



SRI MALOLAN COLLEGE OF ARTS AND SCIENCE

(Affiliated to University of Madras)

(Promoted by Sri Ahobila Mutt)

2.6.1 PSOs and COs 2023 Onwards

Programme Specific Outcomes and Course Outcomes

Department	Programme Specific Outcomes
Computer Science	PSO1: Think in a critical and logical based manner
	PSO2: Familiarize the students with suitable software tools of computer science and industrial applications to handle issues and solve problems in mathematics or statistics and real time application related sciences.
	PSO3: Know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand.
	PSO4: Understand, formulate, develop programming model with logical approaches to Address issues arising in social science, business and other contexts.
	PSO5: Acquire good knowledge and understanding to solve specific theoretical and applied problems in advanced areas of Computer science and Industrial statistics.



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Programme Name: B.Sc. Computer Science		Programme Code: UGCS005	
Subject Code and Subject Name	Course Outcomes		
I Year - I Semester			
100L1A பொதுத்தமிழ்-I	CO1: சங்க இலக்கியத்தில் காணப் பெறும் வாழ்வியல் சிந்தனைகளை அறிந்து கொள்வர்.		
	CO2: அறஇலக்கியம் மற்றும் தமிழ் காப்பியங்களின் வழிவாழ்வியல் சிந்தனையைப் பெறுவர்.		
	CO3: பக்திஇலக்கியங்களைக் கற்பதன் மூலம்பக்தி நெறியினையும், பகுத்தறிவு இலக்கியங்களைக் கற்பதன்வழி நல்லிணக்கத்தையும் தெரிந்து பின்பற்றுவர்.		
	CO4: மொழியறிவோடு சிந்தனைத் திறனைப் பெறுவார்.		
	CO5: மொழிப்பயிற்சிக்குத் தேவையான இலக்கணங்களைக் கற்பர்.		
100L1G Sanskrit-I	CO1: Understand and appreciate the aesthetical, social, political, cultural, etc., values expressed in various prescribed texts		
	CO2: Apply different grammatical rules to their reading and writing assignments		
	CO3: Identify the base words of nouns and different tenses		
	CO4: Read, understand, write and speak in simple Sanskrit		
	CO5: Translate simple sentences related to the themes given		
100L1Z English-I	CO1: To enable learners to acquire self-awareness and positive thinking required in various life situations.		
	CO2: To help them acquire the attribute of empathy		
	CO3: To assist them in acquiring creative and critical thinking abilities		
	CO4: To enable them to learn the basic grammar		
	CO5: To assist them in developing LSRW skills		
125C1A Python Programming	CO1: Develop and execute simple Python programs		
	CO2: Write simple Python programs using conditionals and looping for solving problems		
	CO3: Decompose a Python program into functions		
	CO4: Represent compound data using Python lists, tuples, dictionaries etc.		
	CO5: Read and write data from/to files in Python programs		

