Teaching Plan (2019-2020)

Semester -V

Name of the Course: Web Technology

Subject Code: SC1751

No. of Hours per	Credit	Total No. of Hours	Marks
Week			
6	5	90	100

- 1. To enable the students to understand the basic concepts and architecture involved in web technology, scripting languages and mark-up languages.
- 2. To implement the professional ethics to design web pages.

CO	Upon completion of this course the	PSO	CL
	students will be able to :	addressed	
CO -1	develop an ability to design and implement	PSO – 4	С
	static and dynamic web pages.		
CO -2	differentiate web applications using client-side	PSO –7	AP
	(JavaScript, HTML, XML) and server-side		
	technologies (ASP.NET, ADO.NET).		
CO -3	define the fundamental ideas and standards	PSO – 1	U
	underlying Web Service Technology		
CO -4	apply the knowledge of the internet and related	PSO –11	AP
	internet concepts that are vital in understanding		
	web application development and analyze the		
	insights of internet programming to implement		
	complete application over the web.		

Unit	Module	Topics	Lecture	Learning	Pedagogy	Assessment/
			hours	Outcome		Evaluation
Ι	Introductio	on to Web Technologies	and HTM	L		
	1.	History of the Web,	2	To recall the	Lecture	Evaluation
		Understanding Web		history of	with PPT	through:
				web, 3-tier		short test
		System Architecture,		web		
		Understanding 3-tier		architecture		Multiple
		Web Architecture				choice
	2.	Web Browsers,	3	To recall the	Lecture	questions
		Introducing HTML		different types of	with PPT	Formative
		Document Structure,		browsers,		Assessment
		Creating Heading on		structure of HTML		
		a Webpage		document.		
		1 0		To be able		
				to create		
				heading on		
				a web page		
	3.	Working with Links,	3	To be able	Illustration	
		Creating a Paragraph,		to create	by	
				link,	examples	
		working with Images		paragraph		
				in web page		
	1	Working with Tables	2	To be able	Lecture	
	т.	working with rables	2	to create	Illustration	
				tables in	by	
				web page.	examples	
	5.	Working with Frames	2	To be able	Lecture,	
		C		to create	Illustration	
				frames in	by	
				web page.	examples	
	6.	Introducing to Forms	3	To be able	Lecture,	
		and HTML Controls		to create	Demonstrat	
				HTML	10n,	
				forms and	Illustration	
				in it	oy examples	
	7	Introducing	2	To be able	Lecture	
	,		4	to create	,	
		Cascading Style		cascading	Illustration	
		Sheets		styles in a	b y	
				web page in	examples	

				4 ways.		
II	Introductio	on to JavaScript		J		
	1.	Introducing	3	To be able	Lecture	Short test
		IouoSorint Handling		to create	with PPT	
		JavaScript, Handling		application		
		Events		using		Quiz
				JavaScript.		
				To define		Formative
				the benefits		Assessment
				of		
				JavaScript.		
				To handle		
				events in		
	2		4	JavaScript.	Lastara	
	۷.	Using Variables in	4	to granta	Lecture	
		JavaScript, Using		objects in	wiui FF I	
		Array in JavaScrint		IavaScript		
		Anay in savasenpi,		To use		
		Creating Objects in		variables		
		JavaScript		and array in		
				JavaScript.		
	3.	Using Operators	3	To recall the	Lecture.	
		8 - F - 11 - 1	U	different		
				types of	Group	
				operators in	Discussion	
				JavaScript.		
	4.	Working with	4	To be able	Lecture,	
		Control Flow		to create		
		Control Plow		own	Illustration	
		Statements, Working		function in	by	
		with Functions		the Script.	examples,	
				То		
				Analyze	Discussion	
				different		
				types of		
				control flow		
тт	T 4		7	statements.		J
111	Introducin Working u	g PHP, Working with V	variables, (Controlling Pr	ogram Flow a	and
		Varian of DUD	r lies, Dire	To define	Lastura	Short tost
	1.	version of FHF,	3	the versions	Lecture,	Short lest
		Features of PHP,		features in	РРТ	
		Creating a PHP		PHP	± ± ± ,	Formative
		Crouning a I III		To be able		Assessment
		Script, Running a		to create,		100000000000000000000000000000000000000

