Program Name: Value Added Course

Course Code: MTVAC01

Name of the Course: Mathematics for Competitive Examinations

(Effective from the Academic Year 2020 -2021)

ı			Marks			1 7		
Subject / Paper Code	Title of the Paper	Instruction Hrs/ Week	Examination	Internal Assessment	Total Marks	Credits	Examination duration (Hrs)	
Value Added Course								
MTVAC01	Mathematics for Competitive Examinations	2	40	10	50	2	2	

Minimum Eligibility: Any PG degree pursuing / any Batcheler degree holder.

Course objectives:

- ➤ To provide awareness to the students about the various types of jobs offered both in the Central and State Government.
- To develop competitive skills through various types of objective tests.
- To train them by conducting aptitude test based on verbal and quantitative skills.
- To enhance their ability to face competitive examinations.

Course outcomes:

After successful completion of this course, student will be able to:

- ➤ The students are motivated for prospective career in government and corporate sector.
- ➤ The students are able to attempt any competitive exam as they are provided with the syllabus of the exam, review and weight age given to each subject.
- They have look into previous year's questions and create a study plan.
- They develop the habit of taking notes so as to revise easily.
- ➤ The students are trained to think positively and are encouraged to make use of mock test.

UNIT	SYLLABUS	TEACHING
		HOURS
UNIT - I	Numbers:	10 hours
	Number System, Sequence & Series, LCM & HCF, Decimal & Fraction, Simplification	
UNIT - II	Arithmetic:	15 hours
	Averages, Ratio & Proportion, Percentage, Profit & Loss,	
	Simple Interest & Compound Interest, Time, Speed &	
	Distance, Time & Work	
	Algebra:	
	Quadratic Equations, Inequalities, Logarithm	
UNIT -	Geometry & Mensuration: Geometry, Mensuration	5 hours
ш	Modern Maths: Permutation & Combination, Probability	N.

References:

- 1. R. S. Aggarwal, Quantitative Aptitude for Competitive Examinations, S Chand Publishing; Revised edition (21 February 2017)
- 2. Rajesh Verma, Fast Track Objective Arithmetic, Arihant Publications; Fourth edition (2018)
- 3. Sarvesh K Verma, Quantitative Aptitude Quantum CAT 2019 Arihant Publications; Tenth edition (10 June 2019)
- 4. Rajesh Verma, Fast Track Objective Arithmetic, Arihant Publications; Fourth edition (2018)
- 5. KJS Khurana, Rajeev Markanday, Maths 30 Days Wonder, S Chand Publishing; third edition (01, Jan-2020)

<u>Internal Assesment Test (IAT):</u> Test Will carry a maximum of 20% Weightage (10 marks) of total marks of a course, under this component, two tests will be conducted in a semester for 20 marks each and scale down to 4 marks each.

<u>Semester End Examination – Question Paper Pattern:</u>

Value Added Course Examination 2020-21 Program Name: Value Added Course

Course Code: MTVAC01

Name of the Course: Mathematics for Competitive Examinations

Time: 2 Hours Max. Marks: 40

Note: Part-A is compulsory, three full questions from Part-B and two full questions from Part-C

