

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	ProgrammeOutcomes						
No.	Upon completion of the BCA Programme, the graduate will be ableto						
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.						

	Programme Specific Outcomes
PSO	Upon completion of these courses thestudent would
No.	
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	KUA			
CO No.		Course Outcomes	PSOs	Cognitive	
CO 110.		Course Outcomes	Addressed	Level	
CO-1	Understand the basic	terminology of algorithm, flowchart and gain	PSO 1	U,R	
	awareness used in cor	nputer programming.			
CO-2	Design programs in	volving the various concepts like decision	PSO 4	Ap	
	structures, loops, fund	ctions of C language.			
CO-3	Demonstrate the single	le, multi-dimensional arrays, String functions	PSO 2	U,An	
	and user defined func	tions.			
CO-4	Compare the structure	re and union of C and apply it to construct	PSO 3	An	
	array of structures and				
CO-5	Understand the dynan	nics of memory by the use of pointers and	PSO 4	U,An	
	pointers with function	as			

Course Title	MAJOR CORE 4: OBJECT ORIENTED PROGRAMMING USING C++						
Code	KUD						
CO No.	Course Outcomes	PSOs	Cognitive				
		Addressed	Level				
CO-1	Learn the basic concepts in Object-Oriented programming	PSO 2	U				
	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				
	An Ability to incorporate Exception Handling in Object- Oriented programs and analyze File Input/Output Streams.	PSO 1. PSO 3	С				

Course Title		1 ALLIED COURSE II – ELEMENTS OF ACCOUNTING			
	Code		KUA	2	
CO No.		Course Outcome	es	PSOs	Cognitive
				Addressed	Level
CO-1	Preparing financi	al statements in	accordance with	h PSO 1	C
	appropriate standa	ds.			
CO-2	Prepare ledger acc	ounts using double	e entry bookkeepin	g	
	and record journal	entries accordingly	<i>7</i> .	PSO 2	Ap
	Interpreting the	•	tions of financia	PSO 2	Ap
	statement informati				
	Communicating con	•		DGO A	
	presentations and	Working effective	ely in diverse tean	n PSO 3	An
	settings				
	Effectively coordi	· ·	ating a group to	o PSO 4	U
	achieve its best out	out			

C	ourse Title	CORE COURSE VI JAVA PROGRAMMING			
	Code	KUF			
CO No.		Course Outcomes	PSOs	Cognitive	
			Addressed	Level	
CO-1	Read and understanto-high complexity.	d Java-based software code of medium-	PSO 4	U	
CO-2	Use standard and third party Java's API's when writing PSO 2 applications.				
CO-3	Understand the basi with graphical user i	c principles of creating Java applications interface (GUI).	PSO 5	U	
CO-4	Understand the bas applications.	ic approaches to the design of software	PSO 2	A	
CO-5	Read and make element that solve real-world	nentary modifications to Java programs l problems.	PSO 3	R, U	

Cours CORE COURSE STATES TO THE COURSE STATES TO TH				
Code KUH			EMB	
CO No.		Course Outcomes	PSOs	Cognitive
			Addressed	Level
CO-1	Emphasize the need, role, importance and uses of databases PSO 1 R, U in application development			
CO-2	Design E-R modeling for a given situation and provide the PSO 2 U foundation for development of relational database structure.			
CO-3	· ·	e advantages of the database approach over the file storage system.	PSO 2	U
CO-4	Ü	n between different models of file organizing, lusing of data.	PSO 3	U
CO-5	Understand operations.	d the relational model and relational algebra	PSO 4	An

CourseTitle		SKILL BASED ELECTIVE I R PROGRAMMING LAB				
Cod	le	KUS1Y	KUS1Y			
CO No.	Course	Outcomes	PSOs Addressed	Cognitive Level		
CO-1	Understand the fundamental syntax of R through demonstrations and writing R code PSO 1			R, U		
CO-2		ncepts such as data types, iteration, control , functions, and boolean operators using R	PSO 1 & PSO 2	R		
CO-3	Able to in Studio	nport a variety of data formats into R using R	PSO 2	U		
CO-4	Explore dusing R	ata-sets to perform appropriate statistical tests	PSO 2	U		
CO-5	Acquire s using R	kills to generate charts and graphs visualization	PSO 1 & PSO 2	An		

