

Bhusawal Arts Science and P O Nahata Commerce College, Bhusawal

Course Outcomes

DEPARTMENT OF COMPUTER SCIENCE

Class	Course	Outcomes (Students will be able to)
Computer Science		
FYBSc	CS 111 Basics of Computer	Know about the the History of Computers.
		Know about the What is Computer and Basic concepts of computer.
		Understand about various types of Computers, types of input and output devices.
		Understanding of Algorithm and Flowchart of Program.
		Know about computer networks, its types and basics of Internet.
		Learn computer viruses and its types.
	CS 112 C Programming - I	Understand basic programming skill and structure of program
		Be familiar with variable, constants and keywords
		Understand operators and library functions
		Undersatand Conditional statements and looping concept
		Be familiar with array ,types of array and declaration of array
	CS 121 Internet Computing	
	CS 122 C Programming - II	Understand function, function calling and string function
		Be familiar with pointer and operation on pointer
		Introduction of structure and union
		Understand Graphics in C and graphics function
		Concept of file and file processing
	CS-103 and 203 LAB Course on Paper I&II	Introduce with C programming environment. Understanding of debugging, compiling and executing programs. Use of array and their applications. Understanding use of standard library functions. Efficient use of looping concepts, conditional statements, goto, returns and continue statements.
SYBSc	COMP 211 : Data Structure-I	Understand about what is data structure and basic algorithmic notations.
		Learn the time and space requirement of any algorithm.
		Understand About Stack,Queue,Linked List
		Understand about Generalized List,Ploynomial Manipulation
		Know about the file structures.
	COMP 212 : OOAD & Introduction to C++	What is Object Oriented Programming Environment?

		Understand between Structures Oriented Programming & Object Oriented Programming.
		Understand for Reusable Extensible & Robust Program in C++
		Introduced & Understand for Different object modeling technique ,Generalization ,Aggregation & Metadata.
	COMP 221 : Data Structure – II	Understand about various types of tree
		Understand about the Traversing and represent the graphs
		Know about the different approaches of sorting and searching elements in the arrays.
		Understand the different algorithm design technique
	COMP 222 : Programming in C++	Introduction For Programming in C++. Understand For Operator & Function Overloading. How to Use Of Polymorphism in C++. Hierarchy Of Classes Using Inheritance in C++. Use of Pointer. Template & STL Using Genetic Programmed for C++
	COMP 213 and 223 : Practical Course	<ul style="list-style-type: none"> • use ASP.Net create dynamic web pages • On The completion Of the Course to understand various program in Data structure -I& CPP.
TYBSc	CS-311 System Programming	Understand details about System Software. Able to do basic System Programs like development of editor, lexical analyser etc. Understand the usages of software tools.
		Familiar with language processing activities – Functions of translator (Assembler, Compiler) and Loader and Linkers.
	CS-312 Database Management System	<ul style="list-style-type: none"> • Defining Data and Database
		<ul style="list-style-type: none"> • Levels of Data Abstractions
		<ul style="list-style-type: none"> • Know about how to draw E-R Diagrams
		<ul style="list-style-type: none"> • Performing functional dependency and Data Normalisation.
		<ul style="list-style-type: none"> • Know about Codd's Rules
		<ul style="list-style-type: none"> • Make use of Concurrency control, Backup & recovery for large or huge of databases.
	CS-313 Software Engineering	<ul style="list-style-type: none"> • Knowledge of SDLC,, software Development Process
		<ul style="list-style-type: none"> • Get aware of Software Development models
		<ul style="list-style-type: none"> • Get knowledge of Requirement Analysis and Specification in software engineering .
		Get knowledge about Fact finding Techniques , Types of Requirement Modeling and Data Modeling Concepts.
		<ul style="list-style-type: none"> • Learn Design of software engineering
		<ul style="list-style-type: none"> • Get Knowledge of Drawing Decision Table,Data Flow Diagram
		<ul style="list-style-type: none"> • Know about Software Coding & Testing.
		<ul style="list-style-type: none"> • Get aware about Elements of Software Quality Assurance.
	CS-314 Computer Aided Graphics	Understand for What is Graphics. What is Intractive & Non-Intractive Graphics. Study for the line Drawing & Circle Drawing. How to perform the 2D & 3D transformation for Different Images. How to clip 2D & 3D object. Elimination of Hidden Surface

