Course Code	PCA20AE2T	Course Name	CAREER ADVANCEMENT– II	Course Category	AE	Ability Enhancement Course	L	T	P	C
							3	0	0	3

Pre-requisite Courses	Nil	Co-requisite Courses	Nil	Progressive Courses	Nil
Course Offering Department	Career Guidance and Development	Data Book / Codes/Standards	Nil		

Course Learning Rationale (CLR):	The purpose of learning this course is to:
CLR-1 :	Demonstrate various principles involved in solving mathematical concepts
CLR-2 :	Develop interest and awareness in students regarding profit/ loss, interest calculations and average
CLR-3 :	Critically evaluate basic mathematical concepts related to mixtures and alligations, permutation and combination, time and work
CLR-4 :	Provide students with skills necessary to generate and interpret data and concepts related to time, speed and distance and blood relation.
CLR-5 :	Enable students to understand reasoning skills
CLR-6 :	Create awareness in students regarding the various concepts in quantitative aptitude and reasoning skills and also its importance in various competitive exams

Course Learning Outcomes (CLO):	At the end of this course, learners will be able to:	Learning			Program Learning Outcomes (PLO)														
		Level of Thinking (Bloom)	Expected Proficiency (%)	Expected Attainment (%)	1 Fundamental Knowledge	2 Application of Concepts	3 Link with Related Disciplines	4 Procedural Knowledge	5 Skills in Specialization	6 Ability to Utilize Knowledge	7 Skills in Modeling	8 Analyze, Interpret Data	9 Investigative Skills	10 Problem Solving Skills	11 Communication Skills	12 Analytical Skills	13 ICT Skills	14 Professional Behavior	15 Life Long Learning
CLO-1 :	Understand, analyze and solve questions based on Profit and Loss, Discount, Simple Interest and Compound Interest.	3	80	70	H	H	M	H	L	M	-	H	-	H	-	H	M	-	H
CLO-2 :	Create, solve, interpret and apply basic mathematical models which are applicable in our day to day life	3	80	75	M	H	M	H	-	M	-	H	-	H	-	H	M	-	H
CLO-3 :	Understand the concepts of time and work, Time, Speed Distance Pipes & Cistern and to approach questions in a simpler and innovative method	3	85	70	M	H	M	H	-	M	-	H	-	H	-	H	M	-	H
CLO-4 :	Understand the concept in Clock, Calendar, Data in different forms and interpretations.	3	85	80	M	H	M	H	-	M	-	H	-	H	-	H	M	-	H
CLO-5 :	Ability to solve the problems on logical reasoning	3	85	75	M	H	M	H	-	M	-	H	-	H	-	H	M	-	H
CLO-6 :	Able to face different competitive exams	3	80	70	M	H	M	H	-	M	-	H	H	M	-	H	M	-	H

Duration (hour)		9	9	9	9	9
S-1	SLO-1	Profit and Loss-Introduction	Time and work-Introduction	Problems on Trains	Clocks-Concepts Discussion	Logical Reasoning : Puzzles-Concepts
	SLO-2	Profit and Loss- Basic Problems	Time and work-Men and Work	Problems on Trains	Clocks-Problems	Puzzles-Problems
S-2	SLO-1	Profit and Loss- Problems	Time and Work Problem	Races & Games of Skill	Calendars-Introduction of basic concept	Puzzles-Problems

