

CERTIFICATE



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TECHNOCRATES (INDIA) Pvt. Ltd.  
Abess of Knowledge

**AN ISO 9001 : 2015 CERTIFIED R & D COMPANY**

Recognized by Govt of India Regd.No. U72200TZ2008PTC014714 2008/2009

Third Floor , TNR Complex , Near A.T.C Bus Dipot,  
New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN023

## CERTIFICATE

This Certificate is awarded to

ANUGHA S

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

TOPIC COVERED
.....PYTHON.....
.....



Managing Director  
Optimus Technocrates (India) Pvt Ltd.,

CERTIFICATE



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TECHNOCRATES (INDIA) Pvt. Ltd.  
*Abees of Knowledge*

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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0011

## CERTIFICATE

This Certificate is awarded to

DEEPA S


for successfully completing the Internship Training during  
the period from 29.05.2023 to 16.06.2023

at our SALEM division.

### TOPIC COVERED

.....MATLAB.....



  
Managing Director  
Optimus Technocrates (India) Pvt Ltd.,



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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0018

## CERTIFICATE

This Certificate is awarded to

DHARANI G

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our Salem division.

**TOPIC COVERED**  
.....PYTHON.....  
.....



*[Signature]*  
Managing Director

Optimus Technocrates (India) Pvt Ltd.,

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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0008

## CERTIFICATE

This Certificate is awarded to

DHIVYA K

for successfully completing the Internship Training during  
the period from 29.05.2023 to 16.06.2023

at our SALEM division.

### TOPIC COVERED

MAT.LAB



  
Managing Director

Optimus Technocrates (India) Pvt Ltd.,



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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.



**CERTIFICATE NO : OPTIN0024**

## **CERTIFICATE**

This Certificate is awarded to

DHIYVABHARATHI S


for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

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.....PYTHON.....
.....



  
Managing Director  
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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0009

## CERTIFICATE

This Certificate is awarded to

DIVYA M

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

### TOPIC COVERED

.....MAT.LAB.....  
.....



Managing Director  
Optimus Technocrates (India) Pvt Ltd.,



CERTIFICATE



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*Agency of Knowledge*

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Recognized by Govt of India Regd.No. U72200TY22000PYC01U711 2008/2009

Third Floor , TNR Complex , Near A.T.C Bus Depot,  
New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0020

## CERTIFICATE

This Certificate is awarded to

GOWSHIKA S

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

### TOPIC COVERED

PYTHON



  
Managing Director

Optimus Technocrats (India) Pvt Ltd.,



CERTIFICATE



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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.



**CERTIFICATE NO : OPTINO010**

## **CERTIFICATE**

This Certificate is awarded to

KAVYA P

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023


at our SALEM division.

**TOPIC COVERED**

.....MATLAB.....

.....



  
Managing Director  
Optimus Technocrates (India) Pvt Ltd.,



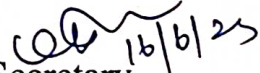
S.6608 NARASINGAPURAM PRIMARY AGRICULTURAL COOP CREDIT SOCIETY LTD.,  
Narasingapuram (Post) Attur (Taluk) Salem (District)

EMAIL : [narasingapuram.6608@gmail.com](mailto:narasingapuram.6608@gmail.com)

**INTERNSHIP CERTIFICATE**

This is to certify that KAVYA R(22MPMA1009), student of II M.S.C., Mathematics, Muthayammal College of Arts and Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship program in the field of Jewel loan issued and collected, books and form maintained, Deposit issued and collection, Savings account maintenance, for a period of 15 days from 29.05.2023 to 16.06.2023.

During the period of her Internship program with us, She was found hardworking, punctual and inquisitive.

  
Secretary 16/6/23

S.6608 Narasingapuram PACCS

Place : Narasingapuram

Date : 16.06.2023





**S.1313.ESWARAMOORTHIPALAYAM**  
**THE PRIMARY AGRICULTURAL CO-OPERATIVE CREDIT BANK**  
**LIMITED**

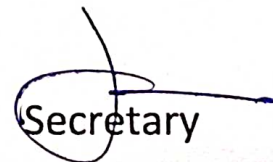
**ESWARAMOORTHI PALAYAM POST, RASIPURAM TALUK,**  
**NAMAKKAL DISTRICT-636202**

**EMAIL:emp1313s@gmail.com**

**INTERNSHIP CERTIFICATE**

This is to certify that KEERTHANA G(22MPMA1010), student of II M.SC.Mathematics , Muthayammal College of Arts and Science(Autonomous),kakkaveri, Rasipuram , has successfully completed an Internship program in the field of Jewel loan issued and collected ,books and form maintained ,Deposit issued and collection ,savings account maintenance,for a period of 15 days from 29.05.2023 to 16.06.2023.

During the period of her Internship program with us , she was found hardworking , punctual ,and inquisitive.

  
Secretary

**S.1313 Eswaramoorthi palayamPAACS**

Place:Eswaramoorthipalayam

Date:16.06.2023



CERTIFICATE



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Abees of Knowledge

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Third Floor , TNR Complex , Near A.T.C Bus Dipot,
New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.



CERTIFICATE NO : OPTIN0017

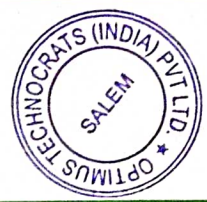
CERTIFICATE

This Certificate is awarded to

KOUSALYA P

for successfully completing the Internship Training during
the period from 29.05.2023 to 16.06.2023
at our SALEM division.

TOPIC COVERED
MATLAB



Handwritten signature of Managing Director

Managing Director
Optimus Technocrates (India) Pvt Ltd.,

CERTIFICATE



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**TECHNOCRATES (INDIA) Pvt. Ltd.**  
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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.



**CERTIFICATE NO : OPTIN0022**

**CERTIFICATE**

This Certificate is awarded to

LAYANYA M

for successfully completing the Internship Training during  
the period from 29.05.2023 to 16.06.2023

at our SALEM division.

**TOPIC COVERED**

.....PYTHON.....

.....



Managing Director  
Optimus Technocrates (India) Pvt Ltd.,

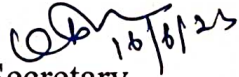


EMAIL : [narasingapuram.6608@gmail.com](mailto:narasingapuram.6608@gmail.com)

**INTERNSHIP CERTIFICATE**

This is to certify that NISHA P(22MPMA1013), student of II M.SC., Mathematics, Muthayammal College of Arts and Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship program in the field of Jewel loan issued and collected, books and form maintained, Deposit issued and collection, Savings account maintenance, for a period of 15 days from 29.05.2023 to 16.06.2023.

During the period of her Internship program with us, She was found hardworking, punctual and inquisitive.

  
Secretary

S.6608 Narasingapuram PACCS

Place : Narasingapuram

Date : 16.06.2023



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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0016

## CERTIFICATE

This Certificate is awarded to

PADMAPRIYA R

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

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Managing Director

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CERTIFICATE



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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0014

## CERTIFICATE

This Certificate is awarded to

PUNITHAYALLI K

for successfully completing the Internship Training during


the period from 29.05.2023 to 16.06.2023

at our SALEM division.

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.....MATLAB.....  
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Managing Director  
Optimus Technocrates (India) Pvt Ltd.,

**1239 A.AYEEPALAYAM PRIMARY AGRICULTURAL  
CO-OPERATIVE CREDIT SOCIETY LTD.  
ATHANUR PO,RASIPURAM TK,NAMAKKAL DT-636301**

**INTERNSHIP OF CERTIFICATE**

This is to certify that M.SAKTHIPRIYA (22MPMA1016), Student of II M.SC, Mathematics,Muthayammal college of ArtsandScience(Autonomous),Kakkaveri,Rasipuram,has successfully completed an Internship programe in the field of jewel loan issued and collected ,books and form maintained, Deposit issued and collection,savings account maintanence, for a period of 15 days from (29.05.2023 to 16.06.2023)

During the period of her Internship program with us,she was found hardworking,punctual,and inquisitive.



  
Secretary

**S1239 A.Ayeepalayam PACCS**

**Place :A Ayeepalayam**

**Date : 16.06.2023**



EMAIL : [narasingapuram.6608@gmail.com](mailto:narasingapuram.6608@gmail.com)

**INTERNSHIP CERTIFICATE**

This is to certify that SANGAVI R(22MPMA1017), student of II M.SC., Mathematics, Muthayammal College of Arts and Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship program in the field of Jewel loan issued and collected, books and form maintained, Deposit issued and collection, Savings account maintenance, for a period of 15 days from 29.05.2023 to 16.06.2023.

During the period of her Internship program with us, She was found hardworking, punctual and inquisitive.

*[Handwritten Signature]*  
Secretary 16/6/23

S.6608 Narasingapuram PACCS

Place : Narasingapuram

Date : 16.06.2023



CERTIFICATE



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TECHNOCRATES (INDIA) Pvt. Ltd.  
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**CERTIFICATE NO : OPTIN0025**

## **CERTIFICATE**

This Certificate is awarded to

SARANYA K

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

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.....PYTHON.....
.....



  
Managing Director  
Optimus Technocrates (India) Pvt Ltd.,

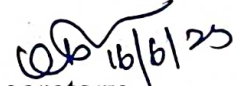


EMAIL : [narasingapuram.6608@gmail.com](mailto:narasingapuram.6608@gmail.com)

**INTERNSHIP CERTIFICATE**

This is to certify that **SIVASANKARI B(22MPMA1019)**, student of **II M.SC., Mathematics, Muthayammal College of Arts and Science (Autonomous), Kakkaveri, Rasipuram**, has successfully completed an Internship program in the field of Jewel loan issued and collected, books and form maintained, Deposit issued and collection, Savings account maintenance, for a period of 15 days from **29.05.2023 to 16.06.2023**.

During the period of her Internship program with us, She was found hardworking, punctual and inquisitive.

  
Secretary

S.6608 Narasingapuram PACCS

Place : Narasingapuram

Date : 16.06.2023



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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0019

## CERTIFICATE

This Certificate is awarded to

SOWMIYA C.S

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

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.....PY.T.HON.....  
.....



  
Managing Director  
Optimus Technocrats (India) Pvt Ltd.,



CERTIFICATE



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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.



CERTIFICATE NO : OPTIN0013

CERTIFICATE

This Certificate is awarded to

ARIVAZHAGIAN S

for successfully completing the Internship Training during
the period from 29.05.2023 to 16.06.2023

at our SALEM division.

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MATLAB



Managing Director
Optimus Technocrates (India) Pvt Ltd.,

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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0015

## CERTIFICATE

This Certificate is awarded to

GOWRISANKAR A

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

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MATLAB
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Managing Director  
Optimus Technocrates (India) Pvt Ltd.,



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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

CERTIFICATE NO : OPTIN0007

## CERTIFICATE

This Certificate is awarded to

GOWTHAM L


for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

**TOPIC COVERED**  
.....MATLAB.....  
.....



  
Managing Director  
Optimus Technocrates (India) Pvt Ltd.,

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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.

**CERTIFICATE NO : OPTIN0012**

## **CERTIFICATE**

This Certificate is awarded to

NISHANTH K.A

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

### **TOPIC COVERED**

MATLAB



Managing Director

Optimus Technocrates (India) Pvt Ltd.,



CERTIFICATE



**OPTIMUS**  
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New Bus Stand, Salem - 636009 . Ph: 0427 - 7963185.



**CERTIFICATE NO : OPTIN0021**

## **CERTIFICATE**

This Certificate is awarded to

NITHYAMOORTHY K

for successfully completing the Internship Training during

the period from 29.05.2023 to 16.06.2023

at our SALEM division.

<b>TOPIC COVERED</b>
.....PYTHON.....
.....



  
Managing Director  
Optimus Technocrats (India) Pvt Ltd.,

S.6608 NARASINGAPURAM PRIMARY AGRICULTURAL COOP CREDIT SOCIETY LTD.,  
Narasingapuram (Post) Attur (Taluk) Salem (District)

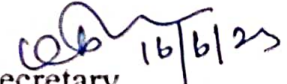
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EMAIL : [narasingapuram.6608@gmail.com](mailto:narasingapuram.6608@gmail.com)

**INTERNSHIP CERTIFICATE**

This is to certify that SELVALINGESHWARAN S(22MPMA1026), student of II M.SC., Mathematics, Muthayammal College of Arts and Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship program in the field of Jewel loan issued and collected, books and form maintained, Deposit issued and collection, Savings account maintenance, for a period of 15 days from 29.05.2023 to 16.06.2023.

During the period of her Internship program with us, She was found hardworking, punctual and inquisitive.

  
Secretary 16/6/23

S.6608 Narasingapuram PACCS

Place : Narasingapuram

Date : 16.06.2023





S.1070, BEGARAHALLI

THE PRIMARY AGRICULTURAL CO-OPERATIVE CREDIT BANK LIMITED

BEGARAHALLI VILL POST, PALACODE,

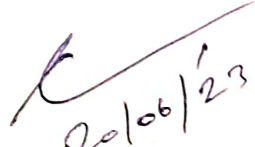
TAMIL NADU- 636808.



**INTERNSHIP CERTIFICATE**

This is to certify that VINOTH KUMAR C(22MPMA1027), student of II M.Sc Mathematics, Muthayammal College of Arts and Science(autonomous), kakkaveri, Rasipuram, has successfully completed an Internship program in the field of Jewel loan issued and collected, books and form maintained, deposit issued and collection, savings account maintenance, for period of 15 days from 30.05.2023 to 20.06.2023.

During the period of his internship program with us, he was found hardworking,  
punctual, and inquisitive.

  
20/06/23  
**SECRETARY**  
S.1070, BEGARAHALLI PAACS  
S.1070, Begarahalli PAACS

Place: Begarahalli

Date: 20.06.2023

# **A STUDY ON UNIFORM CONTINUITY**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

## **MASTER OF SCIENCE IN MATHEMATICS**

By

**ANUSHA S**

**(Reg. No: 22MPMA1001)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VAIHETRA

**Under the Guidance of**

**Mrs. R. MALATHI, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH-2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
AUMETOP VANETRA  
LEARN  
LEAD

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON **UNIFORM CONTINUITY**" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **ANUSHA S (Reg. No: 22MPMA1001)** during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*R. Manitha*  
**Project Guide**

*K. Logarasi*  
**Head of the Department**  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08-04-2024

**Examiners:**

1. *K. Logarasi*

(**Dr. K. LOGARASI**)

2. *[Signature]*

# **A STUDY ON ORDERED ABELIAN GROUPS**

*Project report submitted to Periyar University, Salem in partial fulfillment  
of the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**DEEPA S**

**(Reg. No: 22MPMA1002)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
A PART OF VANETRA**

**Under the Guidance of**

**Mrs. R.MALATHI, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
Affiliated to Periyar University, Salem.  
Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALPHA OF VANETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON ORDERED ABELIAN GROUPS" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by DEEPA S (Reg. No: 22MPMA1002) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associate's ship / Fellowship or similar title to any candidate of any University.

*R. Marshall*

Project Guide

*K. Jayasankar*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1. Dr. K. JAYARAJ  
*K. Jayasankar*

2. *[Signature]*  
(Dr. P. LAKSHMANAN)

# **A STUDY ON COUNTABILITY AXIOMS**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**DHARANI G**

**(Reg. No: 22MPMA1003)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
ALUNY OF VANETRA**

**Under the Guidance of**

**Mrs. R. MALATHI, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
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**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)**  
ASPECT OF VANEYRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON COUNTABILITY AXIOMS" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by DHARANI G (Reg. No: 22MPMA1003) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*R. Malathi*

Project Guide

*K. Jayaraman*

Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
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RASIPURAM (TK), NAMAKKAL (DT)-637 408

Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1. *R. Malathi*  
08/04/24  
[R. MALATHI]

2. *P. Lakshmi*  
(Dr. P. LAKSHMI)

# **A STUDY ON DIOPHANTINE EQUATION**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**DHIVYA K**

**(Reg. No: 22MPMA1004)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
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ASUNET BANNETRA

**Under the Guidance of**

**Mrs. R. MALATHI, M.Sc., M.Phil., B.Ed.,**  
**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**  
**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH-2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(F) & 12(B).

Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALUNIA VARANASI

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON DIOPHANTINE EQUATION" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by DHIVYA K (Reg. No: 22MPMA1004) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*R. Malathi*  
Project Guide

*K. Jayaraman*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1. *R. Malathi*  
08/04/24  
[R. MALATHI]

2. *D. Jany*  
18/04/24  
(DOR. P. LAKSHMAN)

# **A STUDY ON BE-ALGEBRAS**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**DHIVYABHARATHI S**

**(Reg. No: 22MPMA1005)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
SUNNITOP VAKHETRA



**Under the Guidance of**

**Mrs. R. PARVATHA, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem,  
Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**




**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALUMNI OF VIGNETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON BE-ALGEBRAS" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by DHIVYABHARATHI S (Reg. No: 22MPMA1005) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

  
Project Guide

[ R. PARVATHA ]

  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
RASIPURAM, NAMAKKAL DISTRICT, TAMIL NADU - 637408

Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1.   
8/4/2024  
[ R. PARVATHA ]

2.   
(Mrs. P. Lakshmi)

# **A STUDY ON ISOMORPHISM GROUPOIDS AND NORMAL SUBGROUPOIDS**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**DIVYA M**

**(Reg. No: 22MPMA1006)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)**

A UNIT OF VANETRA



**Under the Guidance of**

**Mrs. R. PARVATHA, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALPETHA VANIETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON ISOMORPHISM GROUPOIDS AND NORMAL SUBGROUPOIDS" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by DIVYA M (Reg. No: 22MPMA1006) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

Project Guide

[R. PARVATHA]

Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1.   
8/4/2024  
[R. PARVATHA]

2.

(Mrs. P. Laxmi)

**A STUDY ON MONOTONE COUNTABLE  
PARACOMPACTNESS AND MAPS TO ORDERED  
TOPOLOGY VECTOR SPACE**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

By

**GOWSHIKA S**

(Reg. No: 22MPMA1007)



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ASWETHA MANETRA

Under the Guidance of

**Mrs. R. PARVATHA, M.Sc., M.Phil., B.Ed.,**

(Assistant Professor)

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH-2024**



MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram-637408, Namakkal District, Tamil Nadu.

DEPARTMENT OF MATHEMATICS



MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE

(Autonomous)

AMBIT OF VANETRA

1997  
1998

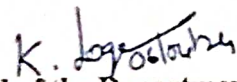
CERTIFICATE

This is to certify that the Project Report entitled "A STUDY ON MONOTONE COUNTABLE PARACOMPACTNESS AND MAPS TO ORDERED TOPOLOGY VECTOR SPACE" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by GOWSHIKA S (Reg. No: 22MPMA1007) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.



Project Guide

[R. PARVATHA]



Head of the Department

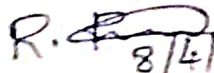
DEPARTMENT OF MATHEMATICS

MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)

RASIPURAM (TK), NAMAKKAL (DT)-637 408,

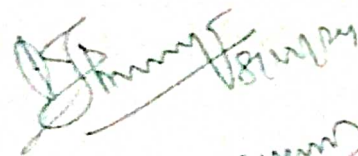
Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1.  8/4/24

[R. PARVATHA]

2.



(K. Loganathan)

**A STUDY ON BOUNDED AND COMPACT SETS ON  
METRIC SPACE**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**KAVYA P**

**(Reg. No: 22MPMA1008)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALAKETOF VANETRA

1997  
1998



**Under the Guidance of**

**Mrs. R. PARVATHA, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
Affiliated to Periyar University, Salem.  
Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANHEERA

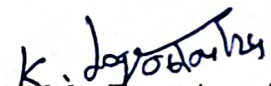
**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON BOUNDED AND COMPACT SETS ON METRIC SPACE" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by KAVYA P (Reg. No: 22MPMA1008) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.



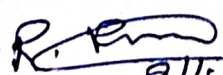
Project Guide


[R. PARVATHA]

  
Head of the Department  
DEPARTMENT OF MATHEMATICS  
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RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1.   
8/4/2024  
[R. PARVATHA]

2.   
(D. J. Jayaraman)

**A STUDY ON SEPARATION AXIOMS IN  
TOPOLOGICAL SPACES**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**KAVYA R**

**(Reg. No: 22MPMA1009)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALMAYYANETRA

**Under the Guidance of**

**Mr. K. DHINESH KUMAR, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



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Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



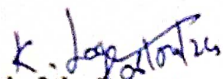
**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON SEPARATION AXIOMS IN TOPOLOGICAL SPACES" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by KAVYA R (Reg. No: 22MPMA1009) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

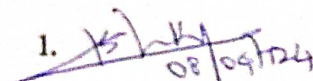
  
Project Guide

[K. DHINESH KUMAR]

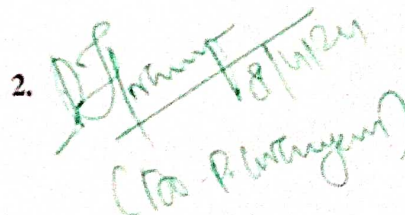
  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1.   
08/04/24

[K. Dhinesh Kumar]

2.   
08/04/24  
(Dr. P. Anand)

# **A STUDY ON PERFECT NUMBERS**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**KEERTHANA G**

**(Reg. No: 22MPMA1010)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
A UNIT OF VANETRA**

**Under the Guidance of**

**Mr. K. DHINESH KUMAR, M.Sc., M.Phil., B.Ed.,  
(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'B' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



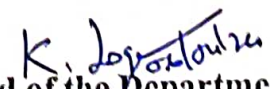
**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALPETO VANETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON PERFECT NUMBERS" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **KEERTHANA G (Reg. No: 22MPMA1010)** during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

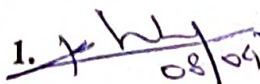
  
Project Guide

[K. DHANESH KUMAR]

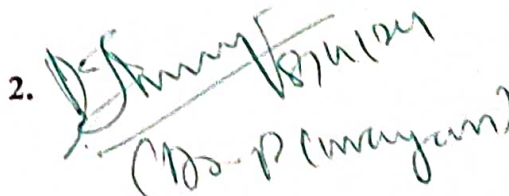
  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08-04-2024

Examiners:

1.   
08/04/24

[K. Dhanesh Kumar]

2.   
(K. Jayaraman)

**A STUDY ON FUNCTIONS IN BITOPOLOGICAL SPACES**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

By

**KOUSALYA P**

(Reg. No: 22MPMA1011)



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA

**Under the Guidance of**

**Mr. K. DHINESH KUMAR, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



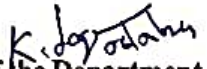
**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ASPECT OF VARNETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON FUNCTIONS IN BITOPOLOGICAL SPACES" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **KOUSALYA P (Reg. No: 22MPMA1011)** during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

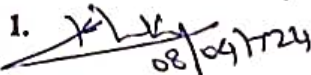
  
Project Guide

[K-DHINESH KUMAR]

  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 02.04.2024

**Examiners:**

1.   
08/04/24

[K. Dhinesh Kumar]

2.   
8/4/24

(P. Vasudevan)



**A STUDY ON UNIFORM BOUNDEDNESS PRINCIPLE  
AND HAHN-BANACH THEOREM**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**LAVANYA M**

**(Reg. No: 22MPMA1012)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
KUMARAKONNETRA, SALEM**

**Under the Guidance of**

**Mrs. G. SELVI, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem,

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B).

Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALUNTOR MANETRA

1988  
1988

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON UNIFORM BOUNDEDNESS PRINCIPLE AND HAHN-BANACH THEOREM" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by LAVANYA M (Reg. No: 22MPMA1012) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*G. Selvi*  
Project Guide  
[G. SELVI]

*K. Jayabalan*  
Head of the Department  
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Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1. *G. Selvi*  
08/04/2024

2. *D. Anny*  
08/04/2024



# **A STUDY ON RHOTRIX**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**NISHA P**

**(Reg. No: 22MPMA1013)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
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A UNIT OF MANETRA

**Under the Guidance of**

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**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

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**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
Affiliated to Periyar University, Salem.  
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**DEPARTMENT OF MATHEMATICS**




**MUTHAYAMMAL  
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AND SCIENCE**  
(Autonomous)  
ALPETO VANETRA

**CERTIFICATE**

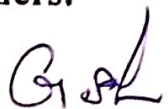
This is to certify that the Project Report entitled "A STUDY ON RHOTRIX" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **NISHA P (Reg. No: 22MPMA1013)** during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

  
Project Guide  
[G. SELVI]

  
Head of the Department  
HEAD OF THE DEPARTMENT  
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RASIPURAM (TN), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024.

**Examiners:**

1.   
[G. SELVI]

2. 

**A STUDY ON  $S_\alpha$  - CONNECTEDNESS IN  
TOPOLOGICAL SPACE**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**PADMAPRIYA R**

**(Reg. No: 22MPMA1014)**



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Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**





**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram-637408, Namakkal District, Tamil Nadu.

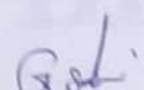
**DEPARTMENT OF MATHEMATICS**



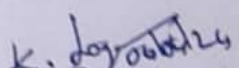
**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VIGNETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON  $S_n$  - CONNECTEDNESS IN TOPOLOGICAL SPACE" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **PADMAPRIYA R** (Reg. No: 22MPMA1014) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

  
Project Guide

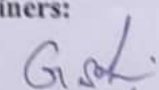
[G. SELVI]

  
Head of the Department  
HEAD OF THE DEPARTMENT

DEPARTMENT OF MATHEMATICS  
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(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (Dt)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1.   
08/04/2024

2. 

**A STUDY ON ROTATIONAL SURFACES IN  
EUCLIDEAN SPACES**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**PUNITHAVALLI K**

**(Reg. No: 22MPMA1015)**



**MUTHAYAMMAL  
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AND SCIENCE**  
(Autonomous)  
A UNIT OF VANNIAR UNIVERSITY



**Under the Guidance of**

**Mrs. P. SUBHA, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH-2024**



MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

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Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

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DEPARTMENT OF MATHEMATICS



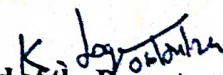
MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
AUNITEE VAMNETRA

1999  
1998

CERTIFICATE


This is to certify that the Project Report entitled "A STUDY ON ROTATIONAL SURFACES IN EUCLIDEAN SPACES" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by PUNITHAVALLI K (Reg. No: 22MPMA1015) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

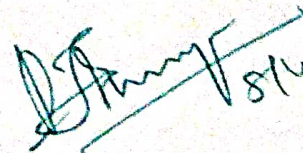
  
Project Guide.  
P. SUBHAJ

  
Head of the Department  
HEAD OF THE DEPARTMENT  
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(AUTONOMOUS)  
RASIPURAM (TN), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1.   
8/4/24.

2.   
8/4/24



**A STUDY ON THE GCD SEQUENCE OF FIBONACCI  
AND ALTERED LUCAS SEQUENCE**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**SAKTHIPRIYA M**

**(Reg. No: 22MPMA1016)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA

**Under the Guidance of**

**Mrs. P.SUBHA, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem,

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
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**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
RASIPURAM**

U-1000  
U-1000

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON THE GCD SEQUENCE OF FIBONACCI AND ALTERED LUCAS SEQUENCE" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **SAKTHIPRIYA M (Reg. No: 22MPMA1016)** during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*P. Subha*  
Project Guide  
[P. SUBHA]

*K. Jayanthi*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1. *P. Subha*  
08/4/24,

2. *B. Srinivasan*  
8/4/24

# **STUDY ON IDEALS IN COMMUTATIVE RINGS**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**SANGAVI R**

**(Reg. No: 22MPMA1017)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA

**Under the Guidance of**

**Mrs. P. SUBHA, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem,

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem,

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
AUNTY VANETRA

1999  
1998

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON IDEALS IN COMMUTATIVE RINGS" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by SANGAVI R (Reg. No: 22MPMA1017) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*P. Subha*  
Project Guide  
(P. SUBHA)

*K. Loganathan*  
Head of the Department  
HEAD OF THE DEPARTMENT  
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RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1. *P. Subha*  
8/4/24.

2. *D. M. Jeyan*

# **A STUDY ON $n$ -NORMED SPACES**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**SARANYA K**

**(Reg. No: 22MPMA1018)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
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(Autonomous)  
SALAM**

**Under the Guidance of**

**Dr. K. LOGAARASI, M.Sc., M.Phil., B.Ed., SET, Ph.D.,**

**(Assistant Professor & Head)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH-2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON  $n$ -NORMED SPACES" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **SARANYA K (Reg. No: 22MPMA1018)** during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*K. Loga Arasi*  
Project Guide

**Dr. K. LOGAARASI**  
M.Sc., M.Phil., B.Ed., SET., Ph.D.,

*K. Loga Arasi*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.06.2024

**Examiners:**

1. *K. Loga Arasi*

2. *Sarany K*

# **A STUDY ON FUZZY MATRICES**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

## **MASTER OF SCIENCE IN MATHEMATICS**

**By**

**SIVASANKARI B**

**(Reg. No: 22MPMA1019)**



**MUTHAYAMMAL  
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ALUMNI VANETRA**

**Under the Guidance of**

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**(Assistant Professor & Head)**

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Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON FUZZY MATRICES" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by SIVASANKARI B (Reg. No: 22MPMA1019) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*K. Loggobal*  
Project Guide

**Dr. K. RASIKAN**  
M.Sc., M.Phil., B.Ed., SET., Ph.D.,

*K. Loggobal*

**Head of the Department**  
HEAD OF THE DEPARTMENT  
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RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1. *K. Loggobal*

2. *[Signature]*

# **A STUDY ON HEINE-BOREL THEOREM**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**SOWMIYA C.S**

**(Reg. No: 22MPMA1020)**



**MUTHAYAMMAL  
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AND SCIENCE  
(Autonomous)  
A UNIT OF VANETRA**

**Under the Guidance of**

**Dr. K. LOGAARASI M.Sc., M.Phil., B.Ed., SET, Ph.D.,  
(Assistant Professor & Head)**

**DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH-2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALUMNI OF VANETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON HEINE-BOREL THEOREM" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by SOWMIYA C.S (Reg. No: 22MPMA1020) during the period of her study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*K. Loga Arasi*  
Project Guide

**Dr. K. LOGAARASI**  
M.Sc., M.Phil., B.Ed., SET., Ph.D.,

*K. Loga Arasi*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1. *K. Loga Arasi*

2. *[Signature]* 8114124

# **A STUDY ON LINEARLY II-CLOSED SPACES**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

By

**ARIVAZHAGAN S**

(Reg. No: 22MPMA1021)



Under the Guidance of

**Mrs. R. MALATHI, M.Sc., M.Phil., B.Ed.,**  
(Assistant Professor)

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



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Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA GROUP

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**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON LINEARLY H-CLOSED SPACES" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by ARIVAZHAGAN S (Reg. No: 22MPMA1021) during the period of his study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

\*

*R. Malathi*

Project Guide

*K. Jayaraman*

Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024.

**Examiners:**

1. *R. Malathi*  
08/04/24  
[R. MALATHI]

2. *[Signature]*  
(Dr. Jayaraman)

# **A STUDY ON MATRIX RING**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**GOWRISANKAR A**

**(Reg. No: 22MPMA1022)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALPETH VANEETRA

**Under the Guidance of**

**Mrs. R. PARVATHA, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
Affiliated to Periyar University, Salem.  
Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**




**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
RASIPURAM

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON MATRIX RING" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **GOWRISANKAR A (Reg. No: 22MPMA1022)** during the period of his study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

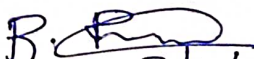
  
Project Guide

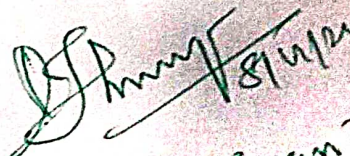
[R. PARVATHA]

  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (Dt)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1.   
8/4/2024  
[R. PARVATHA]

2.   
(Deepa Lakshmi)

# **A STUDY ON PERFECT AND NEAR PERFECT NUMBERS**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**GOWTHAM L**

**(Reg. No: 22MPMA1023)**



**Under the Guidance of**

**Mr. K. DHINESH KUMAR, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**  
**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



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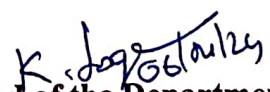
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**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON PERFECT AND NEAR PERFECT NUMBERS" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **GOWTHAM L (Reg. No: 22MPMA1023)** during the period of his study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

  
Project Guide

[K. DHINESH KUMAR]


  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408

Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1.   
08/04/24

[K. Dhinesh Kumar]

2.   
8/4/24  
(P. Anand)

# **A STUDY ON MV- ALGEBRAS**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

By

**NISHANTH K A**

(Reg. No: 22MPMA1024)



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA GROUP

✻

Under the Guidance of

**Mrs. G. SELVI, M.Sc., M.Phil., B.Ed.,**

(Assistant Professor)

**DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH-2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
AMUTHA VANETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON MV-ALGEBRAS" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by NISHANTH K A (Reg. No: 22MPMA1024) during the period of his study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University. \*

*G. Selvi*  
Project Guide  
[G. SELVI]

*K. Jayaraman*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (T), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

**Examiners:**

1. *G. S. L.*  
08/04/2024

2. *[Signature]*  
8/4/24

**A STUDY ON GENERAL BOUNDARY  
CONDITIONS FOR AN ORDINARY LINEAR AND  
NONLINEAR DIFFERENTIAL EQUATIONS**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

**By**

**NITHYA MOORTHY K**

**(Reg. No: 22MPMA1025)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
ALUMNI VANETRA**

**Under the Guidance of**

**Mrs. P. SUBHA, M.Sc., M.Phil., B.Ed.,  
(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem.**

**Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH-2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
Affiliated to Periyar University, Salem.  
Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
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AND SCIENCE**  
(Autonomous)  
A UNIT OF VANAVETRA

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON GENERAL BOUNDARY CONDITIONS FOR AN ORDINARY LINEAR AND NONLINEAR DIFFERENTIAL EQUATIONS" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of MASTER OF SCIENCE IN MATHEMATICS is a record of original research work done by NITHYA MOORTHY K (Reg. No: 22MPMA1025) during the period of his study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*P. Subha*  
Project Guide  
[P. SUBHA]

*K. Jayalalitha*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1. *P. Subha* 8/4/24.

2. *D. Anand* 8/4/24



**A STUDY ON GENERALISED CONE METRIC  
SPACES AND COMMON FIXED POINTS**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

By

**SELVALINGESHWARAN S**

(Reg. No: 22MPMA1026)



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Under the Guidance of

**Dr.K.LOGAARASI, M.Sc., M.Phil., B.Ed.,SET, Ph.D.,**

(Assistant Professor & Head)

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
Affiliated to Periyar University, Salem.  
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Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA GROUP

1800-100-1000

**CERTIFICATE**

This is to certify that the Project Report entitled "**A STUDY ON GENERALISED CONE METRIC SPACES AND COMMON FIXED POINTS**" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **SELVALINGESHWARAN S (Reg. No: 22MPMA1026)** during the period of his study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*K. Loga Arasi*  
Project Guide

**Dr. K. LOGAARASI**  
M.Sc., M.Phil., B.Ed., SET., Ph.D.,

*K. Loga Arasi*

**Head of the Department**  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TN), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 08/02/2024

Examiners:

1. *K. Loga Arasi*

2.

*D. Arumugam*  
8/2/24

**SEQUENTIAL CONVERGENCE IN GENERALIZED  
TOPOLOGICAL SPACE**

*Project report submitted to Periyar University, Salem in partial fulfillment of  
the requirements for the award of degree of*

**MASTER OF SCIENCE IN MATHEMATICS**

By

**VINOTHKUMAR C**

(Reg. No: 22MPMA1027)



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
AUM VINETRA

Under the Guidance of

Mrs. G. SELVI, M.Sc., M.Phil., B.Ed.,

(Assistant Professor)

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with 'A' grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram-637408, Namakkal District, Tamil Nadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**

(Autonomous)

ASPECT OF VIGNETRA

1997

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON SEQUENTIAL CONVERGENCE IN GENERALIZED TOPOLOGICAL SPACE" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **MASTER OF SCIENCE IN MATHEMATICS** is a record of original research work done by **VINOTHKUMAR C (Reg. No: 22MPMA1027)** during the period of his study (2022-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*G. S. S.*  
Project Guide  
*[G. S. S.]*

*K. Jayaraman*  
Head of the Department  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TI), NAMAKKAL (DT)-637 408

Submitted for the project viva-voce examination held on 08.04.2024

Examiners:

1. *G. S. S.*  
08/04/2024

2. *[Signature]*  
18/04/2024

கூட்டுறவே!



நாட்டுயர்வு!!

எஸ் 1441 நடுவனேரி தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட் .  
நடுவனேரி (PO) வேம்படிதாளம் (via) சங்ககிரி (tk) சேலம் (dt) பின் 637504

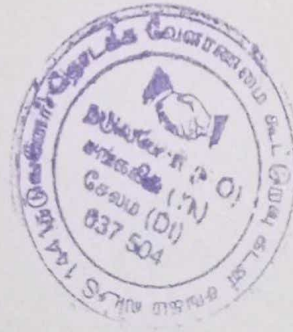
Date: 15.06.2023

**CERTIFICATE OF INTERNSHIP**

**TO WHOM IT MAY CONCERN**

This is to certify that **ABI B (21MUMA1001)**, student of III B.Sc. Mathematics, Muthayammal College of Arts And Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship program in the in our cooperative bank for a period of 15 days from 29.05.2023 to 15.06.2023

During the period of her Internship program with us, she was found hardworking, punctual and inquisitive.



*(Handwritten signature)*  
15.6.23

Secretary

s1441 NADUVANERI PACCS



Agrotop



## Agrotop Farm Equipment Private Limited

12/214, Hospital Road, Thammampatty Post, Gangavalli Taluk, Salem - 636113, TN, India.  
Tel.: 04282 226638 • E-mail: agrotop.india@gmail.com • GSTIN: 33AAHCS3132M1ZC

Date: 15-06-2023

### CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Selvi.S.ARTHI, registration number 21MUMA1002, B.Sc Mathematics student of Muthayammal College of Arts and Science, Rasipuram, Namakkal District 637408, had undergone in-plant training at our company from 29-05-2023 to 14-06-2023. She has completed the training satisfactorily.

We wish her all the success in her future endeavours.

Agrotop Farm Equipment Pvt.Ltd.

K.R.Subramanian  
Director



GST : 33AAQAS2335D1ZN

வாழ்க கூட்டுறவு !



வளர்க கூட்டுறவு !!

220235

**S. 284, பருத்திப்பள்ளி  
தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் பிரிவு**

பருத்திப்பள்ளி அஞ்சல், திருச்செங்கோடு வட்டம், நாமக்கல் மாவட்டம்.

E-mail : paruthipallipacs@gmail.com



நாள் : 17 06 2023

**CERTIFICATE OF INTERNSHIP  
TO WHOM IT MAY CONCERN**

This is to certify that **ARUNDHATHI.V (21MUMA1003)** student of III B.Sc. Mathematics , Muthayammal College of Arts and Science( Autonomous), Kakkaveri , Rasipuram has successfully completed an Internship program in the field of banking sector for a period of 15 days from 31.05.2023 to 17.06.2023.

During the period of her Internship program with us , she was found hardworking punctual and inquisitive.

  
SECRETARY,  
S. 284, PARUTHIPALLI PACCS Ltd.  
Manager /Secretary



Agrotop



# Agrotop Farm Equipment Private Limited

12/214, Hospital Road, Thammampatty Post, Gangavalli Taluk, Salem - 636113. TN. India.  
Tel.: 04282-226638 • E-mail: agrotop.india@gmail.com • GSTIN: 33AAHCS3132M1ZC

Date: 15-06-2023

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Selvi.R.BIRUNTHA**, registration number 21MUMA1004, B.Sc Mathematics student of Muthayammal College of Arts and Science, Rasipuram, Namakkal District 637408, had undergone in-plant training at our company from 29-05-2023 to 14-06-2023. She has completed the training satisfactorily.

We wish her all the success in her future endeavours.

Agrotop Farm Equipment Pvt.Ltd.

K.R.Subramanian  
Director





# SRI VIGNESHWARA CONFECTIONERY

Cell : 94432 69881  
94432 69882  
94432 69883

Date: 19-06-2023

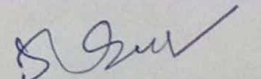
## TO WHOM IT MAY CONCERN

This is to certify that Mr. V. Ashwinth (21MUMA1044), B.Sc – II Mathematics student of Muthayammal College of Arts and Science (Autonomous), Rasipuram has successfully completed internship in our Factory from 01-06-2023 to 17-06-2023.

During the period of her/his internship program with us, she/he had been exposed to different processes and found diligent, hardworking and inquisitive.

## AUTHORISED SIGNATURE

For SRI VIGNESHWARA CONFECTIONERY

  
Managing Partner.





# SINGAPORE TECHNOLOGIES

No. 396, Codea Nagar, (Opp. Codea Park), S.S. Kulam,  
Kurumbapalayam (Po.), Coimbatore - 641 107, Tamilnadu, India  
E-mail : singaporetechnologies2013@yahoo.in Mobile : 80567 07173

---

Date : 15.06.2023

## CERTIFICATE OF INTERNSHIP

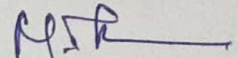
### TO WHOM IT MAY CONCERN

This is to certify that **DEVIKA M (21MUMA1006)**, student of III B.sc, Mathematics , Muthayammal college of Arts And Science (Autonomous), Kakkaveri, Rasipuram has successfully completed an Internship program in the field of **SINGAPORE TECHNOLOGIES, COIMBATORE** for a period of 15 days, from 30.05.2023 to 15.06.2023.

During the period of her Internship program with us, she was found hardworking, punctual and inquisitive.



For SINGAPORE TECHNOLOGIES

  
Partner







GSTIN : 33AAMCS4120L1ZB  
PAN No : AAMCS4120L

CIN No : U15209TZ2008PTC014759  
FSSAI : 10012042000427

## **SKA DAIRY FOODS INDIA PRIVATE LIMITED**

(ISO 9001 : 2015, ISO 22000 : 2005, ISO 14001 : 2015 EIA Certified Company)

Regd. Office / Factory-1 158/1, South Muthampatti Post, Valappady-Tk., Salem - 636 111, Tamilnadu, India.  
Phone : 04292 - 222733, 222655, Email Id : skadairy@gmail.com

Date : .....20.06.2023.....

### **CERTIFICATE**

*This is to certify that Miss. Dhivya Sri M student of Muthayammal College Of Arts And Science, Rasipuram have completed her internship training at our company S K A Dairy Foods India (P) Ltd., located at South Muthampatty post, Vazhapady , Salem , Tamilnadu- 636111 .*

*Course of study : B.Sc. Mathematics*

*Reg. No : 21MUMA1008*

*Period : 06.06.2023 TO 20.06.2023*

*During this period she was found Punctual, hard working and inquisitive. We wish her every success in Life.*

**Human Resource Department**

**SKA DAIRY FOODS INDIA (P) LTD.,  
Southmuthampatty (PO.)  
Valappady (Tk.)  
Salem (Dt.) Tamil Nadu  
Pin: 636 111**



# SRI VIGNESHWARA CONFECTIONERY

Cell : 94432 69881  
94432 69882  
94432 69883

Date: 19-06-2023

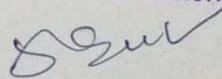
## TO WHOM IT MAY CONCERN

This is to certify that Mr. M. Chandru (21MUMA1045), B.Sc – II Mathematics student of Muthayammal College of Arts and Science (Autonomous), Rasipuram has successfully completed internship in our Factory from 01-06-2023 to 17-06-2023.

