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2.6.1 PSOs and COs 2023 Onwards

Programme Specific Outcomes and Course Outcomes

Department	Programme Specific Outcomes
BCA	PSO1: To get students sufficient knowledge and skills enabling them to undertake further studies in Computer Applications and Information Technology
	PSO2: Students Understood formulate and develop programming model with logical approaches to Address issues arising in social science, business and other contexts
	PSO3: Students Acquired good knowledge and understanding to solve specific theoretical and applied problems in advanced areas of Computer science and Industrial statistics
	PSO4: Students are developed a range of generic skills helpful in employment, internships& societal activities



Programme Name: BCA	Programme Code: UGCA008
Subject Code and Subject Name	Course Outcomes
J	I Year - I Semester
	CO1: சங்கஇலக்கியத்தில் காணப்பெறும் வாழ்வியல் சிந்தனைகளை அறிந்துகொள்வர்
100L1A	CO2: அறஇலக்கியம் மற்றும் தமிழ்காப்பியங்களின் வழிவாழ்வியல் சிந்தனைகளைப் பெறுவர்
பொதுத்தமிழ்-I	CO3: பக்தி இலக்கியங்களைக் கற்பதன் மூலம் பக்தி நெறியினையும்,
	பகுத்தறிவு இலக்கியங்களைக் கற்பதன்வழி நல்லிணக்கத்தையும் தெரிந்து பின்பற்றுவர்
	CO4: மொழியறிவோடு சிந்தனைத் திறனைப் பெறுவார்
	CO5: மொழிப்பயிற்சிக்குத் தேவையான இலக்கணங்களைக் கற்பர்
	CO1: Remember the usage of grammatical tenses in constructing sentences in dialogue
100L1G Sanskrit-I	CO2: Apply the rules of usage in practice exercises and identify errors
	CO3: Explain the nuances in the usage of various grammatical tenses and aspects
	CO4: Demonstrate knowledge of various expressions of opinion, emotions, cause, effect, purpose, and hypothesis in French
	CO5: Communicate in French and summarize the given text
	CO1: Acquire selfawareness and positive thinking required in various life situations
4007.457	CO2: Acquire the attribute of empathy
100L1Z	CO3: Acquire creative and critical thinking abilities
General English-I	CO4: Development and integrate the use of four language skills i.e., listening, speaking, reading and writing
	CO5: Learn basic grammar
	CO1: Develop and execute simple Python programs
120C1A	CO2: Write simple Python programs using conditionals and looping for solving problems
Python	CO3: Decompose a Python program into functions
Programming	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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विषया विन्त्रते अमृतम	(Tromoted by Str Anobha Mutt)
	CO1: To understand the problem-solving approaches
120C11	CO2: To learn the basic programming constructs in Python
Python Programming	CO3: Practice various computing strategies for Python-based
Practical	solutions to real world problems
	CO4: To use Python data structures - lists, tuples, dictionaries
	CO5: To do input/output with files in Python
	CO1: Understand the concepts of Summation of Series
	CO2: Understand the concepts of Cayley Hamilton Theorem and
120E1A	inverse matrices
Mathematics-I	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
	CO1: Fundamental concepts of computer
	CO2: Fundamental mathematical techniques and how they relate to
	computer
120B1A	CO3: The architecture of processing and file storage in a computer
Fundamentals of	CO4: Basic operations of operating systems
Computers	CO5: A variety of software packages applicable to an academic,
P • • • • • • • • • • • • • • • • • • •	software development and business environment
	CO1: Understand the basics of computer systems and its
	components
	CO2: Understand and apply the basic concepts of a word processing
120S1A	package
Office Automation	CO3: Understand and apply the basic concepts of electronic
Office Automation	spreadsheet software
	CO4: Understand and apply the basic concepts of database
	management system
	CO5: Understand and create a presentation using PowerPoint tool
	CO1: சமகால இலக்கியங்களின் நோக்குகள் -போக்குகள் குறித்து
	மாணவர்கள் அறிந்து கொள்வர்
1001 114	CO2: நாட்டுப்புற மக்களின் வாழ்வியல்-அறிவாற்றல் இன்றைய நிலை
100L1M Advanced Tamil -I	
Auvanceu Tamii -1	குறித்து சிந்திப்பர்
	СО3: தங்கள் கற்பனை வளத்தை மாணவர்கள் பெருக்கிக் கொள்வர்
	CO4: மொழியில் பிழைகள் நேர வண்ணம் எழுத கற்றுக்கொள்வதோடு
	திறனாய்வு செய்யும் ஆற்றல் பெறுவர்
	CO5: திரைப்படம், சின்னத்திரை, தொலைக்காட்சி உள்ளிட்ட
	ஊடகங்களில் பாடல், இசை, எழுத்து என பல்வேறு வேலை வாய்ப்புகள்
	பெறுவர்

