PO	Upon completion of B.C.A Degree programme, the graduates will be		
No.	able to:		
PO-1	Apply knowledge of computing and mathematics appropriate to the discipline.		
PO-2	Analyze a problem, and identify and define the computing requirements		
	appropriate to its solution		
PO-3	Work as teams to build software systems and apply the technologies in various		
	fields of Computer Technology, including Web site development, management,		
	databases, and software engineering techniques.		
PO-4	Use current techniques, skills, and tools necessary for computing practices		
PO-5	Build project work according to time scheduling, cost scheduling and also satisfy		
	customer needs.		

BCA - Programme Outcomes (PO)

Programme Specific Outcomes (PSO)

PSO	Upon completion of B.C.A Degree programme, the graduates	Mapping
No.	will be able to:	
PSO-1	Understand the basic concepts of digital fundamentals, OOP	PO1 & PO2
	concepts, Databases, Microprocessor and assembly languages,	
	web applications, techniques of computer networking and hardware	
	related applications	
PSO-2	Apply standard software engineering and project management	PO2 & PO-
	concepts in software project development using visual	3&PO5
	programming environment for computer technology oriented	
	business applications	
PSO-3	Demonstrate the principles and working of the hardware and	PO1
	software aspects of computer systems.	
PSO-4	Apply general programming knowledge in the field of developing	PO2, PO3 &
	mobile applications	PO4
PSO-5	Interpret technical skills to become entrepreneur	PO2 & PO4

	I SEMESTER				
DSC1	DSC1 PRINCIPLES OF PROGRAMMING IN C				
Hrs /	Week : 4 Hrs / Sem : 60 Hr	rs / Unit : 12	Credits :		
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification		
CO-1	Understand data representation and Data types of the C programming language	PSO1	Understand		
CO-2	Develop and solve problems from description to implementation	PSO1	Create		
CO-3	Understand the basic elements of imperative programming: variables, flow control, functions, and recursion	PSO1	Understand		
CO-4	Develop and use basic data structures: arrays, strings, and linked lists	PSO1	Apply		
CO-5	Make use of tools such as editors, compilers, and debuggers in the process of developing small to medium sized computer programs.	PSO1	Apply		

	I SEMESTER			
DSC 2	DSC 2 FUNDAMENTALS OF COMPUTERS			
Hrs /	Week:4 Hrs / Sem:60	Hrs / Unit : 12	2 Credits :	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Explain the history and development of modern computers	PSO3	Understand	
CO-2	Understand the basics of different peripherals and interfaces.	PSO3	Understand	
CO-3	Apply the basics of operating systems.	PSO3	Apply	
CO-4	Explain basics of database Management system.	PSO1	Understand	
CO-5	Determine the basics of network and multimedia.	PSO3	Evaluate	

Course Outcomes (CO)

I SEMESTER				
AI-1	AI-1 OFFICE AUTOMATION			
Hrs /	Week: 4 Hrs / Sem: 60 Hrs / Un	it:12 (Credits :	
CO	Upon completion of this course, students will be	PSO	Blooms	
No.	able to :	addressed	taxonomy classification	
CO-1	Apply formatting techniques in document.	PSO5	Apply	
CO-2	Construct reference and table of content in documentation.	PSO5	Create	
CO-3	Understand the mail merge concepts	PSO5	Understand	
CO-4	Determine accounting operations and prepare chart in spreadsheets \cdot	PSO5	Evaluate	
CO-5	Understand how to enrich presentations with transition and sound effect.	PSO5	Apply	

I SEMESTER			
DSCP-1 PRINCIPLES OF PROGRAMMING IN C CORE PRACTICAL			
Hrs /	Week :2 Hrs / Sem : 30	Credits	5:
CO	Upon completion of this course, students will be	PSO	Blooms
No.	able to	addressed	taxonomy
			classification
CO-1	Make use of Branching and Looping Statement.	PSO-1	Apply
CO-2	Demonstrate 2-Dimensional arrays and functions in	PSO-1	Understand
	С		
CO-3	Experiment with string and pointers	PSO-1	Apply
CO-4	Make use of typedef and structure pointers	PSO-1	Apply
CO-5	Test various files in C	PSO-1	Create