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125C11 Python Programming Practical	CO1: To understand the problem-solving approaches
	CO2: To learn the basic programming constructs in Python
	CO3: To practice various computing strategies for Python-based solutions to real world problems
	CO4: To use Python data structures - lists, tuples, dictionaries.
	CO5: To do input/output with files in Python.
125E1A Mathematics-I	CO1: Understand the concepts of Summation of Series.
	CO2: Understand the concepts of Cayley Hamilton Theorem and inverse matrices.
	CO3: Understand the concepts of finite differences.
	CO4: Understand the knowledge about expansions, hyperbolic and inverse hyperbolic functions.
	CO5: Understand the concept of Leibnitz theorem and functions of two variables
125B1A Fundamentals of Computers	CO1: Fundamental concepts of computer
	CO2: Fundamental mathematical techniques and how they relate to computer
	CO3: The architecture of processing and file storage in a computer system
	CO4: Basic operations of operating systems
	CO5: A variety of software packages applicable to an academic, software development and business environment
125S1A Office Automation	CO1: Understand the basics of computer systems and its components.
	CO2: Understand and apply the basic concepts of a word processing package.
	CO3: Understand and apply the basic concepts of electronic spreadsheet software.
	CO4: Understand and apply the basic concepts of database management system.
	CO5: Understand and create a presentation using PowerPoint tool.
100S1B Advanced Tamil- I	CO1: சமகால இலக்கியங்களின் நோக்குகள்-போக்குகள் குறித்து மாணவர்கள் அறிந்து கொள்வர்.
	CO2: நாட்டுப்புற மக்களின் வாழ்வியல், அறிவாற்றல், இன்றைய நிலை ஆகியவை குறித்துச் சிந்திப்பர்.
	CO3: தங்கள் கற்பனைவளத்தை மாணவர்கள் பெருக்கிக் கொள்வர்.
	CO4: மொழியில் பிழைகள் நேராவண்ணம் எழுதக்கற்றுக்கொள்வதோடு, திறனாய்வு செய்யும் ஆற்றல் பெறுவர்.
	CO5: திரைப்படம், சின்னத்திரை, தொலைக்காட்சி உள்ளிட்ட ஊடகங்களில் பாடல், இசை, எழுத்து, என்றுபல் வேறு வேலை வாய்ப்புகள் பெறுவர்.

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I Year - II Semester	
100L2A பொதுத்தமிழ்-II	CO1: சிற்றிலக்கியங்களின் வழி இலக்கியச்சுவையினையும் பண்பாட்டு அறிவினையும் பெறுவர்
	CO2: புதுக்கவிதை வரலாற்றினை அறிந்து கொள்வர்.
	CO3: திராவிட இயக்க இலக்கியங்களைக் கற்பதன் மூலம் மொழிஉணர்வு, இனஉணர்வு, சமத்துவம் சார்ந்த சிந்தனைகளைப் பெறுவர்.
	CO4: தமிழ்மொழியைப்பிழையின்றி எழுதவும், புதிய கலைச்சொற்களை உருவாக்கவும் அறிந்து கொள்வர்.
	CO5: போட்டித் தேர்வுகளில் வெற்றி பெறுவதற்குத் தமிழ்ப் பாடத்தினைப் பயன்கொள்ளும் வகையில் பயிற்சிபெறுவர்.
100L2G Sanskrit - II	CO1: Understand and apply grammatical concepts in drafting sentences and paragraphs
	CO2: Apply the rules and regulations in handling usage of Lrtlakara and AsmadSabdah, practice exercises and identify errors
	CO3: Form an idea of the aesthetic expressions that make Sanskrit composition get the position of pride in world literature
	CO4: Demonstrate knowledge of various expressions of opinion, emotions, cause, effect, purpose, and hypothesis in Sanskrit
	CO5: Appreciate the art of employment of Alankaras in a prose form of poetry
100L2Z English-II	CO1: To make students realize the importance of resilience
	CO2: To enable them to become good decision makers
	CO3: To enable them to imbibe problem-solving skills
	CO4: To enable them to use tenses appropriately
	CO5: To help them use English effectively at the work place.
125C2A Introduction to Computer Architecture and Microprocessor	CO1: Remember the Basic binary codes and their conversions. Binary concepts are used in Microprocessor programming and provide a good understanding of the architecture of 8085.
	CO2: Understanding the 8085-instruction set and their classifications enables the students to write the programs easily on their own using different logic.
	CO3: Applying different types of instructions to convert binary codes and analysing the outcome. The instruction set is applied to develop programs on multibyte arithmetic operations.
	CO4: Analyse how peripheral devices are connected to 8085 using Interrupts and DMA controller.

