

## DEPARTMENT OF COMPUTER SCIENCE

### Programme Specific Outcome (PSO)

PSO NO	Programme Specific Outcome
PSO 1	Our graduates are able to understand the various parts of a computer.
PSO 2	Our graduates are able to apply mathematical knowledge, algorithmic concepts and various programming languages to solve problems logically.
PSO 3	Our graduates are able to design and create software's to address real world issues which satisfies industrial demands.

## Course Outcomes (CO)

### Semester 1

Course Code	EN1CCT01				
Course Title	English- Fine Tune Your English				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	1				
Course Type	Common Course				
Credit	4	Hrs/Week	5	Total Hours	90
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Define strategic difference between spoken and written language.			R	PO6
CO2	Illustrate adequate linguistic competence to communicate in accurate English.			U	PSO2
CO3	Appraise grammar as a tool in devising appropriate oral and written discourse in real life or specific contexts.			E	PO6
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	MM1CMT03				
Course Title	Discrete Mathematics - I				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	1				
Course Type	Complementary Course				
Credit	4	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Understand sets and set operations, functions, countable & uncountable sets, Division Algorithm, Congruence relation & Cryptology			U	PO1
CO2	Understand relations and the concept of equivalence & partial order relations and Lattices, Logical statements, Rule of inference & arguments			U	PO1
CO3	Solve problems in Discrete Mathematics related to above topics.			Ap	PO4
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	ST1CMT31				
Course Title	Basic Statistics and Introductory Probability Theory				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	1				
Course Type	Complementary Course				
Credit	4	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Apply core statistical techniques, including univariate & bivariate data analysis, to extract meaningful insights from data.			Ap	PSO2
CO2	Analyze the application of statistics in various fields and critically evaluate its role in informing real-world decisions.			An	PO5
CO3	Explain the fundamental concepts of probability theory and its applications, discussing the tools and techniques used to solve probability problems			E	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA1CRT01				
Course Title	Computer Fundamentals and Digital Principles				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	1				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Explain the different parts of computer and various number systems.			U	PSO1
CO2	Simplify Boolean expressions using Logic gates and K map			An	PSO1
CO3	Understand Sequential and Combinational Logic circuits			U	PSO1
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA1CRT02				
Course Title	Methodology of Programming and C Language				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	1				
Course Type	Core				
Credit	3	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Understand the basic and general concepts of computers and programming.			U	PSO1
CO2	Understand the concepts of different datatypes, control structures and arrays			U	PSO2
CO3	Explain the concepts functions, different user-defined datatypes and analyse program flexibility using dynamic memory allocation			U	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA1CRP01				
Course Title	Software Lab I				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	1				
Course Type	Core				
Credit	2	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Create structured programs based on the concepts of decision-making statements and loop controls statements.			C	PSO2
CO2	Create programs based on arrays and pointers			C	PSO2
CO3	Create programs based on functions, user-defined datatypes and dynamic memory allocation.			C	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

## Semester 2

Course Code	EN2CCT03				
Course Title	Issues That Matter				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	2				
Course Type	Common Course				
Credit	4	Hrs/Week	5	Total Hours	90
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Demonstrate an understanding of national and global issues of contemporary significance.			U	PSO1
CO2	Evaluate the social and environmental structure of the world economy.			E	PSO2
CO3	Identify the role of government in providing public facilities and regulating economic disparities.			Ap	PO7
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					



Course Code	MM2CMT03				
Course Title	Discrete Mathematics - II				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	2				
Course Type	Complementary Course				
Credit	4	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Understand Graphs, Graph models, graph isomorphism, connected graph, Euler & Hamiltonian circuits, Trees & its applications.			U	PO1
CO2	Explain the concept of matrices and Boolean Algebra and their related properties and applications			U	PO1
CO3	Solve problems in Discrete Mathematics related to above topics.			Ap	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA2CRT03				
Course Title	Data Base Management Systems				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	2				
Course Type	Core				
Credit	3	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Demonstrate the basic elements of a relational database management system			Ap	PSO2
CO2	Identify the data models for relevant problems.			R	PSO3
CO3	Design entity relationship and convert entity relationship diagrams into RDBMS and formulate SQL queries.			Ap	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA2CRT04				
Course Title	Computer Organization and Architecture				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	2				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Explain the fundamental organization and architecture of computer system.			U	PSO1
CO2	Explain CPU architecture, instruction execution stages and addressing mode, memory organization and mapping techniques			U	PSO1
CO3	Illustrate the concept of pipelining and parallel processing.			U	PSO1
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA2CRT05				
Course Title	Object Oriented Programming using C++				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	2				
Course Type	Core				
Credit	4	Hrs/Week	3	Total Hours	54
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Understand the basic concepts and principles of Object-Oriented Programming and the portable programming language C++.			U	PSO2
CO2	Understand how to allocate and deallocate resources to objects of the class using the concepts constructors and destructors.			U	PSO2
CO3	Understand how to reduce time and resources through code reuse using the concept of Inheritance and also how to increase program flexibility through the concept of Polymorphism			U	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA2CRP02				
Course Title	Software Lab- II				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	2				
Course Type	Core				
Credit	2	Hrs/Week	5	Total Hours	90
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Construct a normalised database with the help of constraints.			Ap	PSO2
CO2	Apply the basic operations and functions to the database.			Ap	PSO2
CO3	Apply Object Oriented concepts in C++ programming.			Ap	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