	I SEMESTER				
AI-P-	1 OFFICE AUTOMATION ALLIE	ED PRACTICAL			
Hrs /	Week : 2 Hrs / Sem : 30		Credit :		
CO	Upon completion of this course, students	PSO addressed	Blooms taxonomy		
No.	will be able to		classification		
CO-1	Make use of spell check and thesaurus	PSO-1	Apply		
CO-2	Demonstrate mail merge a letter to an	PSO-1	Understand		
	address file				
CO-3	Create presentation for a given topic	PSO-1	Create		
CO-4	Experiment with macros	PSO-1	Apply		
CO-5	Show graphs & charts for the given data	PSO-1	Understand		

II SEMESTER				
DSC 3 C++ PROGRAMMING				
Hrs / V	Week:4 Hrs/Sem:60 Hrs/Un	it:12 C	redits :	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Justify the philosophy of object-oriented design and the concepts of encapsulation, abstraction, inheritance, and polymorphism	PSO1	Evaluate	
CO-2	Design, test, and debug simple programs in an object- oriented programming language	PSO1	Create	
CO-3	Define how the class mechanism supports encapsulation and information hiding	PSO1	Remember	
CO-4	Design and test the implementation of "is-a" relationships among objects using a class hierarchy and inheritance.	PSO1	Create	
CO-5	Compare and contrast the notions of overloading and overriding methods in an object-oriented language.	PSO1	Understand	
CO-6	Explain the relationship between the static structure of the class and the dynamic structure of the instances of the class.	PSO1	Understand	
CO-7	Illustrate how iterators access the elements of a container.	PSO1	Understand	

	II SEMESTER			
DSC 4	DIGITAL ELECTRONICS & PRI	NCIPLES		
Hrs /	Week : 4 Hrs / Sem : 60 Hrs / Unit : 1	2 Credits	:	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Simplify Boolean algebraic expressions.	PSO3	Analyze	
CO-2	Show Functions of various logic gates.	PSO3	Understand	
CO-3	Design efficient combinational and sequential logic circuit implementations from functional description of digital systems.	PSO1	Create	
CO-4	Minimize and optimize logic functions using K-maps	PSO1 & PSO3	Create	
CO-5	Compare Functions of various Flipflops, Adders and counters	PSO3	Understand	

II SEMESTER				
AI-2	AI-2 MULTIMEDIA TOOLS			
Hrs /	Week:4 Hrs/Sem:60 Hrs	/ Unit : 12	Credits :	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Understand concepts of multimedia and create animation using macromedia flash	PSO1 & PSO5	Understand, Create	
CO-2	Create their own animation using macromedia tools.	PSO5	Create	
CO-3	Make use of macromedia tools for text editing	PSO5	Apply	
CO-4	Create animation using Shape and motion Tweening	PSO5	Understand, Create	
CO-5	Understand the concept of action script for developing a movie clip	PSO5	Understand, Create	

II SEMESTER				
DSCP	DSCP-2 C++ PROGRAMMING CORE PRACTICAL			
Hrs / Week :2 Hrs / Sem : 30 Credits :			edits :	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Make use of Class, Pointers and Inlin Function	e PSO-1	Apply	
CO-2	Demonstrate Overloading, destructor an multiple inheritance	d PSO-1	Understand	
CO-3	Experiment with operator overloading	PSO-1	Apply	
CO-4	Make use of virtual function	PSO-1	Apply	
CO-5	Test various file concepts	PSO-1	Create	

II SEMESTER				
AI-P-2 MULTIMEDIA TOOL ALLIED PRACTICAL				
Hrs / Week : 2 Hrs / Sem : 30 Credit :			:	
CO No.	Upon completion of this course, students will be able to		PSO addressed	Blooms taxonomy classification
CO-1	Construct movin an object	ng object and change the color of	PSO-2 & PSO-3	Apply
CO-2	Discover new of	pject using shape tweening	PSO-2	Apply
CO-3	Create a button	for URL-Link	PSO1	Create
CO-4	Apply animatic control action	n for an object using timeline	PSO-4	Apply
CO-5	Construct a mov	ie Clip	PSO-4	Apply, Create

	III SEMESTER				
DSC5	PROGRAMMING IN JAVA				
Hrs /	Week : 4 Hrs / Sem : 60 Hrs / Unit :	12 Cred	its :		
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification		
CO-1	Understand how object-oriented concepts are incorporated into the Java programming language	PSO1	Understand		
CO-2	Build problem-solving skills using OOPS concept	PSO1	Create, Apply		
CO-3	Develop the ability to handle exception in programming	PSO1	Create		
CO-4	Design multithread programming concept in Java	PSO1 & PSO2	Create		
CO-5	Construct efficient Java applets application using Java	PSO1 & PSO2	Create		