**During the period of her/his internship program with us, she/he had been exposed to different processes and found diligent, hardworking and inquisitive.**

## AUTHORISED SIGNATURE

For SRI VIGNESHWARA CONFECTIONERY

  
Managing Partner.





# SRI VIGNESHWARA CONFECTIONERY

Cell : 94432 69881  
94432 69882  
94432 69883

Date: 19-06-2023

## TO WHOM IT MAY CONCERN

This is to certify that Mr. P. Dhamodharan (21MUMA1046), B.Sc – II Mathematics student of Muthayammal College of Arts and Science (Autonomous), Rasipuram has successfully completed internship in our Factory from 01-06-2023 to 17-06-2023.

**During the period of her/his internship program with us, she/he had been exposed to different processes and found diligent, hardworking and inquisitive.**

## AUTHORISED SIGNATURE

For SRI VIGNESHWARA CONFECTIONERY

  
Managing Partner.



**GT AUTO AGENCIES PRIVATE LIMITED**

74-1/100-A, Subramaniya Nagar II Gate,  
Junction Main Road, SALEM - 636 005.

CIN : U50400TZ2021PTC036236

GSTIN : 33AAJCG0321Q1ZL

Ph. : 0427-3500360, 3500361

E-mail : gtauto.pvtltd@tvsmdealers.co.in

Date: 14.06.2023

**CERTIFICATE OF INTERNSHIP**

**TO WHOM IT MAY CONCERN**

This is certify that KALAIVANI.S (21MUMA1012),student of III B,Sc., Mathematics,  
Muthayammal College of Arts & Science (Autonomous),Kakkaveri,Rasipuram,has  
successfully completed an Internship Program in the field to Customer Care from 29.05.2023  
to 14.06.2023 for the 15days period.

During the period of her Internship program with us, she was found hand working punctual  
and inquisitive.

**For G T Auto Agencies Private Limited**

**Authorized Signatory**

**G T AUTO AGENCIES PRIVATE LIMITED**

No:74-1/100-A. Subramaniya Nagar

2nd Gate Junction Main Road

**BRANCHES :**

~~9/13, Chakkara~~ Ramalingam Street, Old Saradha Theatre, Ammapet Main Road, Salem-636 003.

#11, Sankagiri Main Road, Near Aravind Eye Hospital, Nethimedu, Salem-636 002.



கூட்டுவோம்!



நாட்டுயர்வு !!

☎ 04292 222742

**S.6746, சின்னக்குஷணாபுரம்  
தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.**



பெரிய கிருஷ்ணாபுரம் (P.O.) - 838 115. ஆத்தூர் வட்டம், சேலம் மாவட்டம்.

தேதி 19-06-2023

**CERTIFICATE OF INTERNSHIP**

**TO WHOM IT MAY CONCERN**

This is to certify that KARTHIKA P (21MUMA1013), student of III B.Sc. Mathematics, Muthayammal College of Arts And Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship program in the field of Banking Sector for a period of 15 days from 01.06.2023 to 19.06.2023

During the period of her Internship program with us, she was found hardworking, punctual and inquisitive.

செயலாளர்

S.6746, சின்னக்குஷணாபுரம் தொடக்க  
வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.,

Manager / Secretary



# SINGAPORE TECHNOLOGIES

No. 396, Codea Nagar, (Opp. Codea Park), S.S. Kulam,  
Kurumbapalayam (Po.), Coimbatore - 641 107, Tamilnadu, India  
E-mail : singaporetechnologies2013@yahoo.in Mobile : 80567 07173

---

Date : 15.06.2023

## CERTIFICATE OF INTERNSHIP

### TO WHOM IT MAY CONCERN

This is to certify that **KARUNYA S S (21MUMA1014)**, student of III B.sc, Mathematics , Muthayammal college of Arts And Science (Autonomous), Kakkaveri, Rasipuram has successfully completed an Internship program in the field of **SINGAPORE TECHNOLOGIES, COIMBATORE** for a period of 15 days, from 30.05.2023 to 15.06.2023.

During the period of her Internship program with us, she was found hardworking, punctual and inquisitive.



For SINGAPORE TECHNOLOGIES

*M. TR*

Partner





GSTIN : 33AAMCS4120L1ZB  
PAN No : AAMCS4120L

CIN No : U15209TZ2008PTC014759  
FSSAI : 10012042000427

## **S K A DAIRY FOODS INDIA PRIVATE LIMITED**

(ISO 9001 : 2015, ISO 22000 : 2005, ISO 14001 : 2015 EIA Certified Company)

Regd. Office / Factory-1 158/1, South Muthampatti Post, Valappady-Tk., Salem - 636 111, Tamilnadu, India.  
Phone : 04292 - 222733, 222655, Email Id : skadairy@gmail.com

Date : .....16.06.2023

### **CERTIFICATE**

*This is to certify that **Mr. Dinesh M** student of Muthayammal College Of Arts And Science, Rasipuram have completed his internship training at our company S K A Dairy Foods India (P) Ltd., located at South Muthampatty post, Vazhapady, Salem, Tamilnadu- 636111.*

*Course of study : B.Sc. Mathematics*

*Reg. No : 21MUMA1047*

*Period : 01.06.2023 TO 15.06.2023*

*During this period he was found Punctual, hard working and inquisitive. We wish him every success in Life.*

**HUMAN RESOURCE DEPARTMENT**

**SKA DAIRY FOODS INDIA (P) LTD.,**  
Southmuthampatty (PO.)  
Salem (Dt.) Tamil Nadu  
Pin: 636 111



Inspiring and empowering  
future professionals

# DINESHKANNA B. Sc. , MATHEMATICS

## Technical Consulting Virtual Internship

Certificate of Completion  
July 11th, 2023

Over the period of July 2023, DINESHKANNA B. Sc. , MATHEMATICS has completed practical tasks in:

Assemble the Data  
Data Analysis  
Present the Results

**Renata J. Dohmen**  
Global Head of Early  
Career Talent  
Attraction at SAP

**Tom Brunskill**  
CEO, Co-Founder of  
Forage



கூட்டுறவே !



நாட்டுயர்வு !!

☎ 04292-222031

**S. 437, துக்கியாம்பாளையம்  
தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.,**

துக்கியாம்பாளையம் அஞ்சல், வாழப்பாடி வட்டம், சேலம் மாவட்டம் -636 115.

தேதி .....

அனுப்புதல் :

Date:22.06.2023

**CERTIFICATE**

This is certify that Miss.MAHALAKSHMI.M . (Reg.No. 21MUMA1018) Student Of 3<sup>rd</sup> year B.Sc., Mathematics, Muthayammal college of Arts & Science (Autonomous) Kakkaveri, Rasipuram -637408. Namakkal (Dt) has successfully completed an Internship Programme in the field of banking from 06.06.2023 to 22.06.2023 for the period of 15 days in our bank.

During the period of her Internship Programme with us. She was found hardworking , punctual and inquisitive.

*செயலாளர்*  
S. 437, துக்கியாம்பாளையம் தொடக்க  
வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.



# RASIPURAM CO-OPERATIVE URBAN BANK LTD., No. 6649

RASIPURAM - 637 408, Namakkal District.

**Head Office :**

58, Nagara Vanki Street, RASIPURAM.

☎ 04287 - 222849, 222019

GST No : 33AAAJT0474D1ZF

Email : rasicoopbk6649@gmail.com

**Branches at :**

1) T.V.S. Street Br. Rasipuram ☎222949

2) S.S. Salai Br. Rasipuram

3) Namagiripet Br. ☎ 241367

4) Vennandur Br. ☎ 264979

**M.Balasubramanian**  
President.

**C.Selvakumar, M.Sc., M.Ed., BGL., DLL., HDCM.,**  
Deputy Registrar/Managing Director.

**S.Alamelu,**  
General Manager(IC).  
7010332248

Date : 15.06.2023

## CERTIFICATE

This is to certify that **Miss. MONIKA.S**, (Reg.No. 21MUMA1019) Student of III<sup>rd</sup> year B.Sc., Mathematics, Muthayammal College of Arts & Science (Autonomous), Kakkaveri, Rasipuram- 637408, Namakkal (Dt) has successfully completed an Internship Programme in the field of banking from 29.05.2023 to 15.06.2023 for the period of 15 days in our bank.

During the period of her Internship programme with us, she was found hardworking, punctual and inquisitive.



*S. Alamelu* 15/6/23  
General Manager (IC).  
☎  
15/06/23



**ஆவின்**

சேலம் மாவட்டக் கூட்டுறவு பால் உற்பத்தியாளர்கள் ஒன்றியம் ல்ட.,

(பதிவு எண். ED. 912)

சித்தனூர், தளவாய்ப்பட்டி அஞ்சல், சேலம்-636 302. தமிழ்நாடு.

அலைபேசி எண் : 73737 04800, 73737 04802

டெலிபேக்ஸ் : 0427-2386871 Email : aavinslm@gmail.com

GST : 33AAAAT3146P1ZA

## CERTIFICATE

*This is to certify that Ms.Nagadhivya.N, III-B.Sc  
(Mathematics) (Reg.No.21UMA026) student of Muthayammal  
College of Arts & Science, Namakkal has undergone **Internship  
Training in Salem Aavin from 29.05.2023 to 11.06.2023.**  
During the above period her performance was satisfactory.*

Date : 15.06.2023



*[Signature]*  
Assistant General Manager (P & I)  
Training Centre,  
Salem Dist. Co. op Milk Producers  
Union Ltd., Salem.



Inspiring and empowering  
future professionals

# Nandhini P

## Data Analytics Consulting Virtual Internship

Certificate of Completion  
June 7th, 2023

Over the period of June 2023, Nandhini P has completed practical tasks in:

Data Quality Assessment  
Data Insights  
Data Insights and Presentation

**Deborah Yates**  
National Managing  
Partner People  
Performance and  
Culture

**Tom Brunskill**  
CEO, Co-Founder of  
Forage





# SRI VIGNESHWARA CONFECTIONERY

Cell : 94432 69881  
94432 69882  
94432 69883

Date: 19-06-2023

## TO WHOM IT MAY CONCERN

This is to certify that Mr. T. Janapraveen (21MUMA1049), B.Sc – II Mathematics student of Muthayammal College of Arts and Science (Autonomous), Rasipuram has successfully completed internship in our Factory from 01-06-2023 to 17-06-2023.

During the period of her/his internship program with us, she/he had been exposed to different processes and found diligent, hardworking and inquisitive.

## AUTHORISED SIGNATURE

For SRI VIGNESHWARA CONFECTIONERY

Managing Partner.



Inspiring and empowering  
future professionals

# NIVETHA B. Sc. , MATHEMATICS

## Data Analytics Consulting Virtual Internship

Certificate of Completion

June 8th, 2023

Over the period of May 2023 to June 2023, NIVETHA B. Sc. , MATHEMATICS has completed practical tasks in:

Data Quality Assessment  
Data Insights  
Data Insights and Presentation

**Deborah Yates**  
National Managing  
Partner People  
Performance and  
Culture

**Tom Brunskill**  
CEO, Co-Founder of  
Forage





S. 670, வேப்பிலைப்பட்டி தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்,  
வேப்பிலைப்பட்டி. அஞ்சல், வாழப்பாடி. வட்டம், சேலம் மாவட்டம்.

தேதி 17.6.23

**CERTIFICATE OF INTERNSHIP  
TO WHOM IT MAY CONCERN**

This is to certify that **PARAMESHWARI R (21MUMA1024)** student of III B.Sc. Mathematics , Muthayammal College of Arts and Science( Autonomous), Kakkaveri , Rasipuram has successfully completed an Internship program in the field of Banking sector for a period of 15 days from 01.06.2023 to 17.06.2023.

During the period of her Internship program with us , she was found hardworking punctual and inquisitive.

**Manager/Secretary**

சேலம் மாவட்டம்

எஸ். 670, வேப்பிலைப்பட்டி தொடக்க  
வேளாண்மை கூட்டுறவு கடன் சங்கம் (லிட்).  
வேப்பிலைப்பட்டி (PO).



சேலம் மாவட்டக் கூட்டுறவு பால் உற்பத்தியாளர்கள் ஒன்றியம் லிட.,  
(பதிவு எண். ED. 912)

சித்தனூர், தளவாய்ப்பட்டி அஞ்சல், சேலம்-636 302. தமிழ்நாடு.

அலைபேசி எண் : 73737 04800, 73737 04802

டெலிபேக்ஸ் : 0427-2386871 Email : aavinslm@gmail.com


GST : 33AAAAT3146P1ZA

## CERTIFICATE

*This is to certify that Ms.Prethe.T, III-B.Sc  
(Mathematics) (Reg.No.21UMA032) student of Muthayammal  
College of Arts & Science, Namakkal has undergone **Internship  
Training in Salem Aavin from 29.05.2023 to 11.06.2023.**  
During the above period her performance was satisfactory.*

Date : 15.06.2023



  
Assistant General Manager (P & IT  
Training Centre,  
Salem Dist. Co. op Milk Producer's  
Union Ltd., Salem.



ஊட்டுறவே நாட்டுயர்வு !



நாட்டுயர்வே நம்முயர்வு !!

(04287)

248240

248340

## S. 1382, முள்ளக்குறிச்சி

தொடக்க வேளாண்மை கல்வி நிறுவனம் கடன் சங்கம் லீட்,  
முள்ளக்குறிச்சி - 636 142, இராசிபுரம் வட்டம், நாமக்கல் மாவட்டம்.  
email : mupacs@gmail.com

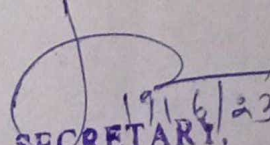
நாள் : 19.6.2023

### CERTIFICATE OF INTERNSHIP

### TO WHOM IT MAY CONCERN

This is to certify that Miss.P.Priya,(Reg.21MUMA1026) student of III B.Sc. Mathematics, Muthayammal College of Arts And Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship program in the field of PACCS for a period of 15 days from 01.06.2023 to 19.06.2023

During the period of her/his Internship program with us, she/he was found hardworking, punctual and inquisitive.

  
19/6/23  
SECRETARY,  
S. 1382, Muthayammal College of Arts and Science, RACS Ltd



கூட்டுறவே!



நாட்டுயர்வு!!

எஸ் 1441 நடுவனேரி தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட் .  
நடுவனேரி (PO) வேம்படிதாளம் (via) சங்ககிரி (tk) சேலம் (dt) பின் 637504

Date: 15.06.2023

**CERTIFICATE OF INTERNSHIP**

**TO WHOM IT MAY CONCERN**

This is to certify that **NAVEEN KUMAR M (21MUMA1051)**, student of III B.Sc. Mathematics, Muthayammal College of Arts And Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship program in the in our cooperative bank for a period of 15 days from 29.05.2023 to 15.06.2023

During the period of his Internship program with us, he was found hardworking, punctual and inquisitive.

15-6-23

Secretary

s1441 NADUVANERI PACCS





GST : 33AAQAS2335D1ZN

வாழ்க கூட்டுறவு !



வளர்க கூட்டுறவு !!

220235,

**S. 284, பருத்திப்பள்ளி  
தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.,**

பருத்திப்பள்ளி அஞ்சல், திருச்செங்கோடு வட்டம், நாமக்கல் மாவட்டம்.

E-mail : paruthipallipacs@gmail.com

நாள் : 15.06.2023

**CERTIFICATE OF INTERNSHIP  
TO WHOM IT MAY CONCERN**

This is to certify that **SANDHIYA A (21MUMA1029)** student of III B.Sc. Mathematics , Muthayammal College of Arts and Science( Autonomous), Kakkaveri , Rasipuram has successfully completed an Internship program in the field of banking sector for a period of 15 days from 29.05.2023 to 15.06.2023.

During the period of her Internship program with us , she was found hardworking punctual and inquisitive.

SECRETARY,

S. 284, PARUTHIPALLI PACCS Ltd.  
Manager / Secretary



# RASIPURAM CO-OPERATIVE URBAN BANK LTD., No. 6649

RASIPURAM - 637 408, Namakkal District.

**Head Office :**

58, Nagara Vanki Street, RASIPURAM.

☎ 04287 - 222849, 222019

GST No : 33AAAAT0474D1ZF

Email : rasicoopbk6649@gmail.com

**Branches at :**

1) T.V.S. Street Br. Rasipuram ☎ 222949

2) S. S. Salai Br. Rasipuram

3) Namagiripet Br. ☎ 241367

4) Vennandur Br. ☎ 264979

**M.Balasubramanian**  
President.

**C.Selvakumar**, M.Sc., M.Ed., BGL., DLL., HDCM.,  
Deputy Registrar/Managing Director.

**S.Alamelu,**  
General Manager(IC).  
7010332248

**Date : 15.06.2023**

## CERTIFICATE

This is to certify that **Miss. SANGEETHA.M**, (Reg.No. 21MUMA1030) Student of III<sup>rd</sup> year B.Sc., Mathematics, Muthayammal College of Arts & Science (Autonomous), Kakkaveri, Rasipuram- 637408, Namakkal (Dt) has successfully completed an Internship Programme in the field of banking from 29.05.2023 to 15.06.2023 for the period of 15 days in our bank.

During the period of her Internship programme with us, she was found hardworking, punctual and inquisitive.



*S. Alamelu*  
General Manager (IC).

*15/06/23*



கூட்டுறவே !



நாட்டுயர்வு !!



0427-2424419

82200 54635

**S. 670, வேப்பிலைப்பட்டி தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.,**

வேப்பிலைப்பட்டி அஞ்சல், வாழப்பாடி வட்டம், சேலம் மாவட்டம்.

தேதி 17.6.23

**CERTIFICATE OF INTERNSHIP  
TO WHOM IT MAY CONCERN**

This is to certify that **SARANYA R (21MUMA1031)** student of III B.Sc. Mathematics , Muthayammal College of Arts and Science( Autonomous), Kakkaveri , Rasipuram has successfully completed an Internship program in the field of Banking sector for a period of 15 days from 01.06.2023 to 17.06.2023.

During the period of her Internship program with us , she was found hardworking punctual and inquisitive.

  
**Manager /Secretary**  
செயலாளர்

எஸ். 670, வேப்பிலைப்பட்டி தொடக்க  
வேளாண்மை கூட்டுறவு கடன் சங்கம் (வரை),  
வேப்பிலைப்பட்டி (PO).



கூட்டுவோ !



நாட்டுயர்வு !!



0427-2424419

82200 54635

**S. 670, வேப்பிலைப்பட்டி தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.,**

வேப்பிலைப்பட்டி அஞ்சல், வாழப்பாடி வட்டம், சேலம் மாவட்டம்.

தேதி 17.6.23

**CERTIFICATE OF INTERNSHIP  
TO WHOM IT MAY CONCERN**

This is to certify that **SASIVARNA V (21MUMA1032)** student of III B.Sc. Mathematics , Muthayammal College of Arts and Science( Autonomous), Kakkaveri , Rasipuram has successfully completed an Internship program in the field of Banking sector for a period of 15 days from 01.06.2023 to 17.06.2023.

During the period of her Internship program with us , she was found hardworking punctual and inquisitive.

**Manager /Secretary**

செயலாளர்

எஸ். 670, வேப்பிலைப்பட்டி தொடக்க  
வேளாண்மை கூட்டுறவு கடன் சங்கம் (வரை),  
வேப்பிலைப்பட்டி (PO).





## Agrotop Farm Equipment Private Limited

12/214, Hospital Road, Thammampatty Post, Gangavalli Taluk, Salem - 636113. TN. India.  
Tel.: 04282-226638 • E-mail: agrotop.india@gmail.com • GSTIN: 33AAHCS3132M1ZC

Date: 15-06-2023

### CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Selvan.P.SANTHOSHKUMAR**, registration number 21MUMA1053, B.Sc Mathematics student of Muthayammal College of Arts and Science, Rasipuram, Namakkal District 637408, had undergone in-plant training at our company from 29-05-2023 to 14-06-2023. He has completed the training satisfactorily.

We wish him all the success in his future endeavours.

Agrotop Farm Equipment Pvt.Ltd.

K.R.Subramanian  
Director





☎ 04282-272050

**S. 6749, உமையாள்புரம்**  
**தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம்**  
 உமையாள்புரம், பெத்தநாயக்கன்பாளையம் வட்டம், சேலம் மாவட்டம்



நாள் .....

Date : 19.06.2023

**CERTIFICATE OF INTERNSHIP**  
**TO WHOM IT MAY CONCERN**

This is to certify **BRUNTHA J (21MUMA1005)**, student of III B.Sc. Mathematics, Muthayammal College of Arts And Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship in the field of Banking For a period of 15 days from 01.06.2023 to 19.06.2023.

During the period of her Internship program with us, she was found hardworking, punctual and inquisitive.

*N. J. J.*  
 SECRETARY  
 S. 6749, Umayalpuram PACCS Ltd.





GSTIN : 33AAMCS4120L1ZB  
PAN No : AAMCS4120L

CIN No : U15209TZ2008PTC014759  
FSSAI : 10012042000427

## SKA DAIRY FOODS INDIA PRIVATE LIMITED

(ISO 9001 : 2015, ISO 22000 : 2005, ISO 14001 : 2015 EIA Certified Company)

Regd. Office / Factory-1 158/1, South Muthampatti Post, Valappady-Tk., Salem - 636 111, Tamilnadu, India.  
Phone : 04292 - 222733, 222655, Email Id : skadairy@gmail.com

Date : .....16.06.2023.....

