BSc MATHEMATICS

A STUDY ON LATTICE

Project work carried out for partial fulfilment of the rrpuirement for the
First Degree Programme in Mathematics of

University of Kerala

by

NIMISHA CHANDRAN SR	:	220-20138008
AJAY VS	:	220-20138014
KAVYA MD	:	220-20138027
PRINCY MATHEW	:	220-20138031
RINO P KUNJUMON	:	220-20138040

Sixth Semester BSc Mathematics, St.John's College Anchal, Kollam

May, 2023

St. John's College, Anchal, Kollam

CERTIFICATE

I hereby certify that this project entitled "**A Study on Lattice**" is a project work carried out by Nimisha Chandran SR, Ajay VS, Kavya MD, Princy Mathew and Rino P Kunjumon under my supervision in partial fulfillment of the requirement for the First Degree Programme in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any Degree.

16-05-2023

Dr Sibi C Babu

Head of the Department

Department of Mathematics

for

Dr Smitha Mary Mathew

Supervising Teacher.

A STUDY ON METRIC SPACES

Project work carried out for partial fulfilment of the requirement for the First Degree
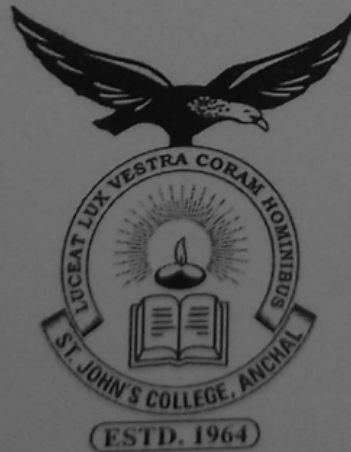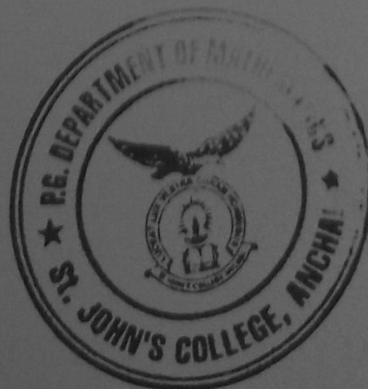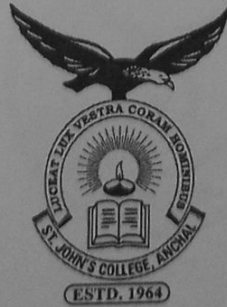
Programme in Mathematics of

University of Kerala

by

ASWANI ANIL S	:	22020138005
GADHA SATHEESH	:	22020138024
SREELEKSHMI G S	:	22020138034
SURUMI S	:	22020138036
LINZA JOSE	:	22020138028
VINEESHA L	:	22020138039

Sixth Semester BSc Mathematics

St. Johns College, Anchal, Kollam

ST.JOHNS COLLEGE, ANCHAL

KOLLAM

CERTIFICATE

I hereby certify that this project entitled "A STUDY ON METRIC SPACES" is a project work carried out by ASWANI ANIL S, GADHA SATHEESH, SREELEKSHMI G S, SURUMI S, LINZA JOSE, VINEESHA L under my supervision in partial fulfillment of the requirement for the award of the degree of the First Degree Programme in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any Degree.
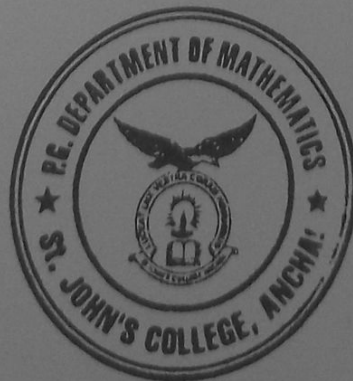
16·05·2023

Prof. Sibi C.Babu

Head of the Department.

Department of Mathematics.

for

TONY PHILIP

Supervising Teacher.