III SEMESTER					
DSC	DSC6 DATA STRUCTURES				
Hrs /	Week: 4 Hrs / Sem: 60 Hrs / Unit:	12 Credits	:		
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification		
CO-1	Understand the basic data structures for storage and retrieval of ordered or unordered data and their algorithm.	PSO1 & PSO3	Understand		
CO-2	Explain array, structure and union data structure and their operations	PSO1 & PSO3	Understand		
CO-3	Build stack and queue data structure and also evaluate the expression	PSO1 & PSO3	Apply		
CO-4	Construct linked list data structure ,its types, operation and polynomial representation.	PSO1 & PSO3	Apply, Create		
CO-5	Develop tree data structure and binary tree traversal.	PSO1 & PSO3	Create, Apply		
CO-6	Discuss graph data structure , its operation and to find shortest path using different algorithms	PSO1 & PSO3	Create		

III SEMESTER							
DSC7	DSC7 SOFTWARE ENGINEERING						
Hrs/W	Veek: 4 Hrs./ Unit:60	Cı	edit:				
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification				
CO-1	Define and analyze complex problems, and design, implement and evaluate solutions.	PSO2	Remember, Analyze				
CO-2	Understand software engineering practices in requirements engineering, system level architecture, design, construction, evaluation, and project management.	PSO2	Apply				
CO-3	Classify system into modules and define interface between modules.	PSO2	Understand, remember				
CO-4	Design and evaluate object oriented system and User Interface.	PSO1 & PSO2	Create				
CO-5	Understand testing, costing and quality control.	PSO2	Understand				

III SEMESTER				
DSE-1	A XML PROGRAMMING			
Hrs /	Week : 4 Hrs / Sem : 60 Hrs /	Unit : 12	Credits :	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Understand the definition and structure of the Extensible Markup Language (XML)	PSO1	Understand	
CO-2	Construct functional programming based on XSLT.	PSO1	Create	
CO-3	Apply XML based applications for web development	PSO2	Apply	
CO-4	Construct functional programming in document conversion.	PSO5	Apply	
CO-5	Make use of most important tools and standards related to XML, particularly DTD, XML Schema, CSS and XSLT.	PSO5	Apply	

	III SEMESTER				
DSE-	1B DESK TOP PUBLISHIN	G			
Hrs /	Week : 4 Hrs / Sem : 60 Hrs	/ Unit : 12	Credits :		
CO	Upon completion of this course, students will be	PSO	Blooms		
No.	able to addressed		taxonomy		
			classification		
CO-1	Explain the concepts of DTP and its software like	PSO5	Understand		
	page maker, CorelDraw and Photoshop				
CO-2	Design book, newspapers and visiting card using	PSO5	Create		
	page maker software				
CO-3	Understand CorelDraw tools to create graphics.	PSO5	Understand		

CO-4	Construct objects using CorelDraw.	PSO5	Apply
CO-5	Explain photo editing using Photoshop software and	PSO5	Understand,
	its tools		Apply

III SEMESTER				
AII-1	GUI PROGRAMMING			
Hrs /	Week:4 Hrs/Sem:60 Hrs/U	nit : 12	Credits :	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Understand Visual Basic's Integrated Development Environment (IDE).	PSO1 & PSO2	Understand	
CO-2	Apply decision structures and loop structures to perform various tasks.	PSO1 & PSO2	Apply	
CO-3	Create manageable code using procedures, sub- procedures, and functions.	PSO1 & PSO2	Apply	
CO-4	Create, store and retrieving database through data controls.	PSO1 & PSO2	Create	
CO-5	Develop Windows applications using forms, controls, and events.	PSO1 & PSO2	Apply,Create	

III SEMESTER					
NME-1 INTRODUCTION TO PHOTO EDITING					
Hrs / Week : 2	Hrs / Sem :30	Hrs/Unit :6	Credits :		

CO	Upon completion of this course, students will be	PSO	Blooms
No.	able to	addressed	taxonomy
			classification
CO-1	Understand the basics of image manipulation concept	PSO5	Understand
CO-2	Show various color correction using color palette.	PSO5	Understand
CO-3	Make use of retouching and repairing techniques to	PSO5	Apply
	correct images		
CO-4	Apply selection tools to an image	PSO5	Apply
CO-5	Create new layers and perform other basic functions	PSO5	Create

