Dr. Sr. Sonia K Thomas
(Supervising Guide)


Forwarded: Dr. Sr. Sonia K Thomas
Head of the Department

SIMPLICIAL COMPLEXES
A DISSERTATION SUBMITTED TO
MAHATMA GANDHI UNIVERSITY, KOTTAYAM
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
BACHELOR OF SCIENCE IN MATHEMATICS

SUBMITTED BY

MILIYA T. TOM

REG. NO. : 200021032336

NEHA JAISON

REG. NO. : 200021032337

ROSE GEORGE

REG. NO. : 200021032338



UNDER THE GUIDANCE OF

DR.SR. SONIA K. THOMAS

DEPARTMENT OF MATHEMATICS

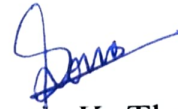
ALPHONSO COLLEGE, PALA

CBCS SEMESTER VI

MARCH 2023

CERTIFICATE

I do hereby certify that, the dissertation entitled “**SIMPLICIAL COMPLEXES**” is a bonafide record of work done by Ms. Miliya T. Tom, Ms. Neha Jaison and Ms. Rose George under my supervision in partial fulfilment of the requirements for the Degree of Bachelor of Science in Mathematics of Mahatma Gandhi University and that no part of this work has been submitted earlier for the award of any degree.




Dr. Sr. Sonia K. Thomas

(Supervising Guide)

Place: Arunapuram

Date: 31/03/2023

Forwarded to:



Dr. Sr. Sonia K. Thomas

Head of Department

Department of Mathematics

A STUDY ON MOLECULAR GRAPHS

A dissertation submitted to Mahatma Gandhi University in partial fulfilment of the requirement for the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

SUBMITTED BY :

GOWTHAMI VIJAY

REG NO :200021032330

JIFFY BIJU

REG NO:200021032331

KRISHNAMOL K MOOLAYIL

REG NO.200021032332



UNDER THE GUIDANCE OF

Dr.Sr.SONIA K THOMAS

CBCS SEMESTER VI

DEPARTMENT OF MATHEMATICS

ALPHONSA COLLEGE PALA


MARCH 2023




CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE PALA
ARUNAPURAM

CERTIFICATE

I do hereby certify that ,the dissertation entitled ‘**A STUDY ON MOLECULAR GRAPHS**’ is a bonafide record of work done by **Ms. GOWTHAMI VIJAY, Ms. JIFFY BIJU, Ms. KRISHNAMOL K MOOLAYIL** under my supervision in partial fulfilment of requirments for the Degree of Bachelor of Science in Mathematics of M G University and that no part of this work has been submitted earlier for the award of any degree.


Dr.Sr.SONIA K THOMAS
(Supervising Guide)


Forwarded: **Dr.Sr.SONIA K THOMAS**
Head of the Department

Place: Arunapuram

Date: 31/3/2023

CHORDAL GRAPHS

A dissertation submitted to

Mahatma Gandhi University

in partial fulfilment of the requirements

for the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted By:

ANJUMOL SANTHOSH

REG NO: 200021032317

ANMY JOSE

REG NO: 200021032318

ANN MARIA AMAL

REG NO: 200021032319



UNDER THE GUIDANCE OF

Dr. Sr. SONIA K THOMAS

CBCS SEMESTER VI

DEPARTMENT OF MATHEMATICS

ALPHONSA COLLEGE, PALA

MARCH 2023

CERTIFICATE

I do hereby certify that, the dissertation entitled '**CHORDAL GRAPH**' is a bonafide record of work done by Ms. Anjumol Santhosh, Ms. Anmy Jose and Ms. Annmaria Amal under my supervision in partial fulfilment of the requirements for the Degree of Bachelor of Science in Mathematics of M G University and that no part of this work has been submitted earlier for the award of any degree.


Place: Arunapuram


Dr. Sr. Sonia K Thomas

Date: 31. 03. 2023

(Supervising Guide)

Forwarded to:


Dr. Sr. Sonia K. Thomas

Head of Department

Department of Mathematics

WIENER INDEX

**A dissertation submitted to
Mahatma Gandhi University
in partial fulfilment of the requirements for the Degree of**

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

ROSILINT SUNNY

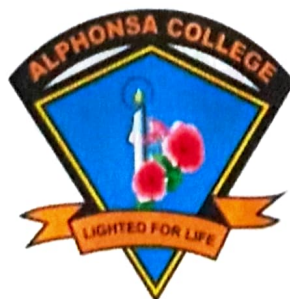
REG NO : 200021032343

SONA MARIA JOSE

REG NO : 200021032344

AGNAS JOHN SABU

REG NO : 200021032310



UNDER THE GUIDANCE OF

Ms. Theresa J Puzhakkara

**CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA
MARCH 2023**



CBCS SEMESTER 6
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA

CERTIFICATE

I do hereby certify that, the dissertation entitled “ **WIENER INDEX** ” is a bonafide record of work done by Ms. **Rosilint Sunny**, Ms. **Sona Maria Jose** and Ms. **Agnas John Sabu** under my supervision in partial fulfilment of the requirements for the Degree of Bachelor of Science in Mathematics of MG University and that no part of this work had been submitted earlier for the award of any degree.

