

FATIMA COLLEGE (AUTONOMOUS), MADURAI DEPARTMENT OF MATHEMATICS

2023-2024

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

Course Fee: Rs. 1500/- only

Only **70** seats are available

Admission is according to **FIRST COME FIRST SERVE**

Rush up!!!

Come and join, Step into your Career

LAST DATE FOR REGISTRATION: 25th July 2024

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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DEPARTMENT OF MATHEMATICS

Value-added Certificate Course - Quantitative and Qualitative Methods

Course Teacher Name list

S. No.	Course Title with Course Code	Course Teacher	No. of Hours Taken
1.	Quantitative and Qualitative Methods – 22UGVACM1	Mrs. M. Teresa Nirmala	60

Signature of the HOD with Seal

Signature of the HOD with Seal

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

DEPARTMENT OF MATHEMATICS Value-added Course – Quantitative and Qualitative Methods

Students' Name list

S. No.	Register No.	Name of the Student
1.	2022A62	Thirisana R
2.	2022A37	Nivetha A
3.	2022A54	Santhia S
4.	2022A53	Sanjutha M
5.	2022A23	Kalkitha N
6.	2022A21	Joe Trisha A
7.	2022A56	Shabeena Roshan M

8.	2022A15	Harshini K.R
9.	2022A39	Partha Sarathi Priyal S
10.	2022A69	Divya J
11.	2022A29	Loshini K
12.	2022A35	Nasrin Banu M
13.	2022A42	Poorna B
14.	2022A38	Panimalar R
15.	2022A36	Nithya M
16.	2022A67	Yogeswari k
17.	2022L19	Flaciya K
18.	2022534	Tamilselvi T
19.	2022A45	Remi A
20.	2022A36	Nagalakshmi R
21.	2022L49	Riya M
22.	2022N07	Bargana S
23.	2022N02	Akshaya N
24.	2022N24	Renuka BE
25.	2022M51	Vinotha

26.		
	2021E65	Banupriya
27.		
	2021E62	Panchavarum
28.		
	2022M23	Ilakkiya R
29.		
	2022M48	Swetha K
30.		
	2022M51	Vaishnavi N
31.		
	2022M04	Amirtha S
32.		
	2022M28	Kalpanashri V
33.		
	2022M39	Rubika P
34.		
	2022M32	Martina Celin A
35.		
	2022M09	Bhuvana Lakshmi A

Signature of the HOD with Seal

Signature of the HOD with Seal

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



This is to certify that Ms. THIRISANA · R (I B. COM)	
has successfully completed the <u>VALUE ADDED CERTIFICATE</u> QUANTITATIVE AND QUALITATIVE METHODS FOR Course on competitive examinations offered by	
THE DEPARTMENT OF MATHEMATICS during the academic year	4
2023 - 2024 and has been awarded Distinction / First / Second class.	1
Co-ordinator Head of the Department Principal	



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

This is to certify the	at Ms. <u>KAL</u> K	ITHA·N (II	B.COM)	
has successfully co		VALUE ADD		<u> </u>
Course on				offered by
THE DEPARTMENT	T OF MA	THEMATICS	during the ac	ademic year
2023 - 2024 and	has been av	warded Distin	e tion / First / S	econd class.
		P	C	O. P. S. Suham Ham

Head of the Department



This is to certify that Ms.	NIVETHA.A (I B.CO	M)
has successfully complet	ted the VALUE ADDED	CERTIFICATE
	COMPETITIVE EXAMINAT	
THE DEPARTMENT OF		
5 s.	Head of the Department	Se. G. Celi Saling Many



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

This is to certify that Ms. NASRIN BANU M (II B.COM)
has successfully completed the VALUE ADDED CERTIFICATE
QUANTITATIVE AND QUALITATIVE METHODS FOR
Course on competitive examinations offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
2023 - 2024 and has been awarded Distinction / First / Second class.