				1	1	
		PHP Script, Handling		run and		
		Errors in a PHP Script		handle		
				errors in		
		and Escape		PHP Script.		
		Characters				
	2.	Using Variables,	3	To use	Lecture,	
		Using Constants,		variables,	Group	
		Exploring data types		data types &	Discussion	
		in PHP and Exploring		operators in PHP.		
		Operators in PHP				
	3.	Conditional	4	То	Lecture,	
		Statements, Looping		Analyze	DDT	
		Statements		different	PPT,	
		Statements		control flow	Group	
				statements.	Discussion	
	4.	User-defined	3	To be able	Lecture,	
		Functions in PHP,		to create functions in	PPT.	
		Built in Functions in		PHP.	,	
		PHP, Introducing		To be able	Illustration	
		Arrays, Types of		array in	by examples	
		Arrays		PHP.	I	
				To analyze the different		
				types of		
				arrays in		
				PHP.		
	5.	Working with Files,	3	To recall the	Lecture,	
		Working with		that can be	PPT.	
		Directories		used to	,	
				perform on	Illustration	
				a file and	by	
117	XX 71-2			directories.	examples	
1 V	vvorking v Security	viul Forms and Databas	e and Exp	noring Cookie	s, Session and	ITHY
	1.	Introduction to Web	2	To be able	Lecture	
		Forme Working with		to create	with PPT	Short test
		Forms, working with		forms in		
		<form>tag and Form</form>		Web and		
				define the		

		Elements, Processing		attributes of		Assignment
		a Web Form		<form> tag.</form>		Quiz
	2.	Validating a Form,	3	To be able	Lecture	
		Introducing		to validate a	with PPT,	Formative
		Introducing		form.		Assessment
		Databases, Using		To establish	Illustration	
		PHP and MySql		with the	Dy examples	
				Mysal	examples	
				database		
				server in		
				PHP.		
	3.	Working with	3	To define	Lecture	
		Cookies, Working		its	wiul FF I	
		with Session		attributes.		
				To be able		
				to define		
	4		2	session.	T (
	4.	Protecting Data,	3	10 define	Lecture with PPT	
		Configuring PHP		protect data	with I I	
		Security		from		
				unauthorized		
				users.		
				10 recall the		
				configuration		
				directives to		
				configure		
				PHP		
N7	Introducin	a to VMI		security.		
v	1	Definition of XML	Δ	To define		
		VML Verse LITM		XML,	Lecture	
		XML Versus HIML,		difference	with PPT,	Short test
		Electronic Data		between		
		Interchange (EDI)		XML and HTML EDI	Discussion	
	2.	XML Terminology	2	To recall the	Lecture	Formative
				related	with PPT	Assessment
				terms about		
				XML.		
	3	Introduction to DTD	1	To define	Lecture	
	5.		4			

	Document Type Declaration, Elements Type Declaration		DTD, different types of DTD.	with PPT, Group Discussion
4.	Attribute Declaration and Limitation of DTD, Introduction to Schema	3	To be able to declare attributes in XML. To be able to define limitations of DTD, Schema.	Lecture, Discussion
5.	Complex Types, Extensible Style Sheet Language Transformations	4	To define extensible style sheet language transformati ons.	

Course Instructor: J. Anto Hepzie Bai

HOD: Sr. Jothi Antony

Name of the Course: **Operating Systems**

Subject Code: SC1752

No. of Hours per Week	Credit	Total No. of Hours	Marks
5	5	75	100

- 1. To focus on the different operating systems and the back processing involved in it.
- 2. To inculcate the knowledge of working process of various operating systems.

CO	Upon completion of this course the	PSO	CL
	students will be able to :	addressed	
CO -1	analyze the structure of OS and basic	PSO – 12	AN
	architectural components involved in OS design		
CO -2	analyze the applications to run in parallel either	PSO - 6	AN
	using process or thread models of different OS		
CO -3	describe the various device and resource	PSO - 9	U
	management techniques for timesharing and		
	distributed systems		

CO -4	understand the mutual exclusion ,deadlock detection of distributed operating system	PSO – 7	U
CO -5	apply the mechanisms adopted for file sharing in distributed applications	PSO – 4	AP

