

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF INFORMATION TECHNOLOGY B.Sc. DEGREE PROGRAMME ININFORMATION TECHNOLOGY

PROGRAMME EDUCATIONAL OBJECTIVES				
The Graduate	es will			
PEO1.	design, develop and test IT based software systems in software industries /institutionsandexcelin higher studies			
PEO2.	utilizethe future technologies to provide solutions to IT based problems and sustain research activities with ethics, managerial skills and quality control required to maintain professionalism in the IT industries.			
PEO3.	adapt to recent trends of IT by life-long learning and become self employed by developing software			

PROGRAMME SPECIFIC OUTCOMES				
By the Comp	bletion of B.Sc. Information Technology programme, the learners will be able to			
PSO1.	apply the acquired technical knowledge of Information Technology to solve problems in different fields of Information Technology			
PSO2.	identify, design and develop software/hardware solutions to meet the needs of IT industry			
PSO3.	select and apply recent techniquesandtoolsnecessary for integrating IT-basedsolutionsinto the user environment effectively			
PSO4.	create visual presentations and maintain project documents as per the technical standards			
PSO5.	function effectively as a team member or a leader to accomplish Software Developmentcomprises of multidisciplinary team			
PSO6.	follow the ethical principles involved in IT research and industrial practices			
PSO7.	engage in life-long learning process by updating the knowledge of individual with the upcoming software tools and techniques			

COURSE OUTCOME

		Core Course		
Course Code: BDIT11			Course Title: PROGRAMMING	IN C
On successfu	l completion of the	course, the learn	ners should be able to	
CO1 [K2]	explain the basic building blocks and structured programming concepts in C			
CO2 [K2]	discuss user defined functions, structures, unions, pointers and files			
CO3 [K3]	develop simple programs using functions, arrays, string functions and file			
CO4 [K4]	compare the decision making statements, looping statements, functions, structures, unions			
CO5 [K6]	create simple progra	ams using decision	n making and looping statements	

Course Code	G LAB			
On successfu	al completion of the course, the learn	ers should be able to		
CO1 [K3]	experiment C programs using strings functions and mathematical calculations			
CO2 [K3]	construct simple programs using pointers and file			
CO3 [K6]	build C programs using various data types and operators			
CO4 [K6]	create simple programs using decision making and looping statements			
CO5 [K6]	develop programs using user defined	functions, structures and arrays		

	Core Course			
Course Code	: BDIT1L2		Course Title: PC SOFTWARE I	.AB
On successfu	l completion of the	course, the learn	ners should be able to	
CO1 [K3]	construct Word document to perform mail merge operation			
CO2 [K3]	build Excel Sheets to formulate complex calculations and do statistical analysis using Charts			
CO3 [K6]	design business pres	sentations with ele	egant animations	
CO4 [K6]	create and format Word documents			
CO5 [K6]	develop various per	sonal / business do	ocuments using Microsoft Word	

Course Code	Course Code: BDIT1A Course Title: COMPUTER SYSTEM ARCHITECTURE		
On successfu	l completion of the course, the learn	ners should be able to	
CO1 [K2]	summarize the basic concepts of digit of computers, memory systems, proce	asic structure	
CO2 [K2]	classify various flip-flops, registers an		
CO3 [K3]	solve problems in number systems and arithmetic circuits		
CO4 [K4]	compare various types of flip-flops, registers and memory systems		
CO5 [K4]	analyze the memory systems, processing unit and machine instructions		

	Core (Course	
Course Code	: BDIT21	Course Title: OBJECT ORIENT PROGRAMMING	
On successfu	l completion of the course, the learn	ners should be able to	
CO1 [K2]	explain the OOP concepts, tokens, expressions, control structures, classes, objects, constructors, destructors, pointers and files		
CO2 [K2]	summarize the concept of pointers, virtual functions, templates and exception handling		
CO3 [K3]	make use of inheritance and operator overloading		
CO4 [K4]	analyze the functions, operator overloading and inheritance		
CO5 [K6]	create programs using functions, cons	structor and destructor	

