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A.Meenakshipuram, Anaikuttam Post, SIVAKASI - 626 130. Tamilnadu

Department of Computer Science

B.Sc. Computer Science

S.No	Course Code	Course Name	Course Outcomes		
	SEMESTER- I				
1.	23UTAG11	Podhu Tamil / Hindi – I	CO1[K1]: பாரதியார் காலந்தொட்டு தற்காலக் கவிதைகள் வரை கவிதை இலக்கியம் அறிமுகப்படுத்தப்படுவதால் அவற்றை அடையாளம் காண்பர். CO2[K2]: கவிதை வரலாற்றினை புரிந்து கொண்டு பிழை இல்லாமல் எழுதும் திறன் பெறுவர். CO3[K3]: இக்கால இலக்கிய வகைகள் மற்றும் இலக்கணம் கற்பதன் மூலம் அவற்றை தம் வாழ்நிலையோடு பொருத்திப் பார்ப்பர். CO4[K4]: மொழியறிவோடு சிந்தனைத்திறன் பெற்று இலக்கியம் மற்றும் இலக்கணங்களைப் பகுப்பாய்வர் CO5[K5]: உலகளாவிய இலக்கியங்களைக் கற்று மதிப்ப ீடு செய்வர்.		

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2.	23UENL11	General English - I	CO1[K1]: identify the use of the language skills i.e. Reading, Listening, Speaking and Writing. CO2[K2]: demonstrate communicative skills by articulating simple dialogues and instructions. CO3[K3]: apply knowledge of word power and grammar in framing correct sentences. CO4[K4]: analyze prose, poetry and short stories to develop language skills through literature. CO5[K5]: assess the linguistic competence that enables them, in the future, to present their views in various social, academic and employment situations.
3.	23UCSC11	Core Course - I: Python Programming	CO1[K1]: describe the concepts of python CO2[K2]: discuss arrays, control statements, Lists and file handling of python CO3[K3]: apply the concept of python to implement simple problem CO4[K4]: analyze arrays, control statements, lists, tuples, dictionary and functions CO5[K6]: develop a solution for a simple program using python concepts

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		Core Course - II:	CO1[K2]: demonstrate the syntax and semantics of python language
	23UCSC1P	Practical: Python	CO2[K3]: find out the problem and solve using python programming
		Programming	techniques.
4.			CO3[K4]: discover suitable programming constructs for problem solving.
			CO4[K5]: evaluate various concepts of python language to solve the
			problem in an efficient way.
			CO5[K6]: develop a python program for a given problem
		Elective Course	CO1[K1]: define the discrete objects in the context of mathematical
	Specific -	Generic / Discipline	structures for computer science and applications
		Specific - I: Discrete	CO2[K2]: recognize the properties of set operations, relations and
		Mathematics-I	functions, matrix operations, logic statements, various graphs
			CO3[K3]: compute various operations on sets, relations, functions,
5.			matrices, graphs and truth values of logic statements
			CO4[K4]: classify the types of relations, functions, matrices, logic
			statements and graphs
			CO5[K5]: assess the equivalency of relations, invertibility of functions,
			tautological implications and equivalence of logic formulae, the
			method of solving graph optimization problems.

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6.	23UCSS11	Skill Enhancement Course - I: Foundation - Programming in C	 CO1[K1]: describe various concepts of C CO2[K2]: illustrate the statements, arrays, functions, structures and pointers CO3[K3]: apply simple solutions using appropriate programming control statements of C CO4[K4]: analyze the working of control statements, arrays, functions and pointers CO5[K5]: choose the appropriate way for providing a solution using C 	
7.	23UCSN11	Skill Enhancement Course II: Non Major Elective Course: Understanding the internet	CO1[K1]: describe the basic concepts of internet CO2[K2]: explain the various features of concept of internet CO3[K3]: write about internet, web, searching and creating web pages CO4[K4]: analyze the applications of internet CO5[K5]: assess the concepts of internet	
	SEMESTER- II			