Unit	Module	Topics	Lecture	e Learning	Pedagogy	Assessment/
			hours	Outcome		Evaluation
Ι	Computer	System Overview				
	1.	Basic Elements	2	To be able to operate identify the basic elements	Lecture, Discussion	Multiple choice questions.
	2.	Processor Registers , Instruction Execution, Interrupts	4	To understand the Registers	Lecture , PPT	Quiz, Assignments through
	3.	The Memory Hierarchy , Cache Memory	4	To know the memory hierarchy and cache memory	Lecture, Discussion	MOODLE Evaluation through:
	4.	I/O Communication Techniques.	2	To understand the basic concept of all the I/O techniques	Lecture, PPT Discussion	short test
	6.	Operating System Objectives and Functions	4	To analyze all the OS functions	Lecture with PPT Illustration,	Formative Assessment
	7.	The Evolution of Operating Systems	3	To develop and evaluate the various types of operating system	Lecture, Discussion	
II	Process De	escription and Control,	Threads	, SMP, and Micro	o kernels	
	1.	Process	2	To analyze various form factors of operating system	Lecture, Discussion	Quiz Short test
	2.	Process States	2	To be able to know the	Lecture, PPT	Formative

				states of	Discussion	Assessment
				operating		
				system		
				process		
				I ·····		
	3.	Process Description	2	To elaborate	Lecture	
		1		the OS	with PPT	
				processor	Illustration	
	4.	Process Control	2	To learn	Lecture.	
				about input	PPT	
				output		
				process		
				control		
	5	Processes and	2	To be able to	Lecture	
	5.	Threads	-	identify the	Locture	
		1 mouds		threads in		
		•		process		
	6	Principles of	3	To find out	Lecture	
	0.	Concurrency	5	the principles	Lecture,	
		Semanhores		of OS	Discussion	
	7	Principles of	2	To be able to	Lecture	
	/.	Deadlock	2	debug the	Lecture,	
		Deautoek		acoug the	Discussion	
				Operating	Discussion	
				System		
	8	Deadlock Prevention	3	To learn how		
	0.	Deadlock Avoidance	5	to prevent		
		Deadlock Avoluance,		and detect		
		Deaulock Delection.		the problem		
				in OS		
тт	Momory N	Ianagamant Virtual M	mory	111 05		
111		Memory Management	$\frac{1101}{2}$	To be able to	Lecture	Short test
	1.	Requirements	2	manage all	with PPT	Short test
		Requirements		the	Illustration	Formative
				requirements	mustration	Assessment
				in the		Assessment
				memory		Multiple
				memory		choice
	2	Memory Partitioning	2	To be able to	Lecture	questions
	2.	wiemory r artitioning	2	identify the	Lecture,	Quiz
				different	Illustration	Quiz, Assignments
				types of	musuation	through
				memory		MOODI F
	2	Daging	n	To alaborato	Lecture	
	5.		Δ	the paging	Leciule,	
				method	Illustration	
				memou	musuation	

	4.	Segmentation	2	To separate all the operating system process	Lecture with PPT Illustration	
	5.	Operating System Software	2	To define the Operating System Software	Lecture with Illustration	
IV	Uniprocess	sor, Scheduling, Multip	rocessor a	nd Real Time S	Scheduling	
	1.	Types of Scheduling	2	To understand the types of scheduling	Lecture with Illustration	Short test Formative Assessment
	2.	Multiprocessor Scheduling	2	To be able to identify the scheduling in the multiprocess or	Lecture with PPT Illustration	
	4.	Real Time Scheduling	2	To understand the format for memory and scheduling	Lecture with PPT Illustration	
	5.	I/O Devices, Organization of the I/O Function	2	To distinguish the difference between I/O devices and I/O function	Lecture with PPT Illustration	
	6.	Operating System Design Issues, I/O Buffering, Disk Scheduling.	4	To be able to identify all issues	Lecture	
V	File Mana	gement, Computer Secu	rity Thre	ats		
	1.	Overview, File	3	То	Lecture	Short test

	Organization and Access		understand file organization and access all the file	with PPT Illustration	Formative Assessment
2.	File Directories , File Sharing , Record Blocking	3	To know the sharing process of all files	Lecture with Illustration	Quiz Short test
3.	Secondary Storage Management	2	To get access from secondary storage memory	Lecture with PPT Illustration	
4.	Computer Security Concepts	2	To secure all files with the help of computer security	Lecture with PPT Illustration	
5.	Threats, Attacks, and Assets	3	To be able to know how to prevent our system from all types of attacks and threats	Lecture with PPT Illustration Videos	
6.	Intruders , Viruses, Worms, and Bots	3	To be able to know how to prevent the system from virus	Lecture with PPT Illustration Videos	

Course Instructor: V. Abisha

HOD: Sr. Jothi Antony

Name of the Course : Data Communication and Computer Networks

Subject Code : SC1753

No. of Hours per Week	Credit	Total No. of Hours	Marks
5	5	75	100

- 1. To focus the students on the various technologies and terminologies used in transmitting data through computer networks.
- 2. To build the skill of networking technology for effective communication.

