Course Title : Verbal Skills and Quantitative Analysis - 1

Semester : I

Credit : 2

Duration : 20 hours

Course Outcomes	Description	Cognition	Hours	Evaluation Tools
CO1	**Understand** the grammar rules to solve parts of speech questions.	**L2 -Understand**	**2**	Internal Quiz End Term Practical
CO2	**Apply** the principles of probability combined with permutation and combination to determine event dynamics.	**L3 -Apply**	**3**	Internal Quiz End Term Practical
CO3	**Apply** deduction techniques to solve reading comprehension and vocabulary questions.	**L3 - Apply**	**3**	Internal Quiz End Term Practical
CO4	**Apply** different tricks and techniques to solve mathematical problems.	**L3 - Apply**	**9**	Internal Test End Term Practical
CO5	**Analyze** the problems to decipher codes, patterns, directions, and relationships.	**L4 - Analyse**	**3**	Internal Test End Term Practical

Mapping with CO-PO

1 – Low, 2 – Medium, 3 – High, 0 – Low

CO Code	PO1	PO2	PO3	PO4	PO5
CO1	3	1	-	-	-
CO2	3	3	-	1	-
CO3	2	3	-	1	-
CO4	2	3	1	1	2
CO5	2	3	1	1	2
CO	**2.4**	**2.6**	**1.0**	**1.0**	**2.0**

Session Plan

Session	Hours	Topics	COs	Cognition	Evaluation Tool
		Verbal Skills			
1-2	2.5	Grammer Basics	CO1: Understand the grammar rules to solve parts of speech questions.	L1: Understand	Internal Quiz End Term Practical
3	1.25	Reading Comprehension	CO3: Apply deduction techniques to solve reading comprehension and vocabulary questions.	L3: Apply	Internal Quiz End Term Practical
4	1.25	Vocabulary (Deductive approach)	CO3: Apply deduction techniques to solve reading comprehension and vocabulary questions.	L3: Apply	Internal Quiz End Term Practical
		Quantitative Aptitude			
5-6	2.5	**Numbers**: Basics, Surds, and Indices, Factors and Multiples, Divisibility, LCM, HCM, BODMAS, PEMDAS, Cyclicity, Unit Digit, Remainders, recurring decimals and fractions	CO4: Apply different tricks and techniques to solve mathematical problems.	L3: Apply	Internal Test End Term Practical
7-8	2.5	**Equations**: Linear and Quadratic equations basics, Problems based on ages, averages, ratios, and proportions	CO4: Apply different tricks and techniques to solve mathematical problems.	L3: Apply	Internal Test End Term Practical
9	1.25	**Percentages**: Reciprocals, conversion of percentage to fraction and vice versa, change in percentage, By and to concept	CO4: Apply different tricks and techniques to solve mathematical problems.	L3: Apply	Internal Test End Term Practical
10-11	2.5	**Profit and Loss**: Cost Price, Selling Price, Profit, Loss, Marked Price, Discounts,	CO4: Apply different tricks and techniques to solve mathematical	L3: Apply	Internal Test End Term Practical

		Successive discounts	problems.		
12	1.25	**Simple Interest, Compound Interest**: when interest is compounded annually, semi-annually, quarterly and monthly, amount, installments	CO4: Apply different tricks and techniques to solve mathematical problems.	L3: Apply	Internal Test End Term Practical
13	1.25	**Permutation and Combination**: Factorial, arrangement, and selections with repetition and without repetition	CO2: Apply the principles of probability combined with permutation and combination to determine event dynamics.	L2: Understand	Internal Test End Term Practical
14	1.25	**Probability:** Coins, Dice, and Cards, Basic Problems, Conditional Probability	CO2: Apply the principles of probability combined with permutation and combination to determine event dynamics.	L3: Apply	Internal Test End Term Practical
		Logical Reasoning			
15	1.25	**Blood Relations, Direction, Coding-Decoding**: Basic Concepts and tricks	CO5: Analyze the problems to decipher codes, patterns, directions, and relationships.	L4: Analyze	Internal Test End Term Practical
16	1.25	**Number Series, and Analogies**: Basic Concepts and tricks. Internal Assessment	CO5: Analyze the problems to decipher codes, patterns, directions and relationships.	L4: Analyze	Internal Test End Term Practical

Pedagogy	
1. Lecture	
2. Practice exercises	
Evaluation:	
Internal	40%
External	60%
Total	100%

Parameters of Internal Assessment:

1. Class Test
2. Class Participation
3. Attendance

Assessment Mapping

Internal	**20**	**15.0%**	**20.0%**	**20.0%**	**22.5%**	**22.5%**
Attendance	5	20%	20%	20%	20%	20%
Class Participation	5	30%	20%	20%	10%	20%
Quiz	5	20%	40%	40%	-	-
Class Test	5				50%	50%
End Term	**30**	**20 %**	**20%**	**20%**	**20%**	**20%**
Total	**50**	**18%**	**20%**	**20%**	**21%**	**21%**

Reference Book:
R.S. Agarwal - First Edition: 1989
Uma Maheshwari- GACP - First Edition: 2017
For verbal ability, study material would be provided by the respective faculty