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8.	23UTAG21	Podhu Tamil / Hindi – II	CO1[K1]: பக்தி இலக்கியங்களைக் கற்பதன் மூலம் பக்தி நெறியினையும், சமய நல்லிணக்கத்தையும் அறிவர். CO2[K2]: சமயப்பாடல்கள் மற்றும் சிற்றிலக்கியங்களின் அமைப்பினையும், நோக்கத்தினையும் தெளிவாகக் கூறுவர். CO3[K3]: தமிழில் உள்ள பக்தி இலக்கியம் மற்றும் சிற்றிலக்கியங்களின் பொருண்மைகளுடன் இலக்கணத் தெளிவையும் அடைவர். CO4[K4]: தமிழ்ச் சமூகப் பண்பாட்டு வரலாற்றினை இலக்கியங்கள் வாயிலாக அறிந்து கொண்டு பாகுபடுத்துவர். CO5[K5]: போட்டித் தேர்வுகளில் வெற்றி பெறுவதற்குத் தமிழ்ப் பாடத்தினைப் பயன்கொள்ளும் வகையில் ஏற்ற பயிற்சி பெற்று மதிப்பீடு செய்வர்.
9.	23UENL21	General English – II	 CO1 [K1]: identify appropriate literary terms such as diction, tone, imagery, figures of speech, motif etc., CO2 [K2]: define verbs, tenses and concord and its role in speaking and writing effectively. CO3 [K3]: apply the knowledge of language competency at workplace and day-to-day life CO4 [K4]: analyze prose, poetry and short stories to develop language skills through literature. CO5 [K6]: construct grammatically correct and meaningful sentences by choosing apt words.

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		Core Course -	CO1[K1]: describe the concepts of data structures
	23UCSC21	III: Data Structures &	CO2[K2]: explain the working of data structures
10.			CO3[K3]: apply the required data structure to solve a problem
		Algorithms	CO4[K4]: analyze the working of data structures
			CO5[K5]: choose appropriate data structure to solve a problem.
		Core Course - IV:	CO1[K2]: demonstrate the concept of data structures
	23UCSC2P	Practical: Data	CO2[K3]: apply required data structure to solve a problem
11.		Structures &	CO3[K4]: analyze the appropriate data structure to solve a problem
		Algorithms	CO4[K5]: develop a program involving graphs, trees and heaps.
			CO5[K6]: construct programs with required data structure algorithm

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		Elective Course	CO1[K1]: state the basic terminologies of linear programming problem,
	23UCSA21	Generic/ Discipline	transportation problem, assignment problem, curve fitting,
		Specific - II: Discrete	numerical solutions of polynomial equations
		Mathematics - II	CO2[K2]: explain the methods of solving linear programming problem,
			transportation problem, assignment problem, fitting curve
			for
			given data, solving polynomial equations numerically
12.			CO3[K3]: find optimal solution of linear programming problem,
			transportation problem, assignment problem, numerical
			solution
			of polynomial equations and a curve that best fit the given data
			CO4[K4]: examine the optimality of solutions of linear programming
			problem, transportation problem, assignment problem and the
			empirical relation of given data
			CO5[K5]: determine the appropriate method of finding the optimal

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13.	23UCSS2P	Skill Enhancement Course – III: Office Automation	 CO1[K2]: demonstrate the options in word, spreadsheet and powerpoint CO2[K3]: apply the various options in office package CO3[K4]: analyze appropriate tools and options to create a neat document, worksheet and presentation CO4[K5]: choose the required tools in word, spreadsheet and powerpoint to produce the required output CO5[K6]: design a simple document, presentation slide and do calculation 	
14.	23UCSN21	Skill Enhancement Course - IV: Non Major Elective Course: Advanced Excel	 in Worksheets CO1[K1]: describe the basic functions, validation techniques, pivot tables, data time functions and charts CO2[K2]: explain the steps for validation, creating pivot tables, charts and syntax of formulas, data time functions CO3[K3]: apply required steps for creating validation, pivot tables, charts CO4[K4]: analyze different chart types, date time functions and various validation techniques CO5[K6]: create an Excel sheet with tables, charts, date time functions, required formulae. 	
	SEMESTER- III			

