#### DEPARTMENT OF COMPUTER SCIENCE

### **B.Sc. Computer Science**

#### Courses Offered 2017 - 2020

Seme ster	Course	Subject Code	Paper	Hours / Week	Credit
	Part I		Language :		
		TL1711	Tamil	6	3
		FL1711	French		
	Part II	GE1714	General English	6	3
		SC1711	Major Core I: Programming in C	4	4
Ι	Part III	SC17P1	Practical I: Programming in C Lab	4	2
		SA1711	Allied I: Theory : Digital Computer Fundamentals	4	4
		AEC171	Ability Enhancement Compulsory Course (AECC) : English Communication	2	2
	Part IV	SNM171	Non Major Elective Course(NMEC): CorelDraw	4	2
		VEC172	Foundation Course I: Values for Life	-	-
	Part V	SDP172	Skill Development Programme (SDP): Certificate Course	-	-
	Turt	STP174	Student Training Programme (STP): Clubs & Committees / NSS	-	-
	Part I	TL1721 FL1721	Language : Tamil French	6	3
	Part II	GE1724	General English	6	3
II		SC1721	Major Core II: Object Oriented Programming in C++	4	4
	Part III	SC17P2	Practical II: Programming in C++ Lab	4	2
		SA1721	Allied II: Theory: PC Hardware and Troubleshooting	4	4
		AEC172	Ability Enhancement Compulsory Course (AECC): Environmental Studies	2	2
	Part IV	SNM172	Non Major Elective Course (NMEC): Internet and its Applications	4	2
		VEC172	Foundation Course I: Values for Life	-	1
	Part V	SDP172	Skill Development Programme (SDP): Certificate Course	-	1
		STP174	Student Training Programme (STP): Clubs & Committees / NSS	-	_
		SC1731	Major Core III: Programming in Java	5	4

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		SC1732	Major Core IV: Microprocessor and Assembly Language Programming	5	4
	Part III	SC1733	Major Core V: Data Structures and Algorithms	5	4
		SC17P3	Practical III: Programming in Java Lab	4	2
		SC17P4	Practical IV: Data Structure using C++ Lab	4	2
III		SA1731	Allied III: Theory: Numerical and Statistical Methods	5	4
		SBC173 /	Skill Based Course (SBC): Yoga / Computer	2	2
	Part IV	SBC1737 SBC174	Literacy	2	2
	FaltIV	VEC174	Foundation Course II: Personality Development	-	-
	Part V	STP174	Student Training Programme (STP): Clubs & Committees / NSS	-	-
		SLP173	Service Learning Programme (SLP): Extension Activity (RUN)	-	1
		SC1741	Major Core VI: Web Programming	5	4
		SC1742	Major Core VII: RDBMS with Oracle	5	4
IV	Part III	SC1743 SC1744 SC1745	Elective I: (a) System Analysis and Design (b) Software Engineering (c) Object Oriented Analysis and Design	5	5
		SC17P5	Practical V: Web Programming Lab	4	2
		SC17P6	Practical VI: Oracle Lab	4	2
		SA1741	Allied IV: Theory: Operations Research	5	4
	Part IV	SBC173 / SBC174	Skill Based Course (SBC): Yoga / Computer Literacy	2	2
		VEC174	Foundation Course II: Personality Development	-	1
	Part V	STP174	Student Training Programme (STP): Clubs & Committees / NSS	-	1
		SC1751	Major Core VIII: Web Technology	6	5
V		SC1752	Major Core IX: Operating Systems	5	5
-			Elective II	5	5
		SC1753	(a) Data Communication and Computer Networks		
	Part III	SC1754	(b) Data Mining		
		SC1755	(c) Image Processing		

