# IDHAYA COLLEGE FOR WOMEN

*(Accredited with 'B' Grade by NAAC)*

*(Recognized Under Section 2(f) & 12(B) of the UGC ACT 1956)*

*(Affiliated to Alagappa University, Karaikudi)*

**Arockia Nagar, Sarugani, Sivagangai Dt. - 630 411.**

**Department of Computer Applications**

**Programme: BCA**

| PO No. | Programme Outcomes Upon completion of the Degree Programme, the graduate will be able to |
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| PO-1 | Able to learn current technologies to find the solutions for the real world problems. |
| PO-2 | Able to work effectively, individually and on teams, including diverse and multidisciplinary, to accomplish a common goal. |
| PO-3 | Able to communicate effectively |
| PO-4 | Academic excellence through effective delivery of course contents |
| PO-5 | Develop committed and socially responsible individuals and help them take up active and positive roles in society |

*Use words that show the outcomes will be fulfilled following the completion of the Programme.

| PSO No. | Programme Specific Outcomes Upon completion of these courses the student would |
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| PSO – 1 | Students will able to understand, analyze and develop computer programs in the areas related to algorithm, system software, web design and networking for efficient design of computer based system. |
| PSO – 2 | Apply standard software engineering practices and strategies in software project development using open source programming environment to deliver a quality of product for business success. |
| PSO – 3 | Student will able to know various issues, latest trends in technology development and thereby innovate new ideas and solutions to existing problems. |

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| **PSO – 4** | The program prepares the young professional for Understand how the different IT services can be provided with the help of Windows Azure, AWS, Google Cloud. |
| **PSO – 5** | An ability to communicate effectively |

| **Department of Computer Applications** | |
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| **COURSE NAME** | **C and Data Structure** |
| **CO No.** | **Course Code** |
| **CO-1** | To understand the basic structure of C programs with constants, variables, data types and operators. |
| **CO-2** | To comprehend an Array and String declaration and initializations. |
| **CO-3** | Used to understand the importance of user defined functions, Structure definitions and Unions. |
| **CO-4** | Used to provide the methods for declaring, initializing and accessing the pointers and various file handling techniques. |
| **CO-5** | To summarize the classifications and operations of data structures. |
| **COURSE NAME** | **C And Data Structure Lab** |
| **CO-1** | To improve the programming knowledge of students. |
| **CO-2** | To perform the various string operations. |
| **CO-3** | Helps to improve the debugging skills of students. |
| **COURSE NAME** | **Programming In C++** |
| **CO-1** | Used to appreciate the principles of object oriented programming and expressions, tokens and control structures in C++. |
| **CO-2** | To understand the significance of classes, objects, member functions, constructors and destructors. |
| **CO-3** | Provides ability to understand the various types of inheritance and virtual classes. |
| **CO-4** | To know about the various file operations including opening, closing, updating and error handling operations. |
| **CO-5** | To provide the knowledge about the user defined templates and the |

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| | importance of exception handling. |
| **COURSE NAME** | **Programming In C++ Lab** |
| **CO-1** | Helps to understand the OOPs concept in programming. |
| **CO-2** | To implement the various error handling methods. |
| **CO-3** | To enhance the programming skills of students. |
| **7BCA3C1** | **Database Management System** |
| **CO-1** | Understand the purpose of database systems, relational databases and E-R diagrams. |
| **CO-2** | Provides the basic knowledge about relational designs and normal forms. |
| **CO-3** | Helps to understand the different kinds of databases such as parallel and distributed databases. |
| **CO-4** | Provides the way to creating and maintaining the tables, sequences, views and indexes. |
| **CO-5** | To understand the functionalities of stored procedures and triggers. |
| **7BCA3P1** | **Oracle Lab** |
| **CO-1** | Helps to understand the process of creating and manipulating tables. |
| **CO-2** | Students can able to identify how to handle queries. |
| **CO-3** | To understand the mechanism of Procedural languages and stored procedures. |
| **7BCA4C1** | **Java Programming** |
| **CO-1** | Helps to understand the basic concepts and benefits of OOPs and also describes the evolution of JAVA. |
| **CO-2** | Provides the detailed information about the operators, decision making and looping statements. |
| **CO-3** | To comprehend the Method overloading, Array, String, Vector and Interface in JAVA. |
| **CO-4** | To provide the importance of unique features of JAVA such as Packages, Threads and Error management. |
| **CO-5** | To understand the difference between applet programming and graphical programming. |
| **7BCA4P1** | **Java Programming Lab** |
| **CO-1** | To make the student learn an object oriented way of solving problems |

