

FATIMA COLLEGE (AUTONOMOUS), MADURAI DEPARTMENT OF MATHEMATICS

2022-2023

DEPARTMENT OF MATHEMATICS OFFERS VALUED ADDED CERTIFICATE COURSE ON

Quantitative and Qualitative Methods

It helps you to prepare for competitive examinations like TNPSC, TANCET,

MAT, Bank exams, Railway recruitment etc.

It helps you to solve arithmetical problems in real life situations

No. of Hours: 60

Gourse Fee: Rs. 1500/- only

Only 70 seats are available

Admission is according to FIRST COME FIRST SERVE

Rush up!!!

Tome and join, Step into your Career

LAST DATE FOR REGISTRATION: 25th July 2022

VALUE ADDED CERTIFICATE COURSE

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
UAMA	22UGVACM1	Quantitative and Qualitative Methods	Lecture	4	2

COURSE DESCRIPTION COURSE DESCRIPTION

This course is designed to help the students to appear in competitive examinations.

COURSE OBJECTIVES:

- > Demonstrate the use of mathematical reasoning by justifying through numerical skills.
- Examine various techniques in solving the problems

COURSE OBJECTIVE UNITS

UNIT I: PROBLEMS ON AGES, NUMBERS AND SIMPLIFICATION

[10 HRS]

Problems related with ages and numbers, Simplification of numbers

UNIT II: PROFIT AND LOSS, PERCENTAGE, RATIO AND PROPORTION [12 HRS]

Profit and Loss: Cost Price - Selling Price - Profit or Gain - Loss - Gain percentage - Loss percentage - Ratio and proportion.

UNIT III: PARTNERSHIP, PERMUTATION AND COMBINATION [12 HRS]

Partnership – Ratio of Division of Gains – Working and Sleeping Partners, Permutations and Combinations – formulae and problems.

UNIT IV: TIME & WORK, TIME AND DISTANCE [12 HRS]

Time and Work: Important facts and formulae on time and work –Problems,
Time and Distance: Important facts and formulae on speed, time and
distance – Problems

UNIT V: SIMPLE INTEREST & COMPOUND INTEREST [14 HRS]

Simple Interest: Important facts and formulae on interest, sum, rate and time. Compound Interest: Important facts and formulae on amount when interest is compound: annually-Half-yearly-Quarterly

TEXT BOOK:

R.S. Aggarwal - Quantitative Aptitude for Competitive Examinations, S. Chand & Company Ltd, Revised Edition 2008.

UNIT I: Chapter 4, 7 and 8

UNIT II : Chapter 10, 11 and 12

UNIT III : Chapter 13 and 30

UNIT IV : Chapter 15 and 17

UNIT V : Chapter 21 and 22

REFERENCE BOOKS:

- 1. S.K .Arora , S. Bhasin , Manish Puri Objective Mathematics for all Competitive Examinations.
- 2. R.Gupta Super Quicker Arithmetic.

COURSE OUTCOME

On the successful completion of the course, students will be able to:

NO.	COURSE OUTCOMES	KNOWLEDGE LEVEL (ACCORDING TO REVISED BLOOM'S TAXONOMY)	PSOs ADDRESSED
CO 1	Construct the Problems on Ages quantitatively and Solve.	K1,K2&K3	PSO4
CO 2	Distinguish Profit and Loss problems and Solve	K2&K3	PSO5
CO 3	Solve Partnership Problems in Business	K1&k3	PSO3
CO 4	Identify Problems on Time, Work and Distance and Solve	K2&K3	PSO3
CO 5	Classify Simple Interest and Compound Interest problems and Solve	K1&k3	PSO5

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FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University Re-Accredited with 'A++' by NAAC (Cycle - IV) Mary Land, Madurai - 625018, Tamil Nadu

DEPARTMENT OF MATHEMATICS

Value Added Certificate Courses - Course Teacher Name list

S. No.	Course Title with Course Code	Course Teacher	No. of Hours Taken
1.	Quantitative and Qualitative Methods for Competitive Examinations - 22UGVACM1	Mrs. M. Teresa Nirmala	30
2.	Quantitative and Qualitative Methods for Competitive Examinations - 22UGVACM1	Dr. V. Vanitha	30

Signature of the HOD with Seal

Dr. A. Paulin Mary
Associate Professor & Head
Department of Mathematics
Fatima College (Autonomous)
Madurai - 625 018



AFFILIATED TO MADURAI KAMARAJ UNIVERSITY RE-ACCREDITED WITH 'A++' BY NAAC (CYCLE-IV) MARY LAND, MADURAI - 625 018

DEPARTMENT OF MATHEMATICS

This is to certify that Ms. _AROCKIYA LINCY · M (I B. com)
has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR COMPETITIVE EXAMINATIONS

during the academic year 2022-2023 and has been awarded Distinction / First / Second class.