		SC17P7	Practical VII: Web Technology Lab	6	3
		SC17PR	Project	6	5
	Part IV	SSK175	Skill Based Course (*SBC): Photoshop	2	2
		HRE175	Foundation Course III: Human Rights Education (HRE)	-	1
		SC1761	Major Core X: Android Application Development	5	5
		SC1762	Major Core XI: Computer Graphics and Multimedia	5	5
	Part III	SC1763	Major Core XII: UNIX and Shell Programming	5	5
			Elective III	5	5
VI		SC1764	(a) Mobile Computing		
		SC1765	(b) Client / Server Technology		
		SC1766	(c) Artificial Intelligence and Expert System		
		SC17P8	Practical VIII: Android Application Development Lab	4	2
		SC17P9	Practical IX: Computer Graphics and Multimedia Lab	4	2
	Part IV	SSK176	Skill Based Course (*SBC): Dreamweaver CS4	2	2
		WSC176	Foundation Course IV: Women's Studies (WS)	-	1
			TOTAL	180	140+3

### **B.Sc. Programme Outcomes (POs)**

PO No.	Upon completion of B.Sc. Degree Programme, the graduates will be able to :
PO - 1	Apply the acquired scientific knowledge to face day to day needs
PO - 2	Create innovative ideas through laboratory experiments.
PO - 3	Carry out field works and projects independently and in collaboration with institutions and industries
PO - 4	Reflect upon green initiatives and take responsible steps to build a sustainable environment.
PO - 5	Face challenging competitive examinations that offer rewarding careers in science and education.
PO - 6	Impart communicative skills and ethical values
PO - 7	Equip students with hands on training through various courses to enhance entrepreneurship skills

#### PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSOs	Upon completion of B.Sc. Degree Programme, the graduates of Computer Science will be able to :	РО	
PSO - 1	Understand the principles and working of the hardware and software aspects of the Computer system	1	
<b>PSO - 2</b>	Acquire the knowledge of data which leads them as data analyst	1	
PSO - 3	Develop sound knowledge base and skills sets to develop and expand professional careers in field related to human - computer interaction		
PSO - 4	An ability to design Web Sites, Mobile Applications and Internet of things	2	
<b>PSO - 5</b>	Provide computational solution to complex manual problems	7	
PSO - 6	Communicate effectively to improve their competency skills to solve real time problems.	6	
PSO - 7	Excel in the fields of Information Technology and its Enabled services, Government and Private sectors, Teaching and Research.	5	
PSO - 8	Employ modern computing languages and applications for their successful career, to become an entrepreneur and a relish for higher studies.	7	
PSO - 9	Work effectively in teams to design and implement solutions to computational problems	6	
PSO - 10	Develop entrepreneurial skills, empowered according to the professional requirement and become self - dependent.	7	
PSO - 11	Acquire independent thinking, possess problem - solving skills, and excel in the capability for self - learning to allow for life - long learning.	3	
PSO - 12	Apply knowledge of principles, concepts in specific subject areas to analyze their local and global impact	4	

#### **Course Outcomes**

Semester	: I
Name of the Course	: Programming in C
Subject code	: SC1711

СО	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Recall the basic structure and key elements.	PSO - 1	R
CO - 2	Understand the fundamentals of C programming	PSO - 2	U
CO - 3	Analyze the various programming constructs and implement it to perform specific task.	PSO - 3	AN,AP
CO - 4	Design and develop modular programming skills	PSO - 3	С

Semester Name of the Course Subject code

: I

**Practical I** 

**Major Core I** 

Name Subjec	of the Course : Programming in C La t code : SC17P1	b	
CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Understand and solve simple physical problems	PSO - 6	U
CO - 2	Solve mathematical equations using C programs	PSO - 9	AP
CO - 3	Write simple C programs to define the key concepts	PSO - 3	R
	1		
CO - 4	Develop simple C programs	PSO - 12	С

## Semester

: I

#### **Allied - Theory**

Name of the Course Subject code

: Digital Computer Fundamentals : SA1711

СО	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Understand the basic architecture of Computer system	PSO - 1	U
CO - 2	Understand the various Input, Output Devices	PSO - 9	U
CO - 3	Perform conversions among different number systems	PSO - 12	AP
CO - 4	Became familiar with basic logic gates and understand Boolean algebra and simplify simple Boolean functions by using basic Boolean properties	PSO - 3	AN,U
CO - 5	Design of sequential Circuits such as Flip - Flops, Registers, and Counters.	PSO - 7	С
CO - 6	Design of combinational circuits such as MUX, DEMUX, Encoder and Decoder etc.	PSO - 11	AP

