# Govt.Shivalik College Naya Nangal
## (Computer Department)
## Course Outcome of BCA (2022-23)

## BCA 1ˢᵗ Year(Sem I)

**1 General English –I**

(I).PROSE PARABLESL:-

- To develop the language ability of the students.
- To enable the students to comprehend the idea contained in the prose.
- To develop an appreciation for the literary content.
- To enhance creative and critical thinking.
- To familiarize with eminent prose writers and their works.

(ii) .GRAMMAR(RAYMOND MURPHY,ENGLISH GRAMMAR):-

- 1.The students will gain knowledge of the correct use of past and present tense in writing.
- 2. The students will understand the English language better.
- 3. It enables them to understand how sentences are formed.

**2 Punjabi Compulsory or Mudla Gyan**

(i) Novalbathak de khambajehesafed din:-

Students will be information about Punjabi culture students will be able able to describe the nature of the characters related noval and writers writing style.

(ii) Grammar :-

Sentence structure and speaking ablity increase through grammar

**3 Fundamental of Information Technology**

- Understand  the computer and its general features
- Understand basic concepts and terminology of information technology
- Will be to able express basic computer hardwares
- Distinguish computer types and basic copcepts
- Know and use different number systems and the basics of programming.
- Have a basic understanding of personal computers and their operations

**4  Programming Using C**

- Develop a C program
- Control the sequence of the program and give logical outputs
- Implement strings in C program
- Store different data types in the same memory
- Manage I/O operations in your C program
- Repeat the sequence of instructions and points for a memory location
- Apply code reusability with functions and pointers
- Understand the basics of file handling mechanisms
- Explain the uses of pre-processors and various memory models

**5 Software Lab –I(Windows and Office Automation)**
 · to perform documentation
 · to perform accounting operations
 · to perform presentation skills

**6 Software Lab –II(Programming Fundamental Using C)**

•Understanding a functional hierarchical code organization.
• Ability to define and manage data structures based on problem subject domain.
• Ability to work with textual information, characters and strings.
• Ability to work with arrays of complex objects.
• Understanding a concept of object thinking within the framework of functional model.
• Understanding a concept of functional hierarchical code organization.
• Understanding a defensive programming concept. Ability to handle possible errors during program execution

# BCA 1ˢᵗ Year(Sem II)

**1 General English –I**
(i)  POETIC PALETTE:-
*   To analyze various elements of poetry such as diction, tone, from, genre, imagery, figures of speech, symbolism themes etc.
*   Recognize the rhythms, metrics and other aspects of poetry.
*    Develop an appreciation of language and style.Understand the thought and imagination contained in the poem correlating it with contemporary scenario.
*   Understand the development of poetry from the beginning to the modern age. 6. Inculcate their aesthetic sense and love for English poetry.
(ii)Grammar( RAYMOND MURPHY,ENGLISH GRAMMAR):-
*   Ability to be comfortable with English in use while reading or listening.
*   Ability to use receptive skills through reading and listening to acquire good exposure to language and literature.
*   Ability to write and speak good English in all situations.

**2 Punjabi Compulsory or Mudla Gyan**
(i)Neband de book:-
Students will be able to explain Punjabi literature thought the neband the students will know about the ideology of related to the characters.
(ii)  Grammar:-
Sentence structure and speaking ablity increase through grammar.

**3 Digital Electronics**

*   Have a thorough understanding of the fundamental concepts and techniques used in digital electronics.
*   To understand and examine the structure of various number systems and its application in digital design.
*   The ability to understand, analyze and design various combinational and sequential circuits.
*   The ability to identify and prevent various hazards and timing problems in a digital design.

**4 Data Structure**

- Ability to analyze algorithms and algorithm correctness.
- Ability to summarize searching and sorting techniques
- Ability to describe stack,queue and linked list operation.
- 4Ability to have knowledge of tree and graphs concepts.

**5 BasicMathematics**

• To impart the required knowledge of Mathematics and statistics for managerial activities among students.

• To inculcate in students the fundamental mathematical background in computer science.

• Understand the basic concepts of Sets, Relations Functions, Matrices, Mathematical logic, and Group theory.

• Develop analytical ability to solve real-world problems using these methodologies

**6 Software lab – III(based on data structure)**

- 1: Understand the concept of data structures and apply algorithm for solving problems like Sorting, searching, insertion and deletion of data.
- 2: Understand linear data structures for processing of ordered or unordered data.
- 3: Explore various operations on dynamic data structures like single linked list, circular linked list .
- 4: Explore the concept of non linear data structures such as trees and graphs.
- 5: Understand the binary search trees, hash function.


## Programme Outcome of BCA 1$^{st}$ Year (2022-23)

- Acquire skills and information not only about Computer and Information Technology but also in communication, organization and management.
- Information about various computer applications and latest developments in IT and communication systems is also provided.
- Get to learn programming languages such as C, C++
- An ability to apply knowledge of mathematics, computer science and management in practice
- An ability to communicate effectively