Course Code	UCD20S02L	Course Name	QUANTITATIVE APTITU	IDE AND REASONING	Categ		S		S	kill E	nha	ncer	nen	t Co	ours	е			L 0	T 0	P 2	1 1
Pre-re	equisite Courses	Nil	Co-requisite Course	es Nil	Р	rogres	sive Co	ourses	Nil													
Course O	ffering Departme	ent Carrer	Guidance and Development	Data Book / Codes/Standa	rds	156.1						I	Vil									
	earning Rationale	Mario M.	The purpose of learning this course			Learn	ing				Pro	ogran	n Le	earnir	ng O	utco		(PL	5050 7020	40		
CLR-2:			es involved in solving mathematical ess in students regarding profit/ los			1 2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.1 R-3	Critically evaluate and combination,		ematical concepts related to mixtu ork	res and alligations, permutation		(m)	(%)	ge	ts	isciplines			owledge									
CLR-4	Provide students	with skills ne	ecessary to generate and interpret	data and concepts related to tire	ne,	Sloom) cy (%)	T T	ledge	cepts	isci	dge	io	MOI		)ata		kills	kills			ior	

CLR-3:	Critically evaluate basic mathematical concepts related to mixtures and alligations, permutation and combination, time and work	(m	(%	(%)	age	ts	Disciplines			edge		_							
CLR-4:	Provide students with skills necessary to generate and interpret data and concepts related to time, speed and distance and blood relation.	(Bloom)	ency (	nent (	Knowledge	oncepts		owledge	Specialization	Knowledge	D	et Data	S	1000000	Skills		00	avior	ng
CLR-5:	Enable students to understand reasoning skills	Ē.	rofici	ain	조	0	elated	no	iali	Ze	eling	rpr	Skills	igi	6	<u>s</u>	- W	Beh	J.
CLR-6:	Create awareness in students regarding the various concepts in quantitative aptitude and reasoning skills and also its importance in various competitive exams	of Thinking	sted Pro	sted Atta	Fundamental	ation of	vith Rek	dural K	in Spec	to Utilize	in Mod	ze, Interpret	tigative	em Solving	Communication	alytical Skills		nal	ong Lea
	earning Outcomes (CLO): At the end of this course, learners will be able to:	Level	Expec	Expec	Fund	Applic	Link v	Proce	Skills	Ability	Skills	Analy	Invest	Proble	Comn	Analy	ICTS	Profe	LifeL
CLO-1:	Understand, analyze and solve questions based on numbers, logarithms.	3	80	70	Н	Н	M	Н	L	M	-	Н	-	Н	-	Н	М	-	Н
CLO-2:	Create, solve, interpret and apply basic mathematical models which are applicable in our day to day life	3	80	75	М	Н	М	Н	-	М	-	Н	-	Н	-	Н	М	-	Н
CLO-3:	Understand the concepts of mixtures and alligations, permutation and combinations, probability, time and work and to approach questions in a simpler and innovative method	3	85	70	М	Н	М	Н		М		Н	-	Н	-	Н	М	151	Н
CLO-4:	Understand the concept in time ,speed and distance	3	85	80	М	Н	М	Н	-	M	-	Н		Н	-	Н	М	-	Н
CLO-5:	Ability to solve the problems on reasoning	3	85	75	М	Н	М	Н	-	М	15.	Н	-	Н	-	Н	М	-	Н
CLO-6:	Able to face different competitive exams	3	80	70	М	Н	М	Н	-	М	70	Н	Н	М	-	Н	М	-	Н

1000000	ration nour)	6	6	6	6	6
S-1	SLO-1	Classification of numbers	Profit and Loss-Introduction	Mixtures and Alligations- Introduction	Time, Speed and Distance- Problems on Trains	Direction Sense-Introduction
5-1	SLO-2	Test of divisibility	Profit and Loss- Basic Problems	HUHVIHICAE AND AHIDASHANE PROBLEME	Time, Speed and Distance- Boats&Streams	Direction Sense-Problems
S-2	SLO-1	Unit digit	Statistics-Introduction	Permutation –Introduction& Basics	Data Interpretation – Bar chart	Number Series
	SLO-2	Tailed zeroes	Statistics-Mean, Median, Mode	Combination-Introduction& Basics	Data Interpretation – Pie chart	Word Series
S-3	SLO-1	HCF, LCM	Simple Interest- Introduction, Formulas & Problems	Probability-Introduction &Basics	Data Interpretation – Table	Seating Arrangements - Linear
3-3	SLO-2	HCF, LCM - Solving problems	Compound Interest- Introduction, Formulas & Problems	Probability-Problems	Data Interpretation – Line graph	Seating Arrangements – Circular

C 4	SLO-1	Logarithm –Introduction of log rules	Word problems on Line equations-Introduction	Time and work-Introduction	Data sufficiency-Introduction and Basics	Puzzles-Concepts
S-4	SLO-2	Logarithm –Applications of log rules	Word problems on Line equations- Basic problems	Time and work-Men and Work	Data sufficiency-Problems	Puzzles-Problems
S-5		Percentage -Introduction	Averages-Introduction & Basics	Time and work-Pipes &Cisterns(Introduction)	Blood relation-Introduction	Clocks-Concepts Discussion
	SLO-2	Percentage- Basic problems	Averages-Tricky Problems	Time and work-Pipes &Cisterns(Problems)	Blood relation-Problems	Clocks-Problems
0.6	SLO-1	Percentage-Increasing & Decreasing functions	Ratio and Proportions- Introduction	Time, Speed and Distance- Introduction	Coding – Decoding-Introduction	Calendars-Introduction of basic concept
S-6	SLO-2	Percentage- Miscellaneous problems			Coding – Decoding-Different types	Calendars-Problems

Learning Resources  2. Dr. Agarwal R.S. Quantitative Aptitude for Competitive Examinations, S. Chandle and Company Limited, 2018 Edition 3. Archana Ram, PlaceMentor: Tests of Aptitude for Placement Readiness, 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
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	Plaam'a	Continuous Learning Assessment (100% weightage)									
Level	Bloom's Level of Thinking	CLA - 1 (20%)	CLA - 2 (20%)	CLA - 3 (30%)	CLA - 4 (30%)#						
	Level of Hilliking	Practice	Practice	Practice	Practice						
Loyal 1	Remember	30%	30%	30%	30%						
Level 1	Understand			50%							
Level 2	Apply	30%	30%	30%	30%						
Level Z	Analyze	30 /6	30 %	30%	30%						
Lovel 2	Evaluate	400/	400/	400/	400/						
Level 3	Create	40%	40%	40%	40%						
	Total	100 %	100 %	100 %	100 %						

# 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							
Experts from Industry	Internal Experts						
	1. Dr P Madhusoodhanan, HoD, CDC, E&T, SRMIST						
1. Ajay Zener, Director, Career Launcher	2. Dr M Snehalatha, Assistant. Professor, CDC, E&T, SRMIST						