



PERUNTHALAIVAR KAMARAJAR ARTS COLLEGE

(An Institution functioning under the Aegis of Pondicherry Society for Higher Education)

(Accredited by NAAC with 'B' Grade)

KALITHEERTHALKUPPAM, PUDUCHERRY- 605 107

DEPARTMENT OF COMPUTER APPLICATIONS

PROGRAMME SPECIFIC OUTCOME

B.C.A. Computer Applications

The Bachelor of Computer Applications (BCA), an undergraduate degree course in computer applications, was started in the academic year 2010-11. The duration of the course is three years and divided into six semesters. The curriculum design prepares the student to adapt to the demands and face the challenges of today's Information Technology industry. Teaching includes lectures, tutorials, practicals, online courses, and other forms of extension such as presentations, discussions, brainstorming, demonstrations, and field training.

The basic objective of the BCA course is to:

1. Understand the fundamental concepts of computers, the Business environment, and IT applications in Business.
2. Successfully understand and analyze technical data to reach actionable conclusions including technological solutions to the business.
3. Learn technologies and IT languages, so the business problems could be addressed.
4. Develop competent technical writing skills so as to enable the graduate to communicate business ideas to senior management and the general public.
5. To identify and sharpen their IT/ programming skills.

Programme outcomes:

1. To produce an employable IT workforce that will match the industry expectation that will have sound knowledge of IT and business fundamentals that can be applied to develop and customize solutions for small and medium enterprises (SME).
2. To develop manpower in various areas of information technology like Database management, Software Development, Computer- Languages, Software engineering, Web-based applications, etc.
3. The necessary technical, scientific as well as basic managerial, and financial procedures to analyze and solve real-world problems within their work domain
4. Clarity on both conceptual and application-oriented skills in commerce, Finance, and Accounting and IT Applications in Business context
5. Improved communication and business management skills, especially in providing technical support
6. Awareness of ethics, values, sustainability, and creativity aspects
7. The ability and the mindset to continuously update and innovate.

COURSE OUTCOMES (CBCS SYLLABUS)

PAPER TITLE: INTRODUCTION TO PROBLEM-SOLVING USING C (CSCA113)

Outcomes:

- In-depth understanding of various concepts of C language.
- Skill to write program code in C to solve real-world problems and debug a program

PAPER TITLE: DIGITAL ELECTRONICS (CSCA114)

Outcomes:

- Skill to use the methods of systematic reduction of Boolean expression using K- Map and the ability to interpret logic gates and their operations.
- Familiarization with combinational and sequential logic circuits in electronics.

PAPER TITLE: PYTHON PROGRAMMING (CSCA123)

Outcomes:

- Skill to write codes in Python to solve mathematical or real-world problems.
- Ability to isolate and fix common errors in Python programs.

PAPER TITLE: DATA STRUCTURES AND ALGORITHMS (CSCA124)

Outcomes:

- Skill to analyze data and determine appropriate data structure.
- Knowledge of various data structures and their implementations.
- Ability to implement algorithms to perform various operations on appropriate data structures.

PAPER TITLE: OBJECT ORIENTED PROGRAMMING USING JAVA (CSCA231)

Outcomes:

- Skill to write Java application programs using OOP principles and proper program structuring.
- Ability to create packages and interfaces.
- Ability to implement error handling techniques using exception handling.

PAPER TITLE: COMPUTER NETWORKS (CSCA232)

Outcomes:

- Knowledge of OSI Layers in Computer Network.
- Ability to identify transmission media, types, and topologies of the network.
- Familiarization with the techniques of error detection and congestion control.

PAPER TITLE: SOFTWARE ENGINEERING (CSCA233)

Outcomes:

- Understanding of various methods or models for developing a software product.
- Ability to analyze the existing system to gather requirements for the proposed system.
- Skill to design and code software.

PAPER TITLE: OPERATING SYSTEMS (CSCA234)

Outcomes:

- Understand how memory is utilized.
- Understand CPU scheduling algorithms to manage tasks.
- Knowledge of methods to prevent and recover from a system deadlock and managing I/O devices.

PAPER TITLE: PROGRAMMING WITH VISUAL BASIC (CSCA241)

Outcomes:

- Understand forms, modules, components, menu editor, and its concepts.
- Usage of controls such as text box, buttons, checkbox, etc, and control them through codes.
- Ability to develop a simple project with the database using data sources.