### CERTIFICATE

*This is to certify that **Miss. Gowsalya S** student of **Muthayammal College Of Arts And Science, Rasipuram** have completed her internship training at our company **S K A Dairy Foods India (P) Ltd.**, located at **South Muthampatty post, Vazhapady, Salem, Tamilnadu- 636111**.*

*Course of study : B.Sc. Mathematics*

*Reg. No : 21MUMA1009*

*Period : 01.06.2023 TO 15.06.2023*

*During this period she was found Punctual, hard working and inquisitive. We wish her every success in Life.*

**Human Resource Department**

**SKA DAIRY FOODS INDIA (P) LTD.,**  
Southmuthampatty (PO.)  
Valappady (Tk.)  
Salem (Dt.) Tamil Nadu  
Pin: 636 111

**ஆவின்**

சேலம் மாவட்டக் கூட்டுறவு பால் உற்பத்தியாளர்கள் ஒன்றியம் ல்ட.,

(பதிவு எண். ED. 912)

சித்தனூர், தளவாய்ப்பட்டி அஞ்சல், சேலம்-636 302. தமிழ்நாடு.

அலைபேசி எண் : 73737 04800, 73737 04802

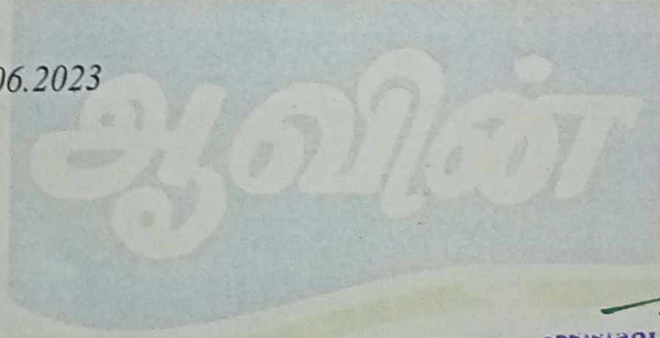
டெலிபேக்ஸ் : 0427-2386871 Email : aavinslm@gmail.com

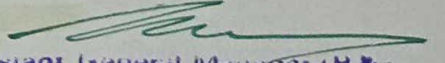
GST : 33AAAAT3146P1ZA

## CERTIFICATE

*This is to certify that Ms. Janani.S.K, III-B.Sc  
(Mathematics) (Reg.No.21UMA015) student of Muthayammal  
College of Arts & Science, Namakkal has undergone **Internship  
Training in Salem Aavin from 29.05.2023 to 11.06.2023.**  
During the above period her performance was satisfactory.*

Date : 15.06.2023



  
Assistant General Manager (P & I,  
Training Centre,  
Salem Dist. Co. op. Milk Producers  
Union Ltd., Salem.



**RASIPURAM CO-OPERATIVE URBAN BANK LTD., No. 6649**

RASIPURAM - 637 408, Namakkal District.

**Head Office :**

58, Nagara Vanki Street, RASIPURAM.

☎ 04287 - 222849, 222019

GST No : 33AAAJT0474D1ZF

Email : rasicoopbk6649@gmail.com

**Branches at :**

1) T.V.S. Street Br. Rasipuram ☎222949

2) S.S. Salai Br. Rasipuram

3) Namagiripet Br. ☎ 241367

4) Vennandur Br. ☎ 264979

**M.Balasubramanian**  
President.**C.Selvakumar, M.Sc., M.Ed., BGL., DLL., HDCM.,**  
Deputy Registrar/Managing Director.**S.Alamelu,**  
General Manager(IC).  
7010332248

Date : 15.06.2023

**CERTIFICATE**

This is to certify that Miss. **KEERTHANA.V**, (Reg.No. 21MUMA1015) Student of III<sup>rd</sup> year B.Sc., Mathematics, Muthayammal College of Arts & Science (Autonomous), Kakkaveri, Rasipuram- 637408, Namakkal (Dt) has successfully completed an Internship Programme in the field of banking from 29.05.2023 to 15.06.2023 for the period of 15 days in our bank.

During the period of her Internship programme with us, she was found hardworking, punctual and inquisitive.



**S. Alamelu**  
General Manager (IC).  
15/06/23



# SRI VIGNESHWARA CONFECTIONERY

Cell : 94432 69881  
94432 69882  
94432 69883

Date: 19-06-2023

## TO WHOM IT MAY CONCERN

This is to certify that Mr. V. Ajay Karthick (21MUMA1043), B.Sc – II Mathematics student of Muthayammal College of Arts and Science (Autonomous), Rasipuram has successfully completed internship in our Factory from 01-06-2023 to 17-06-2023.

During the period of her/his internship program with us, she/he had been exposed to different processes and found diligent, hardworking and inquisitive.

## AUTHORISED SIGNATURE

For SRI VIGNESHWARA CONFECTIONERY

Managing Partner.





# SINGAPORE TECHNOLOGIES

No. 396, Codea Nagar, (Opp. Codea Park), S.S. Kulam,  
Kurumbapalayam (Po.), Coimbatore - 641 107, Tamilnadu, India  
E-mail : singaporetechnologies2013@yahoo.in Mobile : 80567 07173

---

Date : 15.06.2023

## CERTIFICATE OF INTERNSHIP

### TO WHOM IT MAY CONCERN

This is to certify that **KIRUTHIKA R (21MUMA1016)**, student of III B.sc, Mathematics , Muthayammal college of Arts And Science (Autonomous), Kakkaveri, Rasipuram has successfully completed an Internship program in the field of **SINGAPORE TECHNOLOGIES, COIMBATORE** for a period of 15 days, from 30.05.2023 to 15.06.2023.

During the period of her Internship program with us, she was found hardworking, punctual and inquisitive.



For SINGAPORE TECHNOLOGIES

Partner



## S. 328, காளப்பநாயக்கன்பட்டி

தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிமிடெட்,

காளப்பநாயக்கன்பட்டி அஞ்சல், சேந்தமங்கலம் வட்டம், நாமக்கல் மாவட்டம் - 637 404.

Email ID : s328knpattypaccs@gmail.com

Date: 22.6.2023

### CERTIFICATE

#### TO WHOMSOEVER IT MAY CONCERN

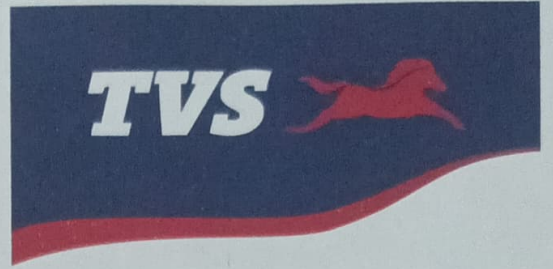
This is to certify that S.Madhubala, Reg No (21MUMA1017) of II<sup>nd</sup> year B.Sc., (Mathematics), Student of Muthayammal College of Arts and Science (Autonomous) Rasipuram – 637 408. Has successfully carried out her Internship training from 06.06.2023 to 22.06.2023 (15 days) in our co-op Society



22/6/2023

Secretary,  
For S.328, Kalappanaickenpatty Primary  
Agricultural Co-op. Credit Society Ltd.,





**GT AUTO AGENCIES PRIVATE LIMITED**

74-1/100-A, Subramaniya Nagar II Gate,  
Junction Main Road, SALEM - 636 005.

CIN : U50400TZ2021PTC036236

GSTIN : 33AAJCG0321Q1ZL

Ph. : 0427-3500360, 3500361

E-mail : gtauto.pvtltd@tvsmdealers.co.in

Date: 14.06.2023

**CERTIFICATE OF INTERNSHIP**

**TO WHOM IT MAY CONCERN**

This is certify that NAVEENA.K S (21MUMA1022),student of III B,Sc., Mathematics,  
Muthayammal College of Arts & Science (Autonomous),Kakkaveri,Rasipuram,has  
successfully completed an Internship Program in the field to Customer Care from 29.05.2023  
to 14.06.2023 for the 15days period.

During the period of her Internship program with us, she was found hand working punctual  
and inquisitive.

For G T Auto Agencies Private Limited

Authorized Signatory

**GT AUTO AGENCIES PRIVATE LIMITED**

No:74-1/100-A, Subramaniya Nagar

2nd Gate Junction Main Road

# SALEM-636005

**BRANCHES :**

SALEM-636005, Ramalingam Street, Old Saradha Theatre, Ammapet Main Road, Salem-636 003.

#11, Sankagiri Main Road, Near Aravind Eye Hospital, Nethimedu, Salem-636 002.

GST : 33AAQAS2335D1ZN

வாழ்க கூட்டுறவு !



வளர்க கூட்டுறவு !!

220235

**S. 284, பருத்திப்பள்ளி  
தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.**

பருத்திப்பள்ளி அஞ்சல், திருச்செங்கோடு வட்டம், நாமக்கல் மாவட்டம்

E-mail : paruthipallipacs@gmail.com

நாள் : 17.06.2023

**CERTIFICATE OF INTERNSHIP  
TO WHOM IT MAY CONCERN**

This is to certify that **PRIYADHARSHINI.R (21MUMA1027)** student of III B.Sc. Mathematics , Muthayammal College of Arts and Science (Autonomous), Kakkaveri , Rasipuram has successfully completed an Internship program in the field of banking sector for a period of 15 days from 31.05.2023 to 17.06.2023.

During the period of her Internship program with us , she was found hardworking punctual and inquisitive.

SECRETARY,

S. 284, PARUTHIPALLI PACCS Ltd  
Manager /Secretary





# SRI VIGNESHWARA CONFECTIONERY

Cell : 94432 69881  
94432 69882  
94432 69883

Date: 19-06-2023

## TO WHOM IT MAY CONCERN

This is to certify that Mr. S. Madhan (21MUMA1050), B.Sc – II Mathematics student of Muthayammal College of Arts and Science (Autonomous), Rasipuram has successfully completed internship in our Factory from 01-06-2023 to 17-06-2023.

**During the period of her/his internship program with us, she/he had been exposed to different processes and found diligent, hardworking and inquisitive.**

## AUTHORISED SIGNATURE

For SRI VIGNESHWARA CONFECTIONERY

Managing Partner.

கூட்டுறவே !



நாட்டுயர்வு !!

☎ 04292 - 247218

**S. 1299, V. மன்னார்பாளையம்**

**தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.,**

V. மன்னார்பாளையம் அஞ்சல், வாழப்பாடி வழி, சேலம் மாவட்டம்.

Date: 05.06.2023

தேதி 23.06.2023

**CERTIFICATE OF INTERNSHIP**

**TO WHOM IT MAY CONCERN**

This is to certify that ROJA P (21MUMA1028), student of III B.Sc.

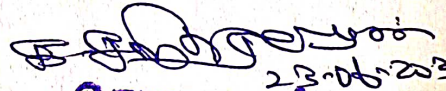
Mathematics, Muthayammal College of Arts And Science (Autonomous), Kakkaveri,

Rasipuram, has successfully completed an Internship program in the field of

S1299.V.MANNARPALAYAM PACCS for a period of

15 days from 06.06.2023 to 23.06.2023.

During the period of her/his Internship program with us, she was found hardworking, punctual and inquisitive.



**செயலாளர் / Secretary**  
S.1299. V. மன்னார்பாளையம்  
தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.,



Agrotop



# Agrotop Farm Equipment Private Limited

12/214, Hospital Road, Thammampatty Post, Gangavalli Taluk, Salem - 636113. TN. India.  
Tel.: 04282-226638 • E-mail: agrotop.india@gmail.com • GSTIN: 33AAHCS3132M1ZC

Date: 15-06-2023

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Selvi.B.SATHIYAPRIYA**, registration number 21MUMA1033, B.Sc Mathematics student of Muthayammal College of Arts and Science, Rasipuram, Namakkal District 637408, had undergone in-plant training at our company from 29-05-2023 to 14-06-2023. She has completed the training satisfactorily.

We wish her all the success in her future endeavours.

Agrotop Farm Equipment Pvt.Ltd.

K.R.Subramanian  
Director



GST : 33AAQAS2335D1ZN

வாழ்க கூட்டுறவு !



வளர்க கூட்டுறவு !!

220235

**S. 284, பருத்திப்பள்ளி  
தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட்.,**

பருத்திப்பள்ளி அஞ்சல், திருச்செங்கோடு வட்டம், நாமக்கல் மாவட்டம்.

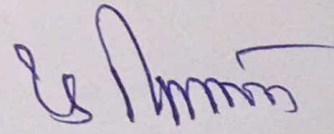
E-mail : paruthipallipacs@gmail.com

நாள் : 15.06.2023

**CERTIFICATE OF INTERNSHIP  
TO WHOM IT MAY CONCERN**

This is to certify that **SHARMIKHA.S (21MUMA1034)** student of III B.Sc. Mathematics , Muthayammal College of Arts and Science( Autonomous), Kakkaveri , Rasipuram has successfully completed an Internship program in the field of banking sector for a period of 15 days from 29.05.2023 to 15.06.2023.

During the period of her Internship program with us , she was found hardworking punctual and inquisitive.

  
SECRETARY,  
S. 284, PARUTHIPALLI PACS Ltd  
Manager /Secretary



கூட்டுறவே !

நாட்டுயர்வு!!

☎ : 2296675

# சீலாவரி கூட்டுறவு வீட்டு வசதி சங்கம் லிட்.,

(SLM / HSG 91)

305-B, வீராணம் மெயின் ரோடு, P.M. தளவில் Po., சேலம் - 636 003.

Date: 22-06-2023

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **A.SHEELA**, Reg No- **21MUMA1035** of II<sup>nd</sup> year **B.sc.MATHEMATICS** student of Muthayammal college of arts and science college,(Autonomus) Rasipuram. Has successfully carried out her internship training from 06.06.2023 to 22.06.2023 ( 15 days ) in our seelavari co operative housing society.

*[Handwritten Signature]*  
22/06/23  
Secretary, i/c

செயலாளர் (பொறுப்பு)  
சீலாவரி கூட்டுறவு வீட்டு வசதி  
சங்கம் (லிட்) SLM / HSG-91



GSTIN : 33AAMCS4120L1ZB  
PAN No : AAMCS4120L

CIN No : U15209TZ2008PTC014759  
FSSAI : 10012042000427

## SKA DAIRY FOODS INDIA PRIVATE LIMITED

(ISO 9001 : 2015, ISO 22000 : 2005, ISO 14001 : 2015 EIA Certified Company)

Regd. Office / Factory-1 158/1, South Muthampatti Post, Valappady-Tk., Salem - 636 111, Tamilnadu, India.  
Phone : 04292 - 222733, 222655, Email Id : skadairy@gmail.com

Date : .....16.06.2023.....

### CERTIFICATE

*This is to certify that Mr. Sanjay V student of Muthayammal College Of Arts And Science, Rasipuram have completed his internship training at our company S K A Dairy Foods India (P) Ltd., located at South Muthampatty post, Vazhapady, Salem, Tamilnadu- 636111.*

*Course of study : B.Sc. Mathematics*

*Reg. No : 21MUMA1052*

*Period : 01.06.2023 TO 15.06.2023*

*During this period he was found Punctual, hard working and inquisitive. We wish him every success in Life.*

**HUMAN RESOURCE DEPARTMENT**

**SKA DAIRY FOODS INDIA (P) LTD.,**  
Southmuthampatty (PO.)  
Valappady (Tk.)  
Salem (Dt.) Tamil Nadu  
Pin: 636 111





**GT AUTO AGENCIES PRIVATE LIMITED**

74-1/100-A, Subramaniya Nagar II Gate,  
Junction Main Road, SALEM - 636 005.

CIN : U50400TZ2021PTC036236

GSTIN : 33AAJCG0321Q1ZL

Ph. : 0427-3500360, 3500361

E-mail : gtauto.pvtltd@tvsmdealers.co.in

**Date: 14.06.2023**

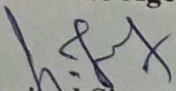
**CERTIFICATE OF INTERNSHIP**

**TO WHOM IT MAY CONCERN**

This is certify that THASHVINI.B (21MUMA1039),student of III B,Sc., Mathematics,  
Muthayammal College of Arts & Science (Autonomous),Kakkaveri,Rasipuram,has  
successfully completed an Internship Program in the field to Customer Care from 29.05.2023  
to 14.06.2023 for the 15days period.

During the period of her Internship program with us, she was found hand working punctual  
and inquisitive.

**For G T Auto Agencies Private Limited**

  
**Authorized Signatory**

**GT AUTO AGENCIES PRIVATE LIMITED**

No:74-1/100-A, Subramaniya Nagar

2nd Gate Junction Main Road

**BRANCHES :** \_\_\_\_\_

SALEM - 636 005 Ramalingam Street, Old Saradha Theatre, Ammapet Main Road, Salem-636 003.

#11, Sankagiri Main Road, Near Aravind Eye Hospital, Nethimedu, Salem-636 002.



# RASIPURAM CO-OPERATIVE URBAN BANK LTD., No. 6649

RASIPURAM - 637 408, Namakkal District.

**Head Office :**

58, Nagara Vanki Street, RASIPURAM.  
 ☎ 04287 - 222849, 222019  
 GST No : 33AAAJT0474D1ZF  
 Email : rasicoopbk6649@gmail.com

**Branches at :**

- 1) T.V.S. Street Br. Rasipuram ☎222949
- 2) S.S. Salai Br. Rasipuram
- 3) Namagiripet Br. ☎ 241367
- 4) Vennandur Br. ☎ 264979

**M.Balasubramanian**  
 President.

**C.Selvakumar, M.Sc., M.Ed., BGL., DLL., HDCM.,**  
 Deputy Registrar/Managing Director.

**S.Alamelu,**  
 General Manager(IC).  
 7010332248

**Date : 15.06.2023**

## CERTIFICATE

This is to certify that **Miss. VAISHNAVI.R.**, (Reg.No. 21MUMA1040) Student of III<sup>rd</sup> year B.Sc., Mathematics, Muthayammal College of Arts & Science (Autonomous), Kakkaveri, Rasipuram- 637408, Namakkal (Dt) has successfully completed an Internship Programme in the field of banking from 29.05.2023 to 15.06.2023 for the period of 15 days in our bank.

During the period of her Internship programme with us, she was found hardworking, punctual and inquisitive.



*S.Alamelu* 15/06/23  
 General Manager (IC).

*S.Alamelu*  
 15/06/23



கூட்டுறவே!



நாட்டுயர்வு!!

எஸ் 1441 நடுவனேரி தொடக்க வேளாண்மை கூட்டுறவு கடன் சங்கம் லிட் .  
நடுவனேரி (po) வேம்படிதாளம் (via) சங்ககிரி (tk) சேலம் (dt) பின் 637504

Date: 15.06.2023

**CERTIFICATE OF INTERNSHIP**

**TO WHOM IT MAY CONCERN**

This is to certify that VALARMATHI V(21MUMA1041), student of III B.Sc. Mathematics, Muthayammal College of Arts And Science (Autonomous), Kakkaveri, Rasipuram, has successfully completed an Internship program in the in our cooperative bank for a period of 15 days from 29.05.2023 to 15.06.2023

During the period of her Internship program with us, she was found hardworking, punctual and inquisitive.



*Secretary*  
15-6-23

Secretary  
s1441 NADUVANERI PACCS



GSTIN : 33AAMCS4120L1ZB  
PAN No : AAMCS4120L

CIN No : U15209TZ2008PTC014759  
FSSAI : 10012042000427

## **S K A DAIRY FOODS INDIA PRIVATE LIMITED**

(ISO 9001 : 2015, ISO 22000 : 2005, ISO 14001 : 2015 EIA Certified Company)

Regd. Office / Factory-1 158/1, South Muthampatti Post, Valappady-Tk., Salem - 636 111, Tamilnadu, India.

Phone : 04292 - 222733, 222655, Email Id : skadairy@gmail.com

Date : 16.06.2023

### **CERTIFICATE**

*This is to certify that **Mr. Sivarathinam D** student of **Muthayammal College Of Arts And Science, Rasipuram** have completed his internship training at our company **S K A Dairy Foods India (P) Ltd.**, located at **South Muthampatty post, Vazhapady, Salem, Tamilnadu- 636111.***

*Course of study : B.Sc. Mathematics*

*Reg. No : 21MUMA1054*

*Period : 01.06.2023 TO 15.06.2023*

*During this period he was found Punctual, hard working and inquisitive. We wish him every success in Life.*

**HUMAN RESOURCE DEPARTMENT**

**SKA DAIRY FOODS INDIA (P) LTD.,**  
Southmuthampatty (PO.)  
Valappady (Tk.)  
Salem (Dt.) Tamil Nadu  
Pin: 636 111





சேலம் மாவட்டக் கூட்டுறவு பால் உற்பத்தியாளர்கள் ஒன்றியம் லிட.,

(பதிவு எண். ED. 912)

சித்தனூர், தளவாய்ப்பட்டி அஞ்சல், சேலம்-630 302, தமிழ்நாடு.

அலைபேசி எண் : 73737 04800, 73737 04802

டெலிபேக்ஸ் : 0427-2380871 Email : aavinslm@gmail.com

GST : 33AAAAT3146P1ZA

## CERTIFICATE

*This is to certify that Ms.Sowmiya.S, III-B.Sc  
(Mathematics) (Reg.No.21UMA045) student of Muthayammal  
College of Arts & Science, Namakkal has undergone Internship  
Training in Salem Aavin from 29.05.2023 to 11.06.2023.*

*During the above period her performance was satisfactory.*

Date : 15.06.2023



*[Signature]*  
Assistant General Manager (P & I,  
Training Centre,  
Salem Dist. Co. op Milk Producers  
Union Ltd., Salem.



Inspiring and empowering  
future professionals

# SUBIKA S

## Technical Consulting Virtual Internship

Certificate of Completion  
May 30th, 2023

Over the period of May 2023, SUBIKA S has completed practical tasks in:

Assemble the Data  
Data Analysis  
Present the Results

**Renata J. Dohmen**  
Global Head of Early  
Career Talent  
Attraction at SAP

**Tom Brunskill**  
CEO, Co-Founder of  
Forage





# RASIPURAM CO-OPERATIVE URBAN BANK LTD., No. 6649

RASIPURAM - 637 408, Namakkal District.