CO	Upon completion of this course the	PSO	CL
	students will be able to :	addressed	
CO -1	Independently understand basic computer	PSO – 1	
	network technology.		U
CO -2	Understand and explain Data Communications	PSO – 2	
	System and its components.		U
CO -3	Identify the different types of network	PSO - 3	
	topologies and protocols		U
CO -4	Enumerate the layers of the OSI model and	PSO – 12	
	TCP/IP. Explain the function(s) of each layer.		U
CO -5	Apply the different types of network devices	PSO – 3	
	and their functions within a network		AP
CO -6	Familiarity with the basic protocols of computer	PSO –9	
	networks, and how they can be used to assist in		AP
	network design and implementation.		

Unit	Module	Topics	Lecture	Learning	Pedagogy	Assessment/
			hours	Outcome		evaluation
Ι	Introduct	tion: Data Communications				
	1.	Data Communications and	2	To understand	Lecture,	
		Networks		basic elements	Discussion	
				of data		Multiple
				communication		choice
				and networks		questions,
	2.	Protocols and Standards	3	To understand	Lecture,	Quiz
				the Protocols PPT		
				and Standards		Evaluation
	3.	Network Models: Layers	2	To know about	Lecture,	through: short
		in the OSI Model		the basic		test

				Network	Discussion	
				Models		
	4.	TCP/IP Protocol Suite.	2	To know about	Lecture,	
				TCP/IP	PPT	
				Protocol Suite.	Discussion	Formative
	6.	Addressing	4	To understand	Lecture with	Assessment
				addressing	PPT	
					Illustration,	
II	Multiple	xing. Transmission Media S	witching			
	1.	Frequency-Division	2	To analyze	Lecture,	Quiz
		Multiplexing		Frequency-	·	
				Division	Discussion	
				Multiplexing		Short test
	2.	Statistical Time-Division	2	To be	Lecture,	
		Multiplexing		understand	PPT	
				Statistical	Discussion	
				Time-		Formative
				Division		Assessment,
				Multiplexing		Assignments
	3.	Guided Media	2	То	Lecture with	through
				understand	PPT	MOODLE
				the Guided	Illustration	
				Media		
	4.	Unguided Media:	2	To learn	Lecture	
		Wireless		about		
				Unguided		
				Media		
	5.	Circuit-Switched	4	То	Lecture	
		Networks – Datagram		understand		
		Networks		about the		
				switches and		
				their		
				different		
		Determent Networker	2	types	T	-
	0.	Datagram Networks	3	10 understand	Lecture,	
				Detegram	Disquesion	
				Networks	Discussion	
	7	Structure of a Switch	2	To be able to	Lecture	
	/.		<i>–</i>	understand	Lociule,	
				the Structure	Discussion	
				of a Switch.	- 100 4001011	
III	Using Te	lephone and Cable Network	s for Dat	a Transmission		1
	1.	Dial-up Modems	2	То	Lecture with	Short test
				understand	PPT	