Co-ordinator

Head of the Department

S. G. Cili Saling Man, Principal



This is to certify that Ms. SHABEEHA ROSHAN · M (II B · COM)
as successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITATIVE METHODS FOR
Course on COMPETITIVE EXAMINATIONS offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
2023 - 2024 and has been awarded Distinction / First / Second class.
Co-ordinator Head of the Department Principal
Co-ordinator Head of the Department Principal



This is to certify that Ms.	PARTHASARATHI PRI	YAI · S (II B. COM)
has successfully complete	d the VALUE ADDE	D CERTIFICATE ODS FOR
Course onCOMP		
THE DEPARTMENT OF		•
2023 - 2024 and has be	en awarded Distinctic	on / First / Second class.
Co-ordinator H	ead of the Department	S. g. lee Lien Hong



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

This is to certify that Ms. PANIMALAR · R (IIB · COM)		
has successfully QUAN	COMPLETED THE CERTIFICATIVE AND QUALITATIVE METHODS FO	FICATER
Course on	COMPETITIVE EXAMINATIONS	offered by
THE DEPARTM	IENT OF MATHEMATICS during the	e academic year
2023 - 2024 and has been awarded Distinction / First / Second class.		

Co-ordinator

Head of the Department

S. g. Celi Saling Hany Principal



This is to certify that Ms. LOSHINI · K (I B.com)	
has successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITATIVE METHODS FOR	
Course on COMPETITIVE EXAMINATIONS offered by	
THE DEPARTMENT OF MATHEMATICS during the academic year	4
2023 - 2024 and has been awarded Distinction / First / Second class.	
Co-ordinator Head of the Department Principal	
Co-ordinator Head of the Department Principal	



This is to certify that Ms. DIVYA • J (I B.COM)
has successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITATIVE METHODS FOR
Course on competitive examinantions offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
2023 - 2024 and has been awarded Distinction / First / Second class.
Co-ordinator Head of the Department Singular Sulpy Many Principal



his is to certify that Ms. REMI · A (IL B·COM)	
as successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITATIVE METHODS FOR	
course on COMPETITIVE EXAMINATIONS offered by	
HE DEPARTMENT OF MATHEMATICS during the academic year	
2023 - 2024 and has been awarded Distinction / First / Second class.	4
Co-ordinator Head of the Department Principal	7
Co-ordinator Head of the Department Principal	



This is to certify that Ms. YOGESHWARI · K (II B.COM)
has successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITATIVE METHODS FOR
Course on COMPETITIVE EXAMINATIONS offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
2023 - 2024 and has been awarded Distinction / First / Second class.
Co-ordinator Head of the Department Principal



his is to certify that Ms. POORNA · B (II B·com)	
as successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITATIVE METHODS FOR	
Course on OMPETITIVE EXAMINATIONS offered by	
THE DEPARTMENT OF MATHEMATICS during the academic year	_
2023 - 2024 and has been awarded Distinction / First / Second class.	Í
Co-ordinator Head of the Department Principal	(
Co-ordinator Head of the Department Principal	



This is to certify that Ms. JOE THRISHA · A (II B.COM)
has successfully completed the <u>VALUE ADDED CERTIFICATE</u> QUANTITATIVE AND QUALITATIVE METHODS FOR Competitive examinations offered by
THE DEPARTMENT OF MATHEMATICS during the academic year 2023 - 2024 and has been awarded Distinction / First / Second class.
Co-ordinator J.P. S. g. Co-ordinator Head of the Department Principal



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

his is to certify that Ms. <u>SANJUDHA · M (II B. COM)</u>
as successfully completed the VALUE ADDED CERTIFICATE
QUANTITATIVE AND QUALITATIVE METHODS FOR
ourse on competitive_examinations offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
and acceptance ,
2023 - 2024 and has been awarded Distinction / First / Second class.
and has been awarded bistinotion / 1 list / bedond class.