III SEMESTER					
DSCP-3 JAVA PROGRAMMING CORE PRACTICAL					
Hrs / Week : 4 Hrs / Sem : 60 Credits :					
CO No.	Upon compl	letion of this course, students able to	will be	PSO addressed	Blooms taxonomy classification
CO-1	Make use of C	Class, inheritance and interface		PSO-1	Apply

CO-2	Create package, user defined excepts and treads	PSO-1	Create
CO-3	Construct a frame for various controls	PSO-1	Apply,Create
CO-4	Construct applet for multiple shapes	PSO-1	Apply,Create
CO-5	Test various files in java	PSO-1	Create

III SEMESTER					
DSCP-4A XML PROGRAMMING CORE PRACTICAL					
Hrs / Week : 2 Hrs / Sem : 30 Credit :					
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification		
CO-1	Analyze document, schema creation	PSO-1	Apply		
CO-2	Build a web page using CSS XSLT & Xpath	PSO-1	Create		
CO-3	Design a web page using Xlink	PSO-1	Create		
CO-4	Apply internal and external DTD	PSO-1	Apply		
CO-5	Create XML document for importing and exporting document	PSO-1	Create		

III SEMESTER					
DSCP	DSCP4B DTP CORE PRACTICAL				
Hrs /	Hrs / Week : 2 Hrs / Sem : 30 Credit :				
CO No.	Upon completion of this course, students will be to	able PSO addressed	Blooms taxonomy classification		
CO-1	Make use of formatting and equations	PSO-1	Apply		
CO-2	Build colors and styles in document	PSO-1	Create, Apply		
CO-3	Apply word wrap and menu plugging	PSO-1	Apply		
CO-4	Design various images using artistic tool	PSO-1	Create		
CO-5	Create image using filter tools	PSO-1	Create		

	III SEMESTER					
AII-P-	AII-P-1 GUI PROGRAMMING ALLIED PRACTICAL					
Hrs /	Hrs / Week : 2 Hrs / Sem : 30 Credits :					
CO	Upon completion of this course, students will be able	PSO	Blooms			
No.	to	addressed	taxonomy			
			classification			
CO-1	Construct arithmetic calculator using button	PSO-1	Create			
CO-2	Design forms using database controls	PSO-1	Create			
CO-3	Create records to database	PSO-1	Create			

CO-4	Construct report form	PSO-1	Create,
			Understand
CO-5	Create animation	PSO-1	Create

IV SEMESTER				
DSC8	ASP.NET			
Hrs /	Week: 4 Hrs / Sem: 60 Hrs / Unit:	l2 Credit	s :	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Create a Web form with server controls.	PSO1	Create	
CO-2	Design page code using code-behind pages, page controls, and components.	PSO1	Create	
CO-3	List out various aspects of validation controls	PSO1	Analyze	
CO-4	Develop dynamic data from a data source by using Microsoft ADO.NET and data binding.	PSO1	Create	
CO-5	Design web applications using ASP.NET	PSO1& PSO2	Create	

IV SEMESTER			
DSC1	0 COMPUTER NETWORKS		
Hrs /	Week : 4 Hrs / Sem : 60 Hrs / Unit	:: 12 Cr	edits :
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification
CO-1	Understand the basic concepts, definitions, and mechanisms at different hardware and software levels.	PSO3	Understand
CO-2	Classify the layers of OSI and TCP and discuss various aspects of congestion control and network security	PSO3	Understand
CO-3	Demonstrate the concepts of local, metropolitan, and wide area networks.	PSO3 & PSO4	Create
CO-4	utilize advanced wired and wireless technologies and protocols	PSO-1	Apply
CO-5	Compare the internetworking technology and applications.	PSO3	Understand

IV SEMESTER				
DSC9	OPERATING SYSTEMS			
Hrs /	Week : 4 Hrs / Sem : 60 Hrs / Unit :	12 Cred	its :	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Understand the functions, structures, and history of operating systems;	PSO3	Understand	
CO-2	Infer various process management concepts including scheduling, synchronization, and deadlocks	PSO3	Understand	
CO-3	Summarize the concepts of memory management including virtual memory	PSO3	Understand	
CO-4	Understand the concepts of various scheduling algorithms	PSO3	Understand	
CO-5	Discuss issues related to storage systems, file system interface and implementation, and disk management	PSO3	Create	

