

NON MAJOR –I: FUNCTIONAL MATHEMATICS

Semester	Subject Code	Category	Lecture		Theory		Practical	Credits
III	21NMA3A	Non Major –I	Hrs/week	Hrs/Sem	Hrs/week	Hrs/Sem	-	2
			2	30	2	30		

COURSE OBJECTIVES:

The students will be able to

- Apply and establish Mathematical concepts in solving the given aptitude problems.
- Improve problem solving skills using basic Mathematical concepts.

COURSE OUTCOMES:

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

CO Number	CO Statement	Knowledge Level (K1-K4)
CO1	Develop the knowledge about problems on numbers and problems on ages	K1
CO2	Understand and apply the concepts of percentage	K2
CO3	Evaluate the problems on Profit and Loss	K3
CO4	Apply the concepts of Time and Work	K3
CO5	Acquire the knowledge on Probability and True Discount	K3

Knowledge Level: K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze.

MAPPING WITH PROGRAMME OUTCOMES:

Cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	M	S	S	S	S
CO2	S	M	M	S	S	S
CO3	S	S	S	S	S	M
CO4	S	M	S	S	M	S
CO5	S	M	M	S	M	M

S- Strong: M- Medium: L- Low

Unit – I: **6 Hours**

Problems on Numbers – Problems on Ages (Chapter -7, 8)

Unit – II: **6 Hours**

Percentage (Chapter -10)

Unit – III: **6 Hours**

Profit and Loss (Chapter - 11)

Unit – IV: **6 Hours**

Time and Work (Chapter - 15)

Unit – V: **6 Hours**

Probability- True Discount (Chapter – 31,32)

TEXT BOOK

S.No	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1.	R.S. Agarwal	Quantitative Aptitude (for Competitive Examinations), Revised Edition,	S. Chand and Company Ltd., Ram Nagar, New Delhi	Reprint 2012.

REFERENCE BOOKS

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1.	AbhijitGuha	Quantitative Aptitude for all Competitive Examinations	McGraw Hill Education, sixth edition	2016
2.	R.V.Praveen	Quantitative Aptitude and Reasoning	PHI learning private limited,Third edition ,Delhi	2016
3.	Dr.N.K.Singh	Quantitative Aptitude Test	UpkarPrakshan	2009

WEB RESOURCES

1. <https://www.careerbless.com/aptitude/qa/home.php>
2. <https://www.toppr.com/guides/quantitative-aptitude/>

TEACHING METHODOLOGY

1. Class room Teaching
2. Assignments
3. Seminars
4. Discussions
5. PPT Presentations

SYLLABUS DESIGNER

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