

Annai College of Arts & Science

Quality Education for Today & Tomorrow

Kovilacheri, Kumbakonam. 612 503. Ph: 0435 2453007

Accredited by NAAC with "B" Grade & Recognized by UGC under Section 2(f) & 12(B)

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DEPARTMENT OF BCA

**Attainment of Programme outcome, Programme
Specific outcome with
Course outcome**

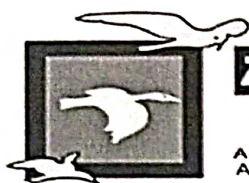

HOD


IQAC

IQAC Co-ordinator,
Annai College of Arts & Science
Kovilacheri, Kumbakonam-612 503


PRINCIPAL

Principal
Annai College of Arts & Science
Kovilachery, Kumbakonam



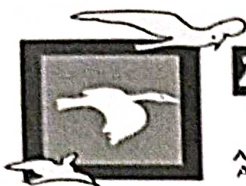
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Programme Outcome:

- PO1:** Able to understand, analyze, understand to implement academic into practical contexts.
- PO2:** Identify and relate connection between theory and applications.
- PO3:** Have an appropriate set of practical skills to ensure a positive career.
- PO4:** Work effectively in a multi-disciplinary environment and scope for endless learning.
- PO5:** Exhibit positive attitudes and values toward the discipline, so that they can contribute to society.
- PO6:** Develop effective communication skills for betterment in employability.
- PO7:** Communication effectively with whom they are communicating and the society to make effective presentations, and deliver clear instructions.
- PO8:** Function effectively as an individual, and can able to be a member or leader even diverse in teams.



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Programme Specific Outcome:

PSO1: Think in a critical manner.

PSO2: Understand the information, and can able to identify, locate, evaluate, and effectively for the issue or problem which arise.

PSO3: Developing algorithm and practical approach in a logical manner.

PSO4: Acquire depth knowledge and can have clear understanding in advanced area of computer learning skills for the chosen course.

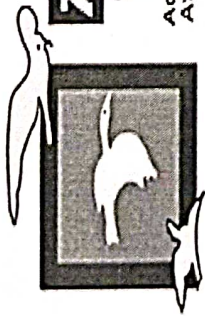
PSO5: Understand, formulate and use live projects like computerization of projects arising in various stages of life.

PSO6: Be able to achieve the tasks using a depth knowledge in software.

PSO7: Encourage his/her creativity for developing new techniques to serve the society.

PSO8: Develop an understanding of the precise knowledge of computer application, and able to integrate commercial with their logical skills.

PSO9: Be a life- long learner who can able to develop his/her life skills.



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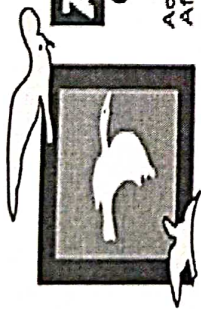
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DEPARTMENT OF BCA

PROGRAMMING IN C-16SCCCA1

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: Finding fundamentals like constants, variables and structure of program.		✓		✓			✓		✓		✓		✓		✓		
CO2: Managing input and output operations for the given variables.	✓			✓			✓			✓		✓			✓		
CO3: Explain conditional, control, and looping structures and knowledge of using them. Find angel of intersection of two curves	✓		✓		✓			✓		✓			✓				✓
CO4: Find solution for group of variables shared by the common name ie. Arrays.	✓																✓
CO5: Finding applications using character strings usages and string arrays with predefined and user defined functions			✓			✓			✓			✓			✓		

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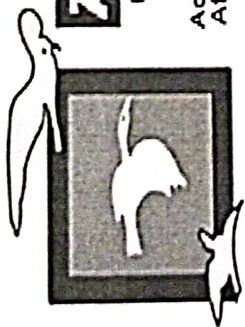
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DEPARTMENT OF BCA