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125C21 Introduction to Computer Architecture and Microprocessor Practical	CO1: Remember the Basic binary codes and their conversions. Binary concepts are used in Microprocessor programming and provide a good understanding of the architecture of 8085.
	CO2: Understanding the 8085-instruction set and their classifications enables the students to write the programs easily on their own using different logic.
	CO3: Applying different types of instructions to convert binary codes and analysing the outcome. The instruction set is applied to develop programs on multibyte arithmetic operations.
	CO4: Analyse how peripheral devices are connected to 8085 using Interrupts and DMA controller.
125E2A Mathematics-II	CO1: Understand the various concepts of Bernoulli's and Reduction Formula.
	CO2: Understand the concepts of Fourier Series
	CO3: Understand the concepts of Non-Homogenous and Partial Differential Equations
	CO4: Understand the Laplace Transforms
	CO5: Understand the concepts of Vector Differentiation
125S2B Problem Solving Techniques	CO1: Understand the systematic approach to problem solving
	CO2: Know the approach and algorithms to solve specific fundamental problems
	CO3: Understand the efficient approach to solve specific factoring-related problems
	CO4: Understand the efficient array-related techniques to solve specific problems
	CO5: Understand the efficient methods to solve specific problems related to text processing. Understand how recursion works
125S2A Quantitative Aptitude	CO1: To gain knowledge on LCM and HCF and its related problems
	CO2: To get an idea of age, profit and loss related problem solving
	CO3: Able to understand time series simple and compound interests
	CO4: Understanding the problem related to probability, and series
	CO5: Able to understand graphs, charts
100S2B Advanced Tamil- II	CO1: உரைநடை இலக்கியத்தின் பெருமைகளை உணர்ந்து, அதனை அன்றாட வாழ்வில் பயன்படுத்தும் திறன்பெறுவார்
	CO2: பண்டைத் தமிழ் இலக்கியங்கள் காட்டும் சமூக பண்பாட்டு வாழ்வியல் முறைகளை அறிந்து கொள்வர்
	CO3: காப்பிய கட்டமைப்புகளை இன்றைய புதினம், திரைப்படங்கள் ஆகியவற்றுடன் ஒப்பிட்டு காணும் அறிவைப் பெறுவார்
	CO4: தமிழ் இலக்கிய மரபினையும் மாற்றங்களையும் ஆராய்ந்து உணரும் ஆற்றல் பெறுவார்

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	CO5: மொழிபெயர்ப்புத் திறன் பெறுவதோடு, அன்றாட வாழ்வின் தேவைகளான பல்வகை அலுவலகக் கடிதங்கள் எழுதும் திறன் பெறுவார்
II Year - III Semester	
200L3A பொதுத்தமிழ்-III	CO1: தமிழக வரலாற்றை அறிந்து கொள்வர்
	CO2: தமிழரின் வாழ்வியல் தொன்மையை அறிவர்
	CO3: தமிழரின் பண்பாட்டு கூறுகளை அறிந்து கொள்வர்
	CO4: பிறப்பாட்டுத் தாக்கம் மற்றும் அணுகு முறைகளை அறிவர்
	CO5: மொழிப்பயிற்சிக்குத் தேவையான இலக்கணங்களைக் கற்பர்
200L3G Sanskrit -III	CO1: Be familiar with the style of the great Sanskrit Dramatist Bhasa
	CO2: Be able to appreciate the aesthetical, social, political, cultural, etc., values expressed in prescribed composition
	CO3: Understand the structural patterns of Sanskrit dramatic composition
	CO4: Develop the finer and minor nuances of Nataka form of drama
	CO5: Analyze the literary texts
200L3Z English-III	CO1: To make them active listeners
	CO2: To enhance the interpersonal relationship skills
	CO3: To embolden them to cope with stress
	CO4: To master grammar skills
	CO5: To help them to use English effectively in a business environment.
225C3A Java Programming	CO1: Understand the basic Object-oriented concepts. Implement the basic constructs of Core Java
	CO2: Implement inheritance, packages, interfaces and exception handling of Core Java.
	CO3: Implement multi-threading and I/O Streams of Core Java
	CO4: Implement AWT and Event handling
	CO5: Use Swing to create GUI.
225C31 Java Programming Practical	CO1: Code, debug and execute Java programs to solve the given problems
	CO2: Implement multi-threading and exception-handling
	CO3: Implement functionality using String and StringBuffer classes
	CO4: Demonstrate Event Handling.
	CO5: Create applications using Swing and AWT.
225E3B Statistics- I	CO1: Know the uses of statistics in society
	CO2: Organize, manage and present data