Core Course				
Course Code	Course Code:BDIT2L Course Title: ADVANCED C& PROGRAMMING			
On successfu	l completion of the	course, the learn	ners should be able to	
CO1 [K3]	apply overloading, structure, constructor			
CO2 [K3]	implement sorting and searching techniques using C++			
CO3 [K3]	perform template, exception handling, and file using C++			
CO4 [K6]	develop basic pointer concepts and file operations in C			
CO5 [K6]	construct code to perform function and inheritance concepts			

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	Allied Course				
Course Code: BDIT2A		Course Title : MATHEMATICA FOUNDATIONS			
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K2]	summarize the basic principles of foundations of Mathematics				
CO2 [K3]	solve problems using mathematical logic, sets, recurrence relations, combinatorics and system of linear equations				
CO3 [K3]	perform operations on sets, relations, functions and matrices				
CO4 [K4]	analyze the solutions to system of linear equations and the properties of eigen values and eigen vectors				
CO5 [K4]	classify the types of sets, relations, functions and matrices				

	Core Course			
Course Code	Course Code: BDIT31 Course Title: RDBMS			
On successfu	al completion of the course, the lea	rners should be able to		
CO1 [K2]	summarize the fundamental concepts of DBMS, database architecture, data models, normalization concepts and database terminologies			
CO2 [K2]	demonstrate the ER model, Relational Algebra operations, PL/SQL Procedures, Functions, Package and Triggers.			
CO3 [K3]	use different query constructs for efficient retrieval of information from a database			
CO4 [K4]	analyze PL/SQL Procedures, Functions, Package and Triggers			
CO5 [K6]	create and populate a RDBMS with	constraints and keys using SQL		

Course Code: BDIT32 Course Title: WEB DESIGNIN			G	
On successfu	l completion of the course, the	e learn	ers should be able to	
CO1 [K2]	explain the basic HTML elements and CSS terminologies			
CO2 [K2]	discuss the basic concepts of JavaScript and Ajax			
CO3 [K3]	apply the fundamental HTML tags, multimedia components and FORM elements for Designing Webpages, JavaScript and AJAX			
CO4 [K4]	analyze CSS property, JavaScript, function, events & AJAX			
CO5 [K6]	construct the layout of multiple web pages using Cascading Style Sheet			

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	Core Course			
Course Code	Course Code: BDIT3L Course Title: RDBMS LAB			
On successfu	l completion of the cour	rse, the learn	ers should be able to	
CO1 [K3]	implement Basic DDL, DML and DCL commands			
CO2 [K3]	perform simple queries in SQL			
CO3 [K3]	make use of Aggregate and Group functions			
CO4 [K3]	Apply nested and join queries to combine multiple tables			
CO5 [K6]	develop PL/SQL code for	or procedures,	triggers, cursors, exception handl	ing etc.

	Allied Course				
Course Code: BDIT3A		Course Title: RESOURCE MANAG TECHNIQUES	EMENT		
On successfu	al completion of the course, the le	arners should be able to			
CO1 [K2]	explain the various methods, rules and terms in solving decision making problems				
CO2 [K3]	solve problems using Graphical method and Simplex method				
CO3 [K3]	use various methods to solve Transportation and Assignment Problems				
CO4 [K6]	construct networks to determine the Critical Path using PERT/CPM				
CO5 [K6]	formulate the decision making pro	olems into mathematical models			

Course Code	Course Code: BDIT3AL Course Title: WEB DESIGNIN				
On successfu	l completion of the course, the learn	ners should be able to			
CO1 [K3]	3] experiment with navigational tag by creating multiple web pages				
CO2 [K3]	make use of multimedia components in web page creation				
CO3 [K6]	design Web pages by applying the fundamental HTML tags/FORM elements				
CO4 [K6]	develop dynamic web pages using JavaScript and AJAX				
CO5 [K6]	construct the layout of multiple web pages using Cascading Style Sheet.				

		Core (
Course Code	e: BDIT41		Course Title: OPERATING SY	STEM	
On successfu	l completion of the	course, the learn	ners should be able to		
CO1 [K2]	explain the basic concepts of Operating system, file system, mass storage structure and algorithms.				
CO2 [K2]	summarize Process synchronization, deadlocks and memory management strategies.				
CO3 [K3]	CO3 [K3] experiment Process Scheduling, Page Replacement and Disk Scheduling.				
CO4 [K4]	analyze the scheduling algorithms and file system implementation of operating system.				
CO5 [K4]	illustrate the access and allocation methods of File system.				