Semester	r : I		NMEC
Name of	the Course : Corel Draw		
Subject	code : SNM171		
CO	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Create Professional illustration for designing magazines, Company logo, Brochures, Book Cover, Visiting Card	PSO - 10	AP
CO - 2	Develop images of the highest Quality	PSO - 3	AN
CO - 3	Illustrate Sufficient knowledge about Corel Basic	PSO - 3	AP
CO - 4	Understand tools for creating, drawing, text manipulation and output options for printing.	PSO - 10	R
CO - 5	Importing, Exporting, Printing, Applying	PSO - 11	С

# Semester: IIMajor Core IIName of the Course: Object Oriented Programming in C++Subject code: SC1721

Effects used in order to manipulate Images.

СО	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Outline the basic concepts of OOPs	PSO - 1	U
CO - 2	List out the tokens used in C++ programming language	PSO - 1	R
CO - 3	Design OOPs concepts through C++ programs for solving mathematical problems.	PSO - 3	AP
CO - 4	Build knowledge about important concepts like functions, classes and constructors.	PSO - 5	AN
CO - 5	Develop skill to make use of arrays and pointers in C++ programs.	PSO - 3	С
CO - 6	Make use of file concept to store and edit data through C++ programs.	PSO - 5	E

Semester		: 11	I	Practica	l II
Name of the Course		: Programming in C++ Lab			
Subject code		: SC17P2			
CO	Upon completi	on of this course the students will	PSO	CL	I

	be able to :	addressed	
CO - 1	Understand and solve simple physical problems	PSO - 5	U
CO - 2	Solve mathematical equations using C programs	PSO - 2	AP
CO - 3	Write simple C programs to define the key concepts	PSO - 2	R
CO - 4	Develop simple C programs	PSO - 5	С

Semester

: II

**Allied - Theory** 

Name of the Course : PC Hardware and Troubleshooting

Subject code : SA1721

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Understand processor specifications ,processor	PSO - 2	U
	upgrades, processor troubleshooting techniques		
CO - 2	Understand the features & functions of	PSO - 7	U
	motherboard		
CO - 3	Differentiate the internal memory storage	PSO - 3	U
CO - 4	Understand the concept of BIOS	PSO - 4	U
CO - 5	Assemble and maintain the system	PSO - 10	AP

Semester

: II

NMEC

# Name of the Course: Internet and its ApplicationsSubject code: SNM172

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Understand the basic of computer system	PSO - 1	U
CO - 2	Understand the significance of internet	PSO - 1	U
	applications		
CO - 3	Create own email ID and able to work with it.	PSO - 3	С
CO - 4	Create simple HTML programs	PSO - 4	С

# Semester: IIIName of the Course: Programming in JavaSubject code: SC1731

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Define the Concept of OOP	PSO - 2	R
CO - 2	Understand the Structure of the Java	PSO - 1	U
	programming Language		
CO - 3	Implement various Errors handling technique	PSO - 12	А
	using Exception Handling to solve complicated		
	problem.		
CO - 4	Understand the Applet program to display	PSO - 5	U
	window based Activities.		
CO - 5	Create Java programs that solve Simple	PSO - 6	С
	business Problems		

Semester: IIIMajor Core IVName of the Course: Microprocessor and Assembly Language<br/>ProgrammingSubject code: SC1732

СО	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	To understand basic architecture of 8 bit	PSO - 9	
	microprocessor		R
CO - 2	Understand and realize the Interfacing of	PSO - 2	
	memory & various I/O devices with 8085		U
	microprocessor		
CO - 3	Understand and classify the instruction set of	PSO - 6	
	8085 microprocessor and distinguish the use of		AP
	different instructions and apply it in assembly		
	language programming.		
CO - 4	Understand the difference between 8085 and	PSO - 12	
	advanced microprocessor.		U

