

**NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
(AUTONOMOUS) – POLLACHI**

DEPARTMENT OF MATHEMATICS

CIRCULAR

Date: 28.12.2020

We the Department of Mathematics conducting a Value Added Course “3D Printing” for UG students of all departments. All the HODs are requested to inform their students about this course and inform your students to register their names in the Department of Mathematics on or before 30.12.2020.


Head of the Department
Dr. V. Inthumathi, Ph.D.,
Associate Professor & Head
Department of Mathematics
N.G.M College, Pollachi - 642 001.


Principal




NGM COLLEGE

(Autonomous)



Re-accredited by NAAC, An ISO:9001:2015 Certified Institution
Affiliated to Bharathiyar University, Coimbatore
90, Palghat Road, Pollachi - 642001.

DEPARTMENT OF MATHEMATICS

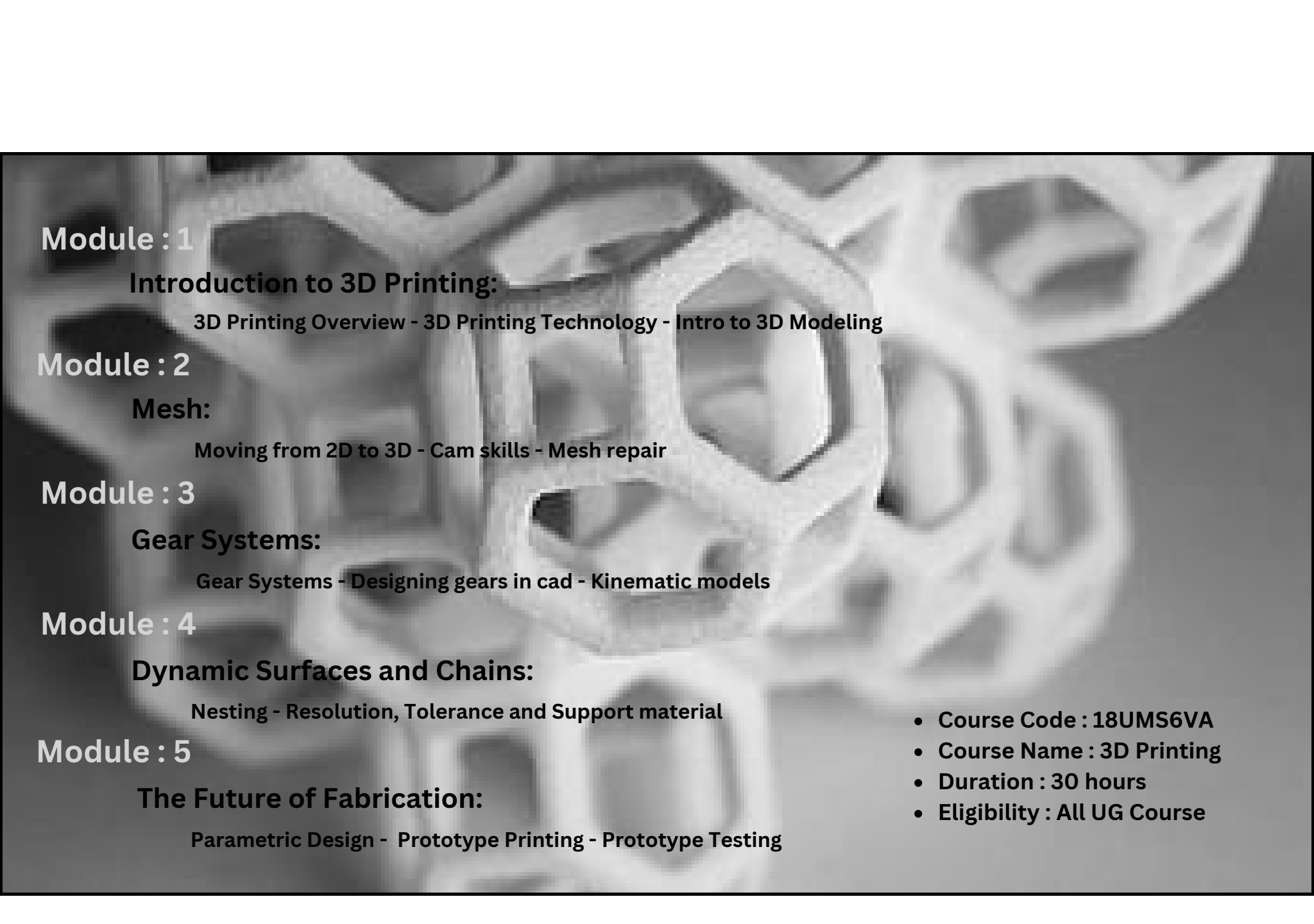
VALUE ADDED COURSE
2018-2021
ON
3D PRINTING