 $\label{lem:model} \begin{tabular}{ll} Mocheri Road, Madurantakam, Chengalpattu Dt, Tamilnadu, India, Pin-603306 \\ Phone: 044-2755\,3011/\,12 & Email: malolancollege@gmail.com \\ \end{tabular}$

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I Year - II Semester	
	CO1: புதுகவிதை வரலாற்றினை அறிந்துகொள்ளுதல்
	CO2: சிற்றிலக்கியங்களின்வழி இலக்கிய சுவையினையும் பண்பாட்டு
100L2A	அறிவினையும் பெறுவர்
பொதுத்தமிழ்- II	CO3: தமிழ்மொழியினை பிழையின்றி எழுதவும் புதிய கலைச்சொற்களை
	உருவாக்கவும் அறிந்துகொள்வர்
	CO4: போட்டித் தேர்வுகளில் வெற்றி பெறுவதற்குத் தமிழ்படத்தினைப்
	பயன்கொள்ளும் வகையில் பயிற்சி பெறுவர்
	CO1: Understand and apply grammatical concepts in drafting
	sentences and paragraphs
	CO2: Apply the rules and regulations in handling usage of Lrtlakara and Asmad Sabdah, practice exercises and identify errors
100L2G Sanskrit-II	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
	CO1: Realize the importance of resilience
100L2Z	CO2: Become good decision-makers
English-II	CO3: Imbibe problem-solving skills
_	CO4: Use tenses appropriately
	CO5: Use English effectively at the work place
	CO1: Explain the various basic concepts of Object-orientation
120C2A	CO2: Write programs to implement static binding
Object Oriented	CO3: Write programs to implement inheritance and dynamic
Programming using	binding
C++	CO4: Write programs to implement templates and exception
	handling and learn how to use STL class library
	CO1: Write programs implementing File and Stream I/O
	CO1: Design and create classes. Implement Stream I/O as appropriate
120C21	CO2: Design appropriate data members and member functions
Object Oriented	CO3: Implement functions, friend functions, static members,
Programming using	constructors and compile-time polymorphism
C++ Practical	CO4: Implement inheritance, run-time polymorphism and
	destructors
	CO5: Implement templates and exceptions. Use STL class library.
	Implement File I/O



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120E2A 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
	CO1: Understand the basics of computer systems and its
	components
120521	CO2: Understand and apply the basic concepts of a word processing
120S21	package
Office Automation	CO3: Understand and apply the basic concepts of electronic
Practical	spreadsheet software
	CO4: Understand and apply the basic concepts of database
	management system
	CO5: Understand and create a presentation using PowerPoint tool
	CO1: To gain knowledge on LCM and HCF and its related
1.000.	problems
120S2A	CO2: To get an idea of age, profit and loss related problem solving
Quantitative Aptitude	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
	CO1: உரைநடை இலக்கியங்களின் பெருமைகளை உணர்ந்து, அதனை
	அன்றாட வாழ்வில் பயன்படுத்தும் திறன் பெறுவர்
	CO2: பண்டை தமிழ் இலக்கியங்கள் காட்டும் சமூக, பண்பாட்டு,
100L2M	வாழ்வியல் முறைகளை அறிந்து கொள்வர்
Advanced Tamil - II	CO3: காப்பிய கட்டமைப்புகளை இன்றைய புதினம் திரைப்படங்கள்
	ஆகியவற்றுடன் ஒப்பிட்டு காணும் அறிவை பெறுவர்
	CO4: தமிழ் இலக்கிய மரபினையும் மாற்றங்களையும் ஆய்ந்து உணரும்
	ஆற்றல் பெறுவர்
	II Year - III Semester
	CO1: தமிழக வரலாற்றை அறிந்துகொள்வர்
200L3A	CO2: தமிழரின் வாழ்வியல் தொன்மையை அறிவர்
போதுத்தமிழ்- III	CO3: தமிழரின் பண்பாட்டு கூறுகளை அறிந்துகொள்வர்
	CO4: பிற பண்பாட்டுத்தாக்கம் மற்றும் அணுகு முறைகளை அறிவர்
	CO5: மொழிப்பயிற்சிக்குத் தேவையான இலக்கணங்களைக் கற்பர்
200L3G	3 1 3. 1
Sanskrit-III	CO1: Be familiar with the style of the great Sanskrit Dramatist Bhasa
Sanski It-III	Dilasa