#### Semester : III

## Name of the Course: Data Structures and AlgorithmsSubject Code: SC1733

СО	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Define basic static and dynamic data structures	PSO - 2	
	and relevant standard algorithm for them		R
CO - 2	Demonstrate advantages and disadvantages of	PSO - 2	U
	specific algorithms and data structures		
CO - 3	Select basic data structures and algorithms for	PSO - 11	AP
	simple programs		
CO - 4	Determine and demonstrate bugs in program,	PSO - 10	
	recognizes needed basic operations with data		Е
	structures		
CO - 5	Formulate new solutions for programming	PSO - 5	
	problems.		С
CO - 6	Analyze algorithms and data structures in terms	PSO - 12	AN
	of time and space complexity of basic		
	operations		

#### Semester Name of the Course

#### : Programming in Java Lab : SC17P3

: III

#### **Practical III**

#### Subject code Upon completion of this course the students PSO CO CL will be able to : addressed CO -1 Create a java program to calculate simple PSO - 5 С mathematical problems. Create a java program using Error handling CO - 2 **PSO - 2** С technique Create Applet program to implement window CO - 3 PSO - 3 С based Activities **Practical IV** Semester : III

Semester Name of the Course

: Data Structure Using C++ Lab

#### Subject Code : SC17P4

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Define basic static and dynamic data structures and relevant standard algorithms for them: stack, queue, dynamically linked lists, trees,	PSO - 5	AP
	graphs, sorting algorithms.		
CO - 2	Demonstrate advantages and disadvantages of specific algorithms and data structures	PSO - 2	AP
CO - 3	Select basic data structures and algorithms for autonomous realization of simple programs or program parts	PSO - 11	AP

#### Semester : III

#### **Allied - Theory**

#### Name of the Course : Numerical and Statistical Methods

#### Subject code : SA1731

СО	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Solve an algebraic and Transcendental Equations using an appropriate numerical methods	PSO - 1	С
CO - 2	Find an error analysis for a given numerical method	PSO - 6	R
CO - 3	Solve a simultaneous equation using an appropriate numerical method	PSO - 5	С
CO - 4	Find inverse of a matrix using Back Substitution method	PSO - 5	R
CO - 5	Find a polynomial using interpolation methods	PSO - 6	R
CO - 6	Determine correlation and rank correlation coefficient between two variables	PSO - 9	E
CO - 7	Find a regression equations using the given data	PSO - 9	R
CO - 8	Acquire problem solving techniques and Baye's Theorem to solve real world problems	PSO - 11	AP

#### Semester

#### : IV

: SC1741

#### **Major Core VI**

Name of the Course

#### Subject code

СО	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Understand the fundamentals of Web application design, development, and deployment using .NET framework.	PSO - 1	R
CO - 2	Develop data driven Web Applications.	PSO - 3	U
CO - 3	Use the Visual Studio IDE to create and debug application and Projects.	PSO - 5	AP
CO - 4	Understand the fundamentals of developing modular application by using object - oriented methodologies.	PSO - 10	U
CO - 5	Create Windows Forms applications in C# by using the .NET Framework.	PSO - 11	AP
CO - 6	Develop web applications using server - side technologies (ASP.NET, ADO.NET).	PSO - 4	AP

: Web Programming

Semester	: IV	Major Core VII
Name of the Course	: RDBMS with Oracle	
Subject code	: SC1742	

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Describe basic concept of data base System	PSO - 2	U
CO - 2	Define the logical design of database including	PSO - 2	R
	E - R Model and Normalization approach		
CO - 3	Understand and apply the basic of SQL and	PSO - 9	U
	Construct queries using SQL		
CO - 4	Apply RDBMS for industry Application	PSO - 9	А
CO - 5	Design and implement a database schema for a	PSO - 5	С
	given problem domain.		