PROGRAMMING IN C++ -16SCCCA2

Course outcome	Programme outcome										Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9		
CO1: Explain properties of object oriented programming with base knowledge of C.	✓				✓		✓		✓		✓			✓				✓	
CO2: To gain knowledge of token, conditional statement and control structure with usage of expressions.		✓			✓		✓			✓			✓			✓			
CO3: Define functions with their type with examples to cultivate the knowledge to peers.	✓			✓			✓		✓			✓		✓				✓	
CO4: Explain about classes and objects and their impact on object oriented programming.		✓			✓			✓			✓			✓		✓			
CO5: To gain knowledge about constructors and destructors and with an implication of new operator.	✓		✓			✓			✓			✓			✓			✓	
CO6: Explain about operator overloading and getting knowledge of type casting of different types of data	✓			✓			✓		✓				✓		✓			✓	

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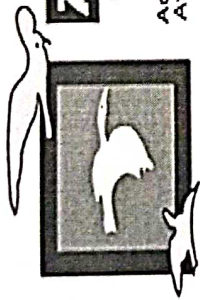
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DEPARTMENT OF BCA

PROGRAMMING IN JAVA -16SCCCA3

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: To compare the object oriented programming languages with structure oriented Programming structure with key OOPs Concepts like inheritance, polymorphism and interface and their impact on JAVA to develop creative thinking , innovation , evaluation and implementing the programming knowledge with practical implementation using basic concepts of the software.	✓		✓	✓			✓		✓		✓		✓		✓		✓
CO2: To gain knowledge in basic concepts, wrapper classes, conditional statements, arrays and strings to include effective development of programming knowledge through practical, Oral and visual	✓		✓		✓		✓		✓			✓		✓		✓	

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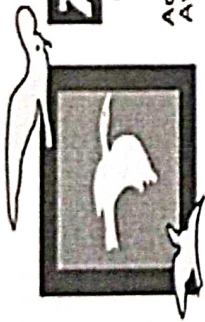
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DEPARTMENT OF BCA

DATABASE SYSTEMS - 16SCCCA4

Course outcome	Programme outcome										Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9		
CO1: To improve our knowledge for storing data in structured or unstructured pattern in the form of database.	✓		✓		✓		✓		✓		✓			✓				✓	
CO2: Describe the various form database languages and relational languages and database architecture.		✓			✓			✓		✓		✓		✓				✓	
CO3: To find out the structure of the relational databases to formulate the relational algebra operations and modifying databases.	✓			✓		✓		✓			✓		✓		✓			✓	
CO4: Develop the knowledge of creating and implementing queries for different conditions.	✓			✓		✓		✓			✓	✓			✓			✓	
CO5: Developing knowledge of constraints in creating the database and developing embedded SQL for using in daily operations.	✓			✓		✓		✓			✓		✓				✓		

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DEPARTMENT OF BCA

DATA STRUCTURES AND ALGORITHMS -16SCCCA5

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: To develop knowledge of data in some presentation like ordered list, stacks and queues.	✓		✓		✓		✓		✓		✓		✓		✓		✓
CO2: Explain polynomial addition in the form of data structures.	✓		✓			✓		✓		✓		✓		✓		✓	
CO3: TO develop different types of trees like binary, threaded binary and representing the data graphically in the form of graphs and to give more examples for representation, spanning trees and transitive closure for visual communication.	✓		✓		✓		✓		✓		✓			✓			✓
CO4: Discuss the behavior of heap, merge, quick sort.	✓		✓		✓			✓			✓		✓			✓	
CO5: Prove theorems of different types of sorting like quick sort and merge sort.	✓		✓		✓		✓		✓		✓			✓		✓	
CO6: Searching is done with quick search and binary search.	✓				✓		✓			✓		✓		✓		✓	

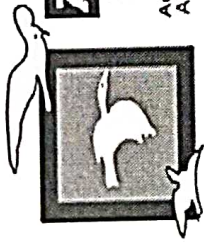
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OPERATING SYSTEMS -16SCCCA6