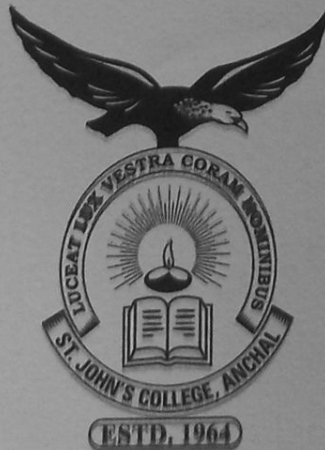# Exploring Benford's Law: Applications and Case Studies

Project work carried out for partial fulfillment of the requirement for the

First Degree Programme in Mathematics of

University of Kerala

by

ADITH S.B	:	220-20138001
LINY BENNY	:	220-20138007
A.P ANANDAN	:	220-20138011
AKHIL KRISHNAN R	:	220-20138015
JESSIN SUSAN JOBY	:	220-20138025
MUHAMMAD ASLAM	:	220-20138030

Sixth Semester BSc Mathematics, St. John's College Anchal, Kollam.

May, 2023

St. John's College, Anchal, Kollam

CERTIFICATE

I hereby certify that this project entitled "**Exploring Benford's Law: Applications and Case Studies**" is a project work carried out by Adith S.B, Liny Benny, A.P Anandan, Akhil Krishnan R, Jessin Susan Joby and Muhammad Aslam under my supervision in partial fulfillment of the requirement for the First Degree Programme in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any Degree.

16-05-2023

Dr Sibi C Babu
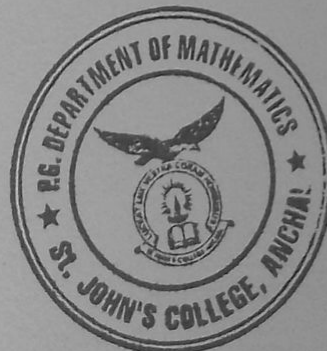
Head of the Department

Department of Mathematics

for

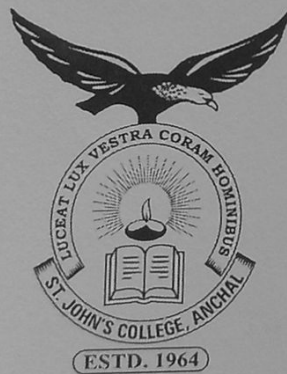**Dr Dilip D.S**

Supervising Teacher.

FRACTIONAL CALCULUS

Project work carried out for partial fulfillment of the requirement for the
First Degree Programme in Mathematics of

University of Kerala

by

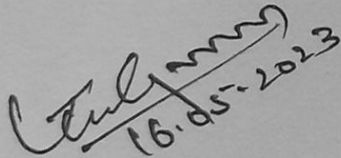|		
ANANYA ANIL	:	220-20138004
BHAGYA R NAIR	:	220-20138021
BIJITHA KRISHNAN	:	220-20138022
FATHIMA H S	:	220-20138023
STEFFY LUDIYA JACOB	:	220-20138035

Sixth Semester BSc Mathematics, St. John's College Anchal, Kollam.

May, 2023

St. John's College, Anchal, Kollam
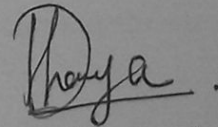
CERTIFICATE

I hereby certify that this project entitled "**Fractional Calculus**" is a project work carried out by Ananya Anil, Bhagya R Nair, Bijitha Krishnan, Fathima H S and Steffy Ludiya Jacob under my supervision in partial fulfillment of the requirement for the First Degree Programme in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any Degree.
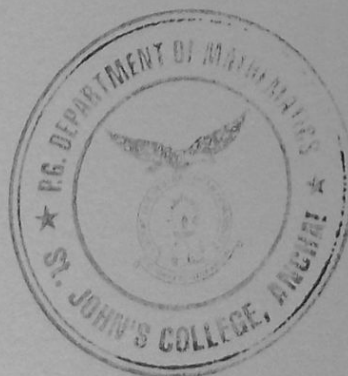
16-05-2023

Dr Sibi C Babu

Head of the Department

Department of Mathematics

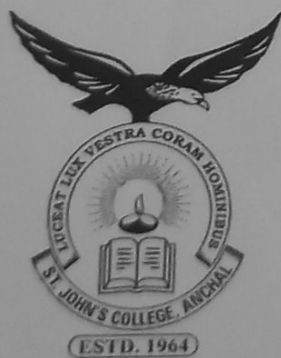Dr Dhanya Ramachandran

Supervising Teacher.

LINEAR PROGRAMMING THEORY AND APPLICATIONS

Project work carried out for partial fulfillment of the requirement for the First Degree Programme in Mathematics of

University of Kerala

by

AKSHARA A.K	:	220-20138002
SREYALEKSHMI G.S	:	220-20138010
KAVYA SANTHOSH	:	220-20138026
LISHA SHAJU	:	220-20138029
SHEEBA RACHEL ZACHARIA	:	220-20138033

Sixth Semester BSc Mathematics, St. John's College Anchal, Kollam.

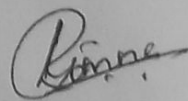May, 2023

St. John's College, Anchal, Kollam

CERTIFICATE

I hereby certify that this project entitled "**Linear Programming: Theory and Applications**" is a project work carried out by Akshara A.K, Sreyaleskshmi G.S, Kavya Santhosh, Lisha Shaju and Sheeba Rachel Zacharia under my supervision in partial fulfillment of the requirement for the First Degree Programme in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any Degree.

Dr Sibi C Babu

Head of the Department

Department of Mathematics

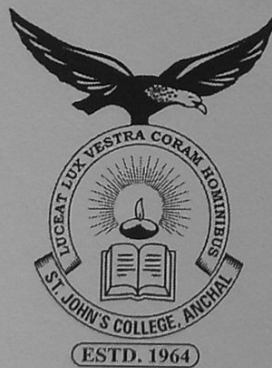Dr Limnaraj B.P

Supervising Teacher.

Queuing Theory and its Application

Project work carried out for partial fulfillment of the requirement for the
First Degree Programme in Mathematics of

University of Kerala

by

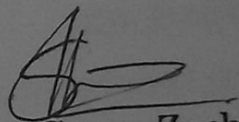|		
Adithyan.V	:	220-20138013
Arathi.Rajeevan	:	220-20138019
Amrutha.Sreekumar	:	220-20138018
Akshara.G.S	:	220-20138003
VAISHNAVI S	:	220-20138038
Amrutha.Krishna.M.S	:	220-20138017

St. John's College, Anchal, Kollam

CERTIFICATE

I hereby certify that this project entitled "**Queuing Theory and its Application**" is a project work carried out by Adithyan.V,Arathi.Rajeevan,Amrutha Sreekumar,Amrutha .Krishna M.S ,Akshara.G.S,and Vaishnavi.S under my supervision in partial fulfillment of the requirement for the First Degree Programme in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any Degree.

Dr Sibi C Babu
Head of the Department
Department of Mathematics

Dr.Sunitha Grace Zacharia
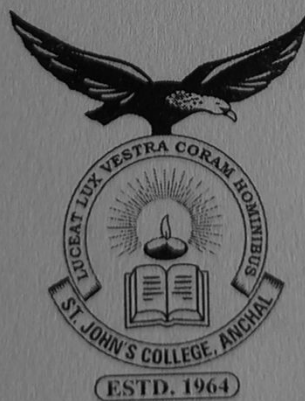Assistant Professor
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SECOND ORDER DIFFERENTIAL EQUATIONS AND ITS APPLICATIONS

Project work carried out for partial fulfillment of the requirement for the
First Degree Programme in Mathematics of

University of Kerala

by

DEVU SUDHI	:	220-20138006
SHINCY L STUVART	:	220-20138009
ASHNA REJI	:	220-20138020
REIHA J R	:	220-20138032
VAISHNAVI R	:	220-20138037

Sixth Semester BSc Mathematics, St. John's College Anchal, Kollam.

May, 2023

St. John's College, Anchal, Kollam

CERTIFICATE

I hereby certify that this project entitled "**Second Order Differential Equations and its Applications**" is a project work carried out by Devu Sudhi, Shincy L Stuvart, Ashna Reji, Reiha J R and Vaishnavi R under my supervision in partial fulfillment of the requirement for the First Degree Programme in Mathematics of the University of Kerala and that no part of this work has been submitted for the award of any Degree.

16-05-2023

Dr Sibi C Babu

Supervising Teacher

Head of the Department

Department of Mathematics