CourseTitle		CORE COURSE X			
		COMPUTER NETWORKS			
C	ode	KUJ			
CO		Course Outcomes	PSOs	Cognitive	
No.			Addressed	Level	
CO-1	Work with in	iternet concepts	PSO 5	E, U	
CO-2		with the functionality of each layer of OSI reference model.	PSO 2	U	
CO-3	Build up a cl	ear concern on the networking technologies	PSO 2	U	
CO-4	Understand components	the data communication system, and the purpose of layered architecture.	PSO 1	An	
CO-5	Understand t	he services of data link layer and protocols	PSO 5	An	

Course Title		CORE COURSE XI PYTHON PROGRAMMING			
Co	ode	KUF	K		
CO No.		Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	Describe the b Python program	asic built-in functions and syntax of ming.	PSO 1	R, U	
CO-2	Explain the map	pping and file concept.	PSO 5	R, A	
CO-3	Explain the obje	ect oriented programming concept.	PSO 1	U	
CO-4	Illustrate the constatements.	ncepts of decision making and construct	PSO 1	R, A	
CO-5	Illustrate the usa	age of database and regular expression	PSO 3	A	

Cou Title		MAJOR BASED ELECTIVE I MOBILE COMPUTING			
Co	de	KUE3	KUE3		
CO No.		Course Outcomes	PSOs Addressed	Cognitive Level	
CO-1	To explore Mob	oile security issues.	PSO 4	U	
CO-2		nultimedia, camera and Location n Android Application	PSO 2	A	
CO-3	To be famili	arized with Intent, Broadcast sternet services.	PSO 5	U	
CO-4	To learn actidesigning.	vity creation and Android UI	PSO 2	A	
CO-5	To understand Communication	IP and TCP layers of Mobile	PSO 3	R, U	

Course Title	CORE COURSE XII SOFTWARE ENGINEERING				
Code		KUL			
CO No.		Course Outcomes	PSOs	Cognitive	
			Addressed	Level	
GO 1	An ability to des	sign and conduct experiments, as			
CO-1	well as to analyz	ze and interpret data.	PSO 2	R, U	
GO 2	An ability to fur	nction on multi-disciplinary teams.			
CO-2			PSO 2,6	R, An	
CO-3	An ability to ide	entify, formulate, and solve	PSO 2	U, A	
	engineering pro	blems.			
CO-4	An understandir	ng of professional and ethical	PSO 3	R	
	responsibility.				
CO 5	Students can app	ply the knowledge, techniques, and			
CO-5	skills in the dev	elopment of a software product.	PSO 4	R,An	

Course Title		MAJOR BASED ELECTIVE I BIG DATA ANALYTICS		
	Code	KUE3		
CO No.		Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Demonstrate the westores	orking of row and column oriented data	PSO 4	U
CO-2	Describe the Hadoo	pp architecture and File system	PSO 2	A
CO-3	Apply the MapRed problems	PSO 5	U	
CO-4	Distinguish NoSQI	databases from RDBMS	PSO 2	A
CO-5	Define the big data of bigdata analytics	types of data and understand the need	PSO 3	R, U

Course Title		SKILL BASED ELECTIVE II PYTHON AND BIO INFORMATICS LAB		
	Code	KUS2Y		
CO No.		Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	On completion of the	ne Course, the learner will be able to	PSO 4	U
CO-2	Practice the Pyth scratch: its syntax,	PSO 2	A	
CO-3	Illustrate the essentials of the Python library, and learn how to learn about other parts of the library when you need them.			U
CO-4	Interpret the mathematical results in physical and other forms. PSO 2 A			A
CO-5	Identify, formulate Equations.	e and solve the Linear Differential	PSO 3	R, U

Course Title		SKILL BASED ELECTIVE II OPEN SOURCE PRODUCT LAB		
	Code	KUS2Y		
CO		Course Outcomes	PSOs	Cognitive
No.			Addressed	Level
CO-1	Implement various	applications using build systems	PSO 4	U
CO-2	Understand the installation of various packages in open		PSO 2	A
	source operating sy	stems		
CO-3	Create simple GUI	applications	PSO 5	U
CO-4	Explore different o	PSO 2	A	
	& MySQL with dif	ferent packages.		
CO-5	Execute programs of	of PHP with MySQL connection	PSO 3	R, U

Course Title		SKILL BASED ELECTIVE III ANDROID LAB		
	Code	KUS3Y		
CO No.		Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Use Intent, Broad Android App.	lcast receivers and Internet services in	PSO 4	U
CO-2	Design and implement providers.	PSO 2	A	
CO-3	Use multimedia, camera and Location based services in PSO 5 U Android App.			U
CO-4	Discuss various security issues in Android platform. PSO 2 A			A
CO-5	Demonstrate their Android operating	understanding of the fundamentals of system	PSO 3	R, U