: System Analysis and Design

: IV

**Major - Elective I** 

Name of the Course

Semester

Subject o	code : SC1743		
CO	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Define system and phases of the system development life cycle.	PSO - 1	R
CO - 2	Explain the principles, methods and techniques of system development.	PSO - 6	U
CO - 3	Analyze and model organizational work.	PSO - 3	AN
CO - 4	Develop system project documentation	PSO - 3	С
CO - 5	Estimate the budget needed to complete a project	PSO - 11	E
CO - 6	Design and develop proposed system that assists programmers in implementing the systems.	PSO - 7	С
Somostor	• • W	T	Floativo I

Semester

: IV

**Elective I** 

Name of the Course

Subject code

: SC1744

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Design and conduct experiments, as well as to	PSO - 9	С
	analyze and interpret data		
CO - 2	Identify, formulate and solve engineering	PSO - 9	AP
	problems		
CO - 3	Analyze design, verify, validate, implement,	PSO - 5	AP
	apply and maintain software systems		
CO - 4	Understand the professional and ethical	PSO - 10	U
	responsibility		

: Software Engineering

Semester	: IV	<b>Elective I</b>
Name of the Course	: Object Oriented	Analysis and Design
Subject code	: SC1745	

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Define the Concept of Object - Oriented	PSO - 2	R
	method for analysis and design.		
CO - 2	Understand the Key Principle in OO analysis,	PSO - 9	U
	design ,and development		
CO - 3	Describe Object Oriented Analysis and Design	PSO - 6	A
	concepts and apply them to solve problems.		

Semester

: IV

**Practical V** 

Name of the Course : Web Programming Lab Subject code

: SC17P5

LO	Upon completion of this course the students will be able to :	PSO addressed	CL
LO - 1	Create fully functional data driven applications using ADO.Net	PSO - 4	С
LO - 2	Create dynamic Web applications that interact with a database using server - side programming.	PSO - 2	C
LO - 3	Recognize and evaluate website organizational structure and design elements using Asp.Net.	PSO - 11	R
LO - 4	Develop Windows Forms Applications and data driven applications using various controls.	PSO - 10	AP

Semester

**Practical VI** 

Name of the Course : Oracle Lab

Subject code

: SC17P6

: IV

LO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
LO - 1	Understand the logical structure of the RDBMS	PSO - 2	U
LO - 2	Understand How the data will be stored and retrieved	PSO - 2	U
LO - 3	Understand the PL/SQL to do such things as codify your business rule.	PSO - 5	U

Semester	: I V	Allied - Theory
Name of the Course	: Operations Research	

Subject code

#### : SA1741

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Recall the basic structure and key elements.	PSO - 5	R
CO - 2	Understand the fundamentals of Operations	PSO - 12	U
	Research		
CO - 3	Analyze the various problem constructions and	PSO - 9	AN,AP
	implement it to perform specific task.		
CO - 4	Develop Problem solving skills	PSO - 11	C

Semester	: V
Name of the Course	: Web Technology

**Major Core VIII** 

Subject	code
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: SC1751	
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CO	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Develop an ability to design and implement static and dynamic web pages.	PSO - 4	C
CO - 2	Differentiate web applications using client - side (JavaScript, HTML, XML) and server - side technologies (ASP.NET, ADO.NET).	PSO - 7	AP
CO - 3	Define the fundamental ideas and standards underlying Web Service Technology	PSO - 1	U
CO - 4	Apply the knowledge of the internet and related internet concepts that are vital in understanding web application development and analyze the insights of internet programming to implement complete application over the web.	PSO - 11	AP
Somostor	• V	Major	Coro IV

Semester

: V

Major Core IX

Name of the Course : Operating Systems Subject code

: SC1752

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

: V

Semester

**Major - Elective II** 

Name of the Course : Data Communication and Computer Networks

Subject code : SC1753

	Upon completion of this course the students	PSO	CL
CO	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	U
	TCP/IP. Explain the function(s) of each layer.		
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.		