### Semester 3

Course Code	ST3CMT32				
Course Title	Advanced Statistical Methods				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	3				
Course Type	Complementary Course				
Credit	4	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Analyze real-world scenarios and select appropriate probability distributions to model them.			An	PSO1
CO2	Explain the fundamental concepts of statistical inference and its applications in drawing conclusions from data.			E	PSO1
CO3	Critically evaluate hypothesis testing methods, including their terminology, and effectively apply them to solve real-world problems.			E	PSO1
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA3CRT06				
Course Title	Computer Graphics				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	3				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Explain the working of Display systems and learn the algorithms for generating basic primitives.			U	PSO2
CO2	Understand two-dimensional transformations with clipping techniques and three-dimensional concepts.			U	PSO2
CO3	Identify the computer animation techniques and motion specifications.			Ap	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA3CRT07				
Course Title	Microprocessor and PC Hardware				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	3				
Course Type	Core				
Credit	4	Hrs/Week	3	Total Hours	54
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Understand architecture, pin diagram and instruction set of 8085 Microprocessor.			U	PSO1
CO2	Outline the components and operations of Hard disk and motherboard.			U	PSO1
CO3	Identify different types of physical memory.			Ap	PSO1
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					



Course Code	CA3CRT08				
Course Title	Operating Systems				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	3				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Develop a comprehensive understanding of functions of operating system.			U	PSO1
CO2	Illustrate the various Process Scheduling algorithms and solutions to avoid deadlock.			U	PSO2
CO3	Explain the concepts of memory management and file management.			U	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA3CRT09				
Course Title	Data Structure using C++				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	3				
Course Type	Core				
Credit	3	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Recall the concept of arrays and implement different types of data structures like Stack and queue using arrays.			R	PO1
CO2	Make use of the data structure Linked list to solve various problems.			Ap	PSO2
CO3	Analyze the data structure Tree and how various data structures are organized in physical memory.			An	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA3CRP03				
Course Title	Software Lab III				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	3				
Course Type	Core				
Credit	2-	Hrs/Week	6	Total Hours	108
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Utilize the operations and applications of array to implement various data structures like stack and queue.			Ap	PSO2
CO2	Build programs to implement linked list and its types.			Ap	PSO2
CO3	Apply linked list for the creation and traversal of binary search trees.			Ap	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

## Semester 4

Course Code	MM4CMT03				
Course Title	Operations Research				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	4				
Course Type	Complementary Course				
Credit	4	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Understand the concepts of O.R. and different methods of solving linear programming problems.			U	PO1
CO2	Apply the concept of Linear programming in solving Transportation & Assignment problems.			Ap	PSO2
CO3	Apply different principles in Game Theory problems.			Ap	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA4CRT10				
Course Title	Design and Analysis of Algorithms				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	4				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Analyze the performance of the algorithms by finding Time and space complexity.			An	PSO2
CO2	Apply classic algorithm design methods like Divide and Conquer, Dynamic Programming, Greedy method for problem solving.			Ap	PSO2
CO3	Understand backtracking technique and Basic traversal and search techniques of graphs.			U	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA4CRT11				
Course Title	System Analysis and Software Engineering				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	4				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Illustrate the concepts of Information System, Organization charts and System development lifecycle.			U	PSO1
CO2	Utilize the concepts of Software Engineering, Requirement Engineering and various software lifecycle models to estimate the size and cost of a software.			Ap	PSO2
CO3	Explain the various aspects of software designing and testing.			E	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA4CRT12				
Course Title	Linux Administration				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	4				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Understand the architecture of Linux and implement the basic commands using vi editor.			U	PSO2
CO2	Apply the concepts of shell programming.			Ap	PSO2
CO3	Summarize the role of system administrator and understanding various servers.			U	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA4CRT13				
Course Title	Web Programming using PHP				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	4				
Course Type	Core				
Credit	3	Hrs/Week	3	Total Hours	54
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Explain the concept of WWW, HTML and static website.			U	PSO1
CO2	Apply the concepts of CSS and JavaScript to make website more interactive.			Ap	PSO2
CO3	Build a dynamic website using PHP and MySQL.			Ap	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					



Course Code	CA4CRP04				
Course Title	Software Lab IV				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	4				
Course Type	Core				
Credit	2	Hrs/Week	6	Total Hours	108
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Apply Linux commands to develop shell programs.			Ap	PSO2
CO2	Make use of the concepts of HTML, CSS, and JavaScript in PHP programs.			Ap	PSO2
CO3	Build dynamic website using PHP.			C	PSO3
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