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विषया विन्यतं अपृतम्	(110moted by 511 Amobila Matt)
	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
	CO1: To make them active listeners
20013Z	CO2: To enhance the interpersonal relationship skills
	CO3: To embolden them to cope with stress
General English-III	CO4: To master grammar skills
	CO5: To help them to use English effectively in a business
	environment
	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
220C3A	CO3: Use the appropriate data structure in context of solution of
Data Structures	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
	CO1: Implement data structures using C ++
220C31	CO2: Implement various types of linked lists and their
Data Structures	applications
Practical	CO3: Implement Tree Traversals
	CO4: Implement various algorithms in C++
	CO1: Know the uses of statistics in society
	CO2: Organize, manage and present data
2207727	CO3: Analyze the statistical data graphically using frequency
220E3B	distribution and cumulative frequency distribution
Statistics-I	CO4: Analyze statistical data using measures of central tendency,
	dispersion and location
	CO5: To understand correlation between continuous variables and
	association between categorical variables
220S31	CO1: Define the principle of Web page design Visualize the basic
Web Page Design	concept of HTML
Practical	CO2: Define the basics in web design
1 1 11 11 11 11	CO3: Visualize the basic concept of HTML
	CO4: Recognize the elements of HTML
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	CO1 II 1 4 11 1 C 4 11 14 14 1 1
220S32 Desktop Publishing Practical	CO1: Understand basics of computer and its related terminology
	CO2: Write, Edit & Print documents using MS-WORD & EXCEL
	CO3: Understand various software used for Desktop Publishing
	andwould be able to create and design documents with text and
	graphics like newspaper ad, wedding cards, visiting cards, greeting
Tractical	cards etc.
	CO4: Using PageMaker, CorelDraw & Photoshop. Understand
	Colourconcept in Printing
	II Year - IV Semester
	CO1: தாய்மொழி வழியாக அறிவியல் பற்றிச் சிந்திக்கும் திறன்
	பெற்றிருப்பர்
200L4A	СО2: அறிவியல்கலைச் சொல்லாக்கம் பற்றிய விதிகள், நூணுக்கங்களைத்
பொதுத்தமிழ்-IV	தெரிந்திருப்பர்
	СО3: அறிவியல்தமிழ் வளர்ச்சியில் மொழிபெயர்ப்பின் பங்குகுறித்து
	அறிந்திருப்பர்
	CO4: மொழி அறிவோடு சிந்தனைத் திறனைப்பெறுவர்
	CO5: மொழி பயிற்சிக்கு தேவையான இலக்கணங்களைக் கற்பர்
	CO1: Apply the usage of compound words
	CO2: Differentiate the alankaras
200L4G	CO3: Translate the prose passages prescribed
Sanskrit- IV	CO4: Identify and apply different grammatical tenses of
	"Mahabharata" related translation
	CO5: Analyze and critically assess the literary texts
	CO1: To help learners imbibe goal-setting attitude
2001 47	CO2: To enable them to understand the value of integrity
200L4Z	CO3: To help them deal with emotions
General English- IV	CO4: To teach the learners to frame sentences using tenses
	CO5: To enhance reporting skills
	CO1: Understand the basic Object-oriented concepts. Implement
	the basic constructs of Core Java
220 544	CO2: Implement inheritance, packages, interfaces and exception
220C4A	handling of Core Java
Java Programming	CO3: Implement multi-threading and I/O Streams of Core Java.
	CO4: Implement AWT and Event handling
	CO5: Use Swing to create GUI
	CO1: Code, debug and execute Java programs to solve the given
	problems
220C41	CO2: Implement multi-threading and exception-handling
Java Programming	CO3: Implement functionality using String and String Buffer
Practical	classes
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CO4: Demonstrate Event Handling	
CO5: Create applications using Swing and AWT	
CO1: Understand Probability and its properties	
CO2: Learn characteristics of different discrete and	continuous
distributions.	
Statistics II CO3: Know situation to which different distributions can	be applied
CO4: Comprehend the Sampling distributions	
CO5: Learn how to apply statistical tests to get inform	ation from
data	
CO1: After completion of the subject, students under	erstand the
application of Emotional Intelligence	
220S4A CO2: To enable the students to understand the co	oncepts of
Emotional Intelligence emotional intelligence	-
CO3: To teach the students on aspects relating to	personality
Analysis Self-analysis, Positive and Negative traits	
CO1: Students will learn to analyse communicat	ion-related
problems and develop solutions through the comp	osition of
technical documents from a number of genres and with	hin several
settings and contexts	
CO2: Students will explore rhetorical and professional s	trategies in
220S4B order to discover howto clearly identify and address and	liences and
Technical Writing stakeholders, organizational contexts, and ethical concern	ns in the act
of communication	
CO3: This course is designed to guide students towards	rhetorical,
professional, and compositional competencies nec	cessary to
ethically and effectively create and analyse technical docu	uments and
communication.	
III Year - V Semester	
320C5A CO1: Understand the structure and functions of Operation	
Operating System CO2: Compare the performance of Scheduling Algorithm	ms.
CO3: Analyse resource management techniques	
CO1: Describe basic concepts of database system	
320C5B CO2: Design a Data model and Schemas in RDBMS	
Relational Database CO3: Competent in use of SQL	
Management System CO4: Analyse functional dependencies for designing rol	bust
Database	
CO1: Understand the general concepts of PHP scripting	g language
for the development of Internetwebsites	
320C5C CO2: Learn the relationship between the client side and	the server-
Web Technology side scripts	
CO3: Understand the basic functions of MySQL database	se program
and XML concepts	