CAREER OPPORTUNITIES:

RESEARCH AND DEVELOPMENT
BIOLOGICAL AND SCIENTIFIC MODELING
3D CAD MODELING
3D DESIGN

LEARNING NEVER
EXHAUSTS THE MIND

-LEONARDO DA VINCI



Module : 1

Introduction to 3D Printing:

3D Printing Overview - 3D Printing Technology - Intro to 3D Modeling

Module : 2

Mesh:

Moving from 2D to 3D - Cam skills - Mesh repair

Module : 3

Gear Systems:

Gear Systems - Designing gears in cad - Kinematic models

Module : 4

Dynamic Surfaces and Chains:

Nesting - Resolution, Tolerance and Support material

Module : 5

The Future of Fabrication:

Parametric Design - Prototype Printing - Prototype Testing

- **Course Code : 18UMS6VA**
- **Course Name : 3D Printing**
- **Duration : 30 hours**
- **Eligibility : All UG Course**

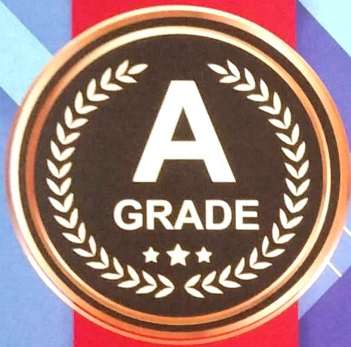
VALUE ADDED COURSE

Programme Code:	B.Sc.	Programme Title:	Mathematics	
Course Code:	18UMS6VA	Title	Batch:	2018 - 2020
Lecture Hrs./Week or Practical Hrs./Week	-	3D Printing	Semester:	VI
			Credits:	2*

Units	Content	Hrs.
Unit I	Introduction to 3D Printing: 3D Printing Overview -3D Printing Technology-Intro to 3D Modeling	6
Unit II	Mesh: What is Mesh-Moving from 2D to 3D –Advanced cad commands-Cam skills-Mesh repair	6
Unit III	Gear Systems: Introduction-Gear Systems-Designing gears in cad-Kinematic models	6
Unit IV	Dynamic Surfaces and Chains: Dynamic Surfaces-Nesting –Multiplier-Material behaviour-Resolution, tolerance and support material- Dynamic surfaces and chains	6
Unit V	The Future of Fabrication: Introduction-Parametric Design-Prototype Printing-Prototype Testing	6
	Total Contact Hrs.	30


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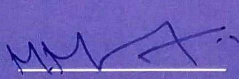
DINESH BABU (18MA05)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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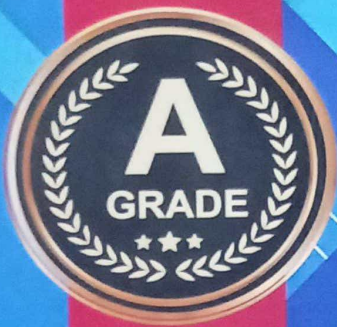
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AUTHORIZED SIGNATORY

Technical lead - Industrial training program



Grade Point Assessment: A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance



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DURAI KANDEESHWARAN S (18MA06)

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PRAKASH M (18MA08)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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SIVA KUMAR V (18MA10)

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THAMBI SELVARAJ R (18MA11)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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ABINAYA S P (18MA14)

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AKALYA R (18MA17)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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AKILA S (18MA18)

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BAVYA R (18MA19)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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DEEPA S (18MA20)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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GEETHANJALI M (18MA21)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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GOKULA VANI M (18MA22)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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extensive syllabus and qualified coursework.
We wish the very best in your future.


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HARIPRIYA C (18MA23)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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KARTHIKA DEVI P (18MA26)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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KRISHNAVENI M (18MA27)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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LAKSHMI SOUNDARYA C (18MA28)

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MANONMANI K (18MA30)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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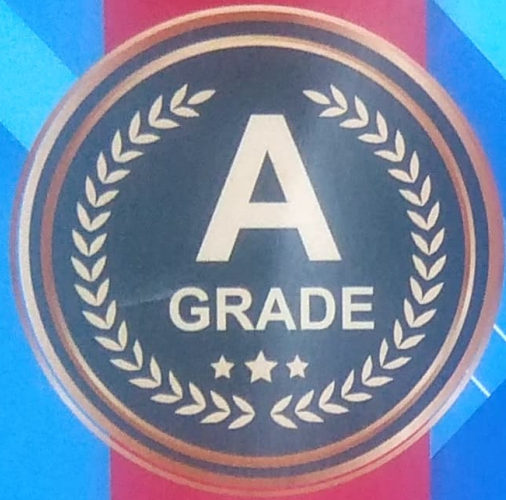
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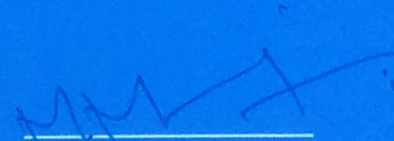
NARMATHA DEVI S (18MA33)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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(III Bsc MATHS NGM COLLEGE POLLACHI)