IV SEMESTER							
DSE-2	2B WEB DESIGNING						
Hrs /	Hrs / Week : 4 Hrs / Sem : 60 Hrs / Unit : 15 Credits :4						
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification				
CO-1	Apply critical thinking and problem solving skills required to successfully design and implement a web site.	PSO1 & PSO2	Apply				
CO-2	Analyze, identify and define the technology required to build and implement a web site.	PSO1 & PSO2	Analyze				
CO-3	Understand artistic and design components that are used in the creation of a web site using CSS.	PSO1 & PSO2	Understand, create				
CO-4	Utilize and apply the technical, ethical and interpersonal skills.	PSO1 & PSO2	Apply				
CO-5	Apply script on web page design.	PSO1 & PSO2	Apply				

	IV SEMESTER			
DSE2	2-A UNIX & SHELL PROGRAM	IMING		
Hrs /	Week: 4 Hrs / Sem: 60 Hrs / Unit	::12 Cr	edits :	
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Understand UNIX Operating System and its File System	PSO3	Understand	
CO-2	List out important aspects related to the SHELL and the process	PSO3	Understand	
CO-3	Formulate regular expressions and use them for pattern matching.	PSO3	Create	
CO-4	Make use of Vi editor to edit text	PSO3	Apply	
CO-5	Analyze a given problem and apply requisite facets of SHELL programming in order to devise a SHELL script to solve the problem	PSO1 & PSO3	Analyze	

	IV SEMESTER			
AII-2	RDBMS WITH ORACLE			
Hrs /	Week: 4 Hrs / Sem: 60 Hrs / Unit: 1	2 Credi	ts :	
CO	Upon completion of this course, students will be able	PSO	Blooms	
INO.	το	addressed	taxonomy classification	
CO-1	Understand relational database management system.	PSO1	Understand	
CO-2	Understand what basic relational algebra operators.	PSO1	Understand	
CO-3	Create tables using SQL DDL,DML,DCL,TCL	PSO1	Create	
CO-4	Apply integrity constraints in database.	PSO1, PSO2 & PSO3	Apply	
CO-5	Apply normalization techniques to normalize the database	PSO1, PSO2 & PSO3	Apply	

IV SEMESTER					
NME 2	2 INTI	RODUCTION TO INTERN	ET AND HTM	IL	
Hrs / Week : 2 Hrs / Sem : 30 Hrs / Unit : 6 Credits :					
CO	COUpon completion of this course, students will be ablePSO			Blooms	
No.		to		addressed	taxonomy classification
CO-1	Understand t	he basics of internet technolo	ogies	PSO5	Understand
CO-2	Build web pa	ges using HTML tags		PSO5	Create
CO-3	Create tables	and links for a web page		PSO5	Create
CO-4	Apply frames	for web page		PSO5	Apply
CO-5	Design web f	orms		PSO5	Create

	IV SEMESTER					
DSCP	5	ASP.NET CORE PRA	CTICAL			
Hrs /	Hrs / Week : 4 Hrs / Sem : 60 Credits :					
CO No.	Upon completion will be	of this course, students able to	PSO addressed	Blooms taxonomy classification		
CO-1	Build a web form	using various controls	PSO-2	Apply,Create		
CO-2	Apply the concept	of code behind files	PSO-2	Apply		
CO-3	Demonstrate the h control	yperlink and validation	PSO-2	Understand		
CO-4	Design greeting ca	rd using web controls	PSO-2	Create		
CO-5	Create login page		PSO-2	Create		

IV SEMESTER					
DSCP-6A UNIX & SHELL PROGRAMMING CORE PRACTICAL					
Hrs / W	Hrs / Week : 2 Hrs / Sem : 30 Credit :				
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification		
CO-1	Design multiplication table	PSO-1	Create		
CO-2	Find factorial and simple internet	PSO-1	Remember		
CO-3	Construct Fibonacci series,	PSO-1	Apply,Create		
CO-4	Make use of copy, move, sort, grep command	PSO-1	Create		
CO-5	Construct mark list	PSO-1	Apply, Create		

IV SEMESTER			
DSCP-6B WEB DESIGNING CORE PRACTICAL			
Hrs / Week : 2	Hrs / Sem : 30	Credit :	

CO	Upon completion of this course, students will be able	PSO	Blooms
No.	to	addressed	taxonomy
			classification
CO-1	Make use of Bold tag, centre tag, Heading tag & Font	PSO-1 &	Apply
	tag	PSO-2	
CO-2	Design a web page	PSO-1	Create
CO-3	Make use of formatting elements	PSO-1	Apply
CO-4	Create semester marks, time table construct table for	PSO-1	Create
	various applications		
CO-5	Develop a web page using CSS	PSO-1	Apply

