## SEMESTER V

Course		Course		Course	4		L	T	P	С
	USA20501J		WEB PROGRAMMING	Course	C	Professional Core		_		
Code		Name		Category			4	U	4	ь

Pre-requisiteCourses N	Co-requisiteCourses Nil	F	rogr	essiv	eCou	ırse	s N	il			H							
Course OfferingDepartment	Computer Science Data Book / Codes/Standa	ds Nil				74	_											
Course Learning Rationale (CLR):	The purpose of learning this course is to:	1	earn	ing				F	Prog	ram L	earn	ing C	Outco	ome	s (PL	.O)		
CLR-1: To gain knowledge of	bout Open S <mark>ource S</mark> oftware	1	2	3	7	1	2	3	4	5 6	7	8	9	10	11	12	13	14 15
CLR-2: To Learn basic file ar	nd directory commands in Linux		38	J.	176	100												1
CLR-3: To develop simple Pl	IP programs			195	THE P.			es		٩								
CLR-4: To understand work	ng with arra <mark>ys and f</mark> unctions	2		9		ь	S			Pop								
CLR-5: To learn various MyS	QL queries	(Bloom)	(%)			adg	ncepts	Disciplin	age of	Knowled		ata		S	S			_
CLR-6: To create database-	driven applications	Big	ency	ment	4.8	3	nce	Dis	ed :					Skill	Skills			avio
Course Learning Outcomes	At the end of this course, learners will be able to:	vel of Thinking	pected Profici	pected Attain		ndamental Knowledge	Application of Co	<b>W</b>	g .	Ability to Utilize Know	2	nalyze, Interpret	vestigative Skills	oblem Solving	Communication	Analytical Skills	r Skills	ofessional Beha
(CLO):	The state of the s	- P	8	E		Ŀ	Ap		Pr.	X A	š	Ā	2	٩	ပိ	Ā	<u>ن</u>	P =
CLO-1 : Create files using Vi		3	80	70	A	L	Н	-	Н	L -	-	1.70	L	L	17.	Н	:=:	
CLO-2: Write PHP scripts to	handle HTML forms.	3	85	75	17.3	М	Н	L	М	-	-	-	М	L	-	Н	-	
CLO-3: Write regular expres	sions including modifiers, operators, and metacharacters.	3	75	70		М	Н	М	Н	_	-	123	М	L		Н	1 <u>-</u> 1	2 2
CLO-4 : Create PHP program	sions including modifiers, operators, and metacharacters. s that use various PHP library <mark>functions,</mark> and that manipulate files and	3	85	80		М	Н	М	Н	L -	-	-	М	L	1.7	Н	-	- 2-
I I	rious database tasks using the PHP language	3	85	75		Н	Н	М	Н			-	М	L	157.1	Н	270	
CLO-6: Analyze and solve co	mmon Web application tasks by writing PHP programs.	3	80	70	n 12	L	Н	-	Н	-	-		L	L	-	Н	-	

100	ration our)	24	24	24	24	24
C 1	SLO-1	Introduction to Linux	What Does PHP Do?	Introduction to Function	Introduction to Arrays	Introduction to MySQL Database
S-1	SLO-2	Features of Linux	A Brief History of PHP	Calling a Function	Indexed Versus Associative Arrays	Connecting to and disconnecting from the server
S-2	SLO-1	Introduction to Linux Distributions	Language Basics	Defining a Function	Identifying Elements of an Array	Creating and using a database
	SLO-2	Widely used Linux distros	Lexical Structure	Variable scope	Storing Data in Arrays	Selecting a database
	SLO-1	Open Source software	Introduction to Data Types	Passing parameters by value	Multidimensional Arrays	Creating a table
S-3	SLO-2	Benefits of Open Source software	e Scalar Types	Passing parameters by reference	Extracting Multiple Values	Loading data into a table
S-4	SLO-1	Linux Files	Compound Types	Default Parameters	Converting Between Arrays and Variables	Retrieving information from a table
	SLO-2	The File Structure	Special Types	Variable Parameters	Traversing Arrays	Selecting all data
S 5-8		Laboratory1: Learning to work with linux server	Laboratory 4: Writing Simple PHP Programs	Laboratory 7: Passing parameters to a function	Laboratory 10: Arrays	Laboratory 13: Creating Database, tables
	SLO-1	Listing files	Defining Variables	Missing Parameters	Sorting	Selecting particular rows
S-9	SLO-2	Working with Is command	Variable Scope	Return Values	Reversing an array	Selecting particular columns
C 10		Displaying Files	Introduction to Expressions and Operators	Variable Functions	Introduction to Object	Sorting rows
S-10	SLO-2	Working with cat, more, less command	Arithmetic operators, Comparison operators, Bitwise operators	Anonymous Functions	Creating an Object	Date Calculation
S-11	SLO-1	Printing Files	Logical operators, Casting operators & Miscellaneous Operators	Introduction to Strings	Accessing Properties and Methods	Working with Null values
		Working with lpr	Operator precedence	Quoting String Constants	Declaring a Class	Pattern Matchin
C 12	POSSESSE SERVICE	Managing Directories	Introduction to Flow-Control Statements	Variable Interpolation	Declaring methods and properties	Counting Rows
S-12	SI O-2	Working with mkdir, rmdir, cd and pwd commands	Working with If & Switch	Printing Strings	Declaring constant	Using more than one table