## Semester 5

Course Code	CA5CRT14				
Course Title	Computer Networks				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	5				
Course Type	Core				
Credit	4	Hrs/Week	3	Total Hours	54
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Explain about signals, various network models, multiplexing, transmission media and switching.			U	PSO1
CO2	Explain about various protocols in error control, flow control and multiple access.			U	PSO2
CO3	Illustrate about various networking devices, IP Addressing, protocols and cryptography.			U	PSO1
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA5CRT15				
Course Title	IT and Environment				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	5				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Understanding the multidisciplinary nature of environmental studies and the role of IT in society.			U	PSO2
CO2	Understand the impact of E-learning, concepts of E-waste and green computing.			U	PSO2
CO3	Understand the nature and need for human rights and its issues and solutions.			U	PO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA5CRT16				
Course Title	Java Programming using Linux				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	5				
Course Type	Core				
Credit	3	Hrs/Week	3	Total Hours	54
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Define java tokens, statements, loops and Object-oriented features in java.			R	PSO1
CO2	Apply the concepts of packages, threads, exceptions, events, applets and swings.			Ap	PSO2
CO3	Make use of JDBC drivers and functions to establish database connection and execute SQL operations.			Ap	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	BA5OPT22				
Course Title	Brand Management				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	5				
Course Type	Core				
Credit	3	Hrs/Week	4	Total Hours	72
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Explain fundamental concept and significance of brands in the market.			U	PO5
CO2	Analyse the process of Brand Building			An	PO3
CO3	Develop strategies for successful brand portfolio management.			C	PO5
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA5CRP05				
Course Title	Software Lab V				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	5				
Course Type	Core				
Credit	2	Hrs/Week	5	Total Hours	90
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Apply OOP concepts to implement basic java programs			Ap	PSO1
CO2	Apply the advanced concepts of java like applets, swings, and thread and manage them in various events.			Ap	PSO2
CO3	Examine the dataflow between JSP pages and database using JDBC drivers			An	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA5CRP06				
Course Title	Software Development Lab I (Mini Project in PHP)				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	5				
Course Type	Core				
Credit	2	Hrs/Week	6	Total Hours	108
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Identify the chosen area of technology for project development.			Ap	PO1
CO2	Develop effective communication skills for presenting project related activities.			C	PSO2
CO3	Contribute as an individual or in a team in developing technical projects.			C	PSO3
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

## Semester 6

Course Code	CA6CRT17				
Course Title	Cloud Computing				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	6				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Understand the architecture of cloud computing and its types.			U	PSO2
CO2	Explain the taxonomy of virtualization with different technologies.			U	PSO2
CO3	Understand the concepts for data-intensive computing and cloud computing platforms in industries.			U	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					



Course Code	CA6CRT18				
Course Title	Mobile Application development- Android				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	6				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	144
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Understand the fundamentals of Android studio, Activity lifecycle, multimedia and other services.			U	PSO1
CO2	Compare the various user interface layouts in android.			U	PSO2
CO3	Understand data interchange formats like JSON, XML and the role of Google Play Services to develop applications.			U	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA6PET01				
Course Title	Data Mining				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	6				
Course Type	Core				
Credit	4	Hrs/Week	4	Total Hours	72
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Define data mining functionalities and types of data mining.			R	PSO2
CO2	Explain data warehouse architecture, multidimensional cube model and OLAP operations.			U	PSO2
CO3	Examine classification, prediction and clustering algorithms.			An	PSO2
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA6CRP07				
Course Title	Software Lab VI & Seminar				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	6				
Course Type	Core				
Credit	2	Hrs/Week	6	Total Hours	36
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Identify a topic from the wide variety of recent technologies in IT industry.			Ap	PO1
CO2	Utilize the literature review to produce summary of the topic.			Ap	PSO1
CO3	Develop presentation and communication skills to interact in a public forum.			C	PO6
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA6CRP08				
Course Title	Software Development Lab II (Main Project)				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	6				
Course Type	Core				
Credit	3	Hrs/Week	7	Total Hours	126
CO No.	Expected Course Outcomes Upon completion of this course students will be able to:			Cognitive Level	PO, PSO No.
CO1	Identify the real-world problems and evaluate its feasibility			Ap	PO2
CO2	Choose the correct software engineering model to design the system for the identified problem			E	PO5
CO3	Create the application by implementing a new package			C	PSO3
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					

Course Code	CA6VVT01				
Course Title	Viva Voce				
Department	Computer Science				
Programme	Bachelor of Computer Application				
Semester	6				
Course Type	Core				
Credit	1	Hrs/Week	0	Total Hours	
<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course students will be able to:			<b>Cognitive Level</b>	<b>PO, PSO No.</b>
CO1	Develop effective communication skills for presenting ideas.			Ap	PO6
CO2	Prepare for interviews both at the academic and the industrial sector.			Ap	PO6
<b>Cognitive Level: R- Remember, U-Understanding, Ap-Apply, An-Analyze, E-Evaluate, C-Create</b>					