Govt. Digvijay College Rajnandgaon
Department of Computer Science
Course Outcomes

BCA – I Year

On completion of the course students will be able to

1. Knowledge of discrete maths , calculus & statical analysis
2. Understand the basic electronics
3. Knowledge of computer fundamentals , parts ,generation types, Software, operating system etc.
4. Develop the software in C language
5. Working in computer using MS-Office(Word, Excel, Power point, Access) and also working with internet and develop HTML pages.
6. Programming in visual basic-6 language
7. Develop communication skill in English Language.

BCA – II Year

On completion of the course students will be able to

1. Knowledge of Numerical analysis and Differentiation and Integration.
2. Understand the data structure which help to data organized and using in different types with different algorithms.
3. Understand about Data Base management system. Rum SQL(Structure Query Language) quires.
4. Develop software in C++ Language. And also know the function of Visual C++ Language.
5. Understand about the Networking , its function , Types and internet Technology
6. Working in Linux/Unix Operating system and develop shell scripting.
7. Develop management .

BCA - III Year

On completion of the course students will be able to

1. Knowledge of calculus and Geometry , Differential Equation and Fourier Series.
2. Understand the internal organizing parts of computer with computer system architecture.
3. Develop software in core java , java script and applets.
4. Knowledge of Operating system its concept , types , working , mechanism and help how to write new operating system.
5. Understand Software engineering.
6. Knowledge of multimedia its tools , Flash design and its application.
7. Understand about the financial Management and Accounting.
8. Knowledge of complete software project development and its documentation.

B.Sc. I (Computer Science)

On completion of the course students will be able to

1. To introduce, the computer PC's and clones to the students.
2. To introduce and explain terms, various' parts of computer, which will be helpful in understanding of computer hardware & use of computer.
3. To introduce an idea of digital electronics and digital circuits for building up-the computer.
4. To introduce the basic knowledge of software require for running the computer.
5. To introduce the basic knowledge of programming in Hall, BASIC for solving-the problem.
6. To introduce the WORD PROCESSOR package for document processing and mail merge.

B.Sc. II (Computer Science)

On completion of the course students will be able to

1. To introduce the overall organization of the microcomputer.
2. To introduce the common peripheral devices used in computers
3. To introduce the hardware components, use of micro processor and function of various chips used in microcomputer.
4. To introduce the internet & web related technology & learn the intricacies of web-page designing using HTML.
5. To introduce the object oriented programming concept using C++ language.
6. To introduce the problem solving methodology using the C++ programming features.

B.Sc. III (Computer Science)

On completion of the course students will be able to

1. To introduce the overall organization of the microcomputers and operating systems.
2. To introduce the interaction of common devices used with computers with operating software, excluding the Assembly languages, with special reference to DOS/WINDOWS.
3. To introduce the working of hardware components, Micro-Processors and various chips used in micro-computers by operating system, without the use of electronic circuitry.
4. To introduce the use of operating systems architecture with IBM-PC &clones, excluding Assembly language, with forms an important part of hardware.
5. To introduce Data Base Management System concepts.
6. To introduce the Relation Database management System and Relation Database design.
7. To introduce the RDBMS software and Utility of query language.
8. To introduce basic concept of GUI Programming and database connectivity using visual Basic.

M.Sc. (Computer Science) – I Semester

1. Knowledge of mathematical foundation of computer science
2. Understand about the advance computer operating system.
3. Advance knowledge of data structure and its algorithm using in 'C" Language.
4. Develop the C++ computer software with Object oriented concept.

5.   Understand computer system architecture.

M.Sc. (Computer Science) – II Semester
On completion of the course students will be able to

1.   Understand Relational Database Management System
2.   Knowledge of advanced computer Networking.
3.   Development software in Visual Basic 6 programming Language.
4.   Understand working and mechanism of compiler and design .
5.   Knowledge of Numerical analysis & its application .

M.Sc. (Computer Science) – III Semester
On completion of the course students will be able to

1.   Development advanced software in JAVA Language.
2.   Understand working , mechanism and algorithms of computer graphics.
3.   Working in LINUX operating system and shell scripting.
4.   Knowledge of Image processing and its application.
5.   Understand Object Oriented Analysis and Design.

M.Sc. (Computer Science) – IV Semester
On completion of the course students will be able to

1.   Understand Software Engineering.
2.   Knowledge of Artificial intelligence and expert system .
3.   Understanding data mining and data warehousing.
4.   Complete computer software project development with documentation.