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: To develop the knowledge in developing different types of operating systems.	✓		✓		✓			✓		✓		✓		✓		✓	
CO2: Ability to handle different types of partition systems and their architectural design.	✓			✓			✓		✓		✓		✓		✓		
CO3: To develop the knowledge in handling different types of scheduling algorithms and policies which is responsible in wide ranges of disciplines such as parallel processing and multiprocessing.		✓		✓		✓		✓		✓		✓			✓		✓
CO4: Ability to handle different types of storage devices like direct access storage devices.	✓		✓		✓			✓		✓		✓		✓			✓
CO5: Ability to apply intuitions gained from linear algebra to other seemingly unrelated areas of mathematics.	✓		✓			✓			✓		✓		✓		✓		
CO6: To develop knowledge for types of file system and their access storage time.	✓		✓		✓			✓		✓			✓		✓		✓



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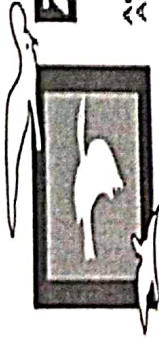
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DIGITAL COMPUTER FUNDAMENTALS -16SCCCA7

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: To learn about number system and different conversion and correcting the numbers.	✓			✓			✓			✓		✓	✓		✓		
CO2: Determine and apply different types of logical gates, bipolar logic gates and their applications especially XOR gates, De Morgan's theorem.	✓	✓		✓		✓	✓			✓		✓	✓	✓			✓
CO3: To gain the knowledge in simplifying NAND or AND gate to deal with don't care conditions states.	✓		✓			✓			✓			✓			✓		
CO4: Apply different types of logic circuits like half adder, full adder, BCD adder, sub tractor.		✓			✓			✓		✓			✓			✓	
CO4: To gain knowledge in flip-flops, RS flip flops and conversion of flip flops.		✓			✓			✓		✓			✓			✓	



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COMPUTER GRAPHICS -16SMBECA1:1

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: Discuss about computer graphics systems like video display devices, raster and random scan systems, graphics monitors.	✓		✓		✓			✓		✓			✓			✓	
CO2: Discuss about line drawing algorithm the linear transformations, rank nullity.	✓	✓			✓		✓		✓		✓		✓			✓	
CO3: To gain the knowledge for loading line, circle generation and area filling attributes drawing functions.	✓		✓	✓		✓		✓		✓			✓		✓		✓
CO4: To learn the basic transformation and matrix transformation and different types of transformation like composite transformations, window to view port co-ordinate transformations.	✓		✓		✓				✓		✓			✓			✓
CO5: To learn the different types of clipping like point line, Cohen	✓		✓			✓		✓			✓				✓		✓

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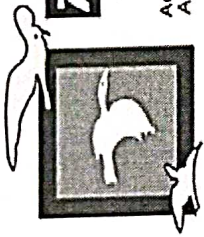


COMPUTER NETWORKS -16SCCA8

COMPUTER NETWORKS -16SCCCA8

Course outcome		Programme outcome								Programme Specific outcome								
		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: To gain knowledge in physical layer and network types and protocols for bandwidth utilization. To gain knowledge of different type transmission media and bandwidth utilization like multiplexing, spread spectrum.		✓		✓			✓				✓		✓		✓		✓	
CO2: Develop the knowledge error correction cyclic codes and forward error correction which will help peers to constructs cellular phones and Bluetooth technology and satellite network.		✓		✓			✓				✓			✓		✓		✓
CO3: To find the effective best services and packet switching and network layer performance.		✓			✓			✓						✓		✓		✓
CO4: Develop the knowledge in transport layers and user datagram		✓			✓			✓					✓			✓		✓

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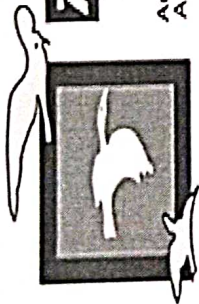
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PROGRAMMING IN PHP -16SCCCA9