				the dial-up	Illustration	Formative
				modems		Assessment
	2.	Cable TV Networks,	2	To be able to	Lecture,	
		Cable TV for Data		analyze		Multiple
		Transfer		about the	Illustration	choice
				Cable TV for		questions,
				Data		Quiz,
				Transfer		Assignments
	3.	Error Detection and	2	To elaborate	Lecture.	through
		correction: Introduction .		the Error	,	MOODLE
		Block Coding		Detection	Illustration	
		Dioek Coung		and	mustrution	
				correction		
				method		
		Data Link Control:	1	То	Lecture with	
	ч.	Protocols HDLC Point-	-	understand	DDT	
		to Point Protocol		the Data	Illustration	
				Link Control	musuation	
				Protocols		
	5	Multiple Assess	2	To define the	L a aturna uvith	
	5.	Multiple Access:	Z	10 define the	Lecture with	
		Channelization		channelizatio	Inustration	
				n		
IV	Wirod I	A N _C				
IV	Wired L	ANs Ethernet: East Ethernet	2	Tounderstand	Lecture with	Short test
IV	Wired L <i>1</i> .	ANs Ethernet: Fast Ethernet - Gigabit Ethernet	2	To understand	Lecture with	Short test
IV	Wired L ₄ 1.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet	2	To understand the types of Ethernet	Lecture with Illustration	Short test
IV	Wired L.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet	2	To understand the types of Ethernet	Lecture with Illustration	Short test Formative
IV	Wired L/ 1. 2.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs:	2	To understand the types of Ethernet To understand	Lecture with Illustration Lecture with	Short test Formative Assessment
IV	Wired L/ 1. 2.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth.	2	To understand the types of Ethernet To understand about	Lecture with Illustration Lecture with PPT	Short test Formative Assessment
IV	Wired L/ 1. 2.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth.	2	To understand the types of Ethernet To understand about Bluetooth	Lecture with Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs,	2 2 5	To understand the types of Ethernet To understand about Bluetooth Connecting	Lecture with Illustration Lecture with PPT Illustration Lecture with	Short test Formative Assessment
IV	Wired L/ 1. 2. 4.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and	2 2 5	To understand the types of Ethernet To understand about Bluetooth Connecting LANs,	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT	Short test Formative Assessment
IV	Wired L/ 1. 2. 4.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting	2 2 5	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices.	2 2 5	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks,	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices.	2 2 5	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices.	2 2 5	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs:	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices.	2 2 5	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs: Connecting	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices.	2 2 5	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices.	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4. 5.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. Wireless WANs: Cellular	2 2 5 4	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. To learn	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4. 5.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. Wireless WANs: Cellular Telephone and Satellite	2 2 5 4	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. To learn about the	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4. 5.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. Wireless WANs: Cellular Telephone and Satellite Networks: Cellular	2 2 5 4	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. To learn about the Cellular	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4. 5.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. Wireless WANs: Cellular Telephone and Satellite Networks: Cellular Telephony - Satellite	2 2 5 4	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. To learn about the Cellular Telephone	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4. 5.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. Wireless WANs: Cellular Telephone and Satellite Networks: Cellular Telephony - Satellite Network.	2 2 5 4	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. To learn about the Cellular Telephone and Satellite	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4. 5.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. Wireless WANs: Cellular Telephone and Satellite Networks: Cellular Telephony - Satellite Network.	2 2 5 4	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. To learn about the Cellular Telephone and Satellite Networks	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment
IV	Wired L/ 1. 2. 4. 5.	ANs Ethernet: Fast Ethernet - Gigabit Ethernet Wireless LANs: Bluetooth. Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. Wireless WANs: Cellular Telephone and Satellite Networks: Cellular Telephony - Satellite Network.	2 2 5 4	To understand the types of Ethernet To understand about Bluetooth Connecting LANs, Backbone Networks, and Virtual LANs: Connecting Devices. To learn about the Cellular Telephone and Satellite Networks	Lecture with Illustration Lecture with PPT Illustration Lecture with PPT Illustration	Short test Formative Assessment

		Addressing: IPv4		the Network		
		Addresses, IPv6		Layer and		
		Addresses		Logical		
				Addressing		
	7.	Network Layer: Address	3	To be able to	Lecture	
		Mapping, Error Reporting,		identify		
		and Multicasting: Address		Network		
		Mapping.		Laver:		
				Address		
				Mapping.		
				Error		
				Reporting.		
				and		
				Multicasting:		
				Address		
				Mapping.		
V	Process-t	o Process Delivery, Domain	Name Sv	stem. Cryptogr	aphy:	
	1.	UDP. TCP. and SCTP:	2	To	Lecture with	Short test
		User Datagram Protocol		understand	PPT	
		(UDP), TCP		the UDP and	Illustration	
				TCP		Formative
						Assessment
	2.	Name Space .Domain	2	To know	Lecture with	
		Name Space . DNS in the		about the	Illustration	
		Internet.		DNS		Quiz
	3.	Remote Logging.	2	To know	Lecture with	
		Electronic Mail. and File		about remote	PPT	Short test
		Transfer: Remote		logging	Illustration	
		Logging - Electronic Mail		66 6		
	4.	File Transfer Protocol	2	To know	Lecture with	
		(FTP		about FTP	PPT	
		× ·			Illustration	
	5.	Symmetric-Key	3	To know	Lecture with	
		Cryptography,		about	PPT	
		Asymmetric Key		cryptography	Illustration	
		Cryptography: RSA		types		
				J 1		
	6.	Network Security:	3	To be able to	Lecture with	
		Digital Signature		know how to	PPT	
				secure our	Illustration	
				network		

