



# **G.VENKATASWAMY NAIDU COLLEGE (Autonomous), KOVILPATTI.**

**Affiliated to Manonmaniam Sundaranar University – Tirunelveli.**

(Re-Accredited with 'A' Grade by NAAC)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli).

(Under the Management of The Kuppasamy Naidu Charity Trust for Education and Medical Relief, Coimbatore-37)

## **Programme Outcomes - Department of BCA**

<b>GPO No.</b>	<b>Programme Outcomes</b>
PO1	Acquires knowledge of Computing Fundamentals, Basic Mathematics, Computing Specialization, and Domain Knowledge of proper computing models from defined problems.
PO2	Analysis and synthesizes computing systems through quantitative and qualitative techniques.
PO3	Modern tool usage for Design and Development - Able to analyse and identify the customer requirements in multidisciplinary domains, create high level design and implement robust software applications using the latest technological skills.
PO4	Capable of adapting to new technologies and constantly upgrading their skills with an attitude towards independent and lifelong learning.
PO5	Communicates effectively in both verbal and written form.
PO6	Perform professionally with social, cultural and ethical responsibility as an individual as well as in multifaceted teams with a positive attitude.
PO7	Develop practical skills that will allow you to provide solutions to industry, society, and business.



# **G.VENKATASWAMY NAIDU COLLEGE (Autonomous), KOVILPATTI.**

**Affiliated to Manonmaniam Sundaranar University – Tirunelveli.**

(Re-Accredited with 'A' Grade by NAAC)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli).

(Under the Management of The Kuppasamy Naidu Charity Trust for Education and Medical Relief, Coimbatore-37)

## **PROGRAMME SPECIFIC OUTCOMES (PSOs)**

<b>GPO No.</b>	<b>Programme Specific Outcomes</b>
PSO1	Prepares students for roles that require them to develop programming skills, networking skills, learning applications, programming languages, Web development, hardware and troubleshooting, software skills, and modern techniques related to computer applications and the IT industry.
PSO2	Develop your knowledge and skills not only in computers and real-world application software but also in common organizations and management.
PSO3	Bachelor in Computer Applications (B.C.A.) gives a number of opportunities for individuals to shine in their lives and a few of them, like software programmers, system developers, network administrators, web designers, and faculty for Computer Science and Computer Applications.



# **G.VENKATASWAMY NAIDU COLLEGE (Autonomous), KOVILPATTI.**

**Affiliated to Manonmaniam Sundaranar University – Tirunelveli.**

(Re-Accredited with 'A' Grade by NAAC)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli).

(Under the Management of The Kuppasamy Naidu Charity Trust for Education and Medical Relief, Coimbatore-37)

## **Course Outcome - Department of Computer Applications**

### **BCA**

### **First Semester**

#### **Core – 1            Computing Fundamentals and C Programming (U21CA101)**

<b>CO No.</b>	<b>Course Outcome</b>
<b>CO1</b>	students will be able to remember the C programming language which includes the structure of C program, Tokens, Expression, operators etc.
<b>CO2</b>	Develop to write C programs using syntax and statements.
<b>CO3</b>	exercise given to solve apply and analyze real time problems.
<b>CO4</b>	Inscribe C programs Evaluate that uses pointers to access arrays and strings
<b>CO5</b>	be familiar with the C program to Create their own program.

#### **Elective Generic -1            Discrete Mathematics (U21CA1A1)**

<b>CO No.</b>	<b>Course Outcome</b>
CO1	students are able to use mathematical reasoning in order to read, comprehend, and construct mathematical arguments.
CO2	demonstrate an understanding of relations and functions and be able to determine their properties.
CO3	students will count or enumerate objects and perform combinatorial analysis.
CO4	students will verify whether an algorithm works well and perform analysis in terms of memory and time.
CO5	students will formulate and model problems with the concepts and techniques of discrete mathematics.



# **G.VENKATASWAMY NAIDU COLLEGE (Autonomous), KOVILPATTI.**

**Affiliated to Manonmaniam Sundaranar University – Tirunelveli.**

(Re-Accredited with 'A' Grade by NAAC)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli).

(Under the Management of The Kuppasamy Naidu Charity Trust for Education and Medical Relief, Coimbatore-37)

## **Core Lab –1**

## **Programming Lab (U21CA1P1C)**

<b>CO No.</b>	<b>Course Outcome</b>
CO1	recall the mathematical functions while creating a program
CO2	understand the fundamental programming concepts
CO3	apply the concepts to find solution for the problems
CO4	illustrate the programming technique to analyze software problems
CO5	design and develop the simple application.

## **Elective Generic Lab -1**

## **Office Software tools– Lab (U21CA1AP)**

<b>CO No.</b>	<b>Course Outcome</b>
<b>CO1</b>	students will be able to remember the basic concepts of document and spread sheet preparation
<b>CO2</b>	students will be able to understand about document and spread sheet preparation
<b>CO3</b>	apply formulas and make what if analysis.
<b>CO4</b>	students will have the ability to apply different presentation styles.
<b>CO5</b>	create Database Management Application



# **G.VENKATASWAMY NAIDU COLLEGE (Autonomous), KOVILPATTI.**

**Affiliated to Manonmaniam Sundaranar University – Tirunelveli.**

(Re-Accredited with 'A' Grade by NAAC)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli).

(Under the Management of The Kuppasamy Naidu Charity Trust for Education and Medical Relief, Coimbatore-37)

## **Second Semester**

### **Core – 2 Implementations of Data Structure using C++ (U21CA202)**

<b>CO No.</b>	<b>Course Outcome</b>
CO1	remember the basics of OOPS concepts and illustrate classes and objects.
CO2	experiment with data structure concepts make use of C++
CO3	exercise given to solve apply Data structure problems.
CO4	inscribe C++ programs Analyze that uses data structure functions.
CO5	be familiar with the C++ program to Evaluate and Create their own program.

### **Core Lab –2 Data Structures Using C++ Lab (U21CA2P2)**

<b>CO No.</b>	<b>Course Outcome</b>
<b>CO1</b>	write simple C++ programs with the designed algorithms
<b>CO2</b>	implement programs with classes and objects
<b>CO3</b>	apply the concept of data structure in C++
<b>CO4</b>	implement the searching, sorting, trees and graphs in C++
<b>CO5</b>	design and develop the simple application.



# G.VENKATASWAMY NAIDU COLLEGE (Autonomous), KOVILPATTI.

Affiliated to Manonmaniam Sundaranar University – Tirunelveli.

(Re-Accredited with 'A' Grade by NAAC)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli).

(Under the Management of The Kuppasamy Naidu Charity Trust for Education and Medical Relief, Coimbatore-37)

## Elective Generic -2 Computer Based Financial Accounting (U21CA2A2)

CO No.	Course Outcome
CO1	acquire conceptual knowledge of basics of accounting
CO2	converting a manual accounting system to a computer based system
CO3	prepare Financial Statements on the completion of the accounting cycle
CO4	equip with the knowledge of accounting process and implement in Computer
CO5	determine the useful life and value of the depreciable asset

## Elective Generic Lab -2 Business Accounting Software (U21CA2AP)

CO No.	Course Outcome
CO1	to give the practical knowledge of accounting to the students..
CO2	to make the students competent in preparation of Accounts for the Business Entities
CO3	student will do by their own create company, enter accounting voucher entries including advance voucher entries, do reconcile bank statement, do accrual adjustments, and also print financial statements, et
CO4	students do possess required skill and can also be employed as Tally data entry operator.
CO5	create your