PAPER TITLE: DATABASE MANAGEMENT SYSTEMS (CSCA242)

Outcomes:

- Understand data modeling and database development process.
- Construct and normalize conceptual data models.
- Implement a relational database into a database management system.
- Become proficient in using a database query language.

PAPER TITLE: WEB TECHNOLOGY (CSCA351)

Outcomes:

- Understand the various steps in designing a creative and dynamic website.
- Ability to write HTML, JavaScript, CSS, and ASP.

PAPER TITLE: VISUAL PROGRAMMING USING C# (CSCA361)

Outcomes:

- Understand programming in C# and able to write code for real-life problems.
- Ability to connect to a database and create small projects.

PAPER TITLE: PROJECT (CSCA362)

Outcome

- The course outcome is the ability of the student to apply the Software Development Cycle to develop a software module.
- The student will be able to use the techniques, skills, and modern software engineering tools necessary for software development.
- Develop a software product along with its complete documentation

PAPER TITLE: MATHEMATICS FOR BUSINESS (CSCA125)

Outcomes:

- Ability to understand mathematics for business and real-life setting
- Student will be able to write competitive exams

PAPER TITLE: OPERATIONS RESEARCH (CSCA236)

Outcomes:

- Acquire knowledge to use OR methods for computation.
- Derive solutions for the business problem using methods in OR.

PAPER TITLE: DATA WAREHOUSING (CSCA243)

Outcomes:

- Acquire knowledge in the fundamental concepts, benefits, and problem areas associated with data warehousing.
- Understand the various architectures and main components of a data warehouse.
- Ability to design a data warehouse, and be able to address issues that arise when implementing a data warehouse.

PAPER TITLE: DATA MINING (CSCA352)

Outcomes:

- Acquire knowledge to compare and contrast OLAP and data mining as techniques for extracting knowledge from a data warehouse.
- Implement data mining techniques like clustering, association rule, and decision tree, etc on the real data set.

PAPER TITLE: NETWORK SECURITY (CSCA354)

Outcomes:

- Familiarization with the benefits and issues regarding network security.
- Ability to understand the threat and deal with vulnerabilities.

PAPER TITLE: IT PROJECT MANAGEMENT (CSCA247)

Outcomes:

- Acquire knowledge of the Project management process and the need for such a management strategy.
- Understand how to be a stakeholder in a project and know the responsibilities.

PAPER TITLE: SOFTWARE TESTING (CSCA356)

Outcomes:

- Understand the problems of defects and the need for testing.
- Acquire knowledge about various testing strategies that are used in the industries to test their products.

PAPER TITLE: SOFTWARE QUALITY MANAGEMENT (CSCA367)

Outcomes:

- Able to understand the importance of quality and standards
- Understand various models of dealing with software quality

PAPER TITLE: FUNDAMENTALS OF ACCOUNTANCY (CSCA705)

Outcomes:

- Acquire knowledge about basic account for maintaining a record in a company
- Understand to manage profit and loss and trading accounts so that the student can maintain an account register

PAPER TITLE: PRINCIPLES OF MANAGEMENT (CSCA706)

Outcomes:

- Understand the need for management and learn the nuances of management.
- Acquire knowledge about various forms of organizations, their structure, and scope

PAPER TITLE: OFFICE AUTOMATION TOOLS (CSCA802)

Outcomes:

- Students will be able to draft official and personal letters using various functions of MS-Word.
- Understand, manipulate, and represent data with MS-Excel using formula and graphs
- Acquire knowledge to prepare a presentation for presenting their data through PowerPoint.

SUBJECT OUTCOME FOR FOUNDATION COURSES

DEPARTMENT OF ENGLISH

JULY 2017—APRIL 2020 (CBCS)

Sl. No.	Semester	Subject	Subject code	Outcome
1	I	Foundation course-English I	EN1(1)	To enhance SLRW skills
2	II	Foundation course-English II	EN1(2)	To enhance SLRW skills

DEPARTMENT OF TAMIL

July 2017 to April 2020

Semester	Subject	Subject Code	Outcomes of the Subject
I	Tamil Foundation Course I	LT1(1)	To know the basic Tamil Literature
II	Tamil Foundation Course II	LT2(1)	To know the basic Tamil Literature

DEPARTMENT OF FRENCH

Semester	Subject	Subject Code	Outcomes of Subject
I	French - I	LF1(C)	To know the basics of French communication in different situations like shops, touristic places, and necessities like a clinic, transport, and bank with grammar and Vocabulary.
II	French - II	LF2(C)	To improve communication in different situations like friends, family, job, and outdoors with grammar and Vocabulary.