Course Code	PIT21G30	Course Name LINUX BASED LATEX		X BASED LATEX	Course Category		D		Dis	-	line Cou	<i>Ele</i> rse	ctiv	е	L	T	P 2	C			
Pre-requisite Courses Nil Co-requisite Courses Nil							ogre Cour			Nil											
Course Offe Department		Computer Ap	plications	Data Book / Codes/Standards	Nil	4	A														
Course Lea	rning Ration	ale (CLR):	The purpose of le	earning this course is to,	Le	earr	ning	9	>	Pr	ogra	am L	ear	nin	g Ou	tcor	nes	(PL	.0)		
ICLK-1:	miliarize the	software lifec	ycle models and s	oftware development	1	2	3	1	2	3	4	5	6	7	8 9	10	11	12	13	14	15
CLR-2. Un	Understand the various techniques for requirements, planning and				n)	(%)	<u></u>			C	1		1			e		Ħ			
CLR-3: Examine basic methodologies for software design, development, testing, closure and implementation					(Bloom)	iency (%	ment (%)	edge	1		ning			bu	king	mpetence		agement			_
CLR-4	CLR-4 : Understand manage users expectations and the software development team					roficier	ainme	now	ing	ing	eason	S		Reasoning	ninking od I earr	Comp	oning	Engag		Skills	earning
1 P>	Acquire the latest industry knowledge, tools and comply to the latest					ed Pro	ed Attain	nary k	Thinking	n Solving	cal Re	ch Skills	\sim	100	IVE IN	Itural (Reas	_	IIS	150.00	\Box
Course Lea	Course Learning Outcomes (CLO): At the end of this course, learners will be able to:				Level of	Expect	Expected	Disciplinary Knowledge	Critical	Problem	Analytical R	Research	Team \	Scientific	Self-Directed	Multicultural	Ethical	Community	ICT Skills	Leadership	Life Long
CLO-1 : Ide	CLO-1 : Identify the process of life cycle model and process project				3	80	70	L	Н	A	Н	L	-	-	- L	L	-	Н	-	=	-
	Analyze and specify software requirements through a productive				3	85	75	М	Н	L	М	L	-	-	- N	L	-	Н	-	-	-
1 1 1 - 3	Design the system based on Europtional Oriented and Object Oriented				3	75	70	М	Н	М	Н	L	-	_	- N	1 L	-	Н	2	***	•
CLO-4 : De	/ I HAN OF HAT				3	85	80	М	Н	М	Н	L	-	-	- N		-	Н	-	-	-
CLO-5 : Pe	rform by ap	plying the test	plan and various t	testing techniques	3	85	75	Н	Н	М	Н	L	-	-	- N	L	-	Н	-	<u>-</u>	-

103

Duratio	n(Hour)	15	15	15	15	15	
C 4	SLO-1	Introduction to Linux	Managing services	Study of Open	Signal concepts	Sockets	
S-1	SLO-2	Features of Linux	system startup files	Close, Read, Write	signal function	Elementary TCP Sockets	
0.0	SLO-1	Linux distribution-	starting	Lseek, Dup,stat	kill and raise	TCP Echo Client/ Server	
S-2	SLO-2	operating systems	service management	fstat, and Istat	alarm and pause	Elementary UDP Sockets	
6.3	SLO-1	Linux-History of Linux and Unix	service scripts	function	abort and sleep	UDP Echo Client/ Serve	
S-3	SLO-2	Open source software		File Types	Pipes		
S 4-5	SLO-1	Laboratory 1 : Working with Linux Server	Laboratory 4 : Creating presentation using Beamer tool	Laboratory 7 : Create a table, Brackets and tables in Latex.	Laboratory 10 :. Creating Package	Laboratory 13 : Calculus notation in Latex Document	
S-6	SLO-1	Linux Software	FTP server	File Access Permissions	FIFO	gethostbyname& gethostbyadd	
3-0	SLO-2	The shell	The FTP user account	Study of Access	System V IPC	getservbyname&	
	SLO-1	Shell Scripts	Running vsftpd-	Link and Unlink	Message Queue	getservbyport	
S-7	SLO-2	Programming Shell	configuring vsftpd	Functions Reading Directories	Example Program	getaddrinfo	
S-8	SLO-1	Configuration	vsftpd access controls-	Time and Date Routines	Semaphores	Syslogd Daemon	
0.0	SLO-2	Shell Configuration	web servers	Adding enumerate List	Example Program	syslog function	
S 9-10	SLO-1	Laboratory 2 : Practice of Commands	Laboratory 5 : Create Latex basic Document.	Laboratory 8 : Add an elements in it.	Laboratory 11 : Adding Macros	Laboratory 14 : inetd Daemon	
	SLO-1	Linux files	apache web server	Setjmp and	Shared Memory	Broadcast Addresses	
S-11	SLO-2	Directories	apache configuration files	Longjmp Functions	Example Program	Unicast Versus Broadcast	
S-12	SLO-1	archives	apache configuration and	fork	Introduction to creating slides,	Multicast Addresses	

104

	SLO-2	Working with Commands	directives	Vfork	adding frames,	Multicasting
100000000000000000000000000000000000000	SLO-1	Introduction with Latex editor	apache configuration	wait	Idividing the slide	Versus Broadcasting on LAN
S-13	SLO-2	Working with Latex Editor	Tools.	waitpid.	into multiple columns	Multicasting on WAN
S 14 -15	SLO-1	Laboratory 3 : .Adding Mathematical Symbol in Latex Editor	document formatting		Laboratory 12 : Add Different blocks in presentation	Laboratory 15 : Form a Frame

Stephen A.Rago (1993), Unix System V Network Programming, Addison Wesley, New York.

Learning A	Assessment		- Intern	127	111 2 1	tool 12- See				#20 P.S.	
Bloom's Level of Thinking			Final Examination (509								
		CLA - 1 (10%)		CLA - 2 (15%)		CLA - 3 (15%)		CLA - 4	4 (10%)#	weightage)	
Lever	or minking	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice
Lovel 1	Remember	200/	200/	150/	450/	150/	150/	150/	150/	150/	4.50/
Level 1	Understand	20%	20%	15%	15%	15%	15%	15%	15%	15%	15%
Lavel 0	Apply	20%	20%	20%	20%	200/	200/	200/	20%	20%	209/
Level 2	Analyze	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Lovel 2	Evaluate	100/	100/	150/	150/	150/	150/	150/	150/	150/	150/
Level 3	Create	10%	10%	15%	15%	15%	15%	15%	15%	15%	15%
	Total	100	0 %	10	0 %	10	0 %	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	Experts from Higher Technical Institutions	Internal Experts
Mr. S. Karthik, IT Analyst, Tata	Dr. Neelanarayanan,, Professor, School of Computer Science and	Mrs. Sweety Bakiarani
Consultancy Services	Engineering, VIT Chennai	Dr. Sabeen

105