B.Sc. Computer Science

Semester: II

Name of the Course: Object Oriented Programming in C++

Subject Code: SC1721

Unit	Modu	ıle	Topics	Lectur		Learning Outcome	Pedagogy	Assessment/ Evaluation
I	Princi	ples	of OOP and Contro	ol Struct	ures			
	1.	1. Procedure and Object Oriented programming Paradigm		1	diffe proce object	istinguish the rence between edure and ct oriented ramming	Lecture, Discussion	Evaluation through:
	2.		sic Concepts and nefits of OOP	2		Inderstand the Ps concept and ses	Lecture with PPT	short test
	3.	Sin Str	finition of C++, uple C++ Program, ucture of C++ gram	1		nderstand an view of a C ram	Lecture, Discussion	Multiple choice questions
	4.	Ide Cor Dat Ope Sco	kens, Keywords, ntifiers and nstants & Basic ta Types, erators in C++, ope Resolution erator	2		nderstand the e program ents	Lecture, Discussion	Formative Assessment
	6.	Manipulators, Memory management operators		2		ecall the format to display data	Lecture, Discussion	
	7.	_	ntrol Structures	1	vario prog cons impl	nalyze the bus ramming tructs and ement it to orm specific	Lecture with PPT Illustration, Discussion	

II	Functions in C++, Classes & Objects												
	1.	Main Function & Function Prototyping	1	To be able to define function and write programs using function prototyping	Lecture, Discussion	Short test Quiz Formative							
	2.	Call by Reference, Return by Reference, Inline functions, Default Arguments	3	To develop programs by passing address as arguments, passing default values as arguments To recall that developing programs using inline function will save memory space and time	Lecture with PPT Illustration	Assessment							
	3.	Function Overloading, Friend Functions, Virtual Functions	3	To write programs with same function names to perform many tasks To develop programs to handle some specific tasks related to class objects	Lecture with PPT Illustration								
	4.	Specifying a Class	1	To be able to create programs using class	Lecture with PPT Illustration								
	5.	Defining Member Function & Private Member Functions, Static Data Members	2	To recall the member functions and data members	Lecture								
	6.	Arrays of Objects	1	To develop programs using arrays of objects	Lecture, Discussion								
III	Const	ructors, Operator Over	loading	& Inheritance	<u> </u>	1							
	1.	Constructors,	1	To distinguish the	Lecture	Short test							

		Multiple Constructors in a Class		difference between constructors and multiple constructors	with PPT Illustration	Formative Assessment
	2.	Destructors, Overloading Unary Operators	1	To be able to destroy constructor To develop programs using unary operators	Lecture, Illustration	
	3.	Overloading Binary Operators	1	To develop programs using binary operators	Lecture, Illustration	
	4.	Single Inheritance, Multilevel Inheritance, Multiple Inheritance, Hierarchical Inheritance, Hybrid Inheritance	3	To analyze the different types of inheritance and the difference between them	Lecture with PPT Illustration	
	5.	Abstract Classes, Member Classes: Nesting of Classes	1	To define abstract and member classes	Lecture with Illustration	
IV	Pointe	ers, Managing Console I	/O Ope	rations & Manipulati	ng Strings	
	1.	Pointers to Objects, This Pointer	2	To define pointer and can create programs using pointers	Lecture with Illustration	Short test Formative Assessment
	2.	C++ Streams, C++ Stream Classes	1	To define stream and stream classes	Lecture with PPT Illustration	
	4.	Formatted Console I/O Operations, Managing output with Manipulators	3	To understand the format for displaying the output	Lecture with PPT Illustration	
	5.	Creating Objects, Manipulating String Objects, Relational Operations, String Characteristics	2	To understand the string functions that are supported by C library	Lecture with PPT Illustration	
V	Files &	& Templates				

1.	Classes for File Stream Operations, Opening and Closing a File, Detecting end-of- file, File Modes	3	To understand file, able to open and close a file, able to use end of file condition in a program	Lecture with PPT Illustration	Short test Formative Assessment
2.	File Pointers and their Manipulators, Sequential Input and Output Operations	3	To understand the functions designed for handling a single character To be able to write and read blocks of data	Lecture with Illustration	
3.	Updating a File, Error handling during File Operations	2	To be able to display, modify, add or delete contents of a file	Lecture with PPT Illustration	
4.	Command-line Arguments	1	To develop programs by supplying the arguments to the main function	Lecture with PPT Illustration	
5.	Class Templates, Class Templates with Multiple Parameters, Function Templates, Function Templates with Multiple Parameters	3	To understand class and functions template To differentiate the difference between them	Lecture with PPT Illustration Videos	