	SLO-2	Profit and Loss- Tricky Problems	Time and Work Tricky Problem	Races – Problems	Calendars-Problems	Puzzles- Triucky Problems
S-3	SLO-1	Discount – Basics	Time and Work – Tricky Problems	Area – Basiucs	Clock – Tricky Problems	Coding – Decoding-Introduction
	SLO-2	Discount – Problems	Time and Work Advanced Problems	Area – Problems	Calendars – Tricky Problems	Coding – Decoding-Different types
S-4	SLO-1	Simple Interest-Introduction & Formulas	Pipes & Cisterns - Introduction	Volume and Surface Area	Data sufficiency-Introduction and Basics	Coding – Decoding - Problems
	SLO-2	Simple Interest- Problems	Pipes & Cisterns - Problems	Problems on Volume	Data sufficiency-Problems	Coding – Decoding- Tricky Problems
S-5	SLO-1	Simple Interest- Problems	Pipes & Cisterns - Problems	Problems on Surface Area	Data sufficiency-Tricky Problems	Cube - Basics
	SLO-2	Simple Interest- Tricky Problems	Pipes & Cisterns – Tricky Problems	Tricky problems on Area, Volume and Surface Area	Data sufficiency-Advanced Problems	Cube - Problems
S-6	SLO-1	Compound Interest-Introduction & Formulas	Time, Speed and Distance-Introduction	Geometry-Basics	Data Interpretation – Table	Mensuration - Basics
	SLO-2	Compound Interest- Problems	Time, Speed and Distance-Basic problems	Geometry- Formulas	Data Interpretation – Table - Problems	Mensuration - Problems
S-7	SLO-1	Compound Interest- Problems	Time, Speed and Distance-Problems	Geometry-Problems	Data Interpretation – Bar chart	Mensuration - Problems
	SLO-2	Compound Interest-Tricky Problems	Time, Speed and Distance-Tricky problems	Geometry – Tricky Problems	Data Interpretation – Bar chart - Problems	Mensuration – Tricky Problems
S-8	SLO-1	Partnership – Fact and Formula	Time, Speed and Distance- Tricky problems	Mensuration-Basics	Data Interpretation – Pie chart	Seating Arrangements - Linear
	SLO-2	Partnership – Problems	Time, Speed and Distance-Advanced problems	Mensuration –Formulas	Data Interpretation – Pie chart - Problems	Seating Arrangements - Linear – Problems
S-9	SLO-1	Partnership – Problems	Boat and Stream - Basics	Mensuration – Problems	Data Interpretation – Line graph	Seating Arrangements – Circular
	SLO-2	Partnership – Tricky Problems	Boat and Stream - Problems	Mensuration - Tricky Problems	Data Interpretation – Line graph - Problems	Seating Arrangements – Circular – Problems

Learning Resources	1. Abhijit Guha, Quantitative Aptitude for Competitive Examinations, Tata McGraw Hill, 5th Edition 2. Dr. Agarwal.R.S, Quantitative Aptitude for Competitive Examinations, S. Chand and Company Limited, 2018 Edition 3. Archana Ram, PlaceMentor: Tests of Aptitude for Placement Readiness, Oxford University Press, Oxford, 2018	4. Edgar Thrope, Test Of Reasoning for Competitive Examinations, Tata McGraw Hill, 6th Edition 5. Dinesh Khattar, The Pearson Guide to Quantitative Aptitude for competitive examinations, Pearson, 3rd Edition *6. P A Anand, Quantitative Aptitude for competitive examinations, Wiley publications, e book, 2019*

Learning Assessment					
Level	Bloom's Level of Thinking	Continuous Learning Assessment (100% weightage)			
		CLA-1 (20%)	CLA-2 (20%)	CLA-3 (30%)	CLA-4 (30%) ##
		Theory	Theory	Theory	Theory
Level 1	Remember	10%	10%	30%	15%
	Understand				
Level 2	Apply	50%	50%	40%	50%
	Analyze				
Level 3	Evaluate	40%	40%	30%	35%
	Create				
	Total	100 %	100 %	100 %	100 %

CLA-1, CLA-2 and CLA-3 can be from any combination of these: Online Aptitude Tests, Classroom Activities, Case Studies, Poster Presentations, Power-point Presentations, Mini Talks, Group Discussions, Mock interviews, etc.

CLA – 4 can be from any combination of these: Assignments, Seminars, Short Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

Course Designers	
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