	CS-315 Programming in VB.NET	Understand .NET platform. Understand flow control, Object Oriented Programming. Understand Data Connectivity using ADO.NET Get knowledge about application design using controls Efficient use of windows application and console application
	Elective-A CS-316 A) Programming in C#	
	Elective -B UG-CS-316 B) JAVA Programming-I	Understand the features and OOPS concepts of JAVA Programming. Understand the concepts like exception handling and File manipulations. Able to develop simple Java Applications.
	CS-321 Operating System	Familiar with Operating System Services. Understand CPU scheduling algorithms, memory Management Techniques, Disk Drum Scheduling algorithms, Deadlock preventions and avoidance. Introduction to android operating systems – its architecture, applications and uses.
	CS-322 MS SQL Server	<ul style="list-style-type: none"> • understand features and data types in SQL server. • create and manipulate databases for various applications. • use procedures and trigger for performing complex operation on databases. • handle errors using exception handling concepts.
	CS-323 Internet Programming using PHP	
	CS-324 Theoretical Computer Science	Understand For Languages in TCS. Introduction For Regular Languages & Expression. Understanding for Pumping Lemma, Push Down Automata. What is Normal Forms with Examples. Understanding Turing Machine.
	CS-325 Computer Network	Understand Networking. Study For the Types of Transmission Media. Understand For Network Topologies. Understand & Study for the Cryptography
	Elective - A CS-326 A) Web Programming using ASP.NET	<ul style="list-style-type: none"> • Understand & Implement features of ASP.Net to create ASP.Net Compilation Model, Code Behind

		Model Execution Stages.
		•Understand & Implement ASP.NET Controls , ASP.Net Intrinsic Objects
		• Implement page layout, styles and text balance, site map, Master pages and content Pages, Navigation controls: Tree view, site map path(bread crumb), Menu navigation.
		• By using ASP.Net create dynamic web pages
	Elective - B CS-326 B) JAVA Programming-II	Knowledge of GUI programming and its packages.
		Event Handling Mechanism – Keyboard event, Mouse Event, Window events.
		Create and use of User Interface Elements like – buttons, menu, Text Fields, dialog boxes etc.
		Able to create Applet - For Webpage development (Embed java program in web page).
		Introduction with advanced java concepts – Java Beans, JDBC and servlet.
	CS-Lab-301 Lab on System Programming	students are able to develop system programs like line editor, SMAC0 and lexical analyser, interrupt handler.
	CS-Lab-302 Lab on Programming in VB.NET, Computer Aided Graphics	Understand for the student to develop the Program for Demonstrate the Graphics :-Circle,Line,2D & 3D Transformation etc.
	CS-Lab-304 Lab on MS SQL Server	On completion of the course, students are able to develop database management system using features and services provided by MS SQL Server.
	CS-Lab-305 Lab on Internet Programming using PHP	Study for How to Implement the Program for PHP.
	Elective -A CS-Lab-303 A) Lab on Programming in C# and CS-Lab-	• On completion of the course, students are able to develop programs using C# based on object oriented concepts and write the ROBUST, EXTENSIBLE and EFFICIENT programs by using c# code and ASP.Net create dynamic web pages.
	Elective -B CS-Lab-303 B) Lab on JAVA Programming –I and CS-L	Students are able to develop GUI applications, Event driven programming, web based programming using JAVA.
MSc-I	CS-101 Advanced C++ Programming	Get knowledge about Orthodox Canonical Form, Small Talk applications. Understand advanced concepts of pointers like Smart Pointer , Generic Pointer , Object Validation and Reference Counting. Understand detail concepts of Standard Template Library. Get knowledge about advanced concepts for handling runtime errors using stack unwinding, uncaught exception and automatic cleanup. Study the Runtime Type Information of the member variables, functions and the multiple inheritance that are used in the program.