Course Instructor: Sr. Jothi Antony HOD: Sr. Jothi Antony

Semester: II

Name of the Course: PC Hardware and Troubleshooting

Subject Code: SA1721

Unit	Modu	ıle	Topics	Lectur		Learning Outcome	Pedagogy	Assessment/ Evaluation		
I	Introd	uctio	on to PC , Processor	•						
	1.	Definition of PC, Types		,		2	O]	To be able to perate PC and ame to know the types of PC	Lecture, Discussion	Multiple choice questions
	2.	Sys	tem Components	1	S	o understand the ystem	Lecture	Evaluation		
	3.	Spe	Processor Specifications, Modes, Features		pı	o know the rocessor and that eatures	Lecture, Discussion	through: short test		
	4.	Manufacturing, Physical Packaging		2	ba ha m	o understand the asic concept of ardware nanufacturing and ackaging	Lecture, Discussion	Formative Assessment		
	6.	Mu	Iti Core Processors	1		o analyze all the ore processors	Lecture with PPT Illustration,			
	7.	Pro Tro Teo	cessor Upgrades cessor publeshooting chniques	3	te al	To analyze the arious processor echniques and be ble to upgrade the rocessor	Lecture, Discussion			
II	Mothe	Motherboards and Buses 1. Motherboard Form Factors								
	1.			1	for ap	o analyze various rm factors and ply it to otherboard	Lecture, Discussion	Quiz Short test		

3. 4. 5. 6. BIOS 1.	SDRAM SIMM , DIMM RIMM Definition of Hard Disk Hard disk Drive Components Drive Operation, Features BIOS Basics	2 1 1 2	To distinguish the difference between SIMM, DIMM and RIMM To be able to define the hard disk To define the components of hard disk To know about the secondary storage devices To understand the	Lecture, Illustration Lecture with PPT Illustration Lecture with Illustration Lecture Lecture	Short test
4.5.6.	SIMM , DIMM RIMM Definition of Hard Disk Hard disk Drive Components Drive Operation,	2	To distinguish the difference between SIMM, DIMM and RIMM To be able to define the hard disk To define the components of hard disk To know about the secondary storage	Lecture, Illustration Lecture with PPT Illustration Lecture with Illustration	
 4. 5. 	SIMM , DIMM RIMM Definition of Hard Disk Hard disk Drive Components Drive Operation,	2	To distinguish the difference between SIMM, DIMM and RIMM To be able to define the hard disk To define the components of hard disk To know about the secondary storage	Lecture, Illustration Lecture with PPT Illustration Lecture with Illustration	
4.	SIMM , DIMM RIMM Definition of Hard Disk Hard disk Drive	2	To distinguish the difference between SIMM, DIMM and RIMM To be able to define the hard disk To define the components of hard	Lecture, Illustration Lecture with PPT Illustration Lecture with	
4.	SIMM , DIMM RIMM Definition of Hard Disk		To distinguish the difference between SIMM, DIMM and RIMM To be able to define the hard disk	Lecture, Illustration Lecture with PPT Illustration	
3.	SIMM , DIMM	2	To distinguish the difference between SIMM, DIMM and	Lecture,	
	SDRAM	ļ	types of memory	musuanon	
2.	Cache Memory, SD RAM, DDR	2	To be able to identify the different	Lecture, Illustration	Quiz
1.	Memory Basics: ROM , DRAM	1	To distinguish the difference between ROM and DRAM	Lecture with PPT Illustration	Short test Formative Assessment
					T ~•
	Troubleshooting Techniques		the errors in processor	Discussion	
7	Conflicts	1	conflicts in motherboard	Discussion	
6.			identify the features in System To find out the	Lecture,	
5.	System Resources	1	motherboard To be able to	Lecture	
4.	Types of I/O Buses	1	To learn about	Lecture	-
3.	System Bus Types Functions & Features	2	To recall all the types and methods in hus connections	Lecture with PPT	
2.	Connectors	2	connect the connections in motherboard	Discussion	Formative Assessment
	4. 5. 6. 7. Memor	3. System Bus Types Functions & Features 4. Types of I/O Buses 5. System Resources 6. Resolving Resource Conflicts 7. Processor Troubleshooting Techniques Memory , Memory Modules 1. Memory Basics: ROM , DRAM 2. Cache Memory, SD RAM , DDR	3. System Bus Types Functions & Features 4. Types of I/O Buses 1 5. System Resources 1 6. Resolving Resource Conflicts 7. Processor Troubleshooting Techniques Memory , Memory Modules , Hard I 1. Memory Basics: ROM , DRAM 2. Cache Memory, SD RAM , DDR	Connectors Connect the connections in motherboard 3. System Bus Types Functions & Features 4. Types of I/O Buses 5. System Resources Conflicts Conflicts Resolving Resource Troubleshooting Techniques Memory, Memory Modules, Hard Disk Storage 1. Memory Basics: ROM, DRAM Cache Memory, SD RAM, DDR Connect the connections in motherboard To recall all the types and methods in bus connections To learn about input output path in motherboard To be able to identify the features in System To find out the conflicts in motherboard To be able to debug the errors in processor Memory, Memory Modules, Hard Disk Storage 1. To distinguish the difference between ROM and DRAM 2. Cache Memory, SD RAM, DDR Connect the connections in motherboard To learn about input output path in motherboard To be able to debug the errors in processor Memory Amory Modules, Hard Disk Storage To distinguish the difference between ROM and DRAM	Connectors Connectors Connect the connections in motherboard 3. System Bus Types Functions & Features Functions & Features To recall all the types and methods in bus connections Illustration 4. Types of I/O Buses To learn about input output path in motherboard To be able to identify the features in System 6. Resolving Resource Conflicts To find out the conflicts in motherboard To be able to debug the errors in processor Troubleshooting Techniques To distinguish the difference between ROM and DRAM Cache Memory, SD RAM, DDR Cache Memory, SD RAM, DDR To recall all the types and methods with PPT Illustration Lecture To learn about input output path in motherboard Lecture To be able to debug the errors in processor Discussion Lecture, To distinguish the difference between ROM and DRAM Lecture, To be able to identify the different Lecture, Lecture