**Head Office :**

58, Nagara Vanki Street, RASIPURAM.

☎ 04287 - 222849, 222019

GST No : 33AAAJT0474D1ZF

Email : rasicoopbk6649@gmail.com

**Branches at :**

1) T.V.S. Street Br. Rasipuram ☎222949

2) S.S. Salai Br. Rasipuram

3) Namagiripet Br. ☎ 241367

4) Vennandur Br. ☎ 264979

**M.Balasubramanian**  
President.

**C.Selvakumar, M.Sc., M.Ed., BGL., DLL., HDCM.,**  
Deputy Registrar/Managing Director.

**S.Alamelu,**  
General Manager(IC).  
7010332248

Date : 15.06.2023

## CERTIFICATE

This is to certify that **Miss. SUJITHA.M**, (Reg.No. 21MUMA1038) Student of III<sup>rd</sup> year B.Sc., Mathematics, Muthayammal College of Arts & Science (Autonomous), Kakkaveri, Rasipuram- 637408, Namakkal (Dt) has successfully completed an Internship Programme in the field of banking from 29.05.2023 to 15.06.2023 for the period of 15 days in our bank.

During the period of her Internship programme with us, she was found hardworking, punctual and inquisitive.



*S. Alamelu* 15/6/23  
General Manager (IC).  
☎  
15/06/23



# SRI VIGNESHWARA CONFECTIONERY

Cell : 94432 69881  
94432 69882  
94432 69883

Date: 19-06-2023

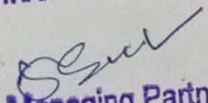
## TO WHOM IT MAY CONCERN

This is to certify that Mr. G. Sowndhirarajan (21MUMA1055), B.Sc – II Mathematics student of Muthayammal College of Arts and Science (Autonomous), Rasipuram has successfully completed internship in our Factory from 01-06-2023 to 17-06-2023.

During the period of her/his internship program with us, she/he had been exposed to different processes and found diligent, hardworking and inquisitive.

## AUTHORISED SIGNATURE

For SRI VIGNESHWARA CONFECTIONERY

  
Managing Partner.





# SRI VIGNESHWARA CONFECTIONERY

Cell : 94432 69881  
94432 69882  
94432 69883

Date: 19-06-2023

## TO WHOM IT MAY CONCERN

This is to certify that Mr. M. Thirupathi (21MUMA1056), B.Sc – II Mathematics student of Muthayammal College of Arts and Science (Autonomous), Rasipuram has successfully completed internship in our Factory from 01-06-2023 to 17-06-2023.

**During the period of her/his internship program with us, she/he had been exposed to different processes and found diligent, hardworking and inquisitive.**

## AUTHORISED SIGNATURE

For SRI VIGNESHWARA CONFECTIONERY

Managing Partner.

# **A STUDY ON INVENTORY CONTROL**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

## **BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**ABI B (Reg.No:21MUMA1001)**

**ARTHI S (Reg.No:21MUMA1002)**

**ARUNDHATHI V (Reg.No:21MUMA1003)**

**BIRUNTHA R (Reg.No:21MUMA1004)**

**ASHWINTH V S (Reg.No:21MUMA1044)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
A UNIT OF VANETRA**



**Under the Guidance of**

**Mrs. R. MALATHI , M.Sc., M.Phil., B.Ed.,  
(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem,**

**Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),**

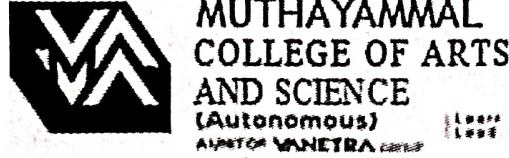
**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
Affiliated to Periyar University, Salem,  
Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamilnadu.

DEPARTMENT OF MATHEMATICS



CERTIFICATE

This is to certify that the Project Report entitled "A STUDY ON INVENTORY CONTROL" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS is a record of original research work done by ABI B (Reg. No: 21MUMA1001), ARTHI S (Reg. No: 21MUMA1002), ARUNDHATHI V (Reg. No: 21MUMA1003), BIRUNTHA R (Reg. No: 21MUMA1004), ASHWINTH V S (Reg. No: 21MUMA1044) during the period of her/his study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science (Autonomous), Rasipuram under my supervision / guidance and this project report has not formed the basis for the award of Degree/ Diploma / Associateship / Fellowship or similar title to any candidate of any University.



*R. Malathi*  
Project Guide  
[R. MALATHI]

*K. Jaganathan*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (Dt)-637 408.

Submitted for the project viva-voce examination held on 15.05.2024

Examiners:

1. *R. Malathi*  
15/05/24

2. *P. P. P.*  
15-5-24

# **A STUDY ON RING THEORY**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**DEVIKA M (Reg.No:21MUMA1006)**

**DHEERKKADHARSHINI K (Reg.No:21MUMA1007)**

**DHIVYA SRI M (Reg.No:21MUMA1008)**

**CHANDRU M (Reg.No:21MUMA1045)**

**DHAMODHARAN P (Reg.No:21MUMA1046)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)**  
ASPECT OF VANDANA

**Under the Guidance of**

**Mrs. R. PARVATHA, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem,**

**Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**



MARCH- 2024

MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

Affiliated to Periyar University, Salem,

Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamilnadu.

DEPARTMENT OF MATHEMATICS



MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
ADPT OF VANETRA

CERTIFICATE

This is to certify that the Project Report entitled "A STUDY ON RING THEORY" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS is a record of original research work done by DEVIKA M (Reg. No: 21MUMA1006), DHEERKKADHARSHINI K (Reg. No: 21MUMA1007), DHIVYA SRI M (Reg. No: 21MUMA1008), CHANDRU M (Reg. No: 21MUMA1045), DHAMODHARAN P (Reg. No: 21MUMA1046) during the period of their study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science, Rasipuram (Autonomous) under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

Project Guide

[R. PARAMATHAN]

Head of the Department

HEAD OF THE DEPARTMENT

DEPARTMENT OF MATHEMATICS

MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE

(AUTONOMOUS)

RASIPURAM (Tk), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 15.05.2024

Examiners:

1.

15/5/2024

2.

15.5.24

# **A STUDY ON INDETERMINATE FORMS**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

## **BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**KALAIVANI S (Reg.No:21MUMA1012)**

**KARTHIKA P (Reg.No:21MUMA1013)**

**KARUNYA S S (Reg.No:21MUMA1014)**

**DINESH M (Reg.No:21MUMA1047)**

**DINESHKANNA S (Reg.No:21MUMA1048)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA



**Under the Guidance of**

**Mr. K. DHINESH KUMAR, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem,**

**Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
Affiliated to Periyar University, Salem,  
Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamilnadu.

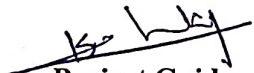
**DEPARTMENT OF MATHEMATICS**

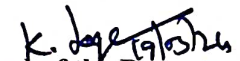


**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALUMNI SOCIETY

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON INDETERMINATE FORMS" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS is a record of original research work done by KALAIVANI S (Reg. No: 21MUMA1012), KARTHIKA P (Reg. No: 21MUMA1013), KARUNYA S S (Reg. No: 21MUMA1014), DINESH M (Reg. No: 21MUMA1047), DINESHKANNA S (Reg. No: 21MUMA1048) during the period of their study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science, Rasipuram (Autonomous) under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

  
Project Guide  
K. DHANESHA KUMAR

  
Head of the Department  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 15.05.2024

Examiners:

1. K. Jayaraman 15/05/24

2. P. S. S. 15/5/24

## **A STUDY ON VECTOR ANALYSIS**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**MAHALAKSHMI M (Reg.: No 21MUMA1018)**

**MONIKA S (Reg.No:21MUMA1019)**

**NAGADHIVYA N (Reg.No:21MUMA1020)**

**NANDHINI P (Reg.No:21MUMA1021)**

**JANAPRAVEEN T (Reg.No:21MUMA1049)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
A UNIT OF VANDHEERA**

**Under the Guidance of**

**Mrs. G. SELVI, M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem,**

**Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
Affiliated to Periyar University, Salem,  
Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamilnadu.

DEPARTMENT OF MATHEMATICS



MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
A UNIT OF VANDHEERA GROUP

CERTIFICATE

This is to certify that the Project Report entitled "A STUDY ON VECTOR ANALYSIS" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS is a record of original research work done by MAHALAKSHMI M (Reg. No: 21MUMA1018), MONIKA S (Reg. No: 21MUMA1019), NAGADHIVYA N (Reg. No: 21MUMA1020), NANDHINI P (Reg. No: 21MUMA1021), JANAPRAVEEN T (Reg. No: 21MUMA1049) during the period of their study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science, Rasipuram (Autonomous) under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.



*G.S.K.*  
Project Guide  
[G.SELVI]

*K. Jayaraman*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 15/05/2024

Examiners:

1. *G.S.K.*  
[G.SELVI]

2. *P. J. Jeyaraman*  
15-5-24

# **A STUDY ON NUMERICAL METHODS WITH C++ PROGRAMMING**

*Project report submitted to Periyar University, Salem in partial fulfillment of the  
requirements for the award of degree of*

**BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**NIVETHA R (Reg.No:21MUMA1023)**

**PARAMESHWARI R (Reg.No:21MUMA1024)**

**PRETHE T (Reg.No:21MUMA1025)**

**PRIYA P (Reg.No:21MUMA1026)**

**NAVEEN KUMAR M (Reg.No:21MUMA1051)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
A UNIT OF VANETRA

**Under the Guidance of**

**Mrs. P. SUBHA M.Sc., M.Phil., B.Ed.,  
(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem,

Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),

Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH – 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
Affiliated to Periyar University, Salem,  
Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamilnadu.

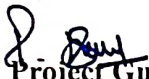
**DEPARTMENT OF MATHEMATICS**




**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
RASI PURAM

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON NUMERICAL METHODS WITH C++ PROGRAMMING" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS is a record of original research work done by NIVETHA R (Reg. No: 21MUMA1023), PARAMESHWARI R (Reg. No: 21MUMA1024), PRETHE T (Reg. No: 21MUMA1025), PRIYA P (Reg. No: 21MUMA1026), NAVEEN KUMAR M (Reg. No: 21MUMA1051) during the period of their study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science, Rasipuram (Autonomous) under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

  
Project Guide  
[P. SUBHA]

  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (Dt)-637 408.

Submitted for the project viva-voce examination held on 15.05.2024

Examiners:

1. 

2.  15.5.24

# **A STUDY ON MATHEMATICAL LOGIC AND PROOFS**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**SANDHIYA A (Reg.No:21MUMA1029)**

**SANGEETHA M (Reg.No:21MUMA1030)**

**SARANYA R (Reg.No:21MUMA1031)**

**SASIVARNA V (Reg.No:21MUMA1032)**

**SANTHOSHKUMAR P (Reg.No:21MUMA1053)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
ANU YANETRA**

**Under the Guidance of**

**Mrs. A. SUGANYA , M.Sc., M.Phil., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem,**

**Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
Affiliated to Periyar University, Salem,  
Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamilnadu.

DEPARTMENT OF MATHEMATICS



MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
ALMATE OF VANETRA GROUP

CERTIFICATE

This is to certify that the Project Report entitled "A STUDY ON MATHEMATICAL LOGIC AND PROOFS" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS is a record of original research work done by SANDHIYA A (Reg. No: 21MUMA1029), SANGEETHA M (Reg. No: 21MUMA1030), SARANYA R (Reg. No: 21MUMA1031), SASIVARNA V (Reg. No: 21MUMA1032), SANTHOSHKUMAR P (Reg. No: 21MUMA1053) during the period of her/his study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science, Rasipuram (Autonomous) under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*A. S. S. S.*  
Project Guide  
[A. SUGANYA]

*K. Logy Prabhu*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (Dt)-637 408.

Submitted for the project viva-voce examination held on 15.05.2024

Examiners:

1. *A. S. S. S.* / 15/05/2024

2. *P. P. P. P.* / 15-5-24

# **A STUDY ON COUNTABILITY, OPEN SETS AND CLOSED SETS**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**BRUNTHA J (Reg.No:21MUMA1005)**

**GOWSALYA S (Reg.No:21MUMA1009)**

**JANANI S K (Reg.No:21MUMA1010)**

**KEERTHANA V (Reg.No:21MUMA1015)**

**AJAY KARTHICK V (Reg.No:21MUMA1043)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)**  
A UNIT OF VANHEIRA GROUP

**Under the Guidance of**

**Mr. R. MOHAN RAM, M.Sc.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem,**

**Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH – 2024**



MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
Affiliated to Periyar University, Salem,  
Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamilnadu.

DEPARTMENT OF MATHEMATICS



MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
A UNIT OF VIGNETRA GROUP

CERTIFICATE

This is to certify that the Project Report entitled "A STUDY ON COUNTABILITY, OPEN SETS AND CLOSED SETS" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS is a record of original research work done by BRUNTHA J (Reg. No: 21MUMA1005), GOWSALYA S (Reg. No: 21MUMA1009), JANANI S K (Reg. No: 21MUMA1010), KEERTHANA V (Reg. No:21MUMA1015), AJAY KARTHICK V (Reg. No: 21MUMA1043) during the period of their study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science, Rasipuram (Autonomous) under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*Prashant*  
Project Guide  
[R. MOHAN RAM]

*K. Jayaram*  
15/05/24  
Head of the Department  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (Dt)-637 408.

Submitted for the project viva-voce examination held on 15.05.2024

Examiners:

1. *Prashant*  
15/05/24  
[R. MOHAN RAM]

2. *P. S. S.*  
15.5.24

## **A STUDY ON RANDOM VARIABLES**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

### **BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**KIRUTHIKA R (Reg.No:21MUMA1016)**

**MADHUBALA S (Reg.No:21MUMA1017)**

**NAVEENA K S (Reg.No:21MUMA1022)**

**PRIYADHARSHINI R (Reg.No:21MUMA1027)**

**MADHAN S (Reg.No:21MUMA1050)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
AFFILIATED TO PERIYAR UNIVERSITY



**Under the Guidance of**

**Mrs. A. MENAKA, M.Sc., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem,**

**Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f)&12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH-2024**





## **A STUDY ON MATRICES**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF SCIENCE IN MATHEMATICS**

Submitted By

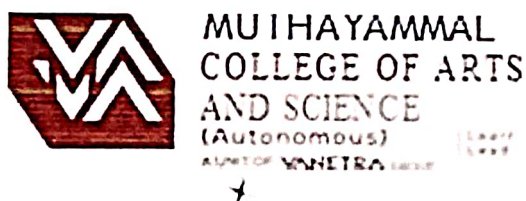
**ROJA P (Reg.No:21MUMA1028)**

**SATHIYA PRIYA B(Reg.No:21MUMA1033)**

**SHARMIKHA S (Reg.No:21MUMA1034)**

**SHEELA A(Reg.No:21MUMA1035)**

**SANJAY V (Reg.No:21MUMA1052)**



Under the Guidance of

**Mrs. B. MOHANAPRIYA, M.Sc.,**  
(Assistant Professor)

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem,

Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f)&12(B),

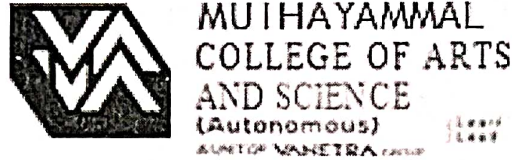
Rasipuram - 637 408, Namakkal District, Tamil Nadu.

**MARCH- 2024**



MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)  
Affiliated to Periyar University, Salem,  
Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),  
Rasipuram-637408, Namakkal District, Tamilnadu.

DEPARTMENT OF MATHEMATICS

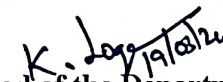


CERTIFICATE

This is to certify that the Project Report entitled "A STUDY ON MATRICES" submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN MATHEMATICS is a record of original research work done by ROJA P (Reg. No: 21MUMA1028), SATHIYA PRIYA B (Reg. No: 21MUMA1033), SHARMIKHA S (Reg. No: 21MUMA1034), SHEELA A (Reg. No: 21MUMA1035), SANJAY V (Reg. No: 21MUMA1048) during the period of their study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science(Autonomous), Rasipuram under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

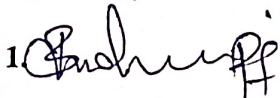
  
Project Guide

[B. MOHANAPRIYA]

  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 15.05.2024

Examiners: 

1. 

[B. MOHANAPRIYA]

2.   
15.05.24

# **A STUDY ON GROUP THEORY**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**THASHVINI B (Reg.No:21MUMA1039)**

**VAISHNAVI R (Reg.No:21MUMA1040)**

**VALARMATHI V (Reg.No:21MUMA1041)**

**SIVARATHINAM D (Reg.No:21MUMA1054)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
ALUMI VANETRA

**Under the Guidance of**

**Ms. D. MOTHIDHRSHAA, M.Sc., B.Ed.,**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem,**

**Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) &**

**12(B), Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem,

Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B), Rasipuram-637408, Namakkal District, Tamilnadu.

**DEPARTMENT OF MATHEMATICS**



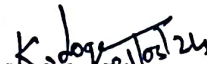
**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
AFFILIATED TO PERIYAR UNIVERSITY

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON GROUP THEORY" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is a record of original research work done by **THASHVINI B**(Reg. No: 21MUMA1039), **VAISHNAVI R**(Reg. No: 21MUMA1040), **VALARMATHI V**(Reg. No: 21MUMA1041), **SIVARATHINAM D**(Reg. No: 21MUMA1054), during the period of their study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science, Rasipuram (Autonomous) under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.


  
Project Guide

[D. MOTHDHARSHAA]

  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (TK), NAMAKKAL (DT)-637 408.

Submitted for the project viva-voce examination held on 15.05.2024

Examiners:

1.   
[D. MOTHDHARSHAA]

2.  15.5.24

# **A STUDY ON GRAPH THEORY AND ITS APPLICATIONS**

*Project report submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF SCIENCE IN MATHEMATICS**

**Submitted By**

**SOWMIYA S (Reg.No:21MUMA1036)**

**SUBIKA S (Reg.No:21MUMA1037)**

**SUJITHA M (Reg.No:21MUMA1038)**

**SOWNDHIRARAJAN G (Reg.No:21MUMA1055)**

**THIRUPATHI M (Reg.No:21MUMA1056)**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE  
(Autonomous)  
MUTHAYAMMAL COLLEGE**

**Under the Guidance of**

**Dr. K. LOGAARASI, M.Sc., M.Phil., B.Ed., SET., Ph.D**

**(Assistant Professor)**

**DEPARTMENT OF MATHEMATICS**

**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

**Affiliated to Periyar University, Salem,**

**Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B),**

**Rasipuram - 637 408, Namakkal District, Tamil Nadu.**

**MARCH- 2024**



**MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

Affiliated to Periyar University, Salem.

Accredited by NAAC with "A" grade, Recognized by UGC under Section 2(f) & 12(B).  
Rasipuram-637408, Namakkal District, Tamilnadu.

**DEPARTMENT OF MATHEMATICS**



**MUTHAYAMMAL  
COLLEGE OF ARTS  
AND SCIENCE**  
(Autonomous)  
RASIPURAM, NAMAKKAL DISTRICT, TAMILNADU

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON GRAPH THEORY AND ITS APPLICATIONS" Submitted to Periyar University, Salem in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is a record of original research work done by **SOWMIYA S (Reg. No: 21MUMA1036)**, **SUBIKA S (Reg. No: 21MUMA1037)**, **SUJITHA M (Reg. No: 21MUMA1038)**, **SOWNDHIRARAJAN G (Reg. No: 21MUMA1055)**, **THIRUPATHI S (Reg. No: 21MUMA1056)** during the period of their study (2021-2024) in the Department of Mathematics, Muthayammal College of Arts and Science, Rasipuram (Autonomous) under my supervision / guidance and this project report has not formed the basis for the award of Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any University.