S 13-	SLO-1	Laboratory2: Working with files	Laboratory 5: Operators & Control	Laboratory 8: Functions &	Laboratory 11: Arrays &	Laboratory 14: Working with
16	SLO-2	and directory commands	ries Working with While, for, foreach, Accessing Individual Characters  Using exit, return, goto statements Cleaning Strings  ory operations Including Code form another module Encoding and Escaping  m and In Working with include and require construct Comparing Strings  cess to directories Embedding PHP in Web Pages Strings  chmod command Standard (XML) Style, SGML Style Introduction to Regular expression  Pattern matching and substituting new text for matching text  Splitting a string into an array		Objects	various MySQL Queries
C 17		Listing directories	Working with While, for, foreach,	Accessing Individual Characters	Inheritance	Introduction to Working with MySQI Database using PHP
S-17	CONTRACTOR CONTRACTOR	ls command	Using exit, return, goto statements	Cleaning Strings	Interfaces	Connecting to MySQL database
	SLO-1	File and directory operations	Including Code form another module	Encoding and Escaping	Traits	Querying database
S-18	SLO-2	find, cp, mv, rm and In commands		Comparing Strings	Abstract Methods	Retrieving and displaying the results
c 10	SLO-1	Controlling Access to directories and files	Embedding PHP in Web Pages	, ,	Constructors	Modifying data
S-19		Working with chmod command	Standard (XML) Style, SGML Style		Destructors	Deleting data
S-20	1,000,000,000,000,000	Introduction to Vi editor	7	substituting new text for	Introduction to Introspection	Designing simple database
	SLO-2	Working with Vi editor	Script Style	Splitting a string into an array of smaller chunks	Examining an Object	application
S 21- 24	$c \cap c$	Laboratory 3: Working with file commands, Creating and	Laboratory 6: Embedding PHP script in HTML	Laboratory 9: String Manipulation	and Serialization	Laboratory 15: Developing Simple Database Applications

Learning	1. Richard Petersen, (2006), "Linux: The Complete Reference", Sixth Edition	<ol><li>Lee Babin, Nathan A. Good, Frank M. Kromann, Jon Stephens (2005),</li></ol>
Resources	2. RasmusLerdorf, Kevin Tatroe, Bob Kaehms, RicMcGredy, (2002),	"PHP 5 Recipes, A Problem Solution Approach", APrèss
	"Programming PHP", O'REILLY	4. Vikram Vaswani (2008), "PHP: A BEGINNER'S GUIDE", McGraw-Hill.

Learning Ass	Learning Assessment													
Blo	om's			Continous	Learning Asse	Final Examination (50%								
Level of Thinking		CLA - 1	l (10%)	CLA – 2	2 (10%)	CLA - 3	3 (20%)	CLA - 4	# (10%)	weightage)				
		Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice			
Level 1	Remember	20%	20%	15%	15%	15%	15%	15%	15%	15%	15%			

	Understand												
Level 2	Apply	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%		
	Analyze				0.0	HIN							
Level 3	Evaluate	10%	10%	15%	15%	15%	15%	15%	15%	15%	15%		
	Create												
	Total	100 %		100 %		100 %		10	0 %	100%			

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

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Mr. S. Karthik, IT Analyst, Tata Consultancy	Dr. Neelanarayanan,, Professor, School of Computer Science and Engineering, VIT	1. Mr. M. Ramesh
Services	Chennai	2. Dr.S.Sabeen

Course Code	SA20502J	Course Name	COMPUTER NETWORKS			ourse		С			Pro	fessio	nal (	Core			L 4	T 0	P C 2 5
Pre-requisite Courses		Nil	Co- requisite Courses	I Nil ARM		rogre Cour		E	AD	1		7		Ni	il				
72-77-77-77-77-77	Course Offering Department Computer Science Data Book / Codes/Stand				/Standard	ds				4				N	il				
Course Learni (CLR):	ng Rationale	The purpose	of learning this course i	is to:		Lea	arnin	ng			Pr	ograi	n Lea	arnin	g Out	comes	(PLO)		
CLR-1: Unde	rstand the e	volution of comp	outer networks using the	e layered network architec	ture	1	2	3	1	2	3 4	5	6	7	8 9	10	11 12	13	14 15
CLR-2 : Unde	CLR-2: Understand the addressing concepts and learn networks devices						5	Ţ			al	ıti			tiv	2			na
CLR-3 : Desig	R-3: Design computer networks using subnetting and routing concepts					ng	en	ment				liza	2	ig .	oret tigati	. 60	SE	IIIs	ssio viv
CLR-4: Unde	LR-4: Understand the error types, framing, flow control					Thinking	Proficiency	.⊆			Related	ecializa	tilize	ااا داااه نااطهما	iterpre ivestiga	olving	nalytical	Skills	rotession Rehavior Ite Long
CLR-5 : Unde	rstand the v	arious Medium A	Access Control technique	es and also the characterist	tics of	Ę,	Pro	Atta	<del>-</del>	of	Rel Pro	Spe	Ę	Z 2	lnt Int	Sol	Añ	그	Pro H