Semester	:	V
Name of the Course	:	Data Mining
Subject code	:	SC1754

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	To expands knowledge and skills gained in	PSO - 2	U
	database management and look in depth at the		
	data mining methods		
CO - 2	Evaluate and implement a wide range of	PSO - 9	AN
	emerging and newly - adopted methodologies		
	and technologies to facilitate the knowledge		
	discovery.		
CO - 3	Discover and measure interesting patterns from	PSO - 11	AP
	different kinds of Databases.		
CO - 4	Discover interesting patterns from large	PSO - 12	U,C,AP,
	amounts of data to analyze and extract patterns		
	to solve problems.		

Semester	: V
Name of the Course	: Image Processing
Subject code	: SC1755

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Recall the basic image related concepts	PSO - 1	R
CO - 2	Interpret image compression, image	PSO - 1	U
	segmentation, representation techniques		
CO - 3	Categorized various compression techniques	PSO - 7	AP
CO - 4	Analyze images in the frequency domain using	PSO - 12	AN
	various transforms.		
CO - 5	Evaluate the techniques for image	PSO - 11	E
	enhancement.		

Major - Elective II

Semester: VPractical VIIName of the Course: Web Technology LabSubject code: SC17P7

CO	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Analyze a web page and identify its elements and attributes using XML.	PSO - 12	AN
CO - 2	Build interactive web page using HTML.	PSO - 4	С
CO - 3	Construct and manipulate PHP applications	PSO - 2	AP
CO - 4	Develop dynamic web pages using client side programming and server side programming.	PSO - 8	С
CO - 5	Identify, formulate and analyze problems as well as identify the computing requirements appropriate to their solutions.	PSO - 7	U
CO - 6	Understand and apply CSS definitions for	PSO - 6	AP
	document Presentation.		

: V

: SSK175

#### Name of the Course : Photoshop

Subject code

Semester

CO	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Understand retouch and repair a scanned photograph.	PSO - 10	AP
CO - 2	Create abilities to use Photoshop that are employable and rewarding.	PSO - 3	С
CO - 3	Understand how to do basic photo repairs and color enhancements techniques.	PSO - 11	AP
CO - 4	Define and apply the basic functions of pixel selection, painting and editing tools	PSO - 5	R
CO - 5	Understand file compression, Import and export files and save files in different formats	PSO - 11	AN
CO - 6	Utilize retouching features to make picture perfect	PSO - 11	С
Compactor	• VI	1	Istan Can

Semester

Subject code

: VI

**Major Core X** 

**SBC** 

Name of the Course : Android Application Development

: SC1761

СО	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Describe the platforms upon which the Android	PSO - 2	U
	OS will run		
CO - 2	Apply the fundamental paradigms and	PSO - 5	AP
	technologies to develop mobile applications		
CO - 3	Create a simple application that runs under the	PSO - 4	С
	Android operating system		
CO - 4	Develop an application that uses multimedia	PSO - 10	С
	under Android operating system		
CO - 5	Implement various methods in Android to	PSO - 9	AP
	create mobile applications for communication		
	network		
Comparter	. 171	Ν.σ. •	Cana VI

Semester

: VI

**Major Core XI** 

Name of the Course

Subject code

: Computer Graphics and Multimedia : SC1762

СО	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Understand fundamental principles of computer graphics	PSO - 12	U
CO - 2	Discuss algorithms for 2D and 3D transformations	PSO - 9	U
CO - 3	Interpret simple problems in the basic representation and handling of multimedia data (images, audio and animation	PSO - 4	AP
CO - 4	Create simple 2D animations, 3D animations	PSO - 5	AP