*K. Jayaraman*  
Project Guide  
(*D. K. Loganathan*)

*K. Jayaraman*  
Head of the Department  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MATHEMATICS  
MUTHAYAMMAL COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
RASIPURAM (Tk), NAMAKKAL (DT)-637 408

Submitted for the project viva-voce examination held on 15.05.2024

Examiners:

1. *K. Jayaraman*  
15.5.24

2. *P. P. P. P.*  
15.5.24





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ARCHANA J**

for successfully completing the course

**Calculus of One Real Variable**

with a consolidated score of **52** %

Online Assignments	11.42/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **73**

**Prof. B. V. Ratish Kumar**

Chairman, Centre for Continuing Education  
IIT Kanpur

**Jul-Sep 2023**

**(8 week course)**

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23MA64S45490285

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ISHWARYA R**

for successfully completing the course

**Basic Linear Algebra**

with a consolidated score of **53** %

Online Assignments	15.33/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **477**

**Jan-Mar 2024**

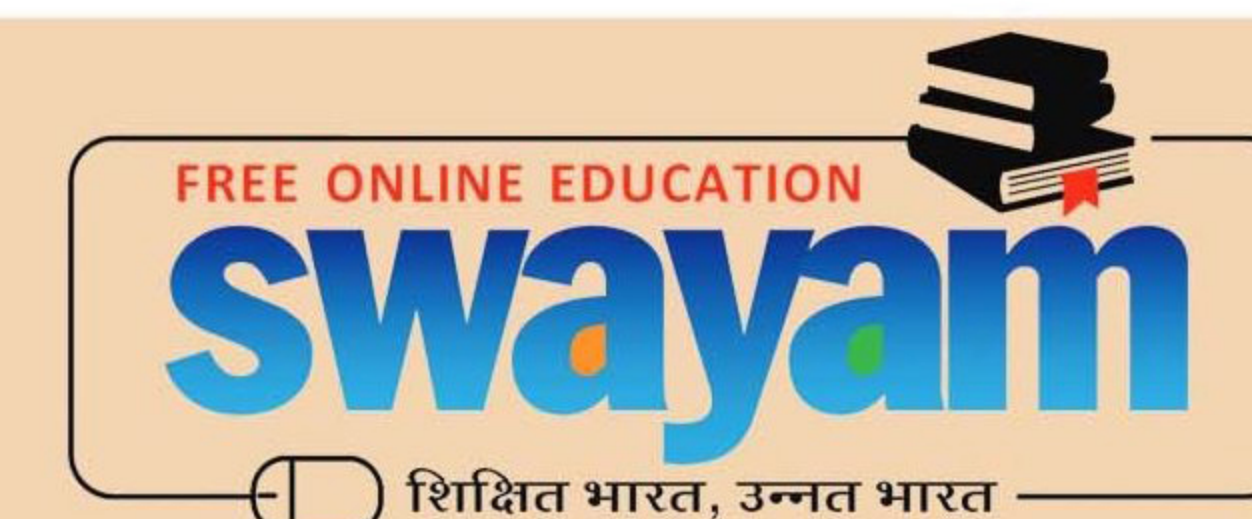
**(8 week course)**

**Prof. Sridhar Iyer**

Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



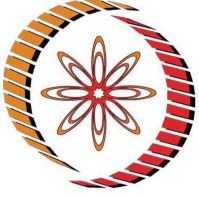
Roll No: NPTEL24MA13S355000054

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**ENIYA TAMILARASU**  
for successfully completing the course

## Basic Linear Algebra

with a consolidated score of **42** %

Online Assignments	10.46/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **477**

**Jan-Mar 2024**  
(8 week course)

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL24MA13S455000235

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ISHWARYA R**

for successfully completing the course

**Basic Linear Algebra**

with a consolidated score of **53** %

Online Assignments	15.33/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **477**

**Jan-Mar 2024**

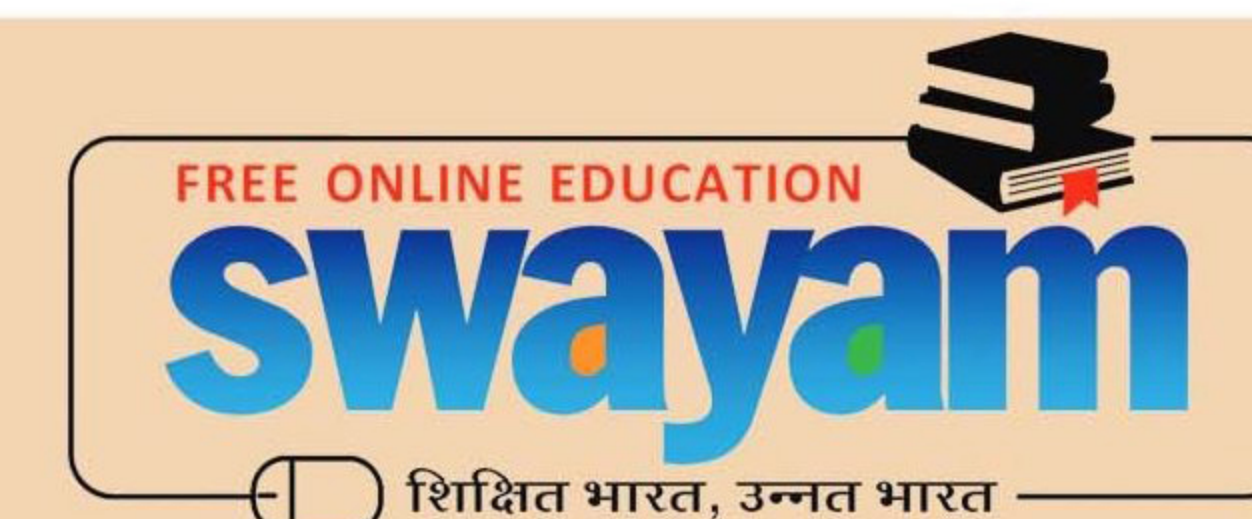
**(8 week course)**

**Prof. Sridhar Iyer**

Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



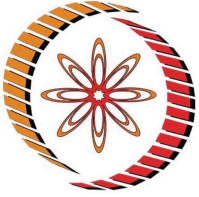
Roll No: NPTEL24MA13S355000054

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**MESHARATH BANU A**  
for successfully completing the course

## Basic Linear Algebra

with a consolidated score of **50** %

Online Assignments	15.13/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 477

Jan-Mar 2024  
(8 week course)

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



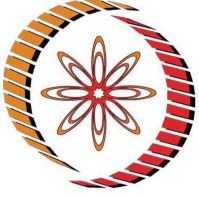
Roll No: NPTEL24MA13S355000024

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SRIMATHI**

for successfully completing the course

**Basic Linear Algebra**

with a consolidated score of **41** %

Online Assignments	10.67/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **477**

**Jan-Mar 2024**

**(8 week course)**

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay

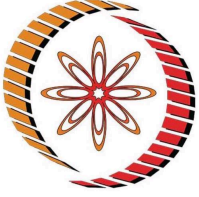


Roll No: NPTEL24MA13S355000072

To verify the certificate



No. of credits recommended: 2 or 3



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**VISHALINI P**

for successfully completing the course

**Basic Linear Algebra**

with a consolidated score of **45** %

Online Assignments	13.04/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **477**

**Jan-Mar 2024**

**(8 week course)**

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL24MA13S355000162

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**JAYAPAL S**

for successfully completing the course

**Calculus of One Real Variable**

with a consolidated score of **61** %

Online Assignments	13.92/25	Proctored Exam	46.88/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **73**

**Prof. B. V. Ratish Kumar**

Chairman, Centre for Continuing Education  
IIT Kanpur

**Jul-Sep 2023**

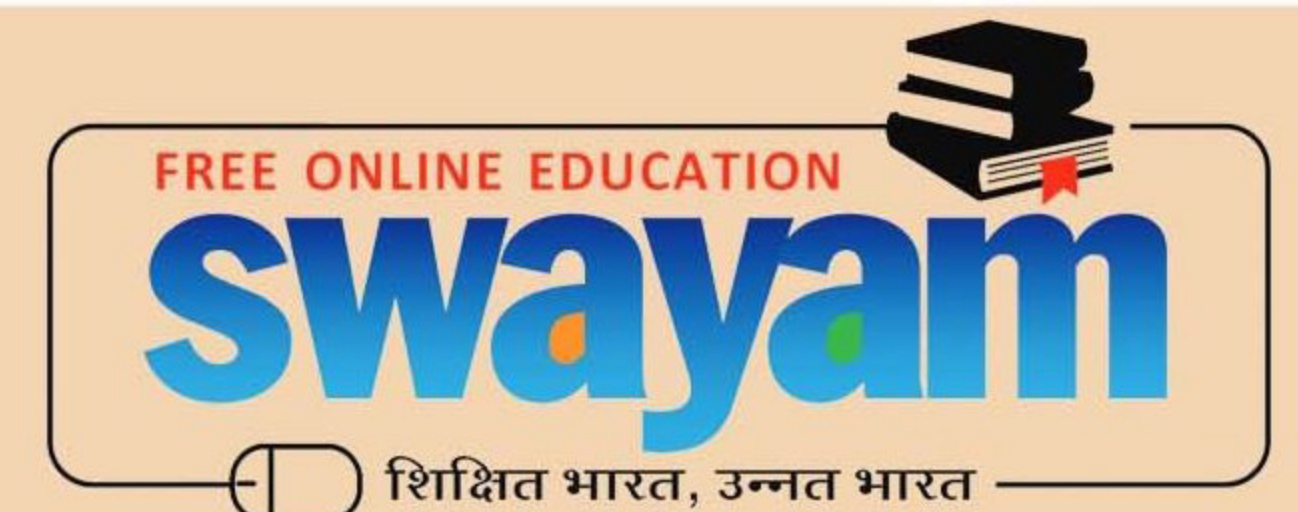
**(8 week course)**

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23MA64S35490387

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**JAYAPAL S**

for successfully completing the course

**Basic Linear Algebra**

with a consolidated score of **49** %

Online Assignments	14.96/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **477**

**Jan-Mar 2024**

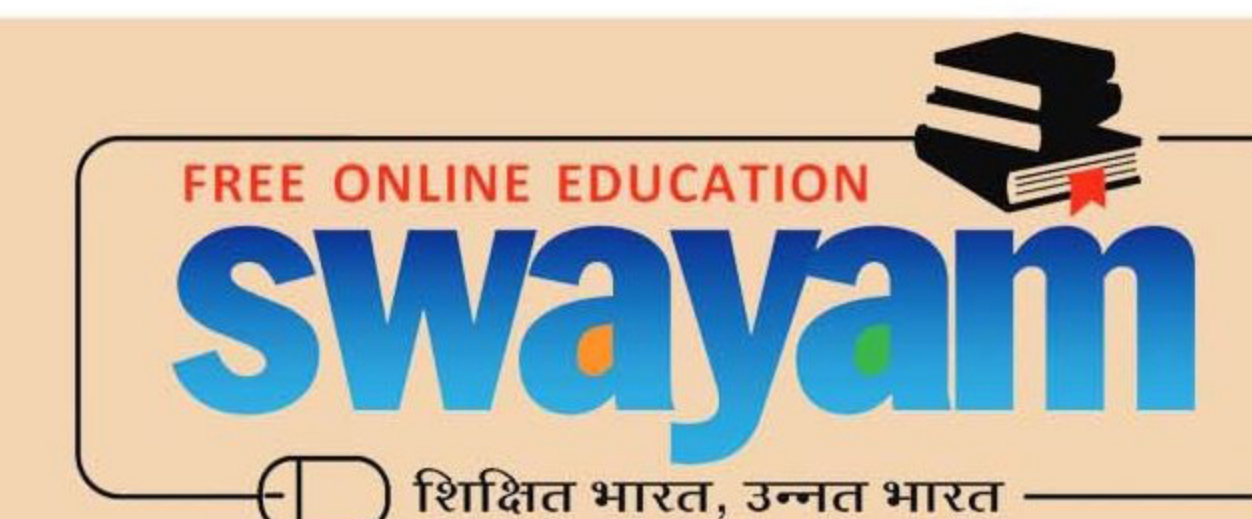
**(8 week course)**

**Prof. Sridhar Iyer**

Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



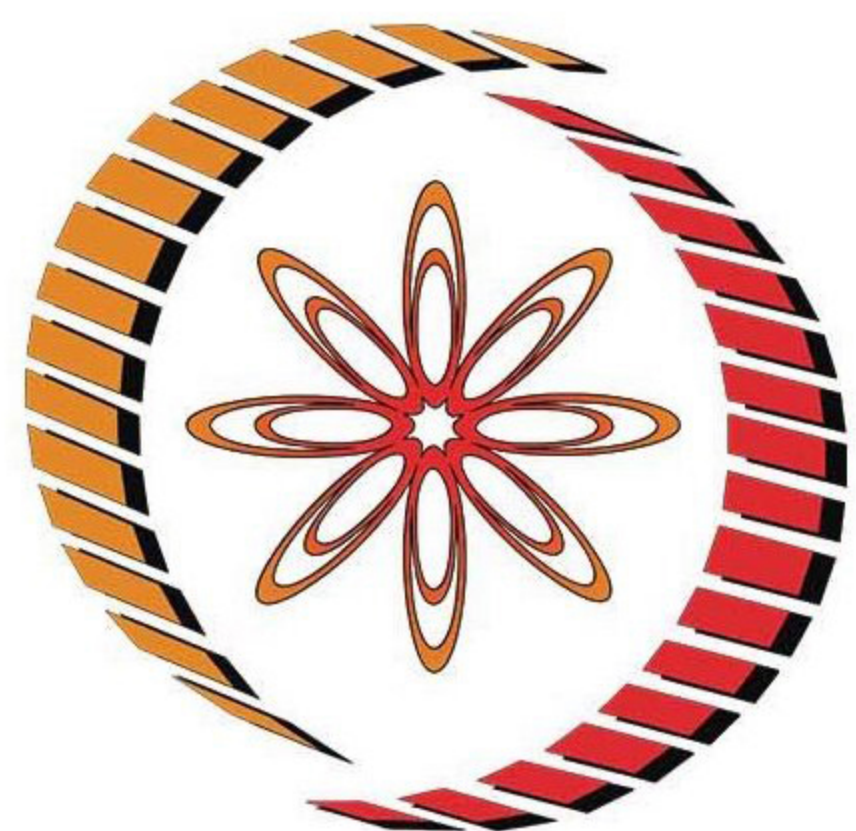
Roll No: NPTEL24MA13S455000307

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**RAMESH S**

for successfully completing the course

**Calculus of One Real Variable**

with a consolidated score of **44** %

Online Assignments	12.67/25	Proctored Exam	31.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **73**

**Prof. B. V. Ratish Kumar**

Chairman, Centre for Continuing Education  
IIT Kanpur

**Jul-Sep 2023**

**(8 week course)**

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23MA64S35490565

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**RAMESH S**

for successfully completing the course

**Basic Linear Algebra**

with a consolidated score of **47** %

Online Assignments	13.92/25	Proctored Exam	33/75
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Total number of candidates certified in this course: **477**

**Jan-Mar 2024**

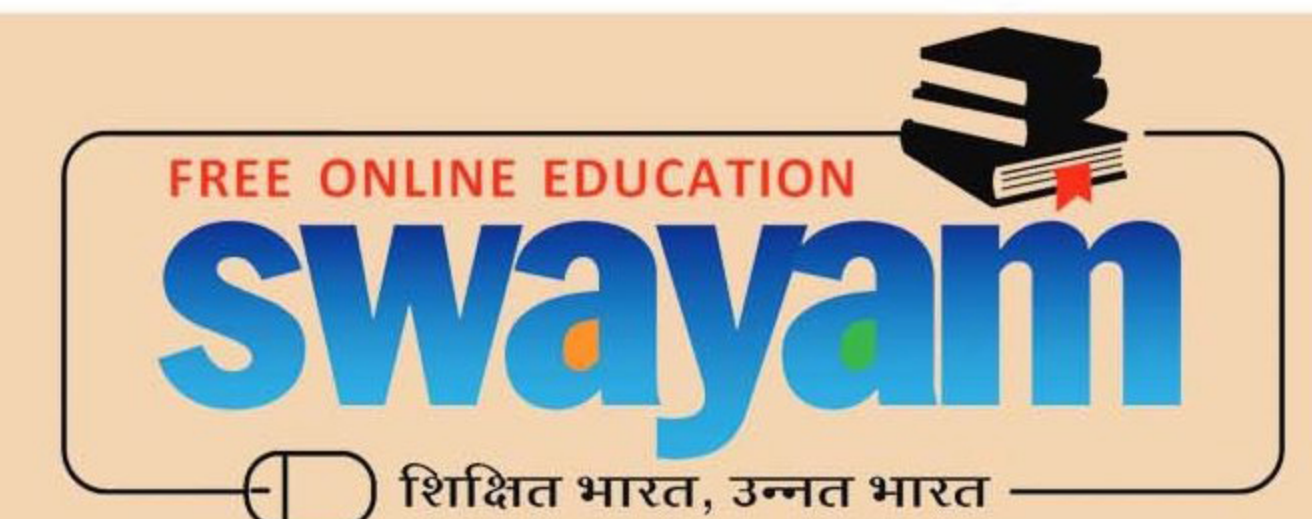
**(8 week course)**

**Prof. Sridhar Iyer**

Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL24MA13S355000030

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



*This certificate is awarded to*

**SURENDHARAPRASATH J S**

*for successfully completing the course*

**Basic Linear Algebra**

*with a consolidated score of* **41** %

<b>Online Assignments</b>	<b>11.42/25</b>	<b>Proctored Exam</b>	<b>30/75</b>
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*Total number of candidates certified in this course:* **477**

**Jan-Mar 2024**

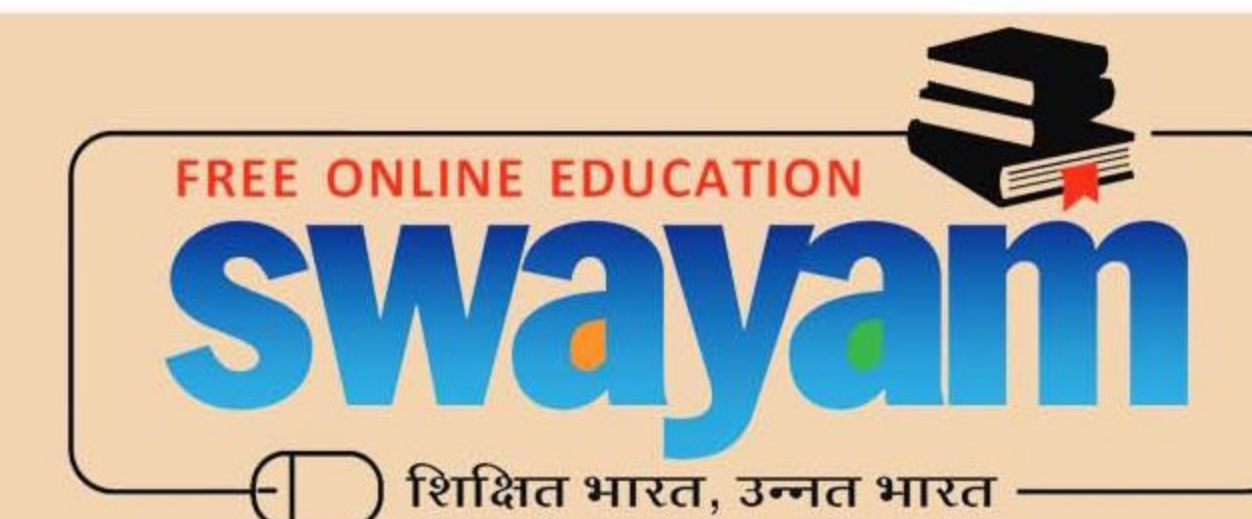
**(8 week course)**

**Prof. Sridhar Iyer**

Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL24MA13S355000120

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**VIJAY C**

for successfully completing the course

**Basic Linear Algebra**

with a consolidated score of **42** %

Online Assignments	12.33/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **477**

**Jan-Mar 2024**

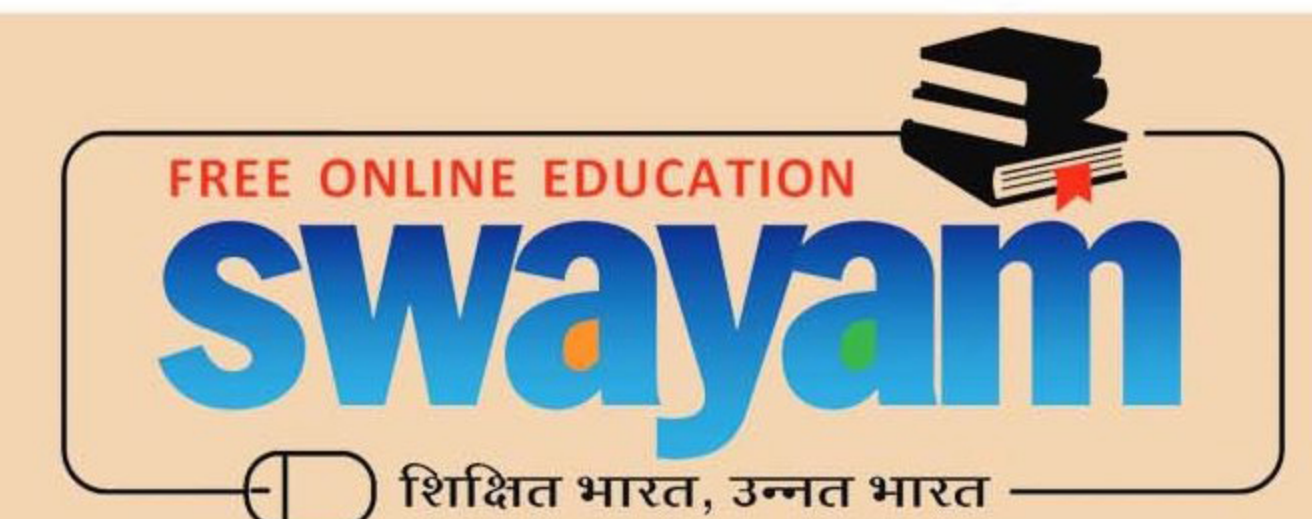
**(8 week course)**

**Prof. Sridhar Iyer**

Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL24MA13S355000142

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**YASHVANTHKUMAR A**

for successfully completing the course

**Basic Linear Algebra**

with a consolidated score of **42** %

Online Assignments	11.79/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **477**

**Jan-Mar 2024**

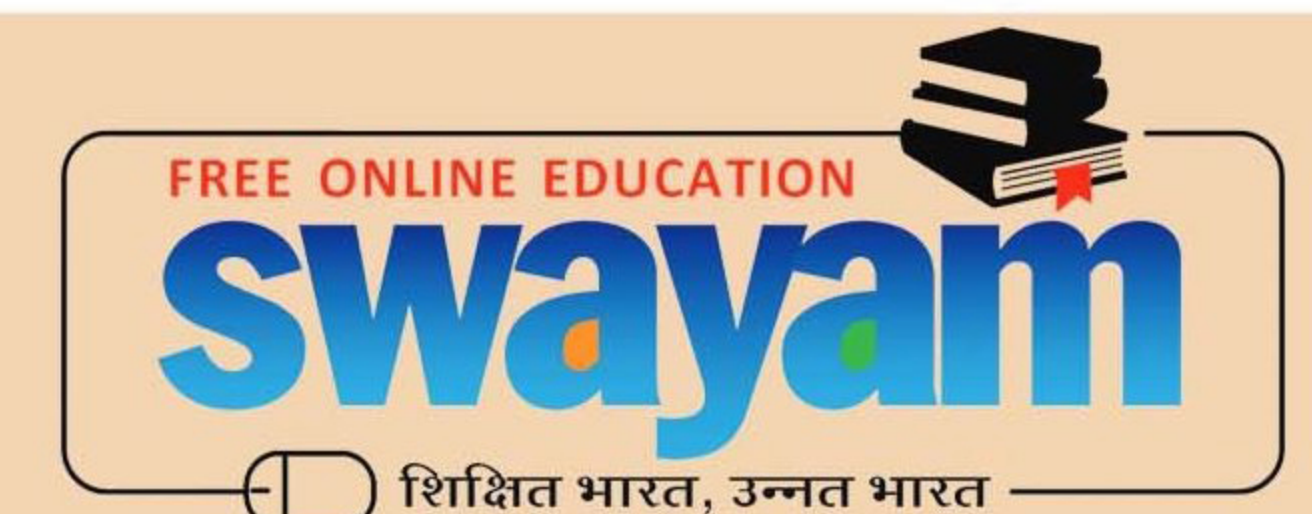
**(8 week course)**

**Prof. Sridhar Iyer**

Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL24MA13S355000182

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ARTHI S**

for successfully completing the course

**Operations Research**

with a consolidated score of **45** %

Online Assignments	15.42/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **119**