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	<p>CO3:Analyze the statistical data graphically using frequency distribution and cumulative frequency distribution</p> <p>CO4:Analyze statistical data using measures of central tendency, dispersion and location</p> <p>CO5: To understand correlation between continuous variables and association between categorical variables</p>
<p>225S31 Web Page Design Practical</p>	<p>CO1: Define the principle of Web page design</p> <p>CO2: Define the basics in web design</p> <p>CO3: Visualize the basic concept of HTML.</p> <p>CO4: Recognize the elements of HTML.</p> <p>CO5: Introduce basics concept of CSS.</p>
<p>225S32 Desktop Publishing Practical</p>	<p>CO1: Understand basics of computer and its related terminology</p> <p>CO2: Write, Edit & Print documents using MS-WORD & EXCEL</p> <p>CO3: Understand various software used for Desktop Publishing and would be able to create and design documents with text and graphics like newspaper ad, wedding cards, visiting cards, greeting cards etc.</p> <p>CO4: Using PageMaker, CorelDraw & Photoshop. Understand Colour concept in Printing</p>
II Year - IV Semester	
<p>200L4A பொதுத்தமிழ்-IV</p>	<p>CO1: தாய்மொழி வழியாக அறிவியல் பற்றிச் சிந்திக்கும் திறன் பெற்றிருப்பர்</p> <p>CO2: அறிவியல் கலைச் சொல்லாக்கம் பற்றிய விதிகள் நுணுக்கங்களைத் தெரிந்திருப்பர்</p> <p>CO3: அறிவியல் தமிழ் வளர்ச்சியில் மொழிபெயர்ப்பின் பங்குகுறித்து அறிந்திருப்பர்</p> <p>CO4: மொழி அறிவோடு சிந்தனைத் திறனைப் பெறுவர்</p> <p>CO5: மொழி பயிற்சிக்கு தேவையான இலக்கணங்களைக் கற்பர்</p>
<p>200L4G Sanskrit -IV</p>	<p>CO1: Apply the usage of compound words</p> <p>CO2: Differentiate the alankaras</p> <p>CO3: Translate the prose passages prescribed</p> <p>CO4: Identify and apply different grammatical tenses of “Mahabharata” related translation</p> <p>CO5:Analyze and critically assess the literary texts</p>
<p>200L4Z English-IV</p>	<p>CO1: To help learners imbibe goal-setting attitude.</p> <p>CO2: To enable them to understand the value of integrity</p> <p>CO3: To help them deal with emotions.</p> <p>CO4: To teach the learners to frame sentences using tenses.</p> <p>CO5: To enhance reporting skills</p>

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225C4A Data Structures and Algorithms	CO1: To introduce the concepts of Data structures and to understand simple linear data structures.
	CO2: Learn the basics of stack data structure, its implementation and application
	CO3: Use the appropriate data structure in context of solution of given problem and demonstrate a familiarity with major data structures
	CO4: To introduce the basic concepts of algorithms
	CO5: To give clear idea on algorithmic design paradigms like Divide and conquer and Backtracking
225C41 Data Structures and Algorithms Practical	CO1: Implement data structures using Java
	CO2: Implement various types of linked lists and their applications
	CO3: Implement Tree Traversals
	CO4: Implement various algorithms in Java
	CO5: Implement different sorting and searching algorithms
225E4B Statistics-II	CO1: Understand Probability and its properties.
	CO2: Learn characteristics of different discrete and continuous distributions.
	CO3: Know situation to which different distributions can be applied.
	CO4: Comprehend the Sampling distributions.
	CO5: Learn how to apply statistical tests to get information from data
225S4A Emotional Intelligence	CO1: After completion of subjects students understand and application of Emotional Intelligence.
225S4B Technical Writing	CO1: Students will learn to analyse communication-related problems and develop solutions through the composition of technical documents from a number of genres and within several settings (i.e., print, web, interactive software) and contexts (e.g., academic, corporate, non-profit, governmental)
	CO2: Students will explore rhetorical and professional strategies in order to discover how to clearly identify and address audiences and stakeholders, organizational contexts, and ethical concerns in the act of communication
III Year - V Semester	
325C5A Operating System	CO1: Understand the structure and functions of Operating System
	CO2: Compare the performance of Scheduling Algorithms
	CO3: Analyze resource management techniques
325C51 Operating System Practical	CO1: Understand the process management policies and scheduling process by CPU
	CO2: Analyze the memory management and its allocation policies
	CO3: To evaluate the requirement for process synchronization