	IV SEMESTER			
AII-P-	2 RDBMS WITH ORACLE ALLIED P	RACTICAL		
Hrs /	Week : 2 Hrs / Sem : 30	Credits :		
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification	
CO-1	Construct table using Constraints	PSO-1	Apply	
CO-2	Make use of where class, date , character functions	PSO-1	Apply	
CO-3	Construct joining table function & Exception handling	PSO-1	Apply, Create	
CO-4	Create cursor, trigger, package	PSO-1	Create	
CO-5	Test various functions	PSO-1	Create	

DSC 11

COMPUTER GRAPHICS & MULTIMEDIA

18UCCA51

CO	Upon completion of this course, students will be able to	PSO	Blooms
No.		addressed	taxonomy classification
CO-1	Understand the basics of computer graphics, different	PSO5	Understanding
	graphics systems and applications of computer graphics.		
CO-2	Build various shapes and filling algorithm.	PSO5	Creating
CO-3	Analyze various scan conversion algorithm.	PSO5	Analyzing
CO-4	Experiment with the concepts of different type of	PSO5	Applying
	geometric transformation of objects in 2D and 3D.		
CO-5	Understand the practical implementation of modeling,	PSO5	Understanding
	rendering, viewing of objects in 2D.		
CO-6	Show knowledge about clipping algorithms.	PSO5	Remembering
CO-7	Demonstrate knowledge about multimedia basics and its	PSO5	Understanding
	tools.		

	V SEMESTER	
DSC 12	PHYTHON PROGRAMMING	18UCCA52

CO	Upon completion of this course, students will be able	PSO	Blooms
No.	to	Addressed	taxonomy
			classification
CO-1	Explain how to install Python and understand its basic	PSO1	Understanding
	operations.		

CO-2	Illustrate to use lists, tuples, and dictionaries in Python	PSO1	Understanding
	programs.		
CO-3	Explain to use built in functions and develop function in	PSO1 &	Understanding
	Python.	PSO2	
CO-4	Design classes and modules in python.	PSO2	Creating
CO-5	Manipulate file system in Python.	PSO1	Evaluating
CO-6	Handle errors and exception in Python applications.	PSO1 &	Evaluating
		PSO2	

	V SEMESTER	
DSC 13	MOBILE COMPUTING	18UCCA53

CO No.	Upon completion of this course, students will be able to	PSO Addressed	Blooms taxonomy classification
CO-1	Understand fundamentals of wireless communications.	PSO5	Understanding
CO-2	Analyze security, energy efficiency, mobility, scalability, and their unique characteristics in wireless networks.	PSO5	Analyzing
CO-3	Demonstrate basic skills for cellular networks design.	PSO5	Understanding
CO-4	Apply knowledge of TCP/IP extensions for mobile and wireless networking.	PSO5	Applying
CO-5	Evaluate the role of mobile applications in software intensive systems.	PSO5	Evaluating

DSE-3A

MONGODB PROGRAMMING

18UECA5A

CO	Upon completion of this course, students will be	PSO	Blooms
No.	able to	Addressed	taxonomy
			classification
CO-1	Understanding the basics of data storage in	PSO1	Understanding
	MongoDB.		
CO-2	Explain how to run queries against a MongoDB.	PSO1, PSO2	Understanding
	instance for data manipulation.	& PSO3	
CO-3	Evaluate query through Index in MongoDB.	PSO3	Evaluating
CO-4	Utilize Driver and Replication for the same ends	PSO2 &	Applying

	in order to manipulate data	PSO3	
CO-5	Design and maintain database as administrator.	PSO3	Applying, Creating

V SEMESTERDSE-3BC# PROGRAMMING18UECA5B

CO	Upon completion of this course, students will be able to	PSO	Blooms
No.		Addresse	taxonomy
		d	classification
CO-1	Knowledge of the structure and model of the	PSO1	Understanding
	programming language C#.		
CO-2	Use the programming language C # for various	PSO1 &	Applying
	programming technologies.	PSO2	
CO-3	Develop software in C#.	PSO2	Applying
CO-4	Evaluate user requirements for software functionality		
	required to decide whether the programming language C #	PSO2	Evaluating
	can meet user requirements.		
CO-5	Propose the use of certain technologies by implementing		
	them in the C # programming language to solve the given	PSO2	Applying
	problem.		
CO-6	Choose an engineering approach to solving problems,		
	starting from the acquired knowledge of programming and	PSO2	Analyzing
	knowledge of operating systems.		