Co-ordinator

Head of the Department



This is to certify that Ms. SANTHIA S (I B.COM)	
has successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITITATIVE METHODS FOR Course on COMPETITIVE EXAMINATIONS offered by	
THE DEPARTMENT OF MATHEMATICS during the academic year	
2023 - 2021 and has been awarded Distinction / First / Second class	
Co-ordinator Head of the Department Principal	Menny



This is to certify that Ms. HARSHINI . K · R (I	[B.COM)
has successfully completed the VALUE ADDED	CERTIFICATE
Course onCOMPETITIVE EXAMINATION	
THE DEPARTMENT OF MATHEMATICS	during the academic year
2023 - 2024 and has been awarded Distinct	tion / First / Second class.
Co-ordinator Head of the Department	Si-g-lee 2 - 12 - 12 - 12 - 12 - 12 - 12 - 12
Co-ordinator Head of the Department	ent Principal



This is to certify that Ms. NITHYA · M (II B.COM)	
has successfully completed the VALUE ADDED CERTIFIC	ATE S FOR
Course onCOMPETITIVE EXAMINATIONS	offered by
THE DEPARTMENT OF MATHEMATICS durin	g the academic year
2023 - 2024 and has been awarded Distinction /	First / Second class.
J.P.	S. g. C. Diagram
Co-ordinator Head of the Department	Principal



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

This is to certify that Ms. TAMILSELVI .T (II B.A. SOCIOLOGY)		
has successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITATIVE METHODS FOR		
Course on offered by		
THE DEPARTMENT OF MATHEMATICS during the academic year		
2023 - 2024 and has been awarded Distinction / First / Second class.		

Co-ordinator

Head of the Department

Principal

Se. G. Celin Saling Hang



Co-ordinator

FATIMA COLLEGE (AUTONOMOUS)

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

his is to certify that Ms. PANJAVARNAM · D (III BA · ECONOMICS)
as successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITATIVE METHODS FOR
Course on offered by
THE DEPARTMENT OF MATHEMATICS during the academic yea
2023 −2024 and has been awarded Distinction / First / Second class
Q P

Head of the Department



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This is to certify that Ms	RIYA · M (I B.A. EN	яцен)
has successfully complete	d the <u>VALUE ADDED</u> AND QUALITATIVE METHO	
Course onco	MPETITATIVE EXAMINATI	ons offered by
THE DEPARTMENT OF M	ATHEMATICS du	ring the academic year
2023 - 2024 and has be	en awarded Distinctio	n / First / Second class.
Co-ordinator H	ead of the Department	Se. G. Celin Salaya Many



This is to certify that	Ms. FLACIYA · K (I B.A	· ENGLISH)
	npleted the VALUE ADDET	
	COMPETITIVE EXAMINATION	
THE DEPARTMENT	OF MATHEMATICS	during the academic year
2023 - 2024 and l	has been awarded Distinc	tion / First / Second class.
Sur s Co-ordinator	Head of the Departme	Se g Celi Salay Hang



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is is to certify that Ms. RENUKHA · B · E (III B · SC · HOME SCIENCE)
s successfully completed the VALUE ADDED CERTIFICATE
QUANTITATIVE AND QUALITATIVE METHODS FOR
urse on COMPETITIVE EXAMINATIONS offered by
E DEPARTMENT OF MATHEMATICS during the academic year
223 - 2024 and has been awarded Distinction / First / Second class.

Co-ordinator

Head of the Department

S. G. Celi Sahay Hang Principal



This is to certify that	Ms. BARGIANA . S (III B.SC. H	HOME SCIENCE)
QUANTITA	IPLET THE NOTE OF THE PROPERTY	FOR
THE DEPARTMENT	OF MATHEMATICS during	g the academic year
2023 - 2024 and h	as been awarded Distinction /	First / Second class.
Co-ordinator	Head of the Department	Principal



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This is to certify that Ms. AKSHAYA · N (III B · SC · HOME SCIENCE)
has successfully completed the VALUE ADDED CERTIFICATE QUANTITATIVE AND QUALITATIVE METHODS FOR
Course on COMPETITIVE_EXAMINATIONS offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
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This is to certify that Ms. ILAKKIYA R (I B.SC. MATHEMATICS)
has successfully completed the VALUE ADDED CERTIFICATE
QUANTITATIVE AND QUALITATIVE METHODS FOR
Course on offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
2023 - 2024 and has been awarded Distinction / First / Second class.
De la la la ma

Head of the Department



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This is to certify that Ms. NAGALAKSHMI R (II B-Sc. MATHEMATICS)

has successfully completed the VALUE ADDED CERTIFICATE

QUANTITATIVE AND QUALITATIVE METHODS FOR

Course on ______ COMPETITIVE EXAMINATIONS _____ offered by

THE DEPARTMENT OF MATHEMATICS _____ during the academic year

2023 - 2024 ___ and has been awarded Distinction / First / Second class.

