Course				Course			L	Т	Р	С
Code	UCD20S02L	Course Name	Quantitative Aptitude and Reasoning	Category	3	Skill Enhancement Course	0	0	2	1

Pre-requisite Courses	Nil	Co-requisite Courses	Nil	Progressive Courses	Nil
Course Offering	Caroor Do	avalanment Centra	Data Book /	Nil	
Department	cureer De	evelopment Centre	Codes/Standards	IVII	

Learning

inking (Bloom)

Course (CLR):	Learning Rationale	The purpose of learning this course is to:
CLR-1:	Demonstrate variou	is principles inv <mark>olved in</mark> solving mathematical concepts
CLR-2 :	Develop interest an calculations and av	d awareness in <mark>studen</mark> ts regarding profit/loss, interest erage
CLR-3:	Critically evaluate be permutation and co	asic mathema <mark>tical co</mark> ncepts related to mixtures and alligations, ombination, time and work
CLR-4 :	Provide students wi related to time, spe	th skills necess <mark>ary to</mark> generate and interpret data and concepts ed and distanc <mark>e and b</mark> lood relation.
	52 C-12-20 C-12-20	understand rea <mark>soning</mark> skills
CLR-6 :	Create awareness in	n students regar <mark>ding th</mark> e various concepts in quantitative aptitude and also its imp <mark>ortance</mark> in various competitive exams

CLR-4:		ed and distanc <mark>e and b</mark> lood relation.	Bloor	cy (%	ent (9	vledg	cept	Discip	dge	ation	wou	5	Data		Skills	Skills			avior	
CLR-5:	Enable students to	understand rea <mark>soning</mark> skills) g	ien	me	Knowl	Co	ted [owle	zat	\sim		pret	Skills					ehav	ing
IIIK-D'		n students regar <mark>ding th</mark> e various concepts in quantitative aptitude and also its imp <mark>ortance</mark> in various competitive exams	Thinkin	0	ed Attain	amental Kı	tion of	h Relate	ural Kno	Specializa	to Utilize	Modeling	, Interp	gative Sk	n Solving	ınication	cal Skills	S	ional Be	gLearn
	Learning nes (CLO):	At the end of this course, learners will be able to:	Level of	Expecte	Expecte	Fundan	Applica	Link wit	Proced	Skills in	Ability t	Skills in	Analyze	Investig	Probler	Commun	Analytic	ICT Skill	Profess	Life Lon
CLO-1 :	Understand, analyz	e and solve questions <mark>based o</mark> n numbers, logarithms.	3	80	70	Н	Н	М	Н	L	М	101	Н	-	Н	-	Н	М	=	Н
	Create, solve, interpour day to day life	oret and apply basic math <mark>ematical</mark> models which are applicable in	3	80	75	М	Н	М	Н	•	М	-	Н	-	Н	-	Н	М	-	Н
CLO-3	L	cepts of mixtures and alligations, permutation and combinations, and work and to approach questions in a simpler and innovative	3	85	70	М	Н	М	Н	•	M	9	Н	-	Н	-	Н	М	-	Н
CLO-4	Understand the con	cept in time ,speed and distance	3	85	80	М	Н	М	Н	-	М	5	Н	-	Н	-	Н	М	-	Н
CLO-5	Ability to solve the	problems on reasoning	3	85	75	М	Н	М	Н	-	М	-	Н	-	Н	-	Н	М	-	Н
CLO-6	Able to face differe	nt competitive exams	3	80	70	М	Н	М	Н	-	М	8	Н	-	М	-	Н	М	-	Н

Program Learning Outcomes (PLO)

6

Jtilize Knowledge

elated Disciplines

tal Knowledge

ttainment (%)

roficiency (%)

10 11 12 13 14 15

	ration lour)	6	6	6	6	6
C 1	SLO-1	Classification of numbers	Profit and Loss-Introduction	Mixtures and Alligations- Introduction	Time, Speed and Distance- Problems on Trains	Direction Sense-Introduction
S-1	SLO-2	Test of divisibility	Profit and Loss- Basic Problems	Mixtures and Alligations- Problems	Time, Speed and Distance- Boats & Streams	Direction Sense-Problems
C 3	SLO-1	Unit digit	Statistics-Introduction	Permutation –Introduction& Basics	Data Interpretation – Bar chart	Number Series
S-2	SLO-2	Tailed zeroes	Statistics-Mean, Median, Mode	Combination-Introduction& Basics	Data Interpretation – Pie chart	Word Series
6.2	SLO-1	HCF, LCM	Simple Interest- Introduction, Formulas & Problems	Probability-Introduction &Basics	Data Interpretation – Table	Seating Arrangements - Linear
S-3	25. 25.5	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	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
C E	SLO-1	Percentage -Introduction	Averages-Introduction & Basics	Time and work-Pipes &Cisterns(Introduction)	Blood relation-Introduction	Clocks-Concepts Discussion
S-5	SLO-2	Percentage- Basic problems	Averages-Tricky Problems	Time and work-Pipes &Cisterns(Problems)	Blood relation-Problems	Clocks-Problems
	310-1	Decreasing functions	Ratio and Proportions- Introduction	Time, Speed and Distance- Introduction	Coding – Decoding- Introduction	Calendars-Introduction of basic concept
S-6	SIO-2		Ratio and Proportions-Basics & problems	Time, Speed and Distance- Basic problems	Coding – Decoding-Different types	Calendars-Problems

Learning Resources	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, 6 th Edition 5. Dinesh Khattar, The Pearson Guide to Quantitative Aptitude for competitive examinations, Pearson, 3 rd Edition 6. P A Anand, Quantitative Aptitude for competitive examinations, Wiley publications, e book, 2019
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Learning Assessment			Continuous Learning Ass	sessment (100% weightage)
Level	Bloom's Level of Thinking	CLA-1 (20%)	CLA-2 (20%)	CLA-3 (30%) #	CLA-4 (30%) ##
		Practice	Practice	Practice	Practice
Lavel 1	Remember	100/	100/	200/	150/
Level 1	Understand	10%	10%	30%	15%
	Apply	500/	500/	400/	500/
Level 2	Analyze	50%	50%	40%	50%
l 1 2	Evaluate	400/	4000	2004	250/
Level 3	Create	40%	40%	30%	35%
	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.,

Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Aigu Zonar Director Career Launcher		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