				system	Illustration	Formative
	2.	BIOS Hardware/Software	1	To distinguish the difference between	Lecture with PPT	Assessment
		naidwaie/Soitwaie		Hardware/Software	Illustration	
	4. Motherboard R BIOS, Upgrad the BIOS		2	To understand the format for memory and upgrading	Lecture with PPT Illustration	
	5.	Preboot Environment, CMOS Setup Specifications	2	To understand the platform and setup operations	Lecture with PPT Illustration	
	6.	Plug and Play BIOS, BIOS Error Messages	2	To be able to know about the basic error messages	Lecture	
V	Syster	m Assembling and Ma			1	
	1.	System Assembly	1	To understand language of the system	Lecture with PPT Illustration	Short test Formative
	2.	Motherboard Installation – Troubleshooting New Installations	2	To know the installing process of motherboard	Lecture with Illustration	Assessment
	3.	Installing the Operating Systems	1	To know the installing process of operating systems	Lecture with PPT Illustration	
	4.	PC Diagnostics – Diagnostics Software - PC Maintenance Tools	2	To develop and maintain the system using PC tools	Lecture with PPT Illustration	
	5.	Preventive Maintenance	1	To be able to know how to prevent the system from virus	Lecture with PPT Illustration Videos	
	<u> </u>				v Iucus	1

Course Instructor: V. Abisha HOD: Sr. Jothi Antony

Semester: II

Name of the Course: Internet and its Applications

Subject Code: SNM172

Unit	Modu	ule	Topics	Lectu	ire	Learning Outcome	Pedagogy	Assessment/
			•	hou	rs			Evaluation
Ι	Introd	luctio	on to Computers l	Progra				
	1.	 Introduction to Computers Programming Language 		1	d p	Fo understand about different levels in programming anguages	Lecture	Evaluation through: short test
	2.		tory of Internet	1]	Γο understand the nistory of computers	Lecture	Multiple
	3.	Wie	tory of World de Web , Micro tware	2	Ţ	Fo understand about WWW and the Microsoftwares	Lecture	choice questions
	4.	Per	sonal Computers	1		Fo know about PC and here parts	Lecture	Formative
	5.	.NE	ET , Java	2		Fo generate an idea about .Net and Java	Lecture	Assessment
	6.	We	b Resources	1		Γo understand about he resources of web	Lecture	
II	Web E	Brow	sers					
	1.	We	b Browsers	2		understand about b browsers	Lecture with e-resources	Short test
	2.	Inte	ernet Explorer	1		understand about ternet explorer	Lecture	Quiz Formative
	3.	Inte	ernet ,Features Internet Colorer 6 For Ement	3	con	o understand about the nnections of Internet d internet explore's atures	Lecture	Assessment
	4.	Inte hel ₁	erching the ernet, Online o and tutorials	2	to	understand about how search in internet	Lecture using online resources	
	5.		e Transmission tocol (FTP),	2	To FT	gain knowledge about P	Lecture	