		Core (
Course Code	e: BDIT4L		Course Title: PYTHON PROG	RAMMING LAB	
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K2]	demonstrate the var				
CO2 [K3]	execute various bui				
CO3 [K3]	perform the operati				
CO4 [K3]	implement searching, sorting and conversion concepts				
CO5 [K6]	construct code to perform mathematical problems using function				

		Allied			
Course Code	e: BDIT4A		Course Title: DATA STRUCTO	URES	
On successfu	l completion of the	course, the learn	ners should be able to		
CO1 [K2]	summarize the basic concepts of data structures, sorting and searching				
CO2 [K2]	explain various operations in data structures				
CO3 [K3]	3] experiment techniques behind various data structures, sorting and searching				
CO4 [K4]	analyze the concepts behind various data structures				
CO5 [K6]	compile the basic operations using various data structures				

	Allied Course			
Course Code: BDIT4AL Course Title: DATA STRUC				JRES LAB
On successfu	l completion of the	course, the learn	ners should be able to	
CO1 [K2]	demonstrate the basic concepts of Queue			
CO2 [K3]	make use of various features of Data Structures			
CO3 [K3]	execute the operation			
CO4 [K3]	implement the operations of Stack			
CO5 [K6]	construct code to perform sorting and searching using various technique			s

Course Code	e: BDIT4DSL		Course Title: C GRAPHICS LA	AB	
On successfu	l completion of the	course, the learn	ners should be able to		
CO1 [K3]	make use of the basic concepts of computer graphics				
CO2 [K3]	apply filling techniques for modifying an object				
CO3 [K3]	apply different styles to text				
CO4 [K6]	create animations using C programming				
CO5 [K6]	develop models on graphical environment				

		Core (
Course Code: BDIT51			Course Title: JAVA PROGRA	MMING	
On successfu	ll completion of the	course, the learn	ners should be able to		
CO1 [K2]	CO1 [K2] summarize the basic concepts of object oriented, applet, graphics programming and AW controls, layout managers and Menu				
CO2 [K2]	demonstrate the concepts behind classes, objects and programming constructs in Java				
CO3 [K3]	make use of Java features and applet				
CO4 [K4]	analyze the concepts of Java features and applet programming				
CO5 [K6]	construct simple ap	plication programs	s and applet programs		

		Core Course			
Course Code: BDIT5L1			Course Title: JAVA PROGRA	MMING LAB	
On successfu	l completion of the	course, the learn	ners should be able to		
CO1 [K3]	implement console applications				
CO2 [K3]	apply inheritance, package and interface				
CO3 [K4]	[K4] examine multithreading and exception handling				
CO4 [K6]	build programs using applet and GUI components				
CO5 [K6]	create programs using layout managers and event handling				

		Core (
Course Code	e: BDIT5L2		Course Title: WEB TECHNOL	OGY LAB	
On successfu	l completion of the	course, the learn	ners should be able to		
CO1 [K3]	make use of various common controls of VB.NET and ASP.NET				
CO2 [K3]	experiment applications to perform various operations on Windows Form controls				
CO3 [K3]	CO3 [K3] apply the Web based controls for designing the interface for any Web applications				
CO4 [K6]	create Database applications using DataBound and DataSource Controls				
CO5 [K6]	build website using applications	master pages and	CSS to give better look and feel to) Web	

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		Core Course					
Course Code: BDIT5V			Course Titl		ERNSHIP/OI	N-THE-JOB	
On successfu	On successful completion of the course, the learners should be able to						
CO1 [K2]	relate the class room theory with work place practice						
CO2 [K3]	apply the practices / procedures observed in real time working environment						
CO3 [K4]	analyse the workflow and communication flow prevailing in the institution/industry						
CO4 [K5]	assess interests and abilities in their field of study						
CO5 [K6]	propose strategie industrial/institution	•	nd guidelines	s for	enhancing	efficiency	of