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: Understand the essentials of PHP and find the importance in web page creation.	✓		✓		✓		✓			✓		✓		✓		✓	
CO2: Understand the meaning of derivative of a function.	✓			✓		✓		✓		✓		✓			✓		✓
CO3: Gain knowledge of acquiring data in Web Pages, and PHP Browser and Handling.	✓				✓		✓			✓		✓		✓		✓	
CO4: Understand the Object Oriented Programming concepts.	✓		✓		✓		✓		✓			✓		✓		✓	
CO5: Gain Knowledge of advanced Object Oriented Programming.	✓		✓			✓	✓		✓				✓		✓		✓
CO6: Knowledge in different file handling.		✓	✓		✓		✓			✓		✓		✓			✓
CO7: Understand the concepts of Working with database.	✓		✓		✓		✓		✓				✓	✓	✓		✓
CO8: Understand the concept of	✓		✓		✓		✓			✓		✓		✓			✓

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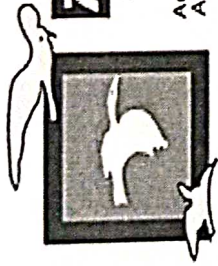
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DEPARTMENT OF BCA

MOBILE COMPUTING -16SMEBECA4:2

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: Understand the concept of mobile communications and its architecture and the disseminations and mobility management and security.	✓		✓		✓		✓		✓			✓		✓			✓
CO2: Understand the mobile system networks and data dissemination and mobility management.	✓		✓		✓		✓		✓				✓		✓		✓
CO3: To gain knowledge and mobile phones, digital music players and handheld pocket computers and handheld devices with operating systems power.	✓		✓			✓		✓				✓		✓		✓	
CO4: Understanding the object oriented programming.	✓	✓		✓		✓		✓	✓			✓		✓		✓	✓
CO5: Gain knowledge of advanced object oriented programming.	✓		✓	✓				✓	✓			✓		✓			✓

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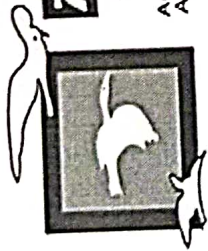


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CORAL DRAW – 16RSBE4:2

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: Can able to acquire the concept of user interface, geometric figures.	✓		✓		✓		✓		✓			✓	✓		✓		✓
CO2: Coral draw is a vector based applications.	✓	✓		✓			✓		✓		✓		✓		✓		✓
CO3: Can understand the layers concept well.	✓		✓		✓		✓		✓		✓		✓	✓		✓	
CO4: Will have a knowledge of working with bitmap and vector.	✓			✓			✓			✓			✓		✓		✓

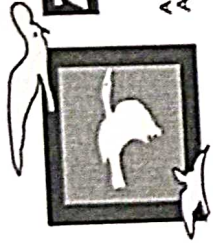


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DREAM WEAVER-16RSBE4:3

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	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: Can able to use adobe dream weaver to create personal and professional website.	✓		✓		✓			✓			✓			✓		✓	
CO2: Can able to develop a design and create the basic multipage website.	✓	✓		✓		✓			✓			✓		✓			✓
CO3: Will develop standalone FTP program to upload files to web servers.	✓		✓		✓		✓		✓			✓		✓	✓		✓
CO4: Able to become a better professional in website development and design.	✓		✓		✓		✓		✓				✓		✓		✓



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PROGRAMMING IN C(P) -16SCCCA1P

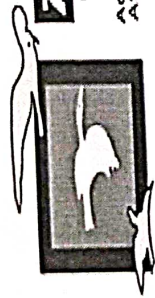
Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: Finding fundamentals like constants, variables and structure of program.	✓			✓			✓		✓			✓	✓		✓		✓
CO2: Managing input and output operations for the given variables.	✓		✓		✓		✓		✓		✓		✓		✓		
CO3: Explain conditional, control, and looping structures and knowledge of using them. Find angel of intersection of two curves.	✓	✓		✓	✓		✓	✓		✓	✓			✓		✓	
CO4: Find solution for group of variables shared by the common name i.e. Arrays.	✓		✓		✓		✓		✓	✓		✓		✓		✓	
CO5: Finding applications using character strings usages and string arrays with predefined and user defined functions.	✓		✓		✓		✓		✓		✓				✓		
CO6: Define structures and their implications in terms of C.	✓	✓	✓			✓	✓			✓		✓		✓		✓	