CS-102 Automata Theory and Computability	Understand the Regular Expression. Understand and What is Normal Forms. The study of Push Down Automata. Study PCP, decidability of membership, emptiness and equivalence problems of natural languages.
CS-103 Advanced Operating System	<ul style="list-style-type: none"> • Understand the overview of the UNIX operating system. • Understand detail working using file subsystem • Understand about the various process . • Study the various shell programming and UNIX commands.
CS-104 Digital Image Processing	• Understanding the memory management techniques.
CS-105- LAB - I Lab on Advanced OS and Digital Image Processing	<ul style="list-style-type: none"> • Understands the Practicals on various linux commands and shell script for different application. • Understand the C Program Using linux • Familiar with MATLAB environment. • Familiar with Red/Hat Linux Server
CS -106-LAB - II Lab on Advanced C++ Programming	
CS-201 Advanced DBMS	Database System Architectures Parallel Databases Distributed Database Concepts Object and Object Relational Databases XML Databases Mobile Databases Multimedia Database
CS-202 Machine Intelligence	What is machine intelligence Understand Problems, Problem Spaces, and Search Study for Heuristic Search Techniques Knowledge Representation How to Use Predicate Logic Understand Weak Slot-and-Filler Structures & Strong Slot-and-Filler Structures What is Neural networks
CS-203 Compiler Construction	Know role of lexical analyzer,token ,patterns ,lexeme lexical errors Understand detail program execution using lexical and syntax analysis Be aware of code generation and optimization.
CS-204 Design and Analysis of Algorithms	Understanding of Algorithm Concept Divide and Conquer Control Abstraction for Greedy Algorithms Dynamic Programming Backtracking Problem Classifications
CS-205- LAB - III Lab on DAA and MI	implement removal of recursion creating max./min. Heap find minimum and maximum form a given array. Binary searching of array & sorting element form given array using (heap, merge and quick sort)

		Strassen's matrix multiplication, Knapsack method, find minimum spanning tree using prim's/kruskal's algorithm, find shortest path using single source shortest path, find shortest path using all pair path.
	CS -206-LAB - IV Lab on Advanced DBMS	
MSc-II	CS-301 Software Engineering	
	CS-302 Optimization of Algorithm	
	CS-303 Advanced Java Programming	<ul style="list-style-type: none"> • Understands the concept upon Distributed Computing. • Study the various Java Bean And Swing techniques. • Aware about Java Enterprise applications. • Understand about java servlets and java struts.
	CS-304 Windows, WCF and WPF Programming	
	CS-305-LAB – V Lab on Windows, WCF and WPF Programming	
	CS -306-LAB –VII Lab on Advanced Java Programming	<ul style="list-style-type: none"> • On completion of the course, students will design various java programs like Bean Box,Collection Classes,Packages,Swing Classes,JDBC, JSP,EJB, Struts etc.
	CS-401 Natural Language Processing	
	CS-402 Advanced Network Programming	
	CS-403 Data Warehousing and Data Mining	
	CS-404- LAB – VII Lab on Network programming and Data Mining	

	CS -405 Mini Project (200 marks)	<ul style="list-style-type: none"> • Deal with real world data.
		<ul style="list-style-type: none"> • Familiar about real time IT industry environment.
		<ul style="list-style-type: none"> • Experience about applying the knowledge they got upto now.
		<ul style="list-style-type: none"> • Build a whole real time working system which will satisfy all customer's needs.

DEPARTMENT OF INFORMATION TECHNOLOGY

Class	Course	Outcomes (Students will be able to)
FYBSc.	IT 111: Web Design –I	<ul style="list-style-type: none"> • Understand about Analog & Digital communication.
		<ul style="list-style-type: none"> • Understand about Overview of Information Security- Viruses & Worms, threats.
		<ul style="list-style-type: none"> • Getting knowledge of computer network and for using internet.
		<ul style="list-style-type: none"> • Understand the Types of Website, its Structure, Site Organization Model , Site Planning and Testing.
		<ul style="list-style-type: none"> • Understand how to design website with different website development models.
		<ul style="list-style-type: none"> • Know the different page types on websites and its navigations.
		<ul style="list-style-type: none"> • Designing website using HTML language.
		<ul style="list-style-type: none"> • Design advanced website using CSS.
	IT 112: OOP (Object Oriented Programming-I)	<ul style="list-style-type: none"> • Understand the concepts of Basic C Programming Language.
		<ul style="list-style-type: none"> • To develop the skill of programming.
		<ul style="list-style-type: none"> • Be familiar with Object Oriented Programming.
		<ul style="list-style-type: none"> • Differentiate between structure oriented programming and object oriented programming.
		<ul style="list-style-type: none"> • Understand different object oriented modeling techniques.
		<ul style="list-style-type: none"> • Write Reusable , Extensible and Robust programs in C++.
		<ul style="list-style-type: none"> • Able to use constructor and destructor.
	IT 121: Advanced Web Design -II	<ul style="list-style-type: none"> • Understand and learn about evaluation of scripting languages.
		<ul style="list-style-type: none"> • Learn about java scripting function and objects.
		<ul style="list-style-type: none"> • Understand and learn java script object hierarchy.
		<ul style="list-style-type: none"> • Able to design and develop dynamic web pages .
		<ul style="list-style-type: none"> • Getting knowledge to develop web portals through XML.
	IT 122: Object Oriented Programming-II	<ul style="list-style-type: none"> • Explore polymorphism using Function and Operator Overloading.
		<ul style="list-style-type: none"> • Write programs for handling runtime errors using exception.
		<ul style="list-style-type: none"> • Understand the concepts of pointers in C++.
		<ul style="list-style-type: none"> • Understand the different aspects of hierarchy of classes and their extensibility.
		<ul style="list-style-type: none"> • Write generic programs using templates and STL.
	IT103 and 203 LAB Course on	<ul style="list-style-type: none"> • develop programs using c++ to meet real world needs