		Elective			
Course Code	e: BDIT5E1		Course Title: WEB TECHNOL	.OGY	
On successfu	l completion of the	course, the learn	ners should be able to		
CO1 [K2]	summarize the basic concepts of .Net framework and terminologies in database, CSS, VB.Net & ASP.Net				
CO2 [K2]	explain the basic concepts of ADO.NET and specify the steps to connect applications with database using database controls				
CO3 [K3]	CO3 [K3] experiment applications to perform various operations using Windows Form controls				
CO4 [K4]	analyze Validation Controls, Login Controls and CSS				
CO5 [K6]	design the interface	esign the interface for Web applications using the Web based controls and master pages			

		Elective		
Course Code	Course Code: BDIT5E2 Course Title: CYBER SECURI			TY
On successfu	l completion of the	course, the learn	ners should be able to	
CO1 [K2]	discuss IP security			
CO2 [K3]	illustrate computer and network security concepts			
CO3 [K4]	classify transport level security			
CO4 [K4]	analyze various network security concepts			
CO5 [K5]	justify the concepts	in various networ	k security	

		Elective	Course		
Course Code: BDIT5E3			Course Title: SOFTWARE EN	GINEERING	
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K2]	describe the basic concepts of software engineering				
CO2 [K2]	explicate the planning models, requirement, cost estimation, Software design				
CO3 [K3]	[K3] use software requirement specification techniques and design techniques			S	
CO4 [K4]	analyze software design, cost estimation, validation and maintenance techniques				
CO5 [K4]	compare various pla techniques, walkthr	_	ferent project sizes, cost estimation	n and design	

		Elective			
Course Code	Course Code: BDIT5E4 Course Title: SYSTEM SOFT		Course Title: SYSTEM SOFTV	VARE	
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K2]	summarize various machine architecture, assemblers, loaders, linkers, microprocessor and compilers			nicroprocessor and	
CO2 [K2]	classify the types of assemblers				
CO3 [K4]	analyze loaders and linkers				
CO4 [K4]	explain microprocessor				
CO5 [K5]	justify the functions	s of compilers			

Course Code	Course Code: BDCG51 Course Title: CAREER GUIDA			ANCE	
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K1]	recall the basic concepts about history, culture of India and languages				
CO2 [K2]	summarize the various events related to Indian economy and Indian nati			onal movement	
CO3 [K2]	explain the multi - dimensional aspects of science.				
CO4 [K3]	apply the mathematical knowledge to solve different problems				
CO5 [K5]	analyze the problem	ns related to menta	al ability and reasoning power		

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		Core Course		
Course Code	Course Code: BDIT61 Course Title: COMPUTER NE		TWORKS	
On successfu	On successful completion of the course, the learners should be able to			
CO1 [K2]	summarize the basic concepts of computer networks, DNS and cryptography			aphy
CO2 [K2]	explain the various transmission modes, the protocols of data link and transport layer and the routing and congestion control algorithms			ansport layer and
CO3 [K3]	K3] make use of cryptography, routing and congestion control algorithms			
CO4 [K4]	classify the network reference models			
CO5 [K4]	distinguish the vario	ous layers of OSI 1	model	

	Core Course			
Course Code: BDIT62 Course Title: ANDROID PROG			GRAMMING	
On successful completion of the course, the learners should be able to				
CO1 [K2]	summarize Android features, architecture, activities, menus, data persist Publishing Android application			ence and
CO2 [K2]	demonstrate activities, Indents, fragments and user interface with views			
CO3 [K3]	make use of views to display images and menus			
CO4 [K4]	analyze the layouts, methods, deploying APK files			
CO5 [K6]	construct simple pro	ogram using views	s and database	

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		Core Course			
Course Code	Course Code: BDIT6L Course Title: ANDROID PROG			GRAMMING LAB	
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K3]	build app using menus				
CO2 [K3]	implement database concepts in Android				
CO3 [K6]	design user Interfaces and Layouts in Android App				
CO4 [K6]	develop simple Android applications				
CO5 [K6]	create web pages us	ing web view con	trol		