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15.	23UTAG31	Podhu Tamil / Hindi – III	CO1[K1]: இலக்கியங்களின் வழி வாழ்வியல் சிந்தனைகள் பற்றி அறிவர். CO2[K2]: காப்பிய சமயக் கருத்துக்களையும் நோக்கங்களையும் அடையாளம் காண்பர். CO3[K3]: தமிழ் புதினங்களின் வழி சமகாலப் படைப்புகளின் வாழ்க்கை முறையின் ஆற்றலைப் பெறுவர். CO4[K4]: காப்பியங்கள் மற்றும் புதினங்களின் வரலாற்றினைப் பாகுபடுத்துவர். CO5[K5]: இலக்கிய இலக்கணங்களை கற்று அவற்றை மதிப்பீடு செய்வர்.
16.	23UENL31	General English – III	CO1 [K1]: relate and state ideas by reading simple poems and scenes from Shakespearean plays. CO2 [K2]: demonstrate effective speaking skills by listening to speeches of famous personalities and express it in day-to-day life. CO3 [K3]: apply the knowledge of language competency in writing letters, emails and display social etiquettes in everyday life. CO4 [K4]: analyse data interpretation, meeting etiquettes, organizing and participating in a meeting.

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17.	23UCSC3P	Core Course - VI: Practical: Database Management Systems	CO1[K1]: describe the concepts of database systems CO2[K2]: explain the basics of database, design concepts, normalization,
			CO5[K6]: develop database schema and perform SQL and PL/SQL operations for an simple application
18.	23UCSA31	Elective Course Generic/ Discipline Specific - III: Numerical Methods	CO1[K1]: describe the basic concepts in numerical analysis CO2[K2]: explain the methods of solving algebraic, transcendental,

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19.	23UCSS31	Skill Enhancement Course- V: (Entrepreneurial Skill)- Software Testing	CO1[K1]: describe various types of software testing CO2[K2]: explain the concepts of software testing CO3[K3]: write the required steps to perform various testing CO4[K4]: analyze different testing methods CO5[K5]: assess the appropriate testing method for a given scenario	
20.	23UCSS3P	Skill Enhancement Course – VI: Web Designing	 CO1[K2]: demonstrate various HTML tags CO2[K3]: apply the required HTML tags and attributes to design a website CO3[K4]: analyze the appropriate HTML tags and CSS to create a neat website. CO4[K5]:choose the required tags, CSS and Ajax technology to create a website. CO5[K6]:develop a web application using HTML, CSS and Ajax 	
	SEMESTER- IV			

Affiliated to Madurai Kamaraj University, Madurai Re-accredited with 'A' grade (3" cycle) by NAAC with CGPA 3.11