**Prof. Kaushik Ghosh,**  
Professor (Chemistry)  
Coordinator CEC

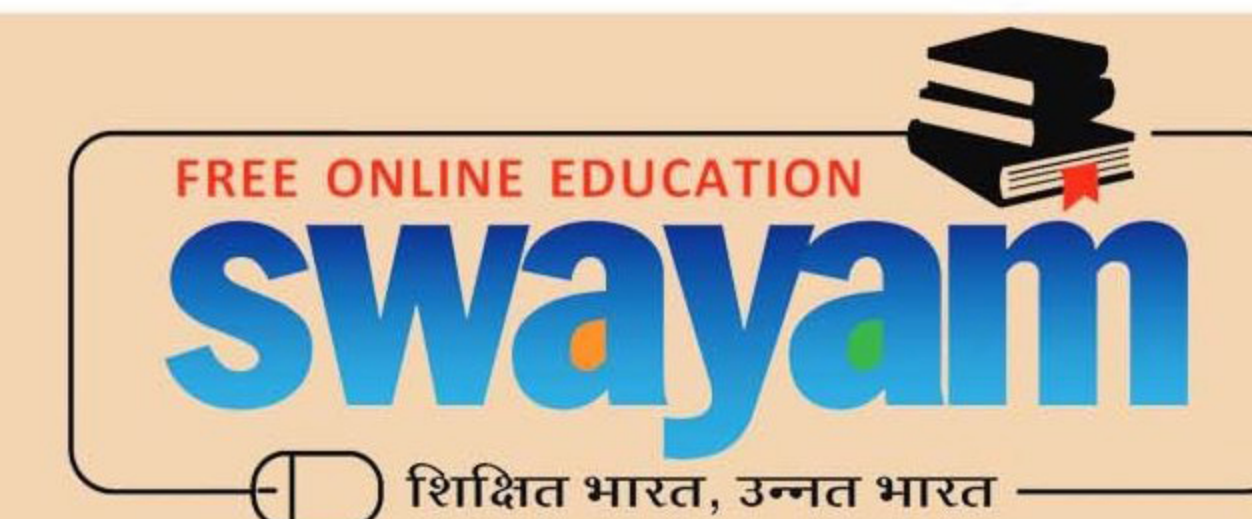
**Jul-Sep 2023**

**(8 week course)**

**Prof. Ranjana Pathania,**  
Professor (BSBE)  
Coordinator (NPTEL)



Indian Institute of Technology Roorkee



Roll No: NPTEL23MA92S35490337

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**KARUNYA SENTHILNATHAN**  
for successfully completing the course

## Basic Real Analysis

with a consolidated score of **45** %

Online Assignments	11.94/25	Proctored Exam	33/75
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Total number of candidates certified in this course: **87**

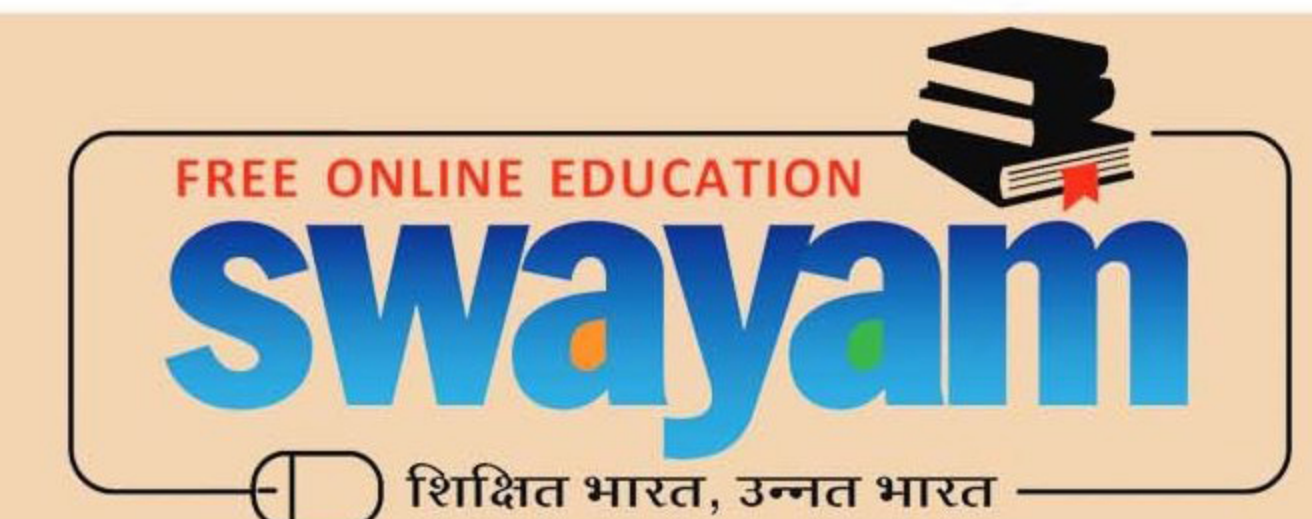
**Jan-Apr 2024**

**(12 week course)**

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL24MA14S1166100144

To verify the certificate



No. of credits recommended: 3 or 4





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SANTHOSH KUMAR P**

for successfully completing the course

**Operations Research**

with a consolidated score of **45** %

Online Assignments	15.42/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **119**

**Prof. Kaushik Ghosh,**  
Professor (Chemistry)  
Coordinator CEC

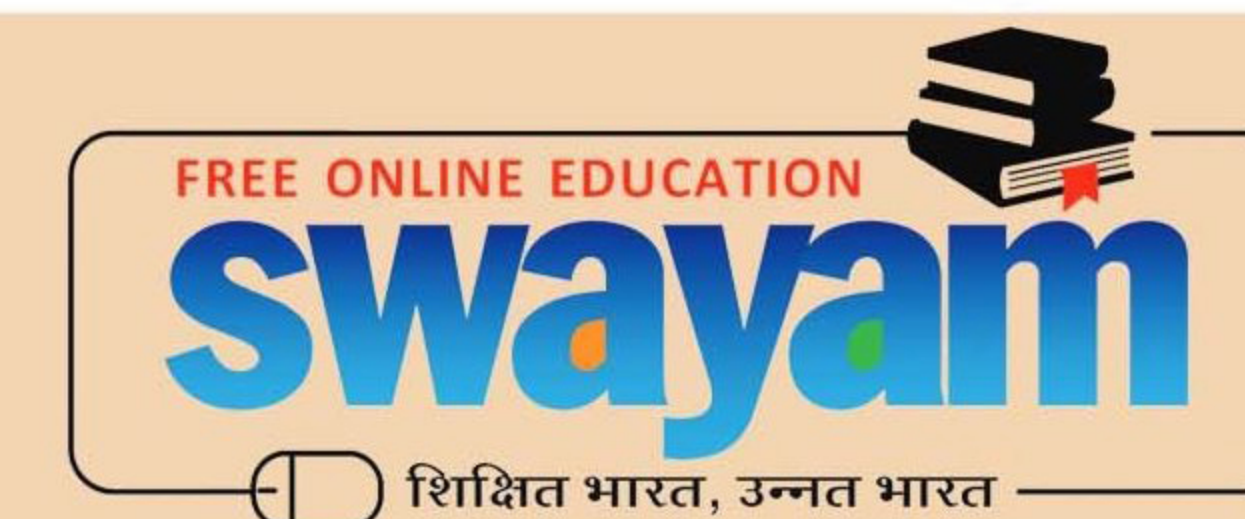
**Jul-Sep 2023**

**(8 week course)**

**Prof. Ranjana Pathania,**  
Professor (BSBE)  
Coordinator (NPTEL)



Indian Institute of Technology Roorkee



Roll No: NPTEL23MA92S35490437

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**BHAVADHARANI K**

for successfully completing the course

## Graph Theory

with a consolidated score of **57** %

Online Assignments	21.08/25	Proctored Exam	36/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000173

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**B DEVI**

for successfully completing the course

## Graph Theory

with a consolidated score of **66** %

Online Assignments	21.08/25	Proctored Exam	45/75
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Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

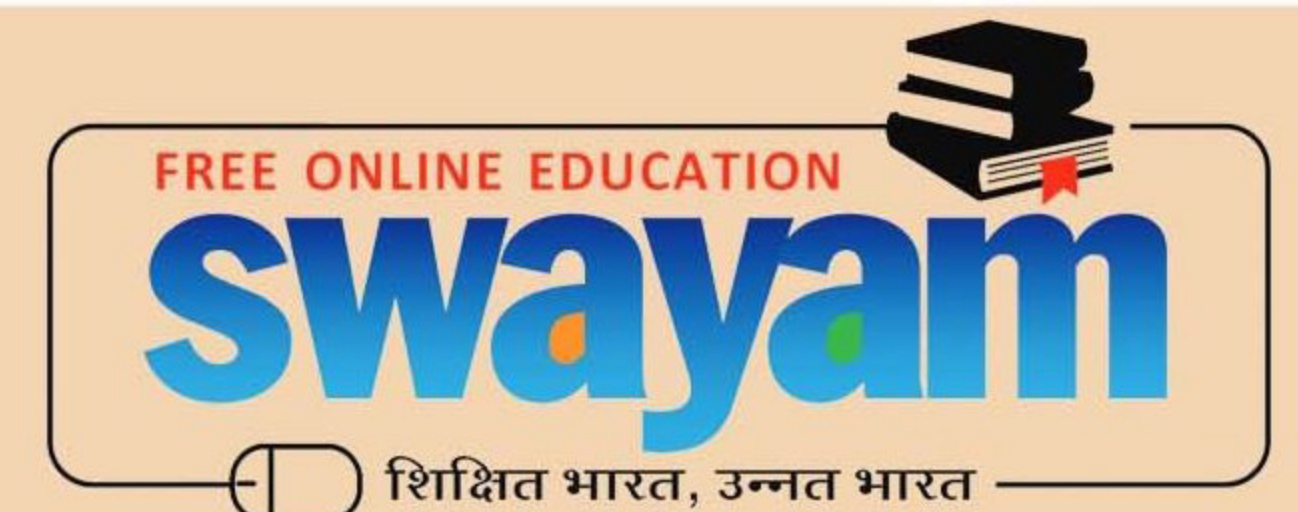
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000182

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DHANUSHIYA P**

for successfully completing the course

**Graph Theory**

with a consolidated score of **52** %

Online Assignments	22.04/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

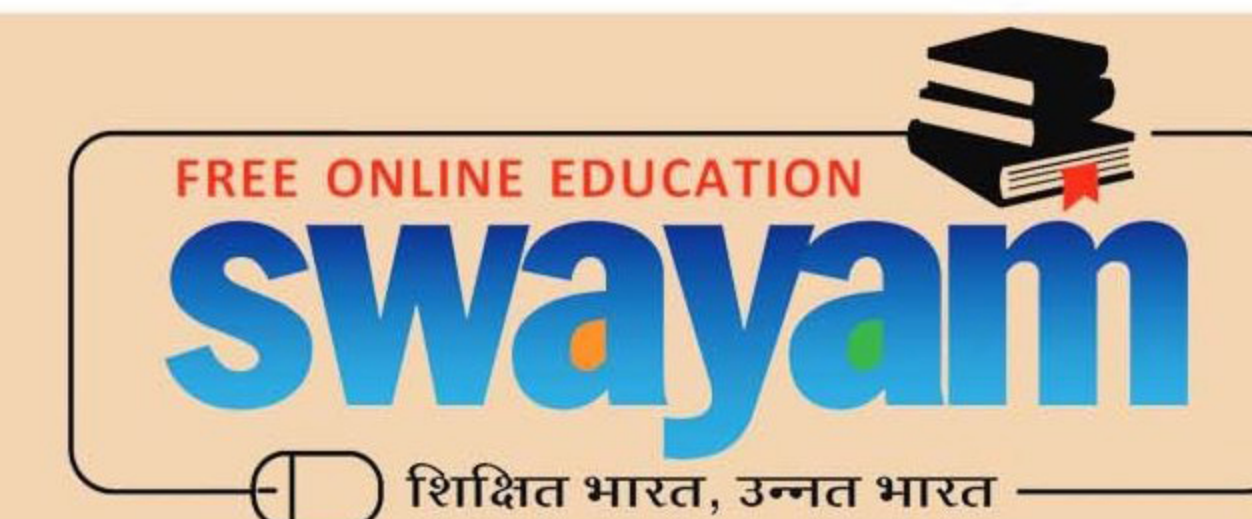
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000191

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**JANANISRI**

for successfully completing the course

**Graph Theory**

with a consolidated score of **63** %

Online Assignments	21.08/25	Proctored Exam	42/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

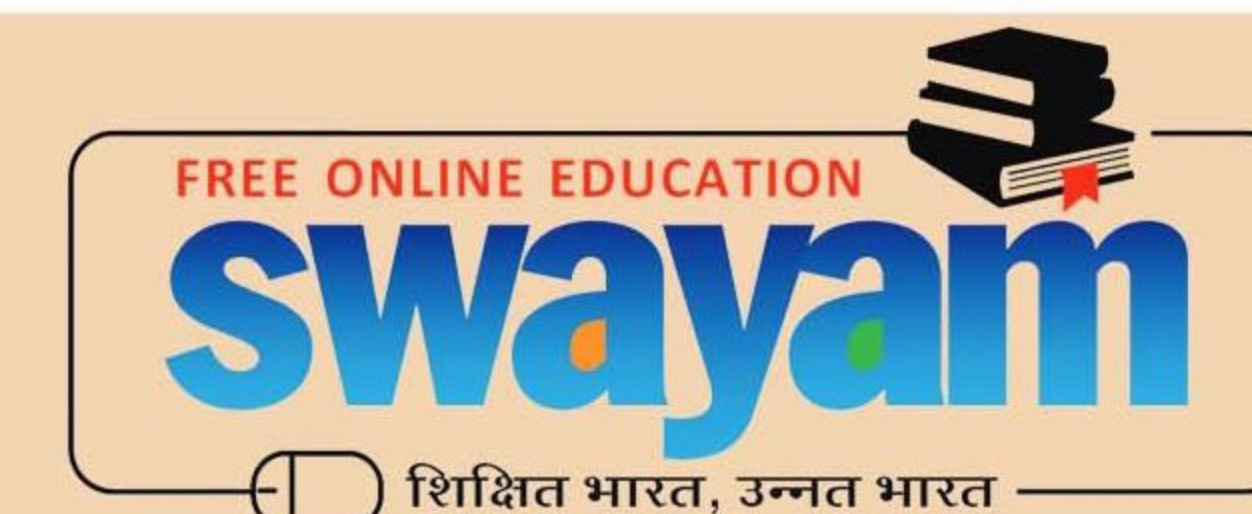
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000200

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**JEEVITHA C**

for successfully completing the course

## Graph Theory

with a consolidated score of **64** %

Online Assignments	21.08/25	Proctored Exam	42.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

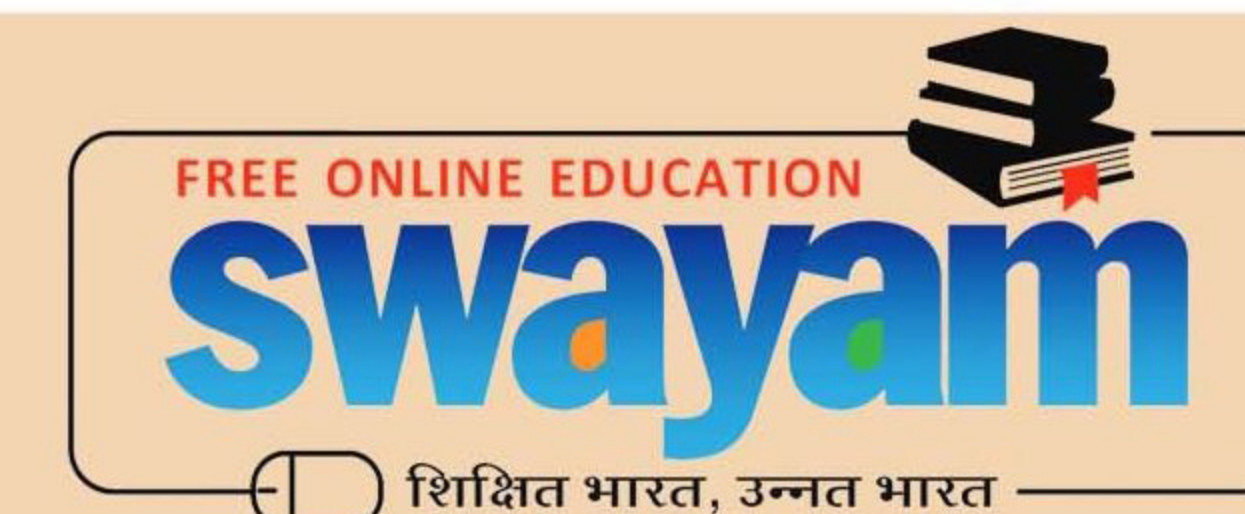
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



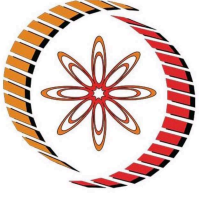
Roll No: NPTEL24MA23S655000211

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**KARTHIKA DEVI P**

for successfully completing the course

## Graph Theory

with a consolidated score of **69** %

Online Assignments	22.04/25	Proctored Exam	47.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000220

To verify the certificate



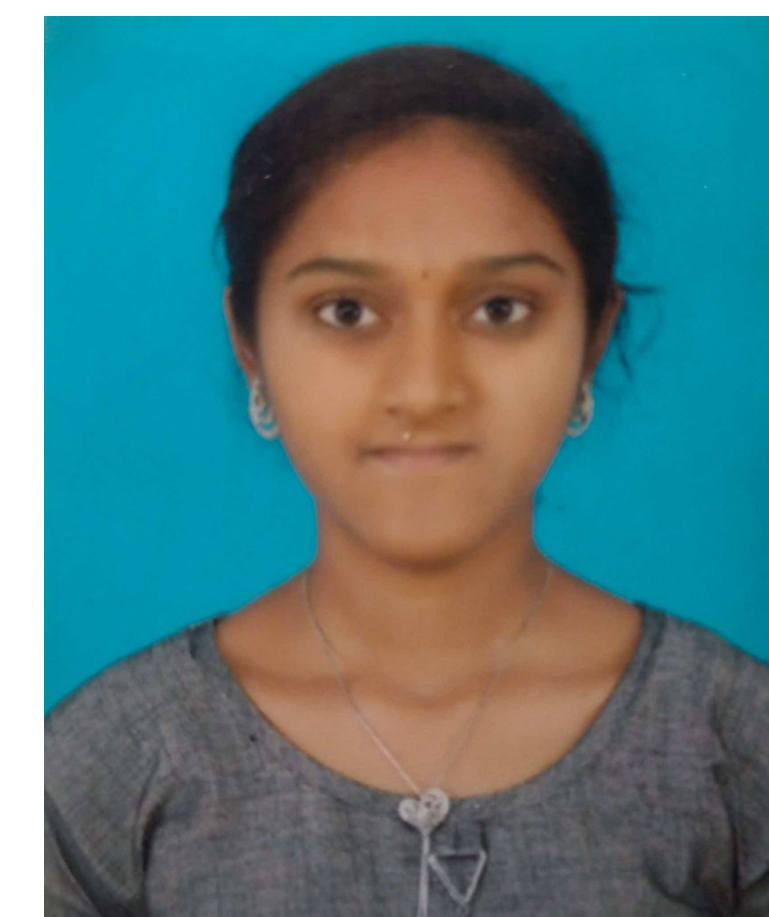
No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**NITHYASHREE K**

for successfully completing the course

**Graph Theory**

with a consolidated score of **57** %

Online Assignments	21.5/25	Proctored Exam	35.25/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

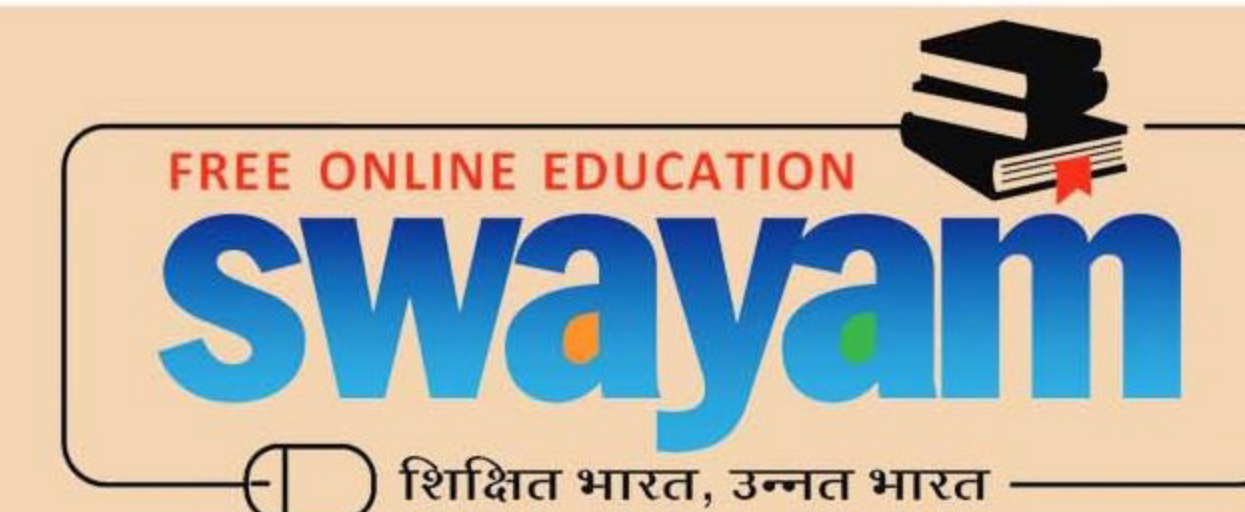
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655501294