Paper I and II	and able to develop their own websites. This course provides platform to enhance student"s basic skills required for advanced programming.
IT 211 : Data Structure – I	<ul style="list-style-type: none"> • Know what is data structure and basic algorithmic notations. • Analyse the time and space requirement of any algorithm. • Understand different linear data structures for conversion of mathematical expressions and polynomial representations. • Know the file structures.
IT-212:Programming in C#	<ul style="list-style-type: none"> • work by using c# code and ASP.Net create dynamic web pages. • Use MS Visual Studio.NET IDE and Create Console Applications. • Know about Basic Principal of OOP, Defining Class and using functions. • use constructor and destructor. • Use Polymorphism ,Method Overriding ,Method hiding.
IT-221: Data Structure – II	<ul style="list-style-type: none"> • Know different non-linear data structures that can be used to represent hierarchical relationship between objects. • Traverse and represent the graphs in computer. • Understand the different approaches of sorting and searching elements in the arrays. • Understand different techniques of designing the algorithms.
IT 222 : Web Programming using ASP.NET	<ul style="list-style-type: none"> • Use features of ASP.Net create ASP.Net Compilation Model, Code Behind Model Execution Stages. • Know about ASP.NET Controls , ASP.Net Intrinsic Objects • Use page layout, styles and text balance, site map, Master pages and content Pages, Navigation controls: Tree view, site map path(bread crumb), Menu navigation. • use ASP.Net create dynamic web pages
IT 213 and 223: Practical Course	<ul style="list-style-type: none"> • Write the ROBUST, EXTENSIBLE and EFFICIENT programs and using data structure.By using c# code and ASP.Net create dynamic web pages.
IT-311 System Programming	<ul style="list-style-type: none"> • Get insight into the system softwares and their tools like Editors and Deb Monitors. • Get familiar with language processing activities. • Understand detail working of Assembler, Macro and Macro Preprocessor , Compiler and linker & Loader.
IT-312 Database Management System	<ul style="list-style-type: none"> • Get aware of Describing & storing data. • Know about E-R Model by overview of database design.. • Get familiar with Conversion of ER to Relational model.

		<ul style="list-style-type: none"> • Know about functional dependency and Data Normalization.
		<ul style="list-style-type: none"> • Understand Database Implementations.
		<ul style="list-style-type: none"> • Make use of Concurrency control, Backup & recovery for large or he of databases.
		<ul style="list-style-type: none"> • Get aware about handling he databases.
	IT-313 Data Communication	<ul style="list-style-type: none"> • Know about Major Communication in data communication system -Transmission Path and Modems.
		<ul style="list-style-type: none"> • Get familiar with Switching & Multiplexing.
		<ul style="list-style-type: none"> • Understand Error Correction & Detection in Data Communication.
		<ul style="list-style-type: none"> • Know about Wired LANs , Wireless LANs and Bluetooth.
		<ul style="list-style-type: none"> • Get knowledge of Data Communication Services.
		<ul style="list-style-type: none"> • Get aware of evaluation of software and Software Development Life Cycle (SDLC).
		<ul style="list-style-type: none"> • Know about Software Development Model.
		<ul style="list-style-type: none"> • Get knowledge of Requirement Analysis and Specification in software engineering.
		<ul style="list-style-type: none"> • Learn use of Fact finding Techniques, Types of Requirement Modeling and Data Modeling Concepts.
		<ul style="list-style-type: none"> • Get knowledge of Design Concepts in software engineering.
		<ul style="list-style-type: none"> • Know about Cohesion & Coupling , Decision Table & Decision Tree, Data flow Diagram
		<ul style="list-style-type: none"> • Know about Software Coding & Testing.
		<ul style="list-style-type: none"> • Get aware about Elements of Software Quality Assurance.
	IT-315 Internet Programming using PHP	<ul style="list-style-type: none"> • understand how PHP works with lexical structure of it.
		<ul style="list-style-type: none"> • program for different applications using arrays, functions and strings.
		<ul style="list-style-type: none"> • aware about different web techniques used in PHP.
		<ul style="list-style-type: none"> • integrate PHP with MYSQL.
	IT-316 JAVA Programming-I	<ul style="list-style-type: none"> • Get knowledge JDK Environment.
		<ul style="list-style-type: none"> • Explore polymorphism using Function and Operator Overloading ,overriding .
		<ul style="list-style-type: none"> • Understand the different aspects of hierarchy of classes and their extensibility .
		<ul style="list-style-type: none"> • Understand the concepts of streams and files .
		<ul style="list-style-type: none"> • Write programs for handling runtime errors using exception.
	IT-321 Operating System	<ul style="list-style-type: none"> • know about functions and services of operating system.
		<ul style="list-style-type: none"> • aware about different CPU scheduling algorithms
		<ul style="list-style-type: none"> • get familiar with different memory management techniques.
		<ul style="list-style-type: none"> • understand different disk and drum scheduling algorithms as well as deadlock concepts.
		<ul style="list-style-type: none"> • get introductory knowledge about android operating system.

