Cour		UCA20S03L	Course Name	LUA PROGRAMMING		Course atego		S		Skill Enhancement Course L T P 0 0 2				10040	C 1								
F	re-real	uisite Courses	Nil	Co-requisite Courses Nil			Pro	ogres	sive Co	urse	s	Nil											
		ng Department			ok / Codes/Standards	Nil		ogroo	0110 01	,0100		1.4											
			w .		117-117	T.			les L														
Course (CLR):		ing Rationale	The purpose of le	earning this course is to:		L	earn	ing				P	rogra	am Le	earn	ing C	Outco	mes	(PL	0)			
		n the basics of	working with Lua			1	2	3		1 2	3	4	5	6	7	8	9	10	11	12	13	14	15
			ulation using Lua		AND THE RESERVE	(Bloom)	8	(%)		0	die.				Alleria S		-	ce		nt			
			decision control and l		Marie Control	l light	20	nt (	and the second	5 0	, b	ning	S		guir	ing	rnin	eten	ng	eme		S	ing
CLR-4			ed programming cond	cept in Lua	4 4 4	0	iei	Attainment		Thinking	olvir	asol	Skills	S. Ye	Reasoning	Thinking	Leal	mpe	soni	gage	<u>II</u>	Skills	Leaming
			concept of arrays	Allerand Classes	THE PARTY NAMED IN	iş	Proficiency (%)	Itair			Problem Solving	Re		Feam Work	Re	le T	ted	္မ	Rea	En	Skills	ship	g Le
CLR-6	:  Unde	erstand standa	rd LUA libraries for m	lath and file I/O	Charles Ta	of Thinking		d A		Critical	ple	tica	Research	Fear	tific	ectiv	irec	tura	Ethical Reasoning	unity	ICT	Leadership	Lon
Course	o Loorn	ina Outoomoo						Expected		S S	Pro	Analytical Reasoning	Re	1	Scientific	Reflective	Self-Directed Learning	Multicultural Competence	Eŧ	Community Engagement		Les	Life Long
(CLO):		ing Outcomes	At the end of this	s course, learners will be able to:		evel	xpe	xpe	Ċ	Í		A	1		0)		Š	Mu	2000	ਤੌ			
		erstand the bas	sics of programming t	he Lua language	V. VI	3		70	-	-	-	Н	1	Н	Н	-	1	-	-	Н	-	_	-
				structure that makes Lua so powerful	ACCOUNT ON	3		75	-	-	-	М	L	М	М	-	М	-	-	Н	-	-	- 4
	CLO-3 : Apply Inheritance					3	_	70	-	-	-	Н	L	Н	Н	-	М	-	-	Н	-	-	
		orm String Mar	nip <mark>ulation</mark>			3	85	80	-	-	-	Н	L	Н	Н	-	М	-	-	Н	•		. 4
CLO-5	CLO-5: Use Lua Libraries				3	_	75	-	-	1 4	Н	L	Н	Н	-	М	-	-	Н	•	-	-	
CLO-6	: Write	e simple applic	ati <mark>ons usin</mark> g Lua			3	80	70	-	-	-	Н	L	Н	Н	-	L	-	-	Н	-	-	-
			-				ثب		-			-											
	ation our)		06	06	06						(	)6							0	6			
	SLO-1	Introduction T	o Lua Programming	Functions	While Loops, Infinite Loops				Arrays				Inheritance										
S-1	SLO-2 Writing First Lua Program  Defining a Function, Calling a Function, Function Arguments, Any No of Arguments, Returning a value, Returning Multiple values		Breaking a Loop	Array constructors, Array are one based, Sparse array, The size of an array, Multidimensional array				e and Multiple Inheritance															
	SLO-1 Basic Syntax Define a function using variable no Write a program to re		verse	Mrito a program t			n imn	leme	ant														
3-7 Tokon Commente Identifiere 101 arguments to sum all the		Write a program to reverse a number		-1-1	Write a program to add two matrix				rix	Write a program to implement single and multiple inheritance													
	SLO-1	Variables		Operators Repeat until loop, for lo			p Iterating					Math											
S-3	SLO-2 Basic Data Types  Arithmetic operators, Relational Operators, Logical Operators, Misc Operators, Operator Precedence		Nested Loop				Understanding pairs, Understanding ipairs, Closures, Iterative functions					Trigonometry, Changing Numbers, Comparing Numbers, Randomness											
S-4	SLO-1  Developing Simple Programs  Write a program to perform simple		Write a program to go multiplication table				a program to work with math																

S-5	SLO-1	String Types - String Literals/, String Length, Concatenate Strings, String Coercion, Escape Characters, Console input	Control Structures	Creating Tables, Storing Values	Objects	File IO
	S 1 1-/	Scope – Scope access, Global Access, Shadowing	If, elseif, else, Nesting if statements		AT STATE OF ACCESS OF THE PROPERTY OF THE PROP	Opening a File, Reading Data, Writing Data, Closing a File
S-6		Write a program to perform various	Write a Program that takes user input. If typed 'Hi" display "Welcome", If typed "Bye", Display "Good Bye"	Write a program to work with tables	Write a program using class and objects	Write a program to create a file

Learning Resources	1. "Lua Programming, A Beginners Guide", 2019 Edition, The Definitive Lua Programming Guide, Lua Publishing	2. Gabor Szauer, (2018), "Lua Quick Start Guide", Packt Publishing
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Learning A	Assessment			-			The same						
	Bloom's Level	Continuous Learning Assessment (50% weightage)									Final Examination		
Level	of Thinking	CLA - 1 (10%)		CLA - 2 (10%)		CLA -	3 (20%)	CLA - 4 (10%)#		(50% weightage)			
	of fillinking	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice		
Level 1	Remember	20%	20%	15%	15%	15%	15%	15%	15%		30%		
Levell	Understand	20%	20 /0	1370	13 /6	13 /6	13 /6	1376	13 /0	33-753	30 /6		
Level 2	Apply	20%	20%	20%	20%	20%	20%	20%	20%		40%		
LEVEI Z	Analyze												
Level 3	Evaluate	10%	10%	15%	15%	15%	15%	15%	15%	-	30%		
Level 3	Create		10 76	13%	1376	13%	13 /0	1370	15 /6		30 /6		
	Total	100 %		100 %		100 %		10	0 %	100 %			

<sup>#</sup> 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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