BCA

After Completing the Bachelors of Computer Applications (BCA) Students are able to:

1. It is a 3 year course with complete emphasis over computers only.
2. Its syllabus only includes important topics related to computers.
3. It is a professional course made with a view of improving students mindset towards computers.
4. It covers more technical topics than any other computers degree, the syllabus consists of a large number of programming languages in order to improve students knowledge.
5. Its more software oriented than hardware.
6. This course is help student to become software developer.
7. Understand the fundamental concepts of Computers, Business environment and IT Applications in Business
8. Successfully understand & analyze technical data to reach actionable conclusions, including technological solutions to the business.
9. Learn technologies & IT languages, so the business problems could be addressed.
10. Develop competent technical writing skills so as to enable the graduate to communicate business ideas to senior management and general public.
11. To identify and sharpen their IT/ programming skills.

B.Sc. (Computer Science)

On completion of the B.Sc.(Computer science) students are able to:

1. Understand to computer hardware organization & Computer digital electronics
2. Knowledge of computer software organization & use for use for solving any Problem by Computer
3. The emphasis in on the design concepts & organizational details of the common PC ,learning the complicated electronics of the system of the computer Engineers.
4. Introduction to the web-language –HTML & problem solving through the concept of object oriented programming.
5. The emphasis is on the design concepts and organizational details of the common PC, leaving the complicated Electronics of the system to the computer engineers.
6. To introduce DBMS and RDBMS using Back- end tool and Front-end tool. Object of the Course:
7. Serve as the Asstt. Programmers or the Software Engineers with the sound knowledge of practical and theoretical concepts for developing software.
8. Serve as the Computer Engineers with enhanced knowledge of computers and its building blocks.
9. Work as the Hardware Designers/Engineers with the knowledge of Networking Concepts.

10. Work as the System Engineers and System integrators Serve as the System Administrators with thorough knowledge of DBMS.
11. To Give Technical Support for the various systems.
12. Serve as the IT Officers in Banks and cooperative societies.
13. Work as DTP Operator in small-scale industries.
14. Serve as the Web Designers with latest web development technologies.

M.Sc. (Computer Science)
On the completion of the M.Sc. (Computer science) students are able to work as:

1. Programmer or Software Engineer
2. Computer Engineer
3. Web Designer
4. Hardware Designer/Engineer
5. Systems Engineer
6. System integrator
7. System Administration
8. Technical Support
9. Support Engineer
10. Technical Writer
11. Consultant
12. Management
13. Administration
14. IT Sales and Marketing
15. IT Officer
16. Computer Scientist
17. Research Staff Member
18. Systems Analyst
19. Logic Designer
20. Computer Scientist in research and R & D laboratories.
21. Computer Science Graduates Earn Higher Salaries

Govt. Digvijay College Rajnandgaon
Department of Computer Science
Programme Specific Outcome

BCA

After Completing the Bachelors of Computer Applications (BCA) Students are able to:

1. Improve their computer literacy, their basic understanding of operative systems and a working knowledge of software commonly used in academic and professional environments.
2. Develop criteria to organize and present different type of works in academic and professional environments.
3. Learn how to organize information efficiently in the forms of outlines, charts, etc. by using appropriate software.
4. Develop the skills to present ideas effectively and efficiently.
5. Do Academic and Professional Presentations - Designing and delivering effective presentations and developing the various IT skills to the electronic databases.
6. Use the Systems Analysis Design paradigm to critically analyze a problem.
7. Solve the problems (programming networking database and Web design) in the Information Technology environment. Function effectively on teams to accomplish a common goal and demonstrate professional behavior.
8. Develop IT-oriented security issues and protocols.
9. Design and implement a web page.
10. Improve communication and business management skills, especially in providing technical support.

B.Sc. (Computer Science)

On completion of the B.Sc. (Computer Science) programme, students will be able to

1. Ability to apply knowledge of computing, mathematics, and basic sciences that may be relevant and appropriate to the domain
2. Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution
3. Ability to design, implement, and evaluate computer-based system, process, component, or program to meet desired needs
4. An ability to function effectively on teams to accomplish a common goal
5. Ability to analyze the local and global impact of computing on individuals, organizations, and society
6. Recognition of the need for and an ability to engage in continuing professional development
7. Ability to use current techniques, skills, and tools necessary for computing practices.
8. Ability to use and apply current technical concepts and practices in the core development of solutions in the form of Information technology
9. Ability to incorporate effectively integrates IT-based solutions to applications.

10.   An ability to assist and manage the execution of an effective project plan.

M.Sc. (Computer Science)

On the completion of the M.Sc. (Computer science) students are able to

1.   Understand applications of C++ like Smart Pointer , Generic Pointer , Object Validation and Reference Counting.
2.   Get hands on various Linux commands and shell script for different application.
3.   Explore programming techniques of Java beans and swing.
4.   Understand network fundamentals with TCP/IP architecture.
5.   Understand artificial intelligence and AI problem solving techniques.
6.   Explore logic for solving various AI problems.
       Understand data warehousing for business analysis using OLAP, OLTP, MOLAP and ROLAP.
7.   Explore the concepts of data mining and data preprocessing.
8.   Ability to identify and analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems
9.   Able to go for higher education teaching job and eligible for NET/SET test.