



A.D.M. COLLEGE FOR WOMEN

(Autonomous)

Affiliated to Bharathidasan University

(Nationally Accredited with "A" Grade by NAAC – 3rd Cycle)

NAGAPATTINAM 611 001.

DEPARTMENT OF COMPUTER SCIENCE

Programme: B.C.A

PO No.	Programme Outcomes <i>Upon completion of the BCA Programme, the graduate will be able to</i>
PO 1:	Academic Excellence: Academic excellence through effective delivery of course contents. Goal-Oriented and Life-Long Education: Setting short term, medium, and long term goals and achieving them in a global competitive perspective.
PO 2:	Social Consciousness : Develop committed and socially responsible individuals and help them take up active and positive roles in society
PO 3:	Technical Knowledge: To find, utilize and create content using information technologies and the internet.
PO 4:	Entrepreneurial Development: They would develop business acumen, analytical skills, financial literacy necessary to appreciate the dynamic nature of commerce and industry
PO 5:	Research and practical knowledge: Using research knowledge and aptitude acquired in the course of study for solving problems and face modern day challenges. Project Work and Viva: To help them develop the ability to participate in academic discussions.

PSO No.	Programme Specific Outcomes <i>Upon completion of these courses the student would</i>
PSO 1:	Acquire skill and information not only about computer and information technology but also in organization and management. Prepare student for roles pertaining to computer applications and IT industry
PSO 2:	Develop programming skills, networking skills, learn applications, packages, programming languages and modern techniques of IT
PSO 3:	Learn programming language such as Java, C++, HTML, SQL, Dotnet, etc... Prepare the learners to get placed in reputed organisations
PSO 4:	Provide information about various computer applications and latest development in IT and communication system
PSO 5:	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Course Title		MAJOR CORE 1 – C PROGRAMMING		
Code		BKA		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Understand the basic terminology of algorithm, flowchart and gain awareness used in computer programming.	PSO 1	U,R	
CO-2	Design programs involving the various concepts like decision structures, loops, functions of C language.	PSO 4	Ap	
CO-3	Demonstrate the single, multi-dimensional arrays, String functions and user defined functions.	PSO 2	U,An	
CO-4	Compare the structure and union of C and apply it to construct array of structures and structure function.	PSO 3	An	
CO-5	Understand the dynamics of memory by the use of pointers and pointers with functions	PSO 4	U,An	

Course Title		MAJOR CORE 4: OBJECT ORIENTED PROGRAMMING USING C++		
Code		BKD		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Learn the basic concepts in Object-Oriented programming	PSO 2	U	
CO-2	Develop programming skills by applying Object-Oriented programming	PSO 2	An	
CO-3	Discuss the function overloading and Member Functions	PSO 2	An	
CO-4	Understand the concepts of Constructors and Inheritance	PSO 5, PSO1	An	
CO-5	An Ability to incorporate Exception Handling in Object-Oriented programs and analyze File Input/Output Streams.	PSO 1. PSO 3	C	

Course Title		1 ALLIED COURSE II – ELEMENTS OF ACCOUNTING		
Code		BKA2		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Preparing financial statements in accordance with appropriate standards.	PSO 1	C	
CO-2	Prepare ledger accounts using double entry bookkeeping and record journal entries accordingly.	PSO 2	Ap	
CO-3	Interpreting the business implications of financial statement information	PSO 2	Ap	
CO-4	Communicating complex ideas in writing and through oral presentations and Working effectively in diverse team settings	PSO 3	An	
CO-5	Effectively coordinating and motivating a group to achieve its best output	PSO 4	U	

Course Title		MAJOR CORE 6 – JAVA PROGRAMMING		
Code		BKF		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Read and understand Java-based software code of medium-to-high complexity.	PSO 4	U	
CO-2	Use standard and third party Java's API's when writing applications.	PSO 2	A	
CO-3	Understand the basic principles of creating Java applications with graphical user interface (GUI).	PSO 5	U	
CO-4	Understand the basic approaches to the design of software applications.	PSO 2	A	
CO-5	Read and make elementary modifications to Java programs that solve real-world problems.	PSO 3	R, U	

Course Title		MAJOR CORE 6 – DATA STRUCTURES AND ALGORITHMS		
Code		BKH		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Learn the fundamental Concepts of Data Structures and understand the working principles of Linked List, Stack, Queue and Trees.	PSO 1	C	
CO-2	Determine the applications of Linked List, Stack, Queue and Trees.	PSO 4	Ap	
CO-3	Grasp various operations and searching methods applied using Binary Tree.	PSO 2	An	
CO-4	Demonstrate understanding of various sorting algorithms, including insertion sort, selection sort, merge sort, heap sort and quick sort.	PSO 3	An	
CO-5	Comprehend various Algorithm Design Strategies.	PSO 4	An	

Course Title		2 ALLIED COURSE II – FINANCIAL MANAGEMENT		
Code		BKA5		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Preparing accounting information for planning control.	PSO 1	C	
CO-2	Control and for the evaluation of finance.	PSO 2	Ap	
CO-3	Prepare Bank reconciliation statement from incomplete statement	PSO 2	Ap	
CO-4	Explain the purpose of double entry system to understanding the accounting system properly.	PSO 3	An	
CO-5	Preparation of ratification errors.	PSO 4	U	