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PROGRAMMING IN C++(P) - 16SCCCA2P										Programme Specific outcome								
Course outcome		Programme outcome																
		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: To impart the basic concepts of Java Programming and to develop understanding about Basic Objected Oriented Design.	✓		✓		✓			✓			✓		✓		✓			✓
CO2: Explain about classes and objects and their impact on object oriented programming.	✓		✓		✓			✓		✓		✓		✓		✓		
CO3: key structured programming constructs: declarations, sequence, selection, repetition, evaluating expressions.			✓				✓			✓		✓		✓		✓		
CO4: Be familiar with using C++ functions and the concepts related to good modular design.	✓	✓	✓			✓			✓	✓		✓		✓		✓		✓
CO5: C++ using one-dimensional and two-dimensional arrays	✓			✓		✓			✓	✓		✓		✓				
CO6: Be familiar with using C++ structures, pointers and reference parameters, and text file input/output.	✓			✓				✓		✓		✓				✓		✓



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PROGRAMMING IN JAVA(P) -16SCCCA3P

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: TO impart the basic concepts of Java Programming and to develop understanding about Basic Object Oriented Design using UML and Applet.	✓		✓		✓		✓		✓		✓		✓		✓		✓
CO2: Understands fundamental constructs of OOP.	✓		✓		✓			✓			✓		✓		✓		✓
CO3: Get the knowledge of UML with skills to draw UML diagrams.	✓	✓		✓		✓			✓		✓		✓		✓		✓
CO4: Gets the knowledge of different forms of OOP implementation.	✓		✓		✓		✓			✓		✓		✓		✓	
CO5: Apply object oriented programming concepts in problem solving through JAVA.	✓		✓		✓		✓		✓		✓		✓		✓		
CO6: Design and implement Applet and event handling mechanisms in programs.	✓		✓			✓		✓				✓		✓		✓	



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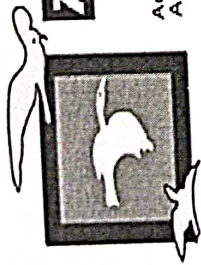
COMPUTER GRAPHICS AND ANIMATION (P)-16SCCCA5P

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PROGRAMMING IN PHP (P)-16SCCA6P

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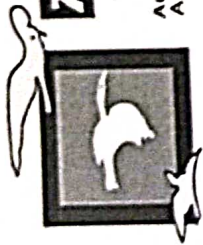
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PROGRAMMING IN C -16SCCCS1

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: Finding fundamentals like constants, variables and structure of program.	✓	✓		✓	✓				✓	✓			✓			✓	
CO2: Managing input and output operations for the given variables.	✓		✓	✓		✓		✓	✓	✓		✓		✓			
CO3: Explain conditional, control, and looping structures and knowledge of using them. Find angel of intersection of two curves	✓		✓	✓	✓	✓		✓		✓			✓		✓		
CO4: Find solution for group of variables shared by the common name ie. Arrays.																	
CO5: Finding applications using character strings usages and	✓		✓			✓		✓			✓		✓			✓	

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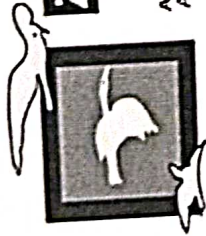
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PROGRAMMING IN C++ -16SCCCS2