		Browser Settings					
III	Electro	onic mail					
	1.	Electronic mail	1	To kr	now about e-mail	Lecture, Illustration	Short test
	2.	Creating an E-mail ID	2	To be	e able to create emails	Lecture, Illustration	Formative
	3.	Sending and Receiving Mails , Attaching a File	3	Recei	e able to Send and ive Mails and hing a File into it	Lecture and ppt illustrations	Assessment
	4.	Instance Messaging	2	_	e able to message	Lecture	
	5.	Other Web Browsers	2	To ur	nderstand about Other Browsers	Lecture with PPT Illustration	
IV	Introd	uction to HTML	•	•		,	
	1.	Introduction to HTML: Headers	2	To uno	derstand Introduction ML	Lecture	Short test
	2.	Linkers, Images	2	To une	derstand about linkers nages	Lecture	Assignment on category
	3.	Special Characters and Line Breaks	3		derstand about al Characters and Line s	Lecture	of functions Formative
	4.	Lists	2	To de	velop List	Lecture with PPT Illustration	Assessment
	5.	Simple HTML Programs	1	To cre	eate simple HTML	Lecture	
V	Tables	and Forms					
	1.	Tables and Forms		2	To introduce about tables and forms	Lecture,	Short test
	2.	Creating a Table		2	To be able to Create a Form	Lecture with PPT Illustration	Formative Assessment

3.	Formatting a Form	2	To be able to	Lecture,	
			Format a Form		
				Discussion	
4.	Frames	2	To be able to define	Lecture,	
			Frames		

Course Instructor: P. Jasmine Lizy HOD: Sr. Jothi Antony

Semester: IV

Name of the Course: Web Programming Subject Code: SC1741 Teaching Plan

Unit	Modul	le	Topics	Lectu	re	Learning Outcome	Pedagogy		ssessment/
				hour				F	Evaluation
I	ASP.Ne		5 Essentials and	Web 1		ms: Standard Contro]		
	1.					understand the atures in ASP.Net	Lecture with PPT		Evaluation through:
	2.	Cy Ov Vi	ne ASP.Net Life ycle and verview of sual Studio	2	cy ov	o understand the life cle of Asp.Net and erview of visual idio 2008	Lecture with PPT		short test Multiple choice
	3.	Ex sar an sar	exploring a mple ASP.Net d Creating a mple ASP.Net ebsite.	1		be able to create a ebsite in Asp.Net	Illustration		questions Formative Assessment
	4.	Co Bu	ne Label ontrol, The utton Control d The Textbox	2	we tex	be able to create a ebsite using label, atbox and button ntrols.	Lecture, Demonstratio Illustration	n,	
	5.	The Hidden Field Control and File Upload Control		1	we up	be able to create a ebsite using File load and hidden field ntrol.	Lecture, Demonstratio Illustration	n,	
	6.	Co Im	ne Image ontrol and The nage Map ontrol	1	im co To ho	be able to display an age using image ntrol. be able to create tspot using agemap control.	Lecture, Demonstratio Illustration	'n,	