	23UTAG41	Podhu Tamil / Hindi – IV	CO1[K1]: சங்க இலக்கியத்தில் காணப்பெறும் அறக்கருத்துக்களை அறிந்து கொள்வர். CO2[K2]: சங்க இலக்கியங்கள் மற்றும் நாடக இலக்கியம் வாயிலாக
21.			மக்களின் வாழ்க்கை முறையினை எடுத்துரைப்பர். CO3[K3]: நாடக இலக்கியம் மூலம் நடிப்பாற்றலையும், கலைத்தன்மையையும், படைப்பாற்றலையும் கற்பர். மேலும் மொழிபெயர்ப்பு ஆற்றலையும் பெறுவர். CO4[K4]: கலைச்சொற்களைக் கண்டறிந்து அவற்றோடு தொடர்புடைய
			சொல்லைப்பகுப்பர். CO5[K5]: சங்க இலக்கியம் மற்றும் நாடக இலக்கியங்களை மதிப்பீடு செய்வர்.
22.	23UENL41	General English – IV	CO1 [K1]: state ideas effectively and appropriately in real life situations. CO2 [K2]: demonstrate speaking skills in appreciating literature. CO3 [K3]: use grammar and pronunciation effectively and appropriately. CO4 [K4]: examine the literary works to develop language skills. CO5 [K6]: construct grammatically correct and meaning full sentences.
23.	23UCSC41	Core Course - VII: Industry Module- Java Programming	CO1[K1]: describe the various concepts of Java programming CO2[K2]: explain the Java Programming paradigms in detail CO3[K3]: apply the required Java techniques to solve simple problem. CO4[K4]: analyze the concepts of Inheritance, Multithreading, Exception handling and Swings CO5[K5]: choose appropriate java constructs to solve a basic problem

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24.	23UCSC4P	Core Course - VIII: Practical: Java Programming	CO1[K2]: demonstrate the constructs of Java CO2[K3]: apply the required concepts of Java to solve a simple problem CO3[K4]: analyze various control statements in java CO4[K5]: examine the working Java statements, exception, threading and Swing controls CO5[K6]: create a simple java program
25.	23UCSA41	Elective Course Generic/ Discipline Specific - IV: Microprocessor and Microcontroller	 CO1[K1]: describe the basic binary codes and their conversions, binary concepts are used in Microprocessor programming, the architecture of 8085 and 8051 Microcontroller architecture. CO2[K2]: explain the 8085 instruction set and their classifications, 8085 Bus organization, Control Registers, 8085 Interrupts, DMA. CO3[K3]: apply different types of instructions to convert binary codes CO4[K4]: identify how peripheral devices are connected to 8085 using Interrupts and DMA controller, Microcontroller Vs Microprocessor. CO5[K6]: create program for addition, subtraction, Multiplication, Division and Binary, BCD, ASCII conversions in microprocessor
26.	23UCSS4P	Skill Enhancement Course – VII: PHP Programming	CO1[K2]: demonstrate the PHP server side scripts CO2[K3]: apply required PHP constructs to create a server side script CO3[K4]: examine the possible PHP constructs to solve a server side application CO4[K5]: choose PHP scripts to handle HTML forms CO5[K6]: develop dynamic web pages using PHP

Affiliated to Madurai Kamaraj University, Madurai Re-accredited with 'A' grade (3rd cycle) by NAAC with CGPA 3.11

		Skill Enhancement	CO1[K1]: recall the concepts of cyber forensics
	23UCSS41	Course - VIII: Cyber	CO2[K2]: explain the cyber forensics fundamentals
27.		Forensics	CO3[K3]: apply the methods for data recovery, evidence collection and
27.			data seizure.
			CO4[K4]: analyze various computer forensic systems
			CO5[K5]: evaluate the different types of computer forensics technology
			CO1[K1]: recognize the importance of environment and role of
	23UESR41	Environmental Studies	Individuals in its protection.
			CO2[K2]: explain the key concepts of Ecosystem, biodiversity and
			climatic change
28.			CO3[K3]: apply the right measures for the sustainable use of natural
20.			resources.
			CO4[K4]: analyse the ethical, cross-cultural, and historical context of
			environmentalissues and the links between Human and
			natural Systems.
			CO5[K5]: evaluate the impact of human action on the biological
SEMESTER- V			