	V SEMESTER	
DSCP7	COMPUTER GRAPHICS & MULTIMEDIA PRACTICALS	18UCCA5P1

CO	Upon completion of this course, students will	PSO	Blooms taxonomy
No.	be able to	addressed	classification
CO-1	Understand various text styles	PSO5	Understanding
CO-2	Understand DDA and Bresenhem's algorithm	PSO5	Understanding
CO-3	Demonstrate filling algorithms	PSO5	Applying
CO-4	Create graphics for transformation of object	PSO5	Applying
CO-5	Develop a program to animate an object	PSO5	Creating

V SEMESTER			
DSEP-3A MONGODB PROGRAMMING PRACTICALS 18UCCA5P			S 18UCCA5PA
CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification
CO-1	Build a database and insert data into it	PSO5	Understanding
CO-2	Build a database to update and delete a data into it	PSO5	Understanding
CO-3	Create a database and sort out the elements in the database	PSO5	Applying
CO-4	Create and drop index	PSO5	Applying
CO-5	Create a query using group and remove functions	PSO5	Creating

DSEP-3B

C# PROGRAMMING PRACTICALS

18UCCA5PB

CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification
CO-1	Build an array to find out the maximum value	PSO5	Understanding
CO-2	Understand a factorial and generate Fibonacci series for a given number	PSO5	Understanding
CO-3	Evaluate various function values	PSO5	Applying
CO-4	Create two matrices and perform addition, subtraction and multiply it.	PSO5	Applying
CO-5	Build a class to throw user defined exception	PSO5	Creating

V SEMESTER

SEC-I

BASIC MATHEMATICS

18USCA51

CO No.	Upon completion of this course, students will be able to	PSO Addressed	Blooms taxonomy classification
CO-1	Able to set up and solve linear systems, permutation and quadratic equations.	PSO1	Applying
CO-2	Able to formulate problems in the language of sets and perform set operations, and will be able apply the Fundamental Principle of Counting, Multiplication Principle.	PSO1	Applying

CO-3	Solve applied problems using matrices.	PSO1	Applying
CO-4	Apply the Fundamental Theorem of Calculus.	PSO1	Applying
CO-5	Use matrix algebra and the related matrices to linear transformations.	PSO1	Applying
CO-6	Able to perform and solve various arithmetic problems.	PSO1	Applying

DIGITAL MARKETING

SEC-II

18USCA61

CO No.	Upon completion of this course, students will be able to	PSO Addressed	Blooms taxonomy
			classification
CO-1	Discuss the e-Commerce process.	PSO3	Understanding
CO-2	Describe an example of system architecture for an e-	PSO3	Understanding
	Business.		
CO-3	Understand growth of M-commerce Technology.	PSO3 &	Understanding
		PSO4	
CO-4	Identify the major electronic payment issues and	PSO4	Understanding
	options.		
CO-5	Discuss security issues and explain procedures used	PSO3 &	Understanding
	to protect against security threats.	PSO4	

DSC 14	ADVANCED JAVA PROGRAMMING	18UCCA61

CO No.	Upon completion of this course, students will be able to	PSO Addressed	Blooms taxonomy
			classification
CO-1	Design and Develop Swing-based GUI.	PSO2	Creating,
			Applying
CO-2	Develop client/server applications and TCP/IP	PSO2	Applying
	socket programming.	&PSO3	
CO-3	Develop and retrieve the data from the databases	PSO1 &	Applying
	using SQL.	PSO2	
CO-4	Create distributed applications using RMI.	PSO3	Creating
CO-5	Develop server side programs in the form of servlets.	PSO3	Creating

DSC 15

DSC 16

SOFTWARE PROJECT MANAGEMENT

18UCCA62

CO	Upon completion of this course, students will be	PSO	Blooms
No.	able to	Addressed	taxonomy
			classification
CO-1	Understand how to manage software project scope	PSO2	Understanding
	and objectives.		
CO-2	Learn project cost evaluation and estimation	PSO2	Remembering
	techniques.		
CO-3	Understand how to manage risk in software project	PSO3	Understanding
	management.		
CO-4	Learn how to monitor the software projects.	PSO3	Remembering
-			
CO-5	Understand how to produce quality software.	PSO3	Understanding