	7	The ListBox Control and The Drop-Down List Control	1	To be able to display a website with listbox and drop-down list control	Lecture, Demonstration	on,
	8	The Checkbox	1	To be able to display a	Lecture,	
		Control and The Radio Button Control	1	website with checkbox and radio button control.	Demonstration Illustration	on,
	9	User Controls and Custom Controls	1	To understand about user and custom	Lecture,	
				control.	Demonstration	on,
					Illustration	
	10	Working with User Control and Working with	2	To be able to display a website with user and custom controls.	Lecture, PPT,	
		Custom Controls			Illustration	
II	Navig	ation Control and Va	alidatio	on Control	1	-
	1.	The TreeView Control, Creating the TreeView Control and	4	To be able to create a hierarchical tree using TreeView Control.	Lecture with PPT Illustration	Short test Quiz
		Generating TreeView form a Database				Formative Assessment
	2.	Using the Menu Class, The Menu Control, Creating Static Menus and Creating Dynamic Menus.	3	To be able to create a hierarchical tree using menu Control. To be able to create static menu and dynamic menu in Asp.Net.	Lecture, Illustration	
	3.	Introduction for validation Control, The Required Field Validation Control and The Range Validator Control	2	To analyze the various validation control. To be able to create programs using validation controls.	Lecture, Illustration Discussion	
	4.	The Compare Validator Control,	3	To analyze the various validation control.	Lecture,	

Validator Control programs using	
varidator Control programs using	
and The Validation validation controls. Discussion	
Summary Control	
III Working with Database Controls and Login Controls	
1. The Grid View 1 To be able to define Lecture, Short tes	t
Control and The grid view and data list	
Data List Control control. PPT,	
To be able to display Formativ	
contents in grid view Illustration Assessment and data list control.	ent
and data list control.	
2. The Details View 3 To be able to define Lecture,	
Control, The Form details view, list view	
View Control, The and form view control. Illustration	
List View Control To be able to display	
and The Repeater contents in these	
Control controls.	
2 The Cal Date 1 To be able to greate a Leature	
3. The Sql Data 1 To be able to create a Lecture, database in SQL Server	
and link it with grid PPT,	
view, data list, details	
view etc., controls and Illustration	
display contents.	
4. The Access Data 3 To be able to create a Lecture,	
Source Control and database in SQL	
The Object Data Server, MS Access, PPT,	
Source Control, XML and link it with grid view, data list, Illustration	
Control details view etc.,	
controls and display Discussion	
contents.	
5. The Login Control, 4 To be able to Lecture,	
The Login View implement	
Control, authentication and PPT,	
The Login Status authorization of users Control, The Login logging on to a website. Illustration	
Control, The Login logging on to a website. Illustration Name Control and	
The Password	
Recovery Control	
IV Introducing C# 2008 and Namespace, Classes, Objects, Structs	
1. Need of C#, C# 2 To be able to say the use Lecture	
Preprocessor of C#, preprocessor Short tes	t

	2.	Directives, Ne Features of 20 and Creating Simple C# 200 Console Application Identifiers And Keywords, Da Types	008 A 008 d	2	directives used in C#. To be able to write a program in C#. To be able to define identifiers, keywords and data types used in C#.	Lecture with PPT Discussion	Assignment on data types, variables Formative
	3.	Variables and Constants, Expressions and Operators		2	To be able to define variables, constants, Operators used in C#.	Lecture with PPT Discussion	Assessment
	4.	Namespaces, Classes and Objects, Constructors a Destructors	and	2	To be able to define namespace, class and objects. To develop programs using constructors and destructors.	Lecture with PPT Illustration	
	5.	Static Classes and Static Cla Members, Properties, Indexers and Structs		4	To be able to define static class, static class members, indexers and structs.	Lecture	
V		ct Oriented Pro otional Handlir		nming	, Pointers, Delegates and E	vents , Flow C	control and
	1.	Encapsulati on, Inheritance	3	enc To	be able to define apsulation and inheritance. be able to write programs ng inheritance concept.	Lecture, Illustration, Discussion	Short test
	2.	Polymorphi sm, Abstraction and Interfaces	3	poly	be able to define morphism, abstraction and erfaces.	Lecture with PPT Illustration	Formative Assessment
	3.	Control Flow statements	3	proj imp	analyze the various gramming constructs and blement it to perform cific task	Lecture, PPT, Discussion	
	4.	Exceptional handling	2	To han	be able to define exception adling and write program ng it.	Lecture, Discussion	