Co-ordinator

Head of the Department



This is to certify that Ms	BHUVANA LAKSHMI (II B.SC	C. MATHEMATICS)	
	eted the VALUE ADDED CERT AND QUALITATIVE METHODS FOR MPETITIVE EXAMINATIONS	offered by	
	MATHEMATICS during		
2023 - 2024 and has been awarded Distinction / First / Second class.			
Co-ordinator	Head of the Department	S. g. Celi Sahay Many Principal	



Co-ordinator

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This is to certify that Ms. VAISHNAVI · N (I B · SC · MATHEMATICS)
has successfully completed the VALUE ADDED CERTIFICATE
QUANTITATIVE AND QUALITITATIVE METHODS FOR Course on COMPETITIVE EXAMINATIONS offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
2023 - 2024 and has been awarded Distinction / First / Second class.
De X

Head of the Department



FATIMA COLLEGE(AUTONOMOUS)

This is to certify that M	s. SWETHA · K	(II B.SC MA	THEMATICS)
	eted the VALUE /E AND QUALITATIVE COMPETITIVE EX	E METHODS FOR	IFICATE , offered by
THE DEPARTMENT			e academic year
and has	s been awarded Di	stinctio n / Firs	
Surs. Co-ordinator	Head of the Dep	artment	S. g. Celi Saling Man. Principal



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This is to certify that Ms. <u>AMIRTHA · S</u> (II B·SC·MATHEMATICS)
nas successfully completed the <u>VALUE ADDED CERTIFICATE</u> QUANTITATIVE AND QUALITATIVE METHODS FOR
Course on competitive_examinations offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
<u> 2023 – 202</u> and has been awarded Distinction / Firs t / Second class.

Co-ordinator

Head of the Department

S. g. Celi Salay Many Principal



This is to certify that Ms. RUBHIKA • P
has successfully completed the VALUE ADDED COURSE QUANTITATIVE AND QUALITATIVE METHODS FOR
Course on offered by
THE DEPARTMENT OF MATHEMATICS during the academic year 2023 - 2024 and has been awarded Distinction / First / Second class.
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This is to certify that Ms. MARTINA CELIN • A (ILB. SC. MATHEMATICS)				
has successfully complete				
QUANTITATIVE	AND QUALITATIVE MET	THOOS FOR		
Course onCom	IPETITIVE EXAMINATION	S	offered by	
THE DEPARTMENT OF	MATHEMATICS	during the aca	ademic year	
2023 - 2024 and has b	oeen awarded Distind	etion / First / S	econd class.	

Co-ordinator

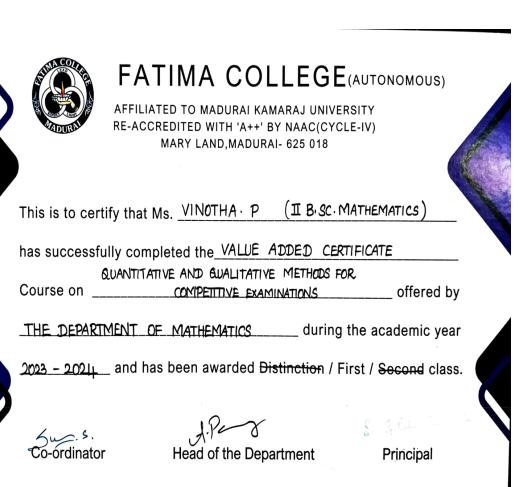
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This is to certify that Ms. THIRISANA · R (II B · COM)
has successfully completed the VALUE ADDED CERTIFICATE
QUANTITATIVE AND QUALITATIVE METHODS FOR COMPETITIVE EXAMINATIONS offered by
THE DEPARTMENT OF MATHEMATICS during the academic year
2023 - 2024 and has been awarded Distinction / First / Second class.

Co-ordinator

Head of the Department