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325C5B Relational Database Management System	CO1: Describe basic concepts of database system
	CO2: Design a Data model and Schemas in RDBMS
	CO3: Competent in use of SQL
	CO4: Analyze functional dependencies for designing robust Database
325C52 Relational Database Management System Practical	CO1: Implement the DDL, DML Commands and Constraints
	CO2: Create, Update and query on the database.
	CO3: Design and implement simple project with Front End and Back End.
325E5A Computer Networks	CO1: To Understand the basics of Computer Network architecture, OSI and TCP/IP reference models
	CO2: To gain knowledge on Telephone systems and Satellite communications
	CO3: To impart the concept of Elementary data link protocols
	CO4: To analyse the characteristics of Routing and Congestion control algorithms.
	CO5: To understand network security and define various protocols such as FTP, HTTP, Telnet, DNS
325E5D Software Engineering	CO1: The students should be able to specify software requirements, design the software using tools
	CO2: To write test cases using different testing technique
III Year - VI Semester	
325C6A Programming in ASP.NET	CO1: To identify and understand the goals and objectives of the NET framework and ASP.NET with C# language.
	CO2: To develop web application using various controls
	CO3: To analyse C# programming techniques in developing web applications
	CO4: To assess a Web application using Microsoft ADO.NET
	CO5: To develop software to solve real-world problems using ASP.NET.
325C61 Programming in ASP.NET Practical	CO1: To identify and understand the goals and objectives of the NET framework and ASP.NET with C# language.
	CO2: To develop web application using various controls.
	CO3: To analyse C# programming techniques in developing web applications

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	<p>CO4: To assess a Web application using Microsoft ADO.NET.</p> <p>CO5: To develop a software to solve real-world problems using ASP.NET</p>
<p>325C62 Project with Viva Voce</p>	<p>CO1: The aim of the mini project is that the student has to understand the real time software development environment. The student should gain a thorough knowledge in the problem, he/she has selected and the language / software, he/she is using.</p>
<p>325E6B Introduction To Data Science</p>	<p>CO1: Clean and reshape messy datasets.</p> <p>CO2: Use exploratory tools such as clustering and visualization tools to analyze data.</p> <p>CO3: Perform linear regression analysis.</p> <p>CO4: Use methods such as logistic regression, nearest neighbours, decision trees, support vector machines, and neural networks to build a classifier.</p> <p>CO5: Apply dimensionality reduction tools such as principal component analysis.</p>
<p>325E6F Block Chain Technology</p>	<p>CO1: State the basic concepts of block chain</p> <p>CO2: Paraphrase the list of consensus and Demonstrate and Interpret working of Hyper ledger Fabric</p> <p>CO3: Implement SDK composer tool and explain the Digital identity for government</p>
<p>325S61 Advanced Excel Practical</p>	<p>CO1: Handle large amounts of data.</p> <p>CO2: Aggregate numeric data and summarise into categories and subcategories.</p> <p>CO3: Filtering, sorting, and grouping data or subsets of data.</p> <p>CO4: Create pivot tables to consolidate data from multiple files</p> <p>CO5: Presenting data in the form of charts and graphs.</p>