Course Instructor: J. Anto Hepzie Bai HOD: Sr. Jothi Antony

Semester: IV

Name of the Course: RDBMS with Oracle

Course Code: SC1742

Unit	Modu	le Topics	Lectur	J	Pedagogy	Assessment/
			hours			Evaluation
I		luction to the Relational	Model, 8			
	1.	, 3		To understand	Lecture	Evaluation
		Applications, View of		about database		through:
		Data				short test
	2.	Database Languages,	2	To understand the	Lecture	
		Relational Databases		Relational		
			_	Databases		Multiple
	3.	Structure of Relational	3	To understand	Lecture	choice
		Database, Database		Database Schema		questions
		Schema, Keys,				
		Schema Diagrams	_			<u>.</u>
	4.	Set Operations,	2	To know about	Lecture	Formative
		Aggregate Functions		SQL		Assessment
				_		<u> </u>
	5.	The Entity-	4	To generate an	Lecture	
		Relationship Model,		idea about		
		Constraints, Entity-		Database Design		
		Relationship				
		Diagrams.				<u> </u>
	6.	First Normalization	3	To understand	Lecture	
		Form, Second		about the		
		Normalization Form,		Normalization		
		Third Normalization.		Form		
II		asic Parts of Speech in S				
	1.	Creating the	3	To understand	Lecture	Short test
		Newspaper Table,		about The Basic	using	
		Select, from, where,		Parts of Speech in	online	
		and order by, Logic and		SQL	resources	Quiz
		Value				
	2.	Data types	2	To understand	Lecture	Formative
				about Data types		Assessment
	2	<i>P</i> (!			-	_
	3. Define String,		3	To understand	Lecture	
		Notation,		about the String,		
		Concatenation		Notation		
	4	G 15 ~ .		,Concatenation	-	-
<u> </u>	4.	Cut and Paste Strings	1	To understand	Lecture	

	5.	Order by and where with String Functions	1	about Cut and Paste Strings To gain knowledge about Order by and where with	using online resources	
				String Functions		
III	Playi	ng The Numbers, Dates: '	Then, N	ow, and the Differen	ce:	
	1.	The Three Classes of Number Functions, Notation	2	To know about Number Functions	Lecture, Illustration	Short test
	2.	Single, Value Functions, Group, Value Functions, List Functions	2	To be able to create Group Value Functions	Lecture, Illustration	Formative Assessment
	3.	Finding Rows with MAX or MIN, Precedence and Parentheses.	2	To be able to Finding Rows with MAX or MIN	Lecture and ppt illustrations	
	4.	Date Arithmetic, ROUND and TRUNC in Date Calculations, TO_DATE and TO_CHAR Formatting, Dates in where Clauses, Using the EXTRACT Function, Using the TIMESTAMP Data Types.	4	To be able to know about EXTRACT Function	Lecture	
	5.	The Use of Group by and Having, Views of Groups	2	To understand about Grouping Things Together	Lecture with PPT Illustration	
IV		ndent Queries, Changing	Data, C	creating, Dropping, a	nd Altering	Γables and
		s, PL/SQL		Γ= -	Γ_	
	1.	Advanced Subqueries	2	To understand Advanced Subqueries	Lecture	Short test
	2.	Outer Joins, NATURAL and INNER Joins, UNION, INTERSECT, and MINUS.	2	To understand about Outer Joins	Lecture	Assignment on category of functions

	4.	Insert, Update, Merge, and Delete, Insert, Rollback, Commit, and Autocommit, Multitable Inserts, Delete, Update, Using the Merge Command. Creating a Table, Dropping Tables, Altering Tables, Creating a View, Creating a Table from a Table, Creating an Index, Organized Table, Using	2	To understand about Multitable Inserts To develop Creating, Dropping, and Altering Tables and Views		Lecture Lecture with PPT Illustration	Formative Assessment
	5.	Partitioned Tables. PL / SQL Overview, Declarations Section, Executable Commands Section, Exception Handling Section	2	To create idea of PL / SQL Overview		Lecture	
V	Trigg	ers, Procedures, Function	ns, and	l Pac		,	
	1.	Required System, Privileges, Required Table Privileges, Types of Triggers			To introduce about Required System Privileges	Lecture,	Short test
	2.	Trigger Syntax, Enabling and Disabling Triggers, Replacing Triggers, Dropping Triggers			To be able to Create a Trigger	Lecture with PPT Illustration	Formative Assessment
	3.	Required System Privileges, Required Table Privileges			To be able to Format a Procedures, Functions, and Packages	Lecture, Discussion	
	4.	Procedures VS Functions, Procedures VS Packages, Create Procedure Syntax, Create Function Syntax, Create Package Syntax			To be able to define procedures	Lecture,	
	5	Viewing Source Code for Procedural Objects,		4	To be able to define Views	Lecture	Formative Assessment

Compiling Procedures,		
Functions, and Packages,		
Replacing Procedures,		
Functions, and Packages,		
Dropping Procedures,		
Functions, and Packages.		