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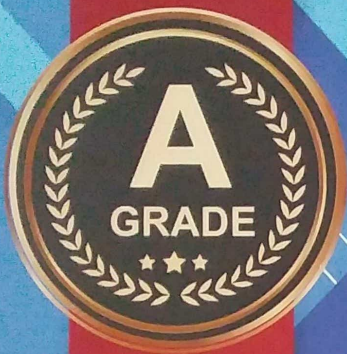
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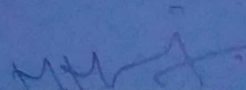
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PIRANAVI T (18MA37)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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Technical lead - Industrial training program



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Grade Point Assessment: A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance



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RAGAVI R (18MA39)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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RAMIDHA V S (18MA40)

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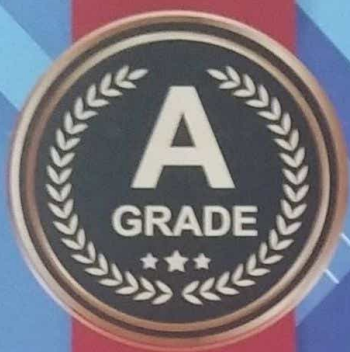


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Technical lead - Industrial training program



Grade Point Assessment: A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance



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REVATHI N (18MA43)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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SANTHIYA K (18MA45)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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Technical lead - Industrial training program



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SARATHI HASHINI R (18MA46)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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SIVARANJANI S (18MA50)

(III Bsc MATHS NGM COLLEGE POLLACHI).

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Technical lead - Inclusive training program



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SUBASHINI R (18MA51)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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Technical head - Industrial training program



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Grade Point Assessment: A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance



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SUJITHA DEVI M (18MA52)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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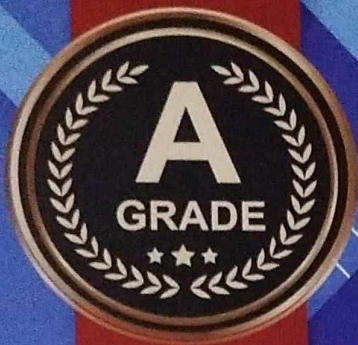
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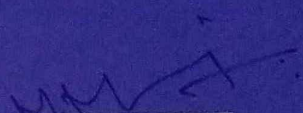
THIS CERTIFICATE IS PROUDLY PRESENTED TO
UDHAYA NILA S (18MA55)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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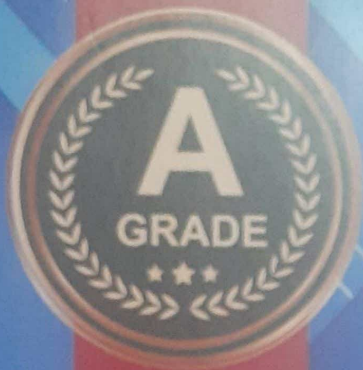
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AUTHORIZED SIGNATORY

Technical lead - Industrial training program



(C - Meet the expectations / G - Beyond expectation / D - Poor performance)



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VINITHA K (18MA58)

(III Bsc MATHS NGM COLLEGE POLLACHI)

FOR THE EXCEPTIONAL PERFORMANCE THAT HAS LED TO THE
SUCCESSFUL COMPLETION OF "3D PRINTING"
ON "22/03/2021(30Hrs)" AT PROFENAA TECHNOLOGIES.

Congratulations!

This course you have completed is a part of Profenaa's Industrial Training program. It was designed to meet your learning needs with professional instructors, extensive syllabus and authorized courseware. We wish the very best for your future.


AUTHORIZED SIGNATORY

Technical lead - Industrial training program



Grade Point Assessment A- Performance exceeds expectations / B- Meets the expectations / C- Below expectation / D- Poor performance



CERTIFICATE OF ACHIEVEMENT

THIS CERTIFICATE IS PROUDLY PRESENTED TO

ANU DHARUNYA M (18MA60)

(III Bsc MATHS NGM COLLEGE POLLACHI)

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