Place: Arunapuram

Date: 29/03/2023

Ms. Theresa J Puzhakkara

(Supervising Guide)

Forwarded:

Dr. Sr. Sonia K Thomas

Head of the department

APPLICATIONS OF TRIGONOMETRY IN REAL LIFE

A dissertation submitted to

Mahatma Gandhi University

in partial fulfilments of requirements for the degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

ANNU MARIA VARKEYACHAN

200021032320

ASNA P A

200021032321

BIJI JOSEKUTTY

200021032322



**UNDER THE GUIDANCE OF
Ms THERESA J PUZHAKKARA**

CBCS SEMESTER VI

**DEPARTMENT OF MATHEMATICS ,
ALPHONSA COLLEGE , PALA**

MARCH 2023




CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA
ARUNAPURAM

CERTIFICATE

I do hereby certify that the dissertation entitled “**APPLICATIONS OF TRIGONOMETRY IN REAL LIFE**” is a bonafide record of work done by **ANNU MARIA VARKEYACHAN, ASNA P A , BIJI JOSEKUTTY** ,under my supervision in partial fulfilment of the requirements for the degree[CBCS] of Bachelor of Science in Mathematics of M.G.University and that no part of this work has been submitted earlier for the award of any degree.


Place: Arunapuram


Ms Theresa J Puzhakkara

(Supervising Guide)

Date: 24.03.2023

Forwarded:


Dr. Sr. Sonia K Thomas

Head of the department

MATHEMATICS IN MILITARY

A dissertation submitted to

Mahatma Gandhi University

in partial fulfilment of the requirements for the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by:

Elizabeth Mariya Jose

200021032326

Elsit Baby

200021032327

Ganga S Nair

200021032328



UNDER THE GUIDANCE OF

Ms. Theresa J Puzhakkara

CBCS SEMESTER VI

DEPARTMENT OF MATHEMATICS

ALPHONSA COLLEGE, PALA

MARCH 2023



CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA
ARUNAPURAM

CERTIFICATE

I do hereby certify that, the dissertation entitled “**MATHEMATICS IN MILITARY**” is a bonafide record of work done by Ms. Elizabeth Maria Jose, Ms. Elsit Baby and Ms. Ganga S Nair under my supervision in partial fulfilment of the requirements for the Degree of Bachelor of Science in Mathematics of MG University and that no part of this work had been submitted earlier for the award of any degree.

Place: Arunapuram

Date: 29/03/2023

Theresa J Puzhakkara

(Supervising Guide)

Forwarded:

Dr. Sr. Sonia K Thomas

Head of the Department

MATHEMATICS BEHIND ROBOTICS

A dissertation submitted to
Mahatma Gandhi University
in partial fulfilment of the requirements for the Degree of

BACHELOR OF SCIENCE IN MATHEMATICS

SUBMITTED BY:

BILEENA P G

REG NO.: 200021032323

DIVYADAS K R

REG NO.: 200021032324

DONA MARIA JOSE

REG NO.: 200021032325



UNDER THE GUIDANCE OF
MS. THERESA J PUZHAKKARA

CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA

MARCH 2023



CBCS SEMESTER VI
DEPARTMENT OF MATHEMATICS
ALPHONSA COLLEGE, PALA
ARUNAPURAM

CERTIFICATE

We do hereby certify that, the dissertation entitled “**MATHEMATICS BEHIND ROBOTICS**” is a bonafide record of work done by Ms. Bileena P G, Ms. Divyadas K R and Ms. Dona Maria Jose under my supervision in partial fulfilment of the requirements for the Degree of Bachelor of Science in Mathematics of MG University and that no part of this work had been submitted earlier for the award of any degree.

Place: Arunapuram

Date: 15/03/2023

Ms. Theresa J Puzhakkara
Supervising Guide

Forwarded:

Dr. Sr. Sonia K Thomas

Head of the Department