Course Title		MAJOR CORE 11 – OPERATING SYSTEMS		
Code		BKK		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Understand the basic concept of Computer System and Operating System Structure	PSO 1	R	
CO-2	Gain Knowledge of the fundamental aspects of process and processor managements with deadlocks and CPU scheduling	PSO 2	Ap	
CO-3	Introduce memory and virtual memory techniques	PSO 2	Ap	
CO-4	Understand files, directories and its accessing methods and its structures	PSO 3	An	
CO-5	Ability to know mass storage devices and its scheduling and understand the security on the operating system and protection mechanisms.	PSO 4	U	

Course Title		MAJOR CORE 12 – SOFTWARE ENGINEERING		
Code		BKL		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	An ability to design and conduct experiments, as well as to analyze and interpret data.	PSO 3	R, U	
CO-2	An ability to function on multi-disciplinary teams.	PSO 1	R	
CO-3	An ability to identify, formulate, and solve engineering problems.	PSO 5	Ap	
CO-4	An understanding of professional and ethical responsibility.	PSO 2	Ap	
CO-5	Students can apply the knowledge, techniques, and skills in the development of a software product.	PSO 1	Ap	

Course Title		MAJOR ELECTIVE 1: COMPUTER GRAPHICS		
Code		BKE3		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Understand the basics of computer graphics, different graphics systems and applications of computer graphics.	PSO 5	E, U	
CO-2	Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis.	PSO 2	U	
CO-3	Use of geometric transformations on graphics objects and their application in composite form.	PSO 2	U	
CO-4	Extract scene with different clipping methods and its transformation to graphics display device.	PSO 1	An	
CO-5	Explore projections and visible surface detection techniques for display of 3D scene on 2D screen.	PSO 5	An	

Course Title		Major Core 12 – DATABASE SYSTEMS		
Code		BKM		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Emphasize the need, role, importance and uses of databases in application development	PSO 1	R, U	
CO-2	Design E-R modeling for a given situation and provide the foundation for development of relational database structure.	PSO 2	U	
CO-3	Identify the advantages of the database approach over the file based data storage system.	PSO 2	U	
CO-4	Distinguish between different models of file organizing, storing and using of data.	PSO 3	U	
CO-5	Understand the relational model and relational algebra operations and apply PL/SQL procedural interfaces statement on relational tables as per requirements.	PSO 4	An	

Course Title		Major Core 12 – DATABASE SYSTEMS	
Code		BKM	
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Emphasize the need, role, importance and uses of databases in application development	PSO 1	R, U
CO-2	Design E-R modeling for a given situation and provide the foundation for development of relational database structure.	PSO 2	U
CO-3	Identify the advantages of the database approach over the file based data storage system.	PSO 2	U
CO-4	Distinguish between different models of file organizing, storing and using of data.	PSO 3	U
CO-5	Understand the relational model and relational algebra operations and apply PL/SQL procedural interfaces statement on relational tables as per requirements.	PSO 4	An

Course Title		MAJOR BASED ELECTIVE 2– CLOUD COMPUTING	
Code		BKE4	
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	To learn how to use Cloud Services.	PSO 1	R, U
CO-2	To implement Virtualization and Task Scheduling algorithms.	PSO 2	U
CO-3	Apply Map-Reduce concept to applications.	PSO 2	U
CO-4	To build Private Cloud.	PSO 3	U
CO-5	Broadly educate to know the impact of engineering on legal and societal issues involved.	PSO 4	An

Course Title		MAJOR BASED ELECTIVE 2– CLOUD COMPUTING		
Code		BKE4		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	To learn how to use Cloud Services.	PSO 1	R, U	
CO-2	To implement Virtualization and Task Scheduling algorithms.	PSO 2	U	
CO-3	Apply Map-Reduce concept to applications.	PSO 2	U	
CO-4	To build Private Cloud.	PSO 3	U	
CO-5	Broadly educate to know the impact of engineering on legal and societal issues involved.	PSO 4	An	

Course Title		MAJOR ELECTIVE 3 – PYTHON PROGRAMMING		
Code		BKE5		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Acquired the fundamental knowledge on Python programming	PSO 1	R, U	
CO-2	Known the usage of modules and packages in python	PSO 1 & PSO 2	R	
CO-3	Familiarity with the file concept in python	PSO 2	U	
CO-4	Been skillful experimenting the concepts of oops with python language	PSO 2	U	
CO-5	Become capable of solving problems using Python	PSO 1 & PSO 2	An	

Course Title		MAJOR CORE 15 – DATABASE SYSTEMS LAB		
Code		BKNY		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Design and implement a database schema for a given problem-domain Normalize a database.	PSO 2	R,U	
CO-2	Declare and enforce integrity constraints on a database using a state-of-the-art RDBMS	PSO 2,6	R,U	
CO-3	Programming PL/SQL including stored procedures, stored functions, cursors, packages	PSO 2	U	
CO-4	Analyze and design a real database application.	PSO 3	Ap	
CO-5	Develop and evaluate a real database application using a database management system.	PSO 4	U	

Course Title		SKILL BASED ELECTIVE 3: ANDROID LAB		
Code		BKS3Y		
CO No.	Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Use Intent , Broadcast receivers and Internet services in Android App.	PSO 1	R, U	
CO-2	Design and implement Database Application and Content providers.	PSO 5	R, A	
CO-3	Use multimedia, camera and Location based services in Android App.	PSO 1	U	
CO-4	Discuss various security issues in Android platform	PSO 1	R, A	
CO-5	Demonstrate their ability to debug programs running on mobile devices	PSO 3	A	