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| | using java. |
| **CO-2** | To make the students to write programs using multithreading concepts and handle exceptions. |
| **CO-3** | To help the students to write programs that connects to a database and be able to perform various operations. |
| **7BCA5C1** | **.Net Programming** |
| **CO-1** | Student will be able set up work environment and the variables, constants and operators of .Net. |
| **CO-2** | Used to provide the brief information about the windows common controls. |
| **CO-3** | Students can able to identify the additional controls and menus of windows like progress bar, linked label and etc. |
| **CO-4** | To understand the inbuilt functions and types and mechanism of exception handling. |
| **CO-5** | To know the linkage between the .Net and database connectivity using ADO .Net. |
| **7BCA5C2** | **Computer Architecture And Design** |
| **CO-1** | Students will able to the basic register organisations, instruction codes and instruction cycles. |
| **CO-2** | Helps to recognize the basic programming of computer including the machine and assembly languages, program loops and subroutines. |
| **CO-3** | To understand the built in functionalities of central processing unit. |
| **CO-4** | Provides the way to understand the basic computer arithmetic and priority interrupt. |
| **CO-5** | Helps to identify the various memory organisations and their functionalities of computer unit. |
| **7BCAE1A** | **Web Design Technology** |
| **CO-1** | Students are able to common tags and rules of HTML languages and forms and frames. |
| **CO-2** | Helps to understand the java script internet and java script array. |
| **CO-3** | Provides the information about java script selection structures and functions. |
| **CO-4** | Assists to understand the java script objects such as Math, String, Date and Boolean. |

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| | To understand the basic functionalities of VB script. |
| **7BCAE2A** | **Computer Graphics** |
| **CO-1** | Understand the basic transformation principles of two dimensional and their matrix representation. |
| **CO-2** | The history and video display generation of computer graphics. |
| **CO-3** | Identify the process of windowing, clipping and shielding. |
| **CO-4** | Comprehend the basics of three dimensional transformations such as translation, scaling and rotation. |
| **CO-5** | Analyze the components of user interface and the user's model. |
| **7BCA6C1** | **Data mining And Data Warehousing** |
| **CO-1** | Students can understand the data mining techniques and applications and frequent pattern mining. |
| **CO-2** | To understand the classification techniques and its importance. |
| **CO-3** | To recognize the clustering methods and its types. |
| **CO-4** | To identify the functionalities and significance of web data mining. |
| **CO-5** | To understand the process of data warehouse and its tools and techniques. |
| **7BCA6C2** | **Computer Networks** |
| **CO-1** | To understand the uses of computer networks and network standardization. |
| **CO-2** | Students will be able to understand the functionalities of data link layer. |
| **CO-3** | Helps to analyze the processes of network layer. |
| **CO-4** | To identify the protocol and characteristics of transport layer. |
| **CO-5** | To recognize the functionalities of network layer and network security. |
| **7BCA6C3** | **Software Engineering** |
| **CO-1** | To understand the quality and productivity factors of software. |
| **CO-2** | Students can able to understand the various cost estimation techniques of software product. |
| **CO-3** | Helps to comprehend the fundamental design concepts of software design and coding style of software product. |
| **CO-4** | To identify the various software testing strategies. |
| **CO-5** | To provide the way for measuring the quality of the software product. |
| **7BCA6PR** | **Project** |

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| **CO-1** | Project work enables the students to develop an inquisitive mind, always wanting to find out why things happens the way they happen. |
| **CO-2** | The usefulness of project work is that it enables the student to be methodical in his approach to solving the research problem. |
| **CO-3** | To ensure that students learn the theoretical and practical skills that they need. |