Name of the Course : UNIX and Shen Frogramming			
Subject o	code : SC1763		
СО	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Identify set of commands in UNIX	PSO - 1	R
CO - 2	Describe the features & functions of an	PSO - 1	U
	operating system.		
CO - 3	Customize environment settings using a text	PSO - 1	U
	editor		
CO - 4	Demonstrate UNIX commands for file handling	PSO - 1	AP
	and process control		
CO - 5	Combine several simple commands in order to	PSO - 1	AP
	produce more powerful operations.		
CO - 6	Utilize system utilities to perform administrative	PSO - 1	AP
	tasks		
CO - 7	Analyze the working of the user defined	PSO - 3	AN
	commands and will be able to change the		
	permissions associated with files.		
CO - 8	Create and manage simple file processing	PSO - 3	С
	operations, organize directory structures with		
	appropriate security		
CO - 9	Create, delete, move and rename files and	PSO - 1	С
	directories		

Semester: VIMName of the Course: UNIX and Shell Programming

Semester

: VI

**Major - Elective III** 

**Major Core XII** 

Name of the Course

Subject code

: SC1764

: Mobile Computing

CO	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Understand the basic concepts and principles in	PSO - 1	U
001	mobile computing	150 1	C
CO - 2	Describe the concepts of Bluetooth, RFID,	PSO - 1	U
	WiMAX		
CO - 3	Acquire and apply the knowledge of GSM and	PSO - 4	U, AP
	GPRS		
CO - 4	Understand the process of CDMA,3G,Wireless	PSO - 4	U
	LAN		
CO - 5	Describe and implementing the security	PSO - 9	AP
	techniques		

Semester	: VI	<b>Elective III</b>
Name of the Course	: Client / Server Technology	
Subject code	: SC1765	

СО	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Create network connectivity with Client/Server	PSO - 8	С
	computing		
CO - 2	Apply the process of communication	PSO - 3	AP
	technology		
CO - 3	Apply the components of Client/Server	PSO - 12	AP
	technology		
CO - 4	Understand the administration and technologies	PSO - 5	U
	of the system		
Semester	: VI	Major	- Elective I

Semester

**Major - Elective III** 

Name of the Course : Artificial Intelligence and Expert System

#### Subject code : SC1766

СО	Upon completion of this course the students will be able to :	PSO addressed	CL
CO - 1	Gives the ability to design and program small expert systems.	PSO - 9	U,C
CO - 2	Learn how to analyze the complexity of a given problem and come with suitable optimizations.	PSO - 2	U
CO - 3	Understand mathematical models such as belief networks and Markov decision processes and apply them to a range of AI problems.	PSO - 6	U,AP
CO - 4	Have a glance at machine learning algorithms and extracting knowledge models from data.	PSO - 12	U

Semester : **IV Practical VIII** : Android Application Development Lab Name of the Course Subject code : SC17P8

Upon completion of this course the students PSO CO CL will be able to : addressed Create application workings with the Activities CO - 1 **PSO - 4** AP and Intents CO - 2 Create application workings with the User **PSO - 8** AP Interface using Views Create application workings with Graphics CO - 3 **PSO - 1** AP Create application workings with Pictures and CO - 4 PSO - 8 AP Menus

## Semester : V1 Practical IX

#### Name of the Course : Computer Graphics and Multimedia Lab

Subject code : SC17P9

СО	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Acquaint with the basic principles of 2D and 3D computer graphics.	PSO - 12	AP
CO - 2	Acquaint with algorithms for rasterisation and clipping of 2D graphic primitives and filling of closed regions.	PSO - 9	AP
CO - 3	Learn algorithms for 2D and 3D transformations, visibility solution, lighting, shading and texturing.	PSO - 8	AP

### Semester : VI

#### SBC

Name of the Course : Dream Weaver CS4

Subject code

## : SSK176

CO	Upon completion of this course the students	PSO	CL
	will be able to :	addressed	
CO - 1	Implement the Knowledge of Web Publishing	PSO - 4	А
CO - 2	Understand HTML and CSS coding for	PSO - 8	U
	Websites.		
CO - 3	Understand the basic Skills needed to create	PSO - 4	U
	your own websites		
CO - 4	Create professional looking website with	PSO - 4	С
	Dreamweaver CS4 collection of tools		