Course Instructor: M.Nithila HOD: Sr. Jothi Antony

Semester: IV

Name of the Course: System Analysis and Design

Subject Code: SC1743 Teaching Plan

Unit	Section		Topics	Lecture hours		Learning Outcome	Pedagogy	Assessment/ Evaluation
I	Introd	luctio	on to C programming	nour		Outcome		Little
	1.	Det	Finition of system, ed for system analysis.	2	sy	o understand vstem and eed for it	Lecture	Evaluation through: short test
	2.	Typical Information Systems: Introduction to typical information systems - Human resource system		4	To ab In	o understand bout Typical aformation ystems	Lecture	Multiple choice questions
	3.	Sys con Acc	stomer or Client stem - Inventory strol system - counting system - rketing system	3	di	o understand fferent /stems	Lecture	Formative Assessment
	4.	Problem Solving Steps: The linear cycle.		3	pı	o know about roblem solving eps	Lecture with PPT Illustration	
	5.			2	ab w ga	o understand bout the frame ork for athering formation	Lecture with PPT	
	6.	Sea	rch procedures	2	T	o be able to	Lecture	

				know about	with PPT	
				different Search	Illustration	
				procedures		
II		ng a Project	<u> </u>	T	T -	Γ.,
	1.	Starting a Project:	5	To understand	Lecture	Short test
		Setting the project goal		about Setting the project goal	with PPT Illustration	
				project goar	musuation	Quiz
	2.	Generating the broad	2	To develop the	Lecture,	Quiz
		alternative solution		broad alternative	Lecture,	Formative
				solution	Illustration	Assessment
	3.	Economic feasibility	2	To analyze about	Lecture,	
				Economic		
				feasibility	Illustration	
	4.	Data Flavy Diagrams	5	To develop DED	Lecture	
	4.	Data Flow Diagram: Data flow symbols,)	To develop DFD	Lecture	
		Describing systems by				
		data flow diagram				
	5.	Describing Data:	6	To describe data	Lecture	
		Conceptual modelling			with PPT	
		Entity relationship			Illustration	
		analysis, E_R diagram				
***	4 7	and DFDs.				
III		ced Modelling Methods	3	To know about	Lastres	Chart toot
	1.	Some advanced topics on the entity relationship	3	Alternative	Lecture	Short test
		model, Alternative		modelling methods		
		modelling methods		modelling methods		Formative
	2.	Documentation	2	To understand	Lecture,	Assessment
				about	·	
				documentation	demonstrati	
					on	
	3.	Project dictionary	3	To be able to use	Lecture	
		entries, Using the		different Project		
	4.	project dictionary Designing a New	2	dictionary entries To be able to	Lecture	
	4.	System: Problem	2	Design a New	Lecture	
		solving and design		System		
	5.	Problem solving with	3	To understand	Lecture	
		structured system		Designing the new	with PPT	
		techniques - Designing		logical model	Illustration	
		the new logical model				
IV	Relati	onal Analysis				

	1.	Introduction - Structured system analysis	2	Stru	understand actured system lysis	Lecture	Short test
	2.	Database Design: Conversion to logical record structure	2		acquire the ls to design	Lecture with PPT Illustration Discussion	Assignment on category of functions
	3.	Completing the database specification - Conversion to a set of files - Conversion to DBMS structure.	2	skil the	acquire the ls to convert files to DBMS acture	Lecture	Formative Assessment
	4.	Program Design: Steps in program design - Structure	2		develop grams	Lecture	
	5.	Conversion from DFD to structured char	1	Cor	be able to nvert from D to structured r	Lecture	
V	Pract	ical Design Methodologies					
	1.	Structure System analysis	2	2	To be able to define Structure System analysis	Lecture,	Short test
	2.	HIPO - SSADM.	4	1	To understand HIPO - SSADM	Lecture with PPT Illustration	Formative Assessment
	3.	Project Management: Choosing project management entities, Organizing project management entities, Tools used in project	4	ļ	To analyze how to manage project	Lecture, Discussion	
	4.	Reviewing project progress - Project reviews and walkthroughs.	2	2	To be able to review the project	Lecture, Discussion	

Course Instructor: P.Jasmine Lizy HOD: Sr. Jothi Antony