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विन्यतं कर्	The state of the
320C51 Web Technology	CO1: On the completion of this laboratory course the students
	ought to the program
	CO2: Obtain knowledge and develop application programs using
	Python
	CO3: Create dynamic Web applications such as content
Practical	management, user registration, and ecommerce using PHP and to
	understand the ability to post and publish a PHP website
	CO4: Develop a MySQL database and establish connectivity using
	MySQL
	CO1: How to apply the software engineering lifecycle by
	demonstrating competence in communication, planning, analysis,
320E5B	design, construction, and deployment
Software Engineering	CO2: The students should be able to specify software requirements,
	design the software using tools
	CO3: To write test cases using different testing techniques
	CO1: Work with big data tools and its analysis techniques
220050	CO2: Analyse data by utilizing clustering and classification
320E5E	algorithms
Big Data Analytics	CO3: Learn and apply different mining algorithms and
	recommendation systems for large volumes of data
	III Year - VI Semester
	CO1: To understand the problem solving
	CO2: To learn the basic programming constructs in R Programming
320C6A	CO3: To learn the basic programming constructs in R Programming
R-Programming	CO4: To use R Programming data structures - lists, tuples,
	dictionaries
	CO5: To do input/output with files in R Programming
320C61	CO1: To understand the problem-solving approaches.
	CO2: To learn the basic programming constructs in R Programming
R-Programming Practical	CO3: To practice various computing strategies for R Programming
Tractical	-based solutions to real world problems
	CO1: To Understand the basics of Computer Network architecture,
	OSI and TCP/IP reference models
	CO2: To gain knowledge on Telephone systems and Satellite
320C6B	communications
Advanced Networking	CO3: To impart the concept of Elementary data link protocols
	CO4: To analyze the characteristics of Routing and Congestion
	control algorithms
	CO5: To understand network security and define various protocols
	such as FTP, HTTP, Telnet, DNS
320E6B	CO1: To know the concepts of Data mining system architectures
Data Mining and	CO2: To analyse the principles of association rules
Warehousing	CO3: To Gain knowledge on Cluster analysis and its methods.

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	CO4: To get analytical idea on Classification.
320E6D	CO1: Use of Devices, Gateways and Data Management in IoT
	CO2: Design IoT applications in different domain and be able to
Internet of Things and	analyse their performance
its Applications	CO3: Implement basic IoT applications on embedded platform
its Applications	CO4: To gain knowledge on Industry Internet of Things
	CO5: To Learn about the privacy and Security issues in IoT
	CO1: Planning implementation, and testing
	CO2: Execution: Follow a structured development process with
320861	clear milestones
Mini Project	CO3: Define project scope, objectives, and required functionalities
	CO4: Documentation: Maintain a detailed report covering
	methodology, design