VI SEMESTER

PROJECT

18UCCA63

СО	Upon completion of this course, students will be	PSO	Blooms
No.	able to	Addressed	taxonomy
			classification
CO-1	Identify the potential areas of research in the	PSO2	Applying
	software field.		
CO-2	List out the data from various sources like real data.	PSO4	Remembering
CO-3	Interpret the concept of online software model.	PSO2	Understanding
CO-4	Experiment with real data in the software.	PSO4	Applying
CO-5	Create and develop the software.	PSO5	Creating

	VI SEMESTER		
DSE-4	A PHP WITH MYSQL		18UECA6A
CO No.	Upon completion of this course, students will be able to	PSO Addressed	Blooms taxonomy classification

CO-1	Discuss the concepts of PHP and its advantages	PSO1	Understanding
	over other languages.		
CO-2	Use HTML form elements that work with any server-side language	PSO1	Understanding
CO-3	Create a dynamic web page using PHP	PSO1 & PSO2	Understanding
CO-4	Develop Database connectivity using MySQL.	PSO2	Creating
CO-5	Use a PHP editing program.	PSO1	Evaluating

CORE ANDROID APPLICATION

DSE-4B

18UECA6B

CO	Upon completion of this course, students will	PSO	Blooms
No.	be able to	Addressed	taxonomy
			classification
CO-1	Understand and configure Android application	PSO1 &	Understanding
	development tools.	PSO3	
CO-2	Understand Fundamentals of Android frame	PSO3	Understanding
	work and XML.		
CO-3	Design and develop user Interfaces for the	PSO4	Creating
	Android platform.		
CO-4	Design screen Layouts, User Interface.	PSO4	Creating
CO-5	Apply Java programming concepts to Android	PSO4	Applying
	application development.		

	VI SEMESTER	
DSCP-9	ADVANCED JAVA	1811001601
	PROGRAMMINGPRACTICALS	10UCCAUF 1

CO	Upon completion of this course, students	PSO	Blooms taxonomy
No.	will be able to	addressed	classification
CO-1	Demonstrate Applet, Swing, Event Handling	PSO5	Understanding
CO-2	Develop applications using JDBC and	PSO5	Understanding
	Servelet		
CO-3	Demonstrate Java Beans and Cookies	PSO5	Applying
CO-4	Create check boxes to display various courses	PSO5	Applying
CO-5	Demonstrate state management using	PSO5	Creating
	Servelets		

DSCP-10A

PHP WITH MYSQL PRACTICALS

18UECA6PA

CO	Upon completion of this course, students will be	PSO	Blooms
No.	able to	addressed	taxonomy
			classification
CO-1	Build if else, while loop statement	PSO5	Understanding
CO-2	Develop multiplication tables	PSO5	Understanding
CO-3	Construct a code for string and array functions	PSO5	Applying
CO-4	Display temperature highest and lowest	PSO5	Applying
CO-5	Build a database & add, delete and modifying records	PSO5	Creating

	VI SEMESTER	
DSCP- 10B	CORE ANDROID APPLICATION PRACTICALS	18UECA6PB

CO No.	Upon completion of this course, students will be able to	PSO addressed	Blooms taxonomy classification
CO-1	Demonstrate alert, check and Radio button	PSO5	Understanding
CO-2	Develop list view & spinner in Android	PSO5	Understanding
CO-3	Build gallery view and date & time in Android	PSO5	Applying
CO-4	Understand menus in Android picker	PSO5	Applying
CO-5	Build a database connectivity in Android	PSO5	Creating

	VI SEMESTER	
SBC	PERSONALITY DEVELOPMENT	18USPD62

CO	Upon completion of this course, students will be	PSO	Blooms
No.	able to:	Addressed	taxonomy
			classification
CO-1	Lead an honorable life with a great deal of self-	PSO3	Understanding
	awareness, self-esteem and self-respect.		
CO-2	Shine as an exemplary model with impeccable	PSO1	Applying
	character traits.		
CO-3	Set a reasonably challenging goal exerting enough	PSO1	Analyzing
	labour and effectively managing time.		
CO-4	Build relationships in a world filled with different	PSO1	Analyzing
	ideologies, overcome social conflicts, excel in team		
	work and contribute constructively.		
CO-5	Exhibit skills and manners required in the place of	PSO3	Understanding
	work and win over the approbation of the employers.		