FOUR YEAR UNDER GRADUATE PROGRAM(2024-28)

DEPARTMENT OF MATHEMATICS COURSE CURRICULUM

Part A: Introduction						
Program: Bachelor in Science (Certificate/Diploma/Degree/Honors)		Class: B.Sc. I/III/V Sem Session:2024-2025				
1	Course Code	MAVAC-1				
2	Course Title	Basic Mathematics and Logic				
3	Course Type	Value Addition Course				
4	Course Learning Outcome (CLO)	 This Course will enable the students- To orient them towards life-long learning, to develop power of concentration and to overcome fear of mathematics from their mind. To cultivate scientific temper through systematic critical and lateral thinking. To enhance their logical, analytical and reasoning skills useful for competitive exams. To make understand the relevance and need of quantitative methods for making business decision. 	·,			
5	Credit Value	2 Credits	- 1			
6	Total Marks	Max. Marks: 50 Min Passing Marks: 20				

PART -B: Content of the Course Total No. of Teaching-learning Periods (01 Hr. per period) - 30 Periods (30 Hours)				
	Basic Mathematics			
I	Brief history of Vedic Mathematics (In Indian Knowledge Tradition), Sanskrit terminology involved in 16 Sutras and 13 Sub-Sutras and their meaning, Addition, Subtraction, Multiplication & Division using different techniques of Vedic Mathematics, Squaring numbers, Square roots of perfect squares, Cube roots of perfect cubes , Methods of quick verification of answers through Digit Sum Method	8		
П	Problem based on Numbers, Decimal Fractions, Average, Simple Interest, Percentage, Clocks	8		
Ш	Problems on Profit & Loss, Discount, Ages, Speed, Time & Distance, Train, Ratio & Proportion, Mixture	8		

54

\mathbf{IV}	Logical Ability:	
	Problems on Series Completion, Coding-Decoding, Inserting the Missing Character, Problems on Mirror Image & Water Image	6
	Problems on Blood relations, Direction Sense Tests, Cubes & Dice, Logical Deductions based on Universal, Particular, Affermative & Negative Premises.	

	Part C - Learning Resource		
	Text Books, Reference Books, Other Reso	ources	
Text Books Recomm	nended-		
Limited.,1 3. Dr. R.S New Delh		ıblishing Company	
Reference Books Re	commended-		
Competiti 6.Vedic M	Kumar Singh, Tricky Mathematics, Success Mant Prasad Singh &Rakesh Kumar, Text Book of Quive Examinations) athematics Made Easy Published by Dhaval Bhatis essment and Evaluation	ckest Mathematics (For all	
	us Evaluation Methods:		
Maximum Marks: Continuous Internal End Semester Exam	Assessment (CIA): 50 Marks Assessment (CIA): 15 Marks (ESE): 35 Marks		
Continuous Intern Assessment (CIA) (By Course Teacher)	(2). 10 & 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks	
End Semester	Two section – A & B	Iviaiks	
Exam (ESE):			

Name and signature of convener & members of CBOS-

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DRNS Madhu Shrinastar.

Dr. Madhu Shrinastar.

Dr. S. xva Dr. Aradhowa Shown

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55