Course Instructor: P. Jasmine Lizy

HOD: Sr. Jothi Antony

Name of the Course : Photoshop (SBC)

Subject Code : SSK175

No. of Hours per Week	Credit	Total No. of Hours	Marks	
2	2	30	100	

- 1. To enable students to create images for web design, logos, graphics, layouts, image touch-ups and colour enhancement.
- 2. To develop the skills for manipulating the images creatively.

СО	Upon completion of this course the students will be able to :	PSO addressed	CL
1	Understand retouch and repair a scanned photograph.	1	AP
2	Create abilities to use Photoshop that are employable and rewarding.	3	С
3	Understand how to do basic photo repairs and color enhancements techniques.	1	AP
4	Define and apply the basic functions of pixel selection, painting and editing tools	5	R
5	Understand file compression, Import and export files and save files in different formats	3, 2	AN
6	Utilize retouching features to make pictures perfect	3	C

Unit	Module	Topics	Lecture hours	Learning Outcome	Pedago gy	Assessment / Evaluation
Ι	Starting Ph	notoshop CS2		I		2.7414441011
	1.	Getting Started with Photoshop CS2, Opening an Existing File and The Photoshop Program Window	1	To understand the concept of Photoshop	Lecture	Short test
	2.	Guidelines for Working with Toolbox and Screen Modes	2	To be aware of the guidelines	Lecture with PPT	
	3.	Creating a New File , Saving Files , Removing Files and Closing File	1	To understand the necessary features	Illustrati on with PPT	Formative Assessment
II	Working w	ith Images				Quiz
	1.	Vector and Bitmap Images, Opening Recently used Files, Image Size, Image Resolution and Editing Images	1	To analyze the various features of images	Lecture	Multiple choice questions
	2.	Opening Files Created in Illustrator or Freehand and Color Modes	2	To learn more color modes	Lecture with PPT	Evaluation through: short test
	3.	Setting a Current Foreground and Background Colors and File Formats	2	To recall the various formats	Illustrati on with PPT	Formative Assessment
III	Making Se	lections				
	1.	Making Selection, The Grow and Similar Commands and Moving a Portion of an Image	1	To learn different resizing of the image	Lecture	Multiple choice
	2.	Editing Selections and Copying a Selection into another Image	1	To understand the features of selection	Lecture with PPT	questions
	3.	Filling a Selection.	1	To get the knowledge of filling	Illustrati on with PPT	Evaluation through:
	4.	Transforming Selections	2	To be able to operate the transformations	PPT	short test Formative Assessment

IV	Painting, D	rawing and Retouching Tools and Laye	rs			
	1.	The painting Tools	2	To know the	Lecture	
				painting tools		Multiple
	2.	The Drawing Tools	3	To work with	Lecture	choice
				the drawing	with	questions
	2	The Detenshing Tools	2	tools To get to	PP1 Illustrati	
	5.	The Reforming Tools	Δ	know the	on with	Evaluation
				retouching	PPT	through:
				tools		short test
	4.	Layers Palette and Working with	2	To be aware	Illustrati	
		Layers		of the layers	on	Formative
				and palette		Assessment
\mathbf{V}	Filters		1	T	T .	
	1.	The Filter Menu and Filter Gallery	1	To get to	Lecture	Multiple
				know the		choice
				gallery		questions
	2.	Extract Filter and Liquefy Filter	2	To recognize	Lecture	
		1		different	with	Evaluation
				different	witti	through:
				filters	PPT	short test
	3.	Vanishing Point Filter and Artistic	2	To know	Illustrati	
		Filters		more about	on with	
				filters	PPT	Formative
	4.	Blur Filters and Brush Stroke Filters	2	То	Illustrati	Assessment
				distinguish	on	
				the		
				difference		
				filters		

Course Instructor: Sr. Jothi Antony

HOD: Sr. Jothi Antony