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: Explain properties of object oriented programming with base knowledge of C.	✓			✓		✓		✓		✓			✓		✓		✓
CO2: To gain knowledge of token, conditional statement and control structure with usage of expressions.		✓		✓		✓			✓					✓			✓
CO3: Define functions with their type with examples to cultivate the knowledge to peers.		✓			✓			✓		✓	✓		✓			✓	
CO4: Explain about classes and objects and their impact on object oriented programming.	✓				✓			✓			✓			✓			✓
CO5: To gain knowledge about constructors and destructors and with an implication of new operator.	✓			✓				✓		✓			✓			✓	

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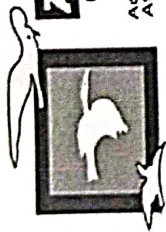
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PROGRAMMING IN JAVA -16SCCCS3

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: To compare the object oriented programming languages with structure oriented Programming structure with key OOPs Concepts like inheritance, polymorphism and interface and their impact on JAVA to develop creative thinking , innovation , evaluation and implementing the programming knowledge with practical implementation using basic concepts of the software.	✓				✓				✓			✓		✓			
CO2: To gain knowledge in basic concepts, wrapper classes, conditional statements, arrays and strings to include effective development of programming knowledge through	✓		✓				✓		✓			✓			✓		

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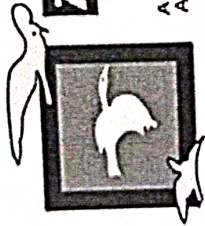
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DATABASE SYSTEMS - 16SCCCS4

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: To improve our knowledge for storing data in structured or unstructured pattern in the form of database.	✓			✓		✓			✓			✓		✓			
CO2: Describe the various form database languages and relational languages and database architecture.	✓		✓			✓			✓			✓					
CO3: To find out the structure of the relational databases to formulate the relational algebra operations and modifying databases.		✓						✓			✓			✓			✓
CO4: Develop the knowledge of creating and implementing queries for different conditions.	✓			✓			✓			✓			✓			✓	
CO5: Developing knowledge of constraints in creating the database and developing embedded SQL for using in daily operations.	✓			✓				✓			✓			✓			✓

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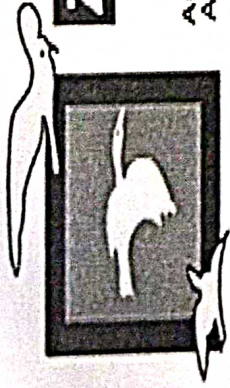
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DATA STRUCTURES AND ALGORITHMS -16SCCCS5

Course outcome	Programme outcome								Programme Specific outcome								
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9
CO1: To develop knowledge of data in some presentation like ordered list, stacks and queues.	✓			✓			✓		✓			✓		✓			✓
CO2: Explain polynomial addition in the form of data structures.		✓			✓			✓			✓			✓			✓
CO3: TO develop different types of trees like binary, threaded binary and representing the data graphically in the form of graphs and to give more examples for representation, spanning trees and transitive closure for visual communication.	✓		✓			✓			✓			✓		✓			✓
CO4: Discuss the behavior of heap, merge, quick sort.	✓		✓			✓			✓			✓			✓		
CO5: Prove theorems of different types of sorting like quick sort and merge sort.	✓		✓				✓			✓			✓			✓	

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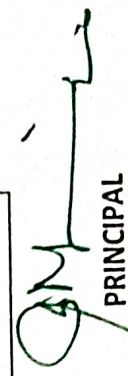
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Overall Attainment of PO, PSO and CO

PARAMETERS	2020-21
Pass Percentage	100%
University Rank Holders	-----
No.of Students Pursuing Higher Education	33
No.Of Students Placed	03
No.Of Students Self Employed/Entrepreneur	-----
Internship/Field Projects	-----
Industrial Visits	-----
Other Co Curriculum Activities(Seminar/Webinars , and Conferences)	1. TECHTRIX 2. STEMEM 3. STEMEM 2.0
Subject games	-----
Case Studies/Role play/Quizzes)	----
Workshops	-----
Bridge Courses	1. OPEN SOURCE TECHNOLOGIES 2. ANDROID
Extra Curricular Activities (Sports and Fine Arts)	-----


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Principal
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