	IT-322 MS SQL Server	<ul style="list-style-type: none"> • understand features and data types in SQL server. • create and manipulate databases for various applications. • use procedures and trigger for performing complex operation on databases. • handle errors using exception handling concepts.
	IT-323 Computer Network & Security	<ul style="list-style-type: none"> • understand applications of network, network structures and protocol hierarchy • aware about details of physical, datalink, network and transport layer of TCP/IP network model. • understand about different aspects of network security like firewalls, IP security and VPNs. • aware about attacks and Confidentiality used in cryptograpy.
	IT-324 Automata Theory, Languages, and Computation	<ul style="list-style-type: none"> • Understand what is Push down Automata and its applications. • understand concepts of Context free grammar and normalization of CFG. • convert regular expression to Finite Automata. • Design Turing Machines for various applications like enumerator, function computer and universal turing machine.
	IT-325 Cyber Law & IT Act	<ul style="list-style-type: none"> • know about basics of cybernetics. • understand theory of cyber crime like web jacking and hacking. • aware about cyber laws and IT acts 2000 in India. • know about intellectual property rights.
	IT-326 JAVA Programming-II	<ul style="list-style-type: none"> • program using graphical user interface with Swing classes. • handle different kinds of events generated while handling windows. • create programs using menus and dialog boxes. • program for websites using applets. • understand advanced java concepts like JDBC and servlets.
	IT-Lab-301 Lab on System Programming	<ul style="list-style-type: none"> • develop system programs to provide basic applications for computing like line editor, interrupt handler, SMAC0 and lexical analyser.
	IT-Lab-306 Lab on JAVA Programming II	<ul style="list-style-type: none"> • develop interactive static as well as dynamic websites.
	IT-Lab-303 Lab on JAVA Programming –I and IT-Lab-306 Lab on J	<ul style="list-style-type: none"> • develop efficient programs which provides graphical user interface for easy handling of computers.
	IT-Lab-304 Lab on MS SQL Server	<ul style="list-style-type: none"> • develop database management system using features and services provided by MS SQL Server.
	IT-Lab-305 Designing Dynamic Web Portal	<ul style="list-style-type: none"> • develop a web portal in CMS(Content Management System). using XAMP server.

FY/SY/TY BCA OUTCOMES

Class Course Outcomes (Students will be able to)

Class	Course	Outcomes (Students will be able to)	
FYBCA Sem –I	BCA 101 Foundation Course for Managers	Understand the fundamental Accounting concepts	
		learn the process of recording of financial transactions in the books of Accounts	
		develop the foundation for higher studies in the field of accounting	
	BCA 102 Computer Fundament and Networking	To Know the generations of computer	
		Understand the Conversation of number system	
		To know the concept of Memory and I/O devices	
		Planning Of Programe by Algorithm and Flowchart	
		Enhance the concept of Operating System	
		Familiar with Networking	
		Understand the concept of Topologies and Switching	
	BCA 103 Essential of Web Design I	Understand concept of Internet services	
		To know the HTML Fundamentals	
		Understanding the formatting texts	
		Familiar with image tag and attributes	
	BCA 104 Programming In C	Understand concept of different link and tables	
		Develop their programming skills.	
		Be familiar with programming environment with C Program structure.	
		Declaration of variables and constants.	
	BCA 105 Practical on Computer & Internet	Understand operators, expressions and preprocessors.	
		Understand arrays , functions, pointer and structure	
		Student are able to Use computer,	
Perform DOS Command			
Use of different web browser			
BCA 106 Practical on Web Design-I	How to create E-mail id ,sