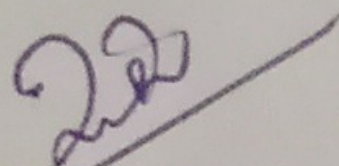
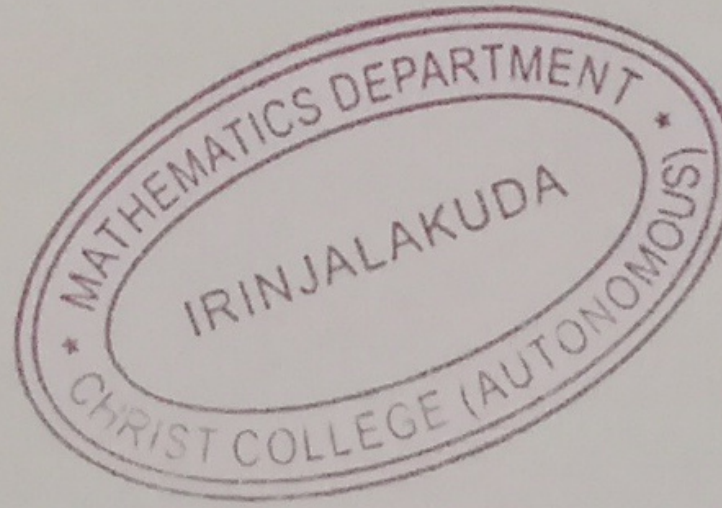
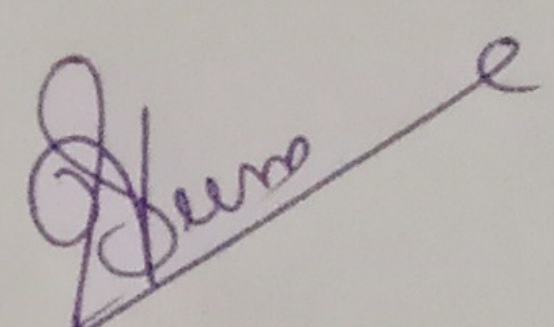

CERTIFICATE

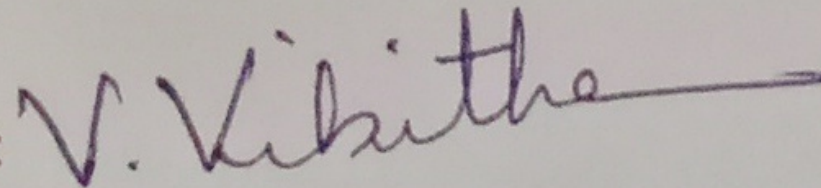
This is to certify that the project entitled "**Linear algebra and its applications**" submitted to Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc Degree programme in Mathematics, is a bonafide record of project work done by **Mr. Viswanand A S** during the period of their study in the Post Graduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2021-2024.


Ms. Tintumol Sunny
Department of Mathematics.
Christ College(Autonomous)
Irinjalakuda.




Dr. Seena. V
Head of the Department
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda.

External Examiner :



Place : Irinjalakuda

Date: 25-03-2024

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

CERTIFICATE

This is to certify that the project entitled "GAME THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a Bonafede record of work carried out by **Mr. Noyal Benny** during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H



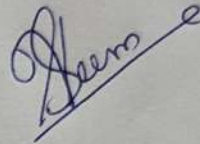
Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

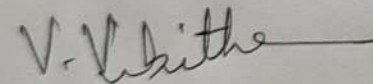


Head of the Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

register no:
CCAVSMTO19

CERTIFICATE

This is to certify that the project entitled "GAME THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a Bonafede record of work carried out by Ms.Malavika P during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H



Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

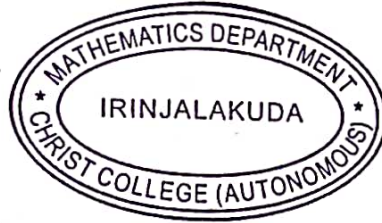


Head of the Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

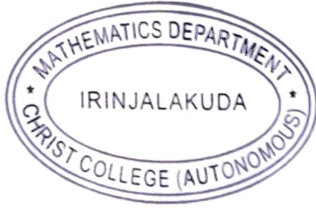
Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled "Unraveling Medical Mysteries Through Mathematical Models" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of project work conducted by Mr Adorn Joe Bobby (CCA VSMT017) during his period of study in the Department of Mathematics at Christ College (Autonomous), Irinjalakuda, under my supervision and guidance from 2021 to 2024.

Anand M.S Anand
Asst Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



Seena V
Dr Seena V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

V. Vibitha
External Examiner:

Place: Irinjalakuda

Date: 25 March 2024

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

LINEAR ALGEBRA AND ITS APPLICATIONS

A project report submitted to Christ College (Autonomous) in partial fulfilment of the requirement for the award of the B.Sc. Degree Program in Mathematics

By

KRIPA SHAJU

Register No. CCAVSMT016



Postgraduate and Research Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2024

V. Vibitha
External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnankulam - 689 842



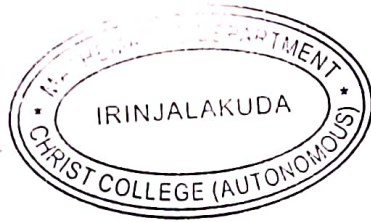
CERTIFICATE

This is to certify that the project entitled "Fractals" submitted to the Postgraduate and Research Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Ms. Josna T J during the period of her study in the Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024 .



Dr. Seena V

Head of Department
Postgraduate and Research
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CONFORMAL MAPPING AND BILINEAR TRANSFORMATIONS

A project report submitted to Christ College (Autonomous) in partial fulfilment of the requirement for the award of the B.Sc. Degree Program in Mathematics

By

IRENE MARIYA LORANCE

Register No. CCAVSMT014



Postgraduate and Research Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2024

V. Vibitha
External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnankulam - 686 842

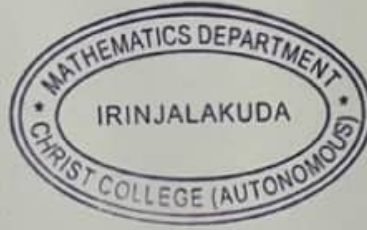


CERTIFICATE

This is to certify that the project entitled "Unraveling Medical Mysteries Through Mathematical Models" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of project work conducted by Ms. Hiba Haneefa (CCA VSMT013) during her period of study in the Department of Mathematics at Christ College (Autonomous), Irinjalakuda, under my supervision and guidance from 2021 to 2024.

Anand M.S
Asst Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

Anand.



Dr Seena V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

Seena V


V. Vibitha
External Examiner:


Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -686 542

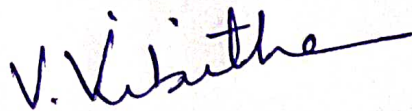
Place: Irinjalakuda
Date: 25 March 2024

CERTIFICATE

This is to certify that the project entitled “Conformal mapping & Bilinear Transformation” submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Ms. Gifty Rose George, during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.


Dr. Shinto K G
Assistant Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

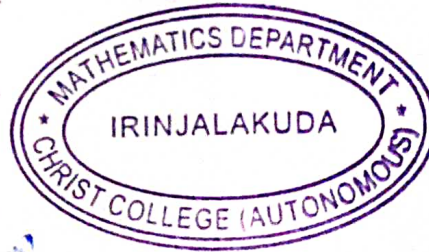

Dr. Seena V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda


External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date:



LINEAR ALGEBRA AND ITS APPLICATIONS

A project report submitted to Christ College (Autonomous) in partial fulfilment of the requirement for the award of the B.Sc. Degree Program in Mathematics

By

FATHIMA NISRIN A A

Register No. CCAVSMT011



Postgraduate and Research Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2024

V. Vibitha
External Examiner:

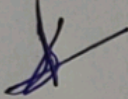
Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnankulam - 686 642



CERTIFICATE

This is to certify that the project entitled "GAME THEORY" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Mr. Binso Biju** during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H



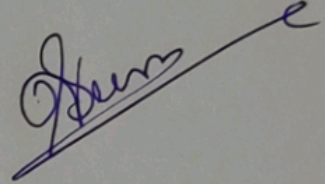
Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

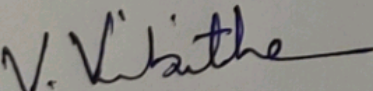


Head of the Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda


External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled "Fuzzy Set Theory" submitted to the Postgraduate and Research Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Mr. Athul N A** during the period of his study in the Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.



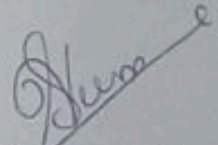
Dr. Seena Varghese

Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



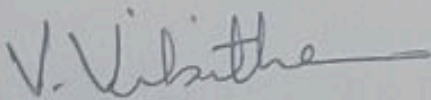
Dr. Seena V

Head of Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:


Dr. V. VIBITHA KOCHAMAM
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 643


Place: Irinjalakuda

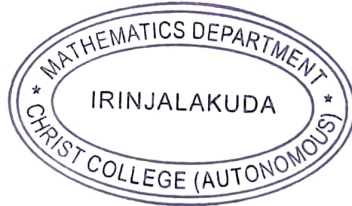
Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled “**Cryptography**” submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a Bonafede record of work carried out by **Mr. Athul Krishna K.A.** during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H 
Assistant Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda


Dr. Seena V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda




External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhakkal, Munnankulam -680 542

Place: Irinjalakuda

Date : 25-03-2024

Certificate

This is to certify that the project entitled "Boolean Algebra" submitted to the department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Anson Joseph Philip (CCA VSMT007) during the period of his study in the department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024



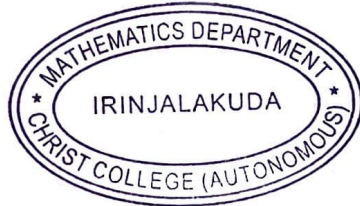
Dr. Fr. Vincent N. S.

Assistant Professor
Department of Mathematics
Christ College (Autono
Irinjalakuda



Dr. Seená V

HOD ~~in-charge~~
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



External Examiner:


DR. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pozhanji, Kunnammkulam - 680 542


Place: Irinjalakuda

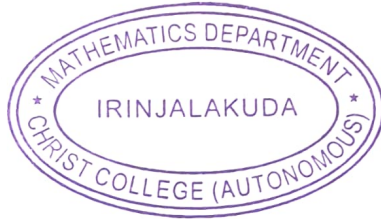
Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled “**Cryptography**” submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a Bonafede record of work carried out by **Ms. Annmariya Lalu** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H 
Assistant Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda


Dr. Seena V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda




External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date : 25-03-2024

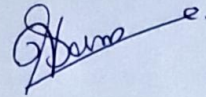
Certificate

This is to certify that the project entitled "Boolean Algebra" submitted to the department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Anmariya Jackson (CCAVSMT005) during the period of her study in the department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024



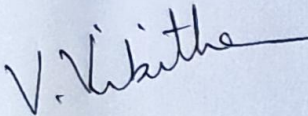
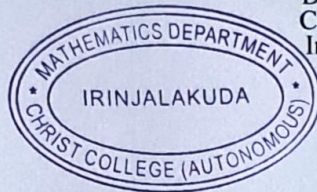
Dr. Fr. Vincent N. S.

Assistant Professor
Department of Mathematics
Christ College (Autono
Irinjalakuda



Dr. Seena V

HOD ~~in charge~~
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



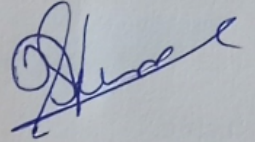
External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Kulam - 680 542

Place: Irinjalakuda

Date: 25-03-2024

This is to certify that the project entitled "Fractals" submitted to the Postgraduate and Research Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Ms. Anita Jose during the period of her study in the Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024 .



Dr. Seena V

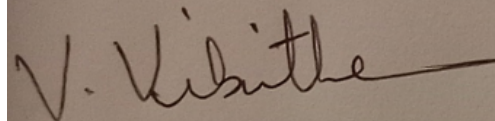
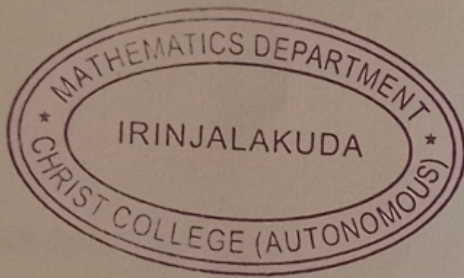
Head of Department

Postgraduate and Research

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:

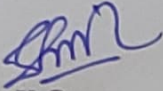
Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled “**Conformal mapping & Bilinear Transformation**” submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Ms. Angel Varghese**, during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.



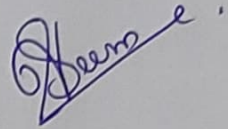
Dr. Shinto K G

Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



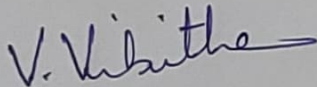
Dr. Seena V

Head of the Department

Department of Mathematics

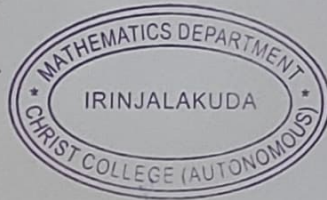
Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 843



Place: Irinjalakuda

Date: 2 - 4 - 2024

FUZZY SET THEORY

A project report submitted to Christ College (Autonomous) in partial fulfilment of the requirement for the award of the B.Sc. Degree Program in Mathematics

By

ANEENA E T

Register No. CCAVSMT002



Postgraduate and Research Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2024

V. Vibitha
External Examiner:



Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnankulam - 680 842

CERTIFICATE

This is to certify that the project entitled “**Conformal mapping & Bilinear Transformation**” submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Mr. Amalkrishna N A**, during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.



Dr. Shinto K G

Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



Dr. Seena V

Head of the Department

Department of Mathematics

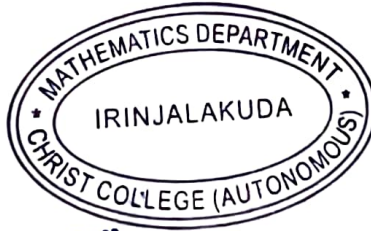
Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542



Place: Irinjalakuda

Date:

CERTIFICATE

This is to certify that the project entitled “**Fuzzy Set Theory**” submitted to the Postgraduate and Research Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Mr. Alen Krishna T R** during the period of his study in the Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.



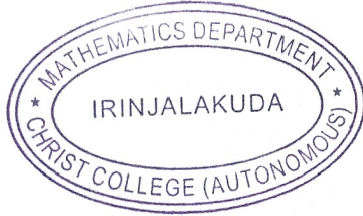
Dr. Seena Varghese

Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



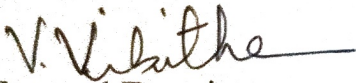
Dr. Seena V

Head of Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CRYPTOGRAPHY

A project report submitted to Christ College (Autonomous) in partial fulfilment of the requirement for the award of the B.Sc. Degree Program in Mathematics

By

SNEHINA K S

Register No. CCAVSMT047



Postgraduate and Research Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2024

V. Vibitha
External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnankulam - 689 842



CERTIFICATE

This is to certify that the project entitled “**Fuzzy Set Theory**” submitted to the Postgraduate and Research Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Ms. Nandita R Menon** during the period of her study in the Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.



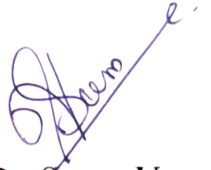
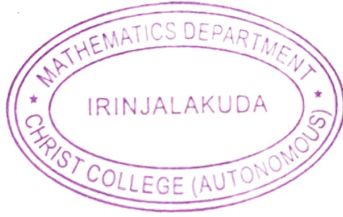
Dr. Seena Varghese

Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



Dr. Seena V

Head of Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled "**GAME THEORY**" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Ms. Mary Elna Shabu** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H



Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

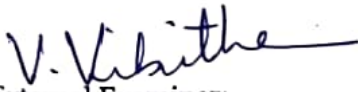
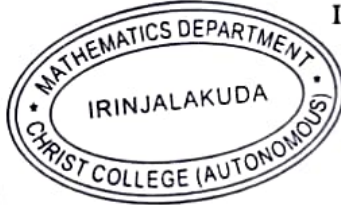


Head of the Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI

Assistant Professor

Department Of Mathematics

Mar Dionysius College

Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled "Cryptography" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a Bonafede record of work carried out by Ms. Krishnaveni V V during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H



Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

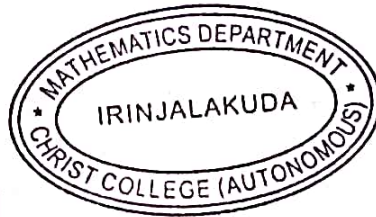


Head of the Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda





External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pozhanji, Kunnankulam - 686 548

Place: Irinjalakuda

Date : 25-03-2024

CERTIFICATE

This is to certify that the project entitled "Unraveling Medical Mysteries Through Mathematical Models" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of project work conducted by Mr Goutham S Menon (CCA VSMT042) during his period of study in the Department of Mathematics at Christ College (Autonomous), Irinjalakuda, under my supervision and guidance from 2021 to 2024.

Anand M.S Anand
Asst Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



Dr Seena V Seena V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

V. Vibitha
External Examiner:

Place: Irinjalakuda
Date: 25 March 2024

Dr. V. VIBITHA KOCHAMAM
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnimkulam - 689 948

CERTIFICATE

This is to certify that the project entitled “**GAME THEORY**” submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Ms. Dharshana A V** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H



Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seená V

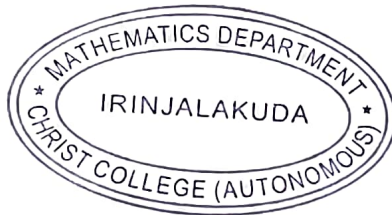


Head of the Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:


Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnankulam -680 542


Place: Irinjalakuda

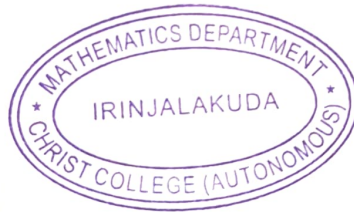
Date: 25-03-2024


CERTIFICATE

This is to certify that the project entitled “**Cryptography**” submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a Bonafede record of work carried out by **Mr.Aswin K.U** during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H 
Assistant Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda


Dr. Seená V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda




External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Kunnamkulam -680 542

Place: Irinjalakuda

Date : 25-03-2024

CERTIFICATE

This is to certify that the project entitled "Conformal mapping & Bilinear Transformation" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Ms. Aswathy Anand, during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.



Dr. Shinto K G

Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



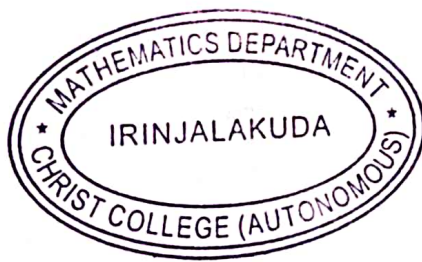
Dr. Seena V

Head of the Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhani, Kunnankulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

Certificate

This is to certify that the project entitled "Boolean Algebra" submitted to the department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Alpha John (CCAVSMT038) during the period of her study in the department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024



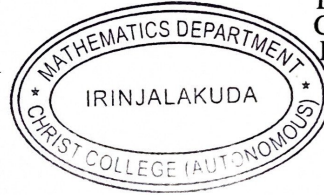
Dr. Fr. Vincent N. S.

Assistant Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



Dr. Seena V

HOD ~~in-charge~~
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



External Examiner:

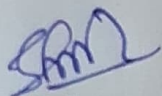
Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled " TOPOLOGY " submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by **Alina Francis** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2021-2024.



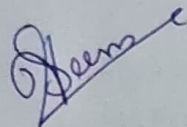
Dr. Shinto K G

Assistant professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda.



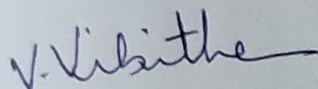
Dr. Seena. V

Head of the Department

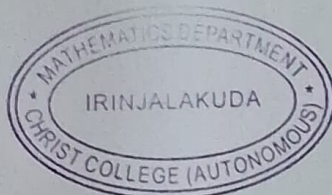
Department of Mathematics

Christ College (Autonomous)

Irinjalakuda.



External Examiner:



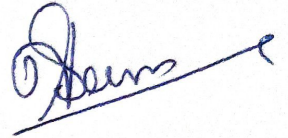
Place: Irinjalakuda

Date: 25-03-2024

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

CERTIFICATE

This is to certify that the project entitled "Fractals" submitted to the Postgraduate and Research Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Mr. Sabareesh E S during the period of his study in the Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024 .



Dr. Seena V

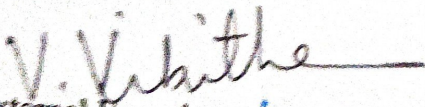
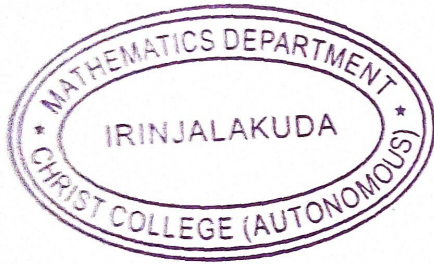
Head of Department

Postgraduate and Research

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:


Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnankulam -680 542

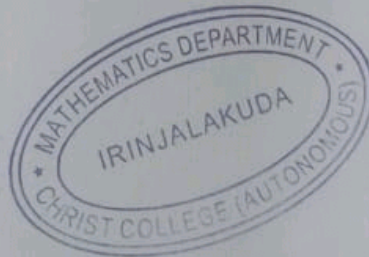
Place: Irinjalakuda

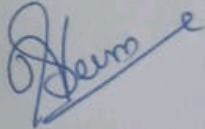
Date: 25-03-2024

CERTIFICATE

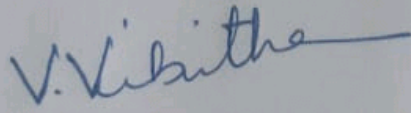
This is to certify that the project entitled "**Linear algebra and its applications**" submitted to Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc Degree programme in Mathematics, is a bonafide record of project work done by **Mr. Nithin P Sunilkumar** during the period of their study in the Post Graduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2021-2024.


Ms. Tintumol Sunny
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda.




Dr. Seena. V
Head of the Department
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda.

External Examiner :



Place : Irinjalakuda

Date: 25-03-2024

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 642

CERTIFICATE

This is to certify that the project entitled “**GAME THEORY**” submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Ms. Krishna Girish** during the period of her study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.

Ms. Kavitha E H



Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

Dr. Seena V

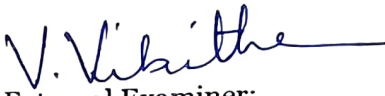
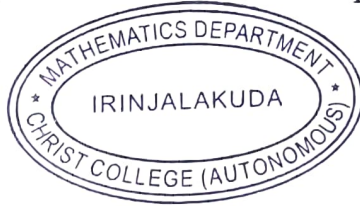


Head of the Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

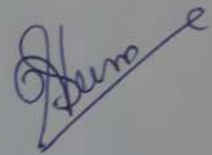
Certificate

This is to certify that the project entitled "Boolean Algebra" submitted to the department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by K Mervin Dennis (CCA VSMT031) during the period of his study in the department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024



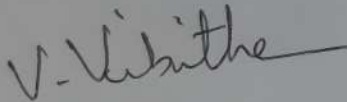
Dr. Fr. Vincent N. S.

Assistant Professor
Department of Mathematics
Christ College (Autono
Irinjalakuda



Dr. Seena V

HOD ~~in-charge~~
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled "**Linear algebra and its applications**" submitted to Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc Degree programme in Mathematics, is a bonafide record of project work done by **Ms. K A Athira** during the period of their study in the Post Graduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2021-2024.



Ms. Tintumol Sunny
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda.



Dr. Seena. V
Head of the Department
Department of Mathematics
Christ College(Autonomous)
Irinjalakuda.

External Examiner : 

Dr. V. VIBITHA KOCHAMAM
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place : Irinjalakuda

Date: 25-03-2024

FRACTALS

A project report submitted to Christ College (Autonomous) in partial fulfilment of the requirement for the award of the B.Sc. Degree Program in Mathematics

By

ABHISHEK M S

Register No. CCAVSMT029



Postgraduate and Research Department of Mathematics

Christ College (Autonomous)

Irinjalakuda

2024

V. Vibitha
External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnankulam - 689 842



CERTIFICATE

This is to certify that the project entitled" **TOPOLOGY** " submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by **Gopikrishnan P G** during the period of his study in the Department of Mathematics. Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2021-2024.



Dr. Shinto K G
Assistant professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda.



Dr. Seena. V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda.



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Place: Irinjalakuda, Christ College
Razhani, Irinjalakuda, Kerala - 680 542
Date: 25-03-2024




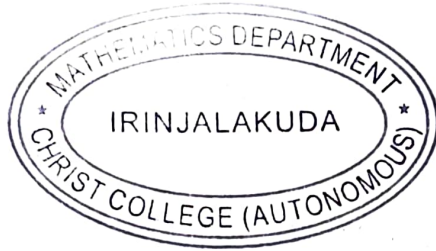
CERTIFICATE

This is to certify that the project entitled “Fractals” submitted to the Postgraduate and Research Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Ms. Diya Denny during the period of her study in the Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024 .



Dr. Seena V

Head of Department
Postgraduate and Research
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled " **TOPOLOGY** " submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by **Aswin Dev V S** during the period of his study in the Department of Mathematics, Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2021-2024.



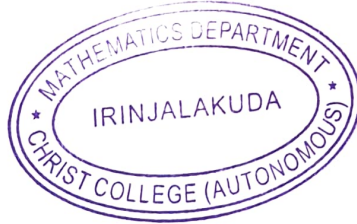
Dr. Shinto K G
Assistant professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda.



Dr. Seena. V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda.



External Examiner:



Place: Irinjalakuda

Date: 25-03-2024

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Kankulam -680 542

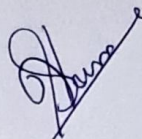
Certificate

This is to certify that the project entitled "Boolean Algebra" submitted to the department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by Abhiya Benny (CCAVSMT025) during the period of her study in the department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024



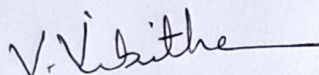
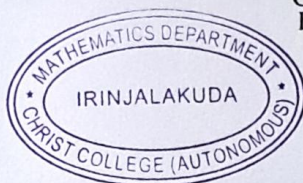
Dr. Fr. Vincent N. S.

Assistant Professor
Department of Mathematics
Christ College (Autono
Irinjalakuda



Dr. Seena V

HOD ~~in-charge~~
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



External Examiner:

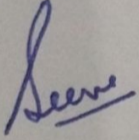
Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhani, Kumbakonam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled “**Fuzzy Set Theory**” submitted to the Postgraduate and Research Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree program in Mathematics, is a bonafide record of work carried out by **Ms. Anurose P S** during the period of her study in the Postgraduate and Research Department of Mathematics, Christ College (Autonomous), Irinjalakuda under my supervision and guidance during the year 2023-2024.



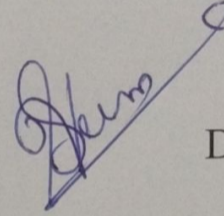
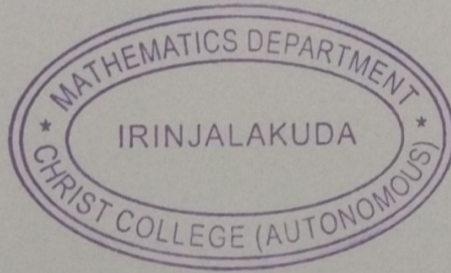
Dr. Seena Varghese

Assistant Professor

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



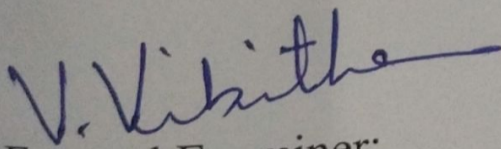
Dr. Seena V

Head of Department

Department of Mathematics

Christ College (Autonomous)

Irinjalakuda



External Examiner:

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

Place: Irinjalakuda

Date: 25-03-2024

CERTIFICATE

This is to certify that the project entitled "Unraveling Medical Mysteries Through Mathematical Models" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of project work conducted by Ms. Anaswara Dilip P (CCAVSMT023) during her period of study in the Department of Mathematics at Christ College (Autonomous), Irinjalakuda, under my supervision and guidance from 2021 to 2024.

Anand M.S. *Anand*
Asst Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



Seena V
Dr Seena V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

V. Vibitha

External Examiner:

Place: Irinjalakuda

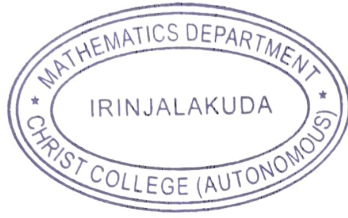
Date: 25 March 2024

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhani, Kunnankulam - 680 542

CERTIFICATE

This is to certify that the project entitled "Unraveling Medical Mysteries Through Mathematical Models" submitted to the Department of Mathematics in partial fulfillment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of project work conducted by Ms. Aarone Shaji (CCAVSMT022) during her period of study in the Department of Mathematics at Christ College (Autonomous), Irinjalakuda, under my supervision and guidance from 2021 to 2024.

Anand M.S Anand
Asst Professor
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda



Dr Seena V Seena V
Head of the Department
Department of Mathematics
Christ College (Autonomous)
Irinjalakuda

V. Vibitha

External Examiner:

Place: Irinjalakuda

Date: 25 March 2024

Dr. V. VIBITHA KOCHAMANI
Assistant Professor
Department Of Mathematics
Mar Dionysius College
Pazhanji, Kunnamkulam -680 542

CERTIFICATE

This is to certify that the project entitled" **TOPOLOGY** " submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the B.Sc. Degree programme in Mathematics, is a bonafide record of original research work done by **Aleena E D** during the period of her study in the Department of Mathematics. Christ College (Autonomous), Irinjalakuda, under my supervision and guidance during the year 2021-2024.



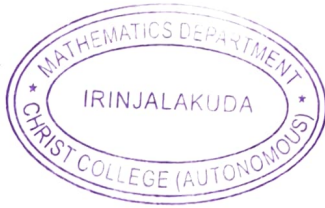
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Place: Irinjalakuda

Date: 25-03-2024

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