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		Core Course - IX:	CO1[K1]: describe the software engineering principles
	23UCSC51	Software Engineering	CO2[K2]: explain the lifecycle models, SRS, software design, coding,
			testing, quality management and maintenance
29.			CO3[K3]: apply software engineering principles and techniques
			CO4[K4]: analyze various life cycle models, software design, testing
			methods and Object Oriented Vs Function Oriented design
			CO5[K5]: evaluate lifecycle models and testing methods
		Core Course - X: .NET	CO1[K1]: describe CLR, C# Fundamental, IDE, web form controls, Rich
	23UCSC52	Programming	and validation controls, ADO .Net and Grid View control
			CO2[K2]: summarize Web Form Controls, File Stream Classes, File Mode &
			its operations, Data Controls and its Operations and Web
			application creation
30.			CO3[K3]: use .Net features to develop Web Application
			CO4[K4]: examine various web form controls, Rich and validation
			controls, ADO .Net and Grid View control , File Stream Classes,
			File Mode & its operations
			CO5[K5]: choose appropriate controls web form controls, Rich and
			validation
		Core Course - XI:	CO1[K2]: demonstrate HTML and Web controls
31.	23UCSC5P	Practical: .NET	CO2[K3]: use .Net features to develop a simple web application
		Programming	CO3[K4]: differentiate HTML and Web Controls in designing a Web Form
			CO4[K5]: evaluate user input through Web controls, Validation controls
			and file access
			CO5[K6]: develop a Software to solve real world problems using ASP.Net

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		Project with Viva Voce	domain CO4[K5]: evaluate the adopted solution with various testing
			CO5[K6]: compile the development of solution as Documentation
		Elective Courses	CO1[K1]: describe the concepts in operating system
	23UCSO51	Generic/	CO2[K2]: explain the various process involved in operating system
		Discipline Specific - V:	CO3[K3]: write about Asynchronous concurrent processes, Semaphores,
33.			deadlock algorithms, scheduling and memory management
33.		Operating Systems	CO4[K4]: analyze various methods to solve mutual exclusion problem,
			deadlock algorithms, scheduling and memory management
			CO5[K5]: evaluate appropriate deadlock algorithms, scheduling and
			memory management techniques for a given situation
		Elective Courses	CO1[K1]: explain the concept of Cloud computing.
		Generic/	CO2[K2]: describe the services given by cloud computing.
34.		Discipline Specific -	CO3[K3]: use the cloud in designing an application.
		V:	CO4[K4]: analyze the cloud application in benchmarking and tuning.
	23UCSO52	Cloud Computing	CO5[K5]: evaluate the application of cloud in various fields.

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35.	23UCS053	Elective Courses Generic/ Discipline Specific - VI: Big Data Analytics	CO1[K1]: recognize the evolution of big data. CO2[K2]: discuss the classification and clustering, CO3[K3]: apply and split data using classification and clustering. CO4[K4]: analyze data streams clustering CO5[K5]: evaluate the usage of NOSQL in Big Data
36.	23UCSO54	Elective Courses Generic/ Discipline Specific - VI: Introduction to Data Science	CO1[K1]: describe data, data science process, machine learning algorithms and Hadoop CO2[K2]: explain data, data science process, machine learning algorithms and Hadoop CO3[K3]: write about data science process, machine learning algorithms and Hadoop CO4[K4]: analyze different data science process and machine learning algorithms
			CO5[K5]: justify appropriate data science process and machine learning algorithms

Affiliated to Madurai Kamaraj University, Madurai Re-accredited with 'A' grade (3" cycle) by NAAC with CGPA 3.11

			CO1[K1]: identify the basic human values and ethics necessary for		
	23UVED51	Value Education	harmonious human relationship		
			CO2 [K2]: explain the significance of social values and religious tolerance		
			to live in peace		
37.			CO3[K3]: articulate the life-changing principles of brotherhood,		
37.			honesty, loyalty and community solidarity		
			CO4[K4]: analyse emotional, social, spiritual attribute to acquire		
			well balanced personality		
			CO5[K5]: assess the importance of harmonious living in the multi-		
			cultural pluralistic society		
		Internship/Industrial	CO1[K1]: identify different career paths within the industry and gain		
	23UCSJ52	Training	insights into potential future roles.		
			CO2[K3]: apply theoretical concepts and academic knowledge to real-		
			world situations and challenges encountered during the		
38.			internship.		
			CO3[K4]: analyse problems, generate innovative solutions, and make		
			informed decisions.		
			CO4[K5]: evaluate how to manage time effectively and prioritize tasks to		
			meet deadlines and deliver quality work.		
	SEMESTER- VI				