Co-ordinator

Head of the Department

Dr. Sr. G.Celine Sahaya Mary



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MARY LAND, MADURAI - 625 018

DEPARTMENT OF MATHEMATICS

This is to certify that Ms. _______ ABIRAMI . P. R. (IL B.SC PHVSICS)
has successfully completed the Value Added Certificate Course on

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Sur . s.

Co-ordinator

J.Pers

Head of the Department

Sr. G.Celine Sahaya Mary



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Co-ordinator

Head of the Department

Sr. G.Celine Sahaya Mary



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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. _______ SAHAY OVIYA . S (I) B.SC PHYSICS) has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR COMPETITIVE EXAMINATIONS

during the academic year 2022-2023 and has been awarded Distinction / First / Second class.

Co-ordinator

Head of the Department

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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. ______ POOJA .k (II B.SC HNN)
has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR COMPETITIVE EXAMINATIONS

during the academic year 2022-2023 and has been awarded Distinction / First / Second class.

Co-ordinator

Head of the Department

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Head of the Department

Dr. Sr. G.Celine Sahaya Mary



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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. <u>SUBBULAKSHMI.S (III B.SC HNN)</u> has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR COMPETITIVE EXAMINATIONS

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Head of the Department

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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. _ YOHAVI . R (B.SC MATHEMATICS) has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR **COMPETITIVE EXAMINATIONS**

during the academic year 2022-2023 and has been awarded Distinction / First / Second class.

Sr. G.Celine Sahaya Mary



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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. _ABIRAMI · K (I B.Sc MATHEMATICS)
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Co-ordinator

Head of the Department

Sr. G.Celine Sahaya Mary



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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. ROSELIN PRIYATHARSHINI. G (I B. SC MATHEMATICS) has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR COMPETITIVE EXAMINATIONS

during the academic year 2022-2023 and has been awarded Distinction / First / Second class.

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Co-ordinator

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Head of the Department

Se. G. Celi Sahny Many

Dr. Sr. G.Celine Sahaya Mary



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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. _BENAZEER ASSLIN . AR (] B.SC MATHEMATICS) has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR **COMPETITIVE EXAMINATIONS**

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Head of the Department

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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. _VINCY · M (I B · SC MATHEMATICS)
has successfully completed the Value Added Certificate Course on

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Co-ordinator

Head of the Department

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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. ______ MARITA . D (I B. Sc MATHEMATICS) has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR COMPETITIVE EXAMINATIONS

during the academic year 2022-2023 and has been awarded Distinction / First / Second class.

Co-ordinator

Head of the Department

Dr. Sr. G.Celine Sahaya Mary



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Head of the Department

Sr. G.Celine Sahaya Mary



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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. _ KANNIKA PARAMESWARI - B (I B.SC MATHEMATICS) has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR COMPETITIVE EXAMINATIONS

during the academic year 2022-2023 and has been awarded Distinction / First / Second class.

Co-ordinator

3.12

Head of the Department

Dr. Sr. G.Celine Sahaya Mary



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5 July 3.

Co-ordinator

J.P-8

Head of the Department

Se. G. Celi Saling Hang

Dr. Sr. G.Celine Sahaya Mary



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DEPARTMENT OF MATHEMATICS

This is to certify that Ms. AASHIYA BEGUM . M (I B.SC MATHEMATICS)
has successfully completed the Value Added Certificate Course on

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during the academic year 2022-2023 and has been awarded Distinction / First / Second class.

5w-3,

Co-ordinator

J.P-8

Head of the Department

Se. G. Celi Sahnya Hany

Dr. Sr. G.Celine Sahaya Mary



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RE-ACCREDITED WITH 'A++' BY NAAC (CYCLE-IV)
MARY LAND, MADURAI - 625 018

DEPARTMENT OF MATHEMATICS

This is to certify that Ms. RENSILIBIYA A (I B.SC MATHEMATICS)
has successfully completed the Value Added Certificate Course on

QUANTITATIVE AND QUALITATIVE METHODS FOR COMPETITIVE EXAMINATIONS

during the academic year 2022-2023 and has been awarded Distinction / First / Second class.

Co-ordinator

Head of the Department

Dr. Sr. G.Celine Sahaya Mary



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This is to certify that Ms. _______ MAHALAKSHMI. & (I B.Sc MATHEMATICS) has successfully completed the Value Added Certificate Course on

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Co-ordinator

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This is to certify that Ms. <u>SUGHASINI</u>. C (I B.SC. MATHEMATICS)
has successfully completed the Value Added Certificate Course on

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S. g. Cu: Luny Many Dr. Sr. G.Celine Sahaya Mary



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