		Core Course			
Course Code: BDIT6P Course Title		Course Title: MAJOR PROJEC	CT		
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K2]	illustrate the findings of the study conducted in the preferred domain				
CO2 [K3]	discover potential research areas in the field of IT				
CO3 [K3]	conduct a survey of available literature in the preferred field of study				
CO4 [K4]	compare and contrast the several existing solutions for research challenge				
CO5 [K6]	formulate and propo	ose a plan for creat	ting a solution for the research pla	n identified	

		Elective		
Course Code	Course Code: BDIT6E1 Course Title: COMPUTER GR		APHICS	
On successfu	l completion of the	course, the learn	ners should be able to	
CO1 [K2]	summarize the various Graphic systems, the concepts of GUI, interactive input methods basic 2D and 3D concepts			e input
CO2 [K2]	explain the attributes of Output Primitives			
CO3 [K3]	apply various types of Transformations to 2D objects			
CO4 [K4]	illustrate the different clipping methods			
CO5 [K5]	justify the various a	lgorithms for Outp	out Primitives	

	Elective Course				
Course Code: BDIT6E2			Course Title: INTERNET OF THINGS		
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K2]	summarize the basic concepts of Internet of Things				
CO2 [K2]	describe prototyping, embedded devices, manufactures and ethics				
CO3 [K4]	illustrate Connected Devices, internet principles and prototyping				
CO4 [K4]	analyze embedded devices, business models , manufactures and ethics				
CO5 [K5]	evaluate design prir	nciples of connecte	ed devices, embedded devices and business models	S	

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	Non Major Elective Course				
Course Code: BDIT4N			Course Title: INTRODUCTIO	N TO IT	
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K2]	explain the fundamental concepts of computers, it's architecture, memory and storage			ry and storage	
CO2 [K2]	discuss the future trends in IT field				
CO3 [K3]	identify the parts of	a computer			
CO4 [K4]	classify the computers, input and output devices and generations of computers				
CO5 [K4]	categorize various s	oftware and netwo	orks		

		Non Major El	lective Course		
Course Code: BDIT5N Cours			Course Title: INTERNET & H	TML	
On successfu	On successful completion of the course, the learners should be able to				
CO1 [K2]	explain the fundamental concepts of Internet, its Address, browsers and Internet applications				
CO2 [K2]	summarize the features of HTML				
CO3 [K3]	utilize HTML tags to display tables, images, marquees and lists				
CO4 [K4]	analyze the applications of Internet				
CO5 [K6]	design a web page ı	using HTML tags			

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	Job Oriented Course			
Course Code: BDJO65			Course Title: CALL CENTER	MANAGEMENT
On successful completion of the course, the learners should be able to				
CO1 [K2]	describe the basic concepts of Call center management			
CO2 [K2]	summarize classification, functioning and working environment of call centers			
CO3 [K3]	identify customers, services and offer solutions			
CO4 [K4]	analyze various recruitment and training process			
CO5 [K5]	Interpret the compla	aints in tricky situa	ntion	

		Job Orient	ted Course		
Course Code: BDJO65L			Course Title: CALL CENTER LAB	MANAGEMENT	
On successful completion of the course, the learners should be able to					
CO1 [K2]	demonstrate group discussion				
CO2 [K3]	apply business English during interview				
CO3 [K3]	implement voice and vocal training				
CO4 [K4]	Illustrate conversational practice				
CO5 [K4]	analyze customers and handle with care				

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Extra Credit Course				
Course Code: BDITECL1			Course Title: PROGRAMMIN	G IN PHP LAB
On successful completion of the course, the learners should be able to				
CO1 [K3]	apply the fundamental concepts of PHP			
CO2 [K3]	use control statements and looping statements			
CO3 [K3]	construct program to connect application with MySQL			
CO4 [K6]	create sessions and cookies			
CO5 [K6]	design simple webp	age		

		Extra Cre	dit Course	
Course Code: BDITECL2			Course Title: DESIGNING WI	TH CORELDRAW
On successful completion of the course, the learners should be able to				
CO1 [K3]	apply special effects in designing cards			
CO2 [K3]	construct patterns using curves and lines			
CO3 [K6]	create logo using various images, colors, fonts			
CO4 [K6]	design labels using shapes, colors and objects			
CO5 [K6]	develop a cover using metallic effects			