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**R NITHYASRI**

for successfully completing the course

## Graph Theory

with a consolidated score of **51** %

Online Assignments	18.21/25	Proctored Exam	33/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

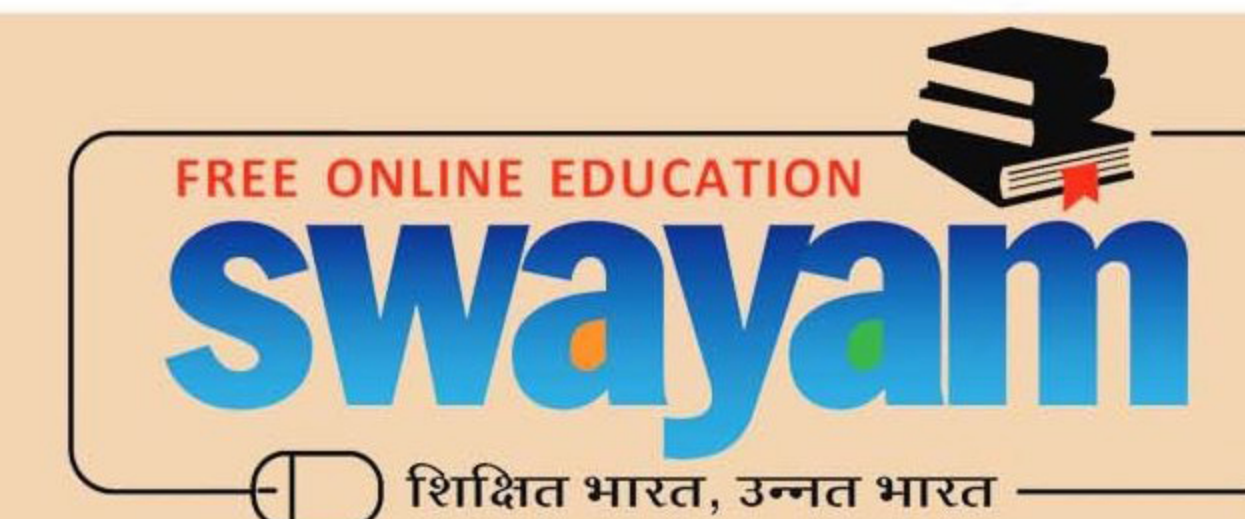
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000229

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**N SATHIYA**

for successfully completing the course

## Graph Theory

with a consolidated score of **70** %

Online Assignments	21.08/25	Proctored Exam	48.75/75
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Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

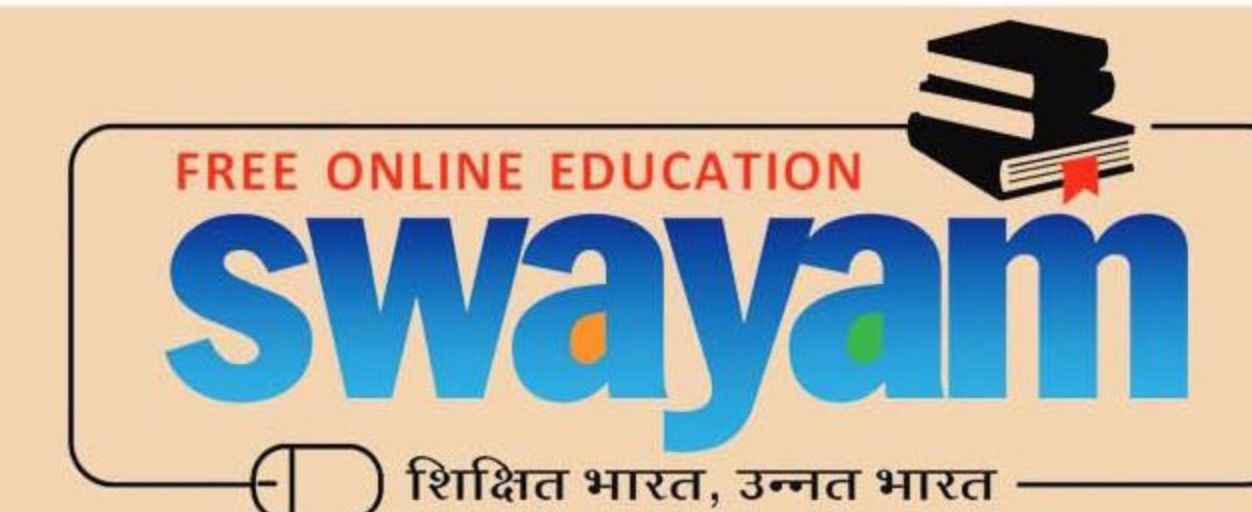
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000238

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**S SINDHU**

for successfully completing the course

## Graph Theory

with a consolidated score of **63** %

Online Assignments	20.17/25	Proctored Exam	42.75/75
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Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

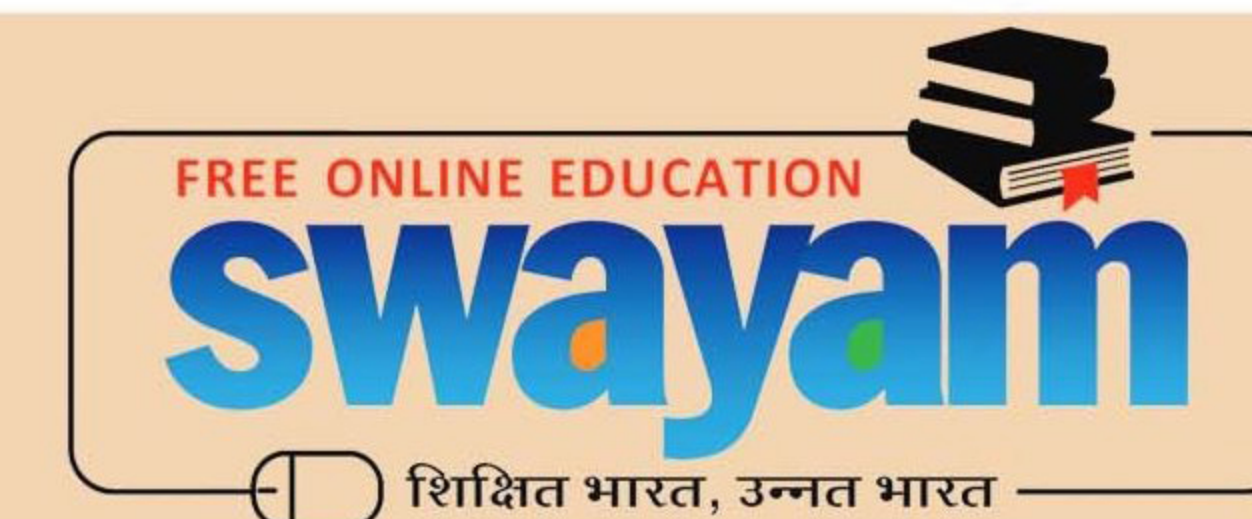
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000248

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SRINITHI MURUGESAN**

for successfully completing the course

## Graph Theory

with a consolidated score of **68** %

Online Assignments	20.42/25	Proctored Exam	48/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

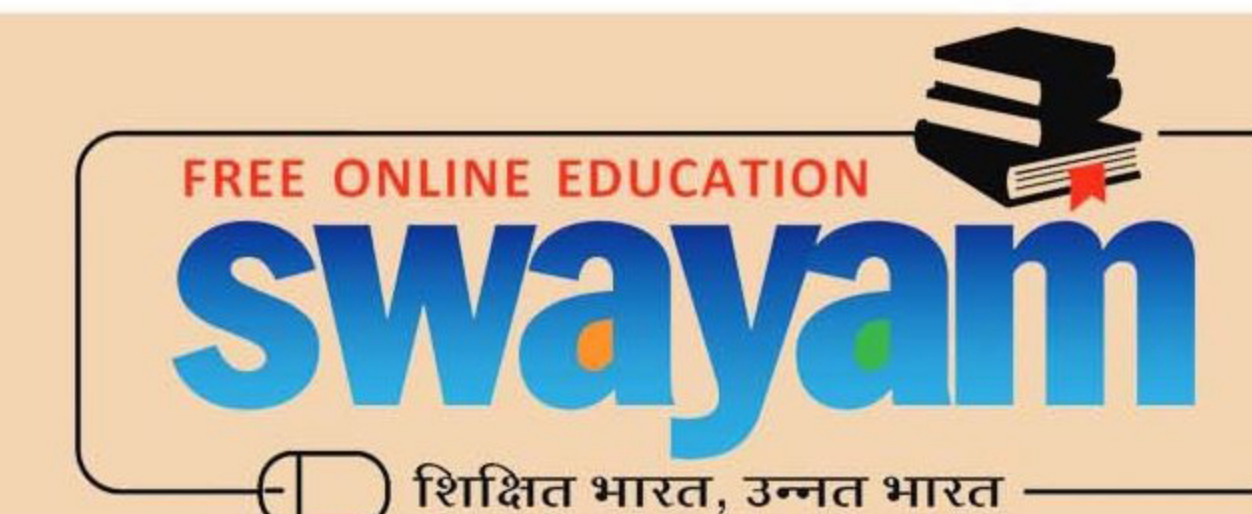
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000257

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**S SUGASHINI**

for successfully completing the course

**Graph Theory**

with a consolidated score of **71** %

Online Assignments	21.08/25	Proctored Exam	50.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

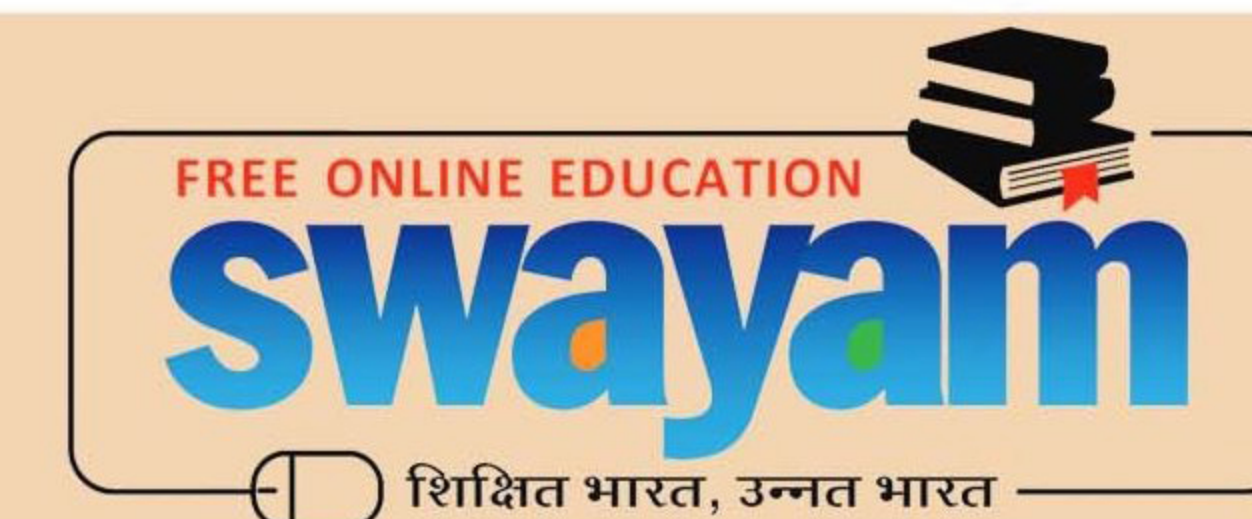
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S655000266

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**YOGAMAYA M**

for successfully completing the course

**Graph Theory**

with a consolidated score of **70** %

Online Assignments	20.29/25	Proctored Exam	49.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **956**

**Prof. M. S. Santhanam**

Dean, International Relations and Outreach  
IISER Pune

**Jan-Mar 2024**

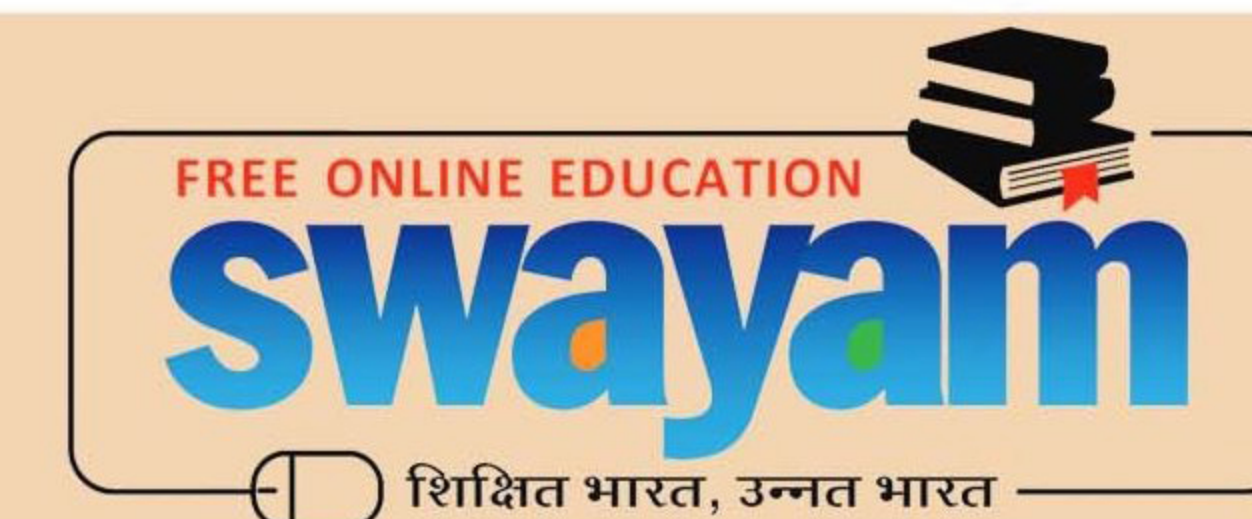
**(8 week course)**

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL24MA23S555500465

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ANUSHA S**

for successfully completing the course

**Discrete Mathematics**

with a consolidated score of **50** %

Online Assignments	19.53/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **350**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Apr 2024**

**(12 week course)**

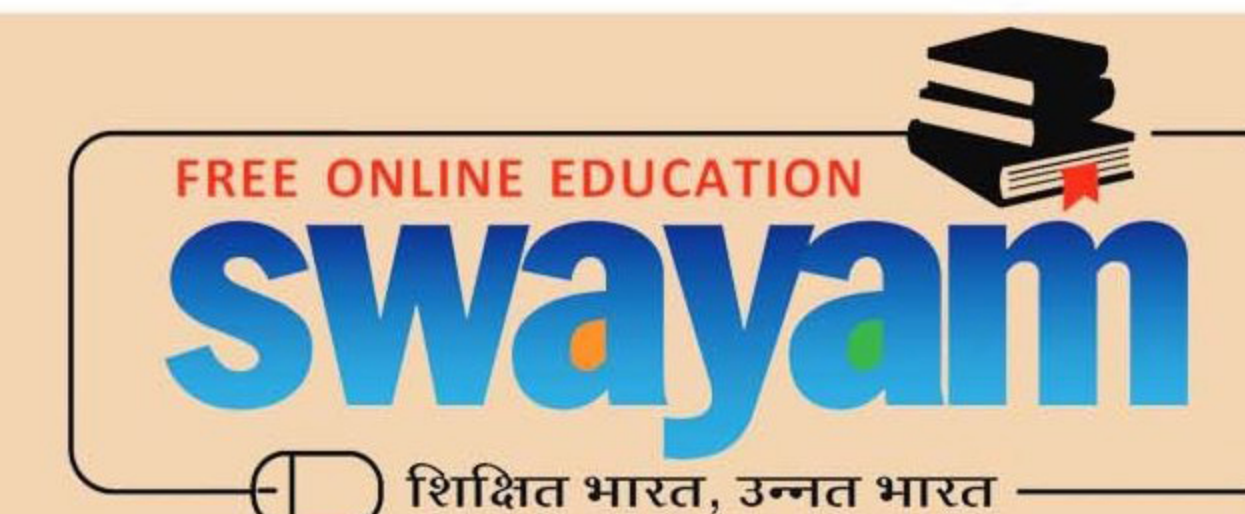
**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS58S1263100193

To verify the certificate



No. of credits recommended: 3 or 4





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**S DEEPA**

for successfully completing the course

**Discrete Mathematics**

with a consolidated score of **42** %

Online Assignments	11.81/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **350**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Apr 2024**

**(12 week course)**

*Prof. Andrew Thangaraj*

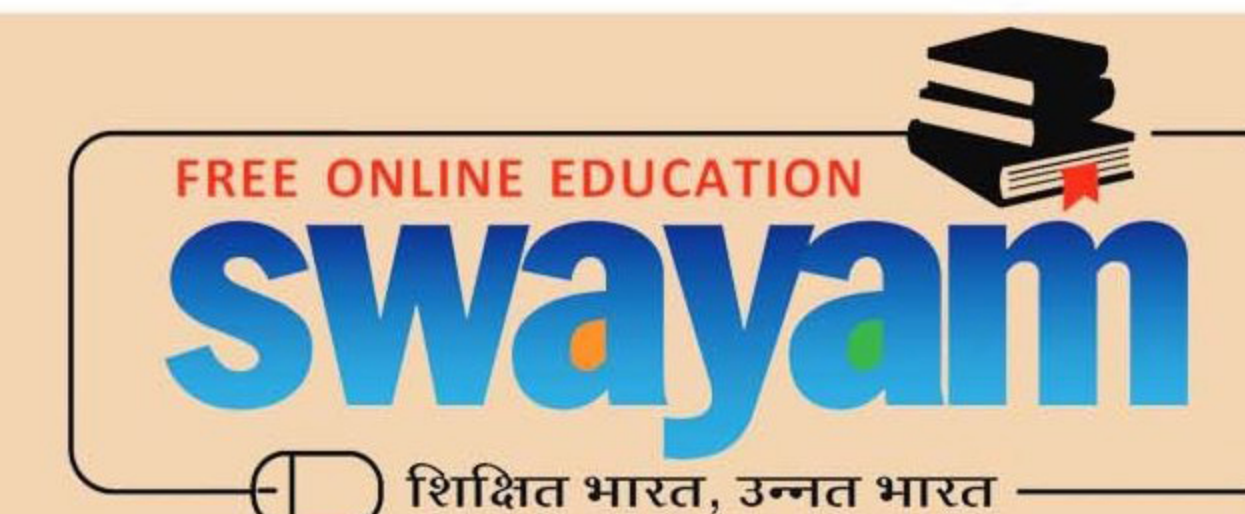
**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS58S1163100268

To verify the certificate



No. of credits recommended: 3 or 4





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DHARANI G**

for successfully completing the course

**Discrete Mathematics**

with a consolidated score of **56** %

Online Assignments	19.66/25	Proctored Exam	36/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **350**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Apr 2024**

**(12 week course)**

*Prof. Andrew Thangaraj*

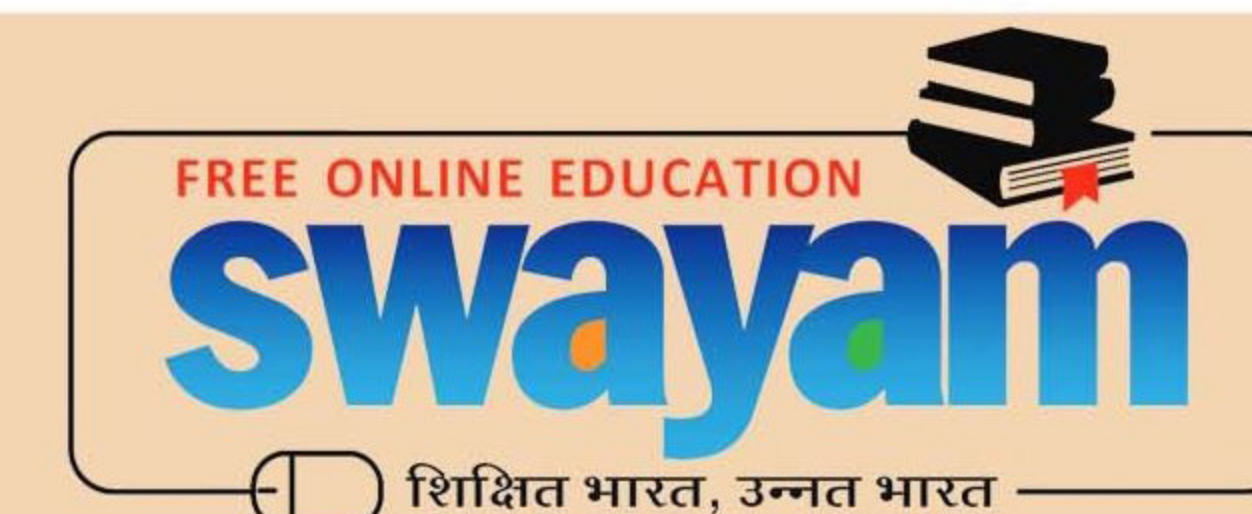
**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS58S1263100130

To verify the certificate



No. of credits recommended: 3 or 4