Course Title		SKILL BASED ELECTIVE III MULTIMEDIA LAB		
	Code	KUS3Y		
CO		Course Outcomes	PSOs	Cognitive
No.			Addressed	Level
CO-1	To learn and under System	erstand technical aspect of Multimedia	PSO 4	U
CO-2	To Design and implement an animation for various PSO 2 A themes.			A
CO-3	To Prepare multime	edia advertisement.	PSO 5	U
CO-4	To Develop vario real time.	us Multimedia Systems applicable in	PSO 2	A
CO-5	To develop mult performance of the	imedia application and analyze the same.	PSO 3	R, U

Course Title		CORE COURSE I OPERATING SYS		
	Code KUM			
CO		PSOs	Cognitive	
No.			Addressed	Level
CO-1	Understand the ba	sic concept of Computer System and	PSO 4	U
	Operating System S	Structure	120.	C
CO-2	Gain Knowledge	of the fundamental aspects of process	PSO 2	A
	and processor ma	nagements with deadlocks and CPU		
	scheduling			
CO-3	Introduce memory	and virtual memory techniques	PSO 5	U
CO-4	Understand files,	directories and its accessing methods	PSO 2	A
	and its structures			
CO-5	Ability to know ma	ass storage devices and its scheduling	PSO 3	R, U

Course Title		CORE COURSE XIV WEB TECHNOLOGY		
	Code	KUN		
CO			PSOs	Cognitive
No.			Addressed	Level
CO-1	Illustrate the web	technology concept to create schemas	PSO 4	U
	and dynamic web p	pages.		
CO-2	Understand the con	PSO 2	A	
	effect in HTML and	d XML documents.		
CO-3	Describe the m	nark-up languages for processing,	PSO 5	U
	identifying and pre-	senting information in web pages.		
CO-4	Apply scripting la	inguages in HTML document to add	PSO 2	A
	interactive compon	ents to web pages		
CO-5	Define the knowled	lge about HTML document with	PSO 3	R, U
	element types, hype	erlinks, images, list, tables and forms		

	Course MAJOR BASED ELEC Title COMPUTER GRAP			
	Code			
CO		Course Outcomes	PSOs	Cognitive
No.			Addressed	Level
CO-1		asics of computer graphics, different applications of computer graphics.	PSO 4	U
CO-2	Discuss various alg	PSO 2	A	
CO-3	Use of geometric transformations on graphics objects and PSO 5 their application in composite form.			
CO-4		h different clipping methods and its raphics display device.	PSO 2	A
CO-5	Understands light i	nteraction with 3D scenes	PSO 3	R, U

Course		MAJOR BASED ELECTIVE II			
	Title	CYBER SECURITY			
	Code	KUE4			
CO		Course Outcomes	PSOs	Cognitive	
No.			Addressed	Level	
CO-1	·	lve security issues in networks and o secure an IT infrastructure.	PSO 4	U	
CO-2	Design, develop, te	st and evaluate secure software.	PSO 2	A	
CO-3	Develop policies security risks.	and procedures to manage enterprise	PSO 5	U	
CO-4	Analyze the technic	ques of Symmetric Key.	PSO 2	A	
CO-5	Algorithms and Pul	olic Key Algorithms.	PSO 3	R, U	

	Course	MAJOR BASED ELECTIVE III		
Title		WEB TECHNOLOGY AND		
		BIOINFORMATICS	S LAB	
	Code	KUE5Y		
CO		Course Outcomes	PSOs	Cognitive
No.			Addressed	Level
CO-1	Identify the operator	ors to learn the basic HTML commands	PSO 4	U
CO-2	Understand the con Style sheets.	ncept of Hyperlinks, Use of Cascading	PSO 2	A
CO-3	Implement HTM applications	L concept in developing simple	PSO 5	U
CO-4	Implementing the Mutation.	techniques for DNA Transcription and	PSO 2	A
CO-5	Analyze a web attributes	page and identify its elements and	PSO 3	R, U

Course MAJOR BASED ELE		CTIVE III		
Title UI/UX Design and Animat		ion Lab using		
		Open Source Tools	s Lab	
	Code	KUE5Y		
CO		Course Outcomes	PSOs	Cognitive
No.			Addressed	Level
CO-1	Understand the Usability of Interactive systems. PSO 4 U			U
CO-2	Understand Guidelines and Principles			A
CO-3	Be able to mar interaction styles.	nage the development process and	PSO 5	U
CO-4	Explain the func software	tionality of different design related	PSO 2	A
CO-5	Use learned skills t	o solve problems of various layouts	PSO 3	R, U