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	23UCSC61	Core Course - XIII:	CO1[K1]: define the basics of computer network architecture and
		Computer Networks	different layers
			CO2[K2]: explain the working of computer network architecture and
39.			different layers
			CO3[K3]: write about various layers, their functions and working
			CO4[K4]: analyze different layers and its working
			CO5[K5]: evaluate the working of various network layers
	23UCSC62	Core Course - XIV:	CO1[K1]: describe Machine Learning basics, Neural networks and genetic
		Machine Learning	algorithms, Bayes Theorem, Instant based learning
			CO2[K2]: explain the machine learning concepts and algorithms
40.			CO3[K3]: write about various machine learning algorithms and its
			working
			CO4[K4]: analyze the various machine learning algorithms
			CO5[K5]: evaluate the different machine learning algorithms
	23UCSC6P	Core Course - XV:	CO1[K2]: demonstrate the various machine learning algorithms
		Practical: Machine	CO2[K3]: apply the procedures required for machine learning algorithms
		Learning	CO3[K4]: analyze the working of various machine learning algorithms
41.			CO4[K5]: evaluate appropriate machine learning algorithms for the
			given datasets
			CO5[K6]: create solutions using machine learning algorithms for the
			given datasets.

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		Elective Courses	CO1[K1]: explain the concepts of AI Techniques
		Generic/	CO2[K2]: describe the various Search Algorithm, Probabilistic Reasoning,
42.	23UCSO61	Discipline Specific -	Markov Decision Process, Reinforcement Learning in AI
42.		VII: Artificial	CO3[K3]: apply simple AI algorithms
		Intelligence	CO4[K4]: analyze various AI algorithms
			CO5[K5]: evaluate the various search algorithms
		Elective Courses	CO1[K1]: explain the basics of artificial neural networks, learning process,
		Generic/	single layer and multi-layer perception networks
	23UCSO61	Discipline Specific -	CO2[K2]: describe the artificial neural networks, learning process, single
43.	23UCSO62	VII:	layer and multi-layer perception networks
43.		1. Artificial	CO3[K3]: write the artificial neural networks, learning process, single
		Intelligence	layer and multi-layer perception networks
		2. Artificial	CO4[K4]: analyze various neural networks algorithms
		Neural	CO5[K5]: justify the artificial neural networks Algorithms
		Elective Courses	CO1[K1]: describe the IoT terminologies and techniques.
		Generic/	CO2[K2]: explain the IoT concepts.
44.	23UCSO63	Discipline Specific	CO3[K3]: write about IoT Components and concepts.
		- VIII:IoT and its	CO4[K4]: compare various applications of IoT.
		applications	CO5[K5]: evaluate the working of IoT applications.

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		Elective Courses	CO1[K1]: describe basics of cryptography, encryption techniques, block
		Generic/	cipher and network security practices.
	23UCSO64	Discipline Specific	CO2[K2]: explain different cryptographic operations, encryption
45.		- VIII:	techniques, block cipher and network security practices.
		Cryptography	CO3[K3]: apply the different cryptographic operations and algorithm
			CO4[K4]: analyze the various cryptography, encryption techniques
			CO5[K5]: evaluate the cryptography, encryption techniques
		Skill Enhancement	CO1[K2]: show the basic concepts of ERP.
		Course – IX:	CO2[K3]: apply different technologies used in ERP
46.	23UCSS6P	Professional	CO3[K4]: analyze different ERPs
40.		Competency skill:	CO4[K5]: evaluate the benefits of ERP
		Enterprise Resource	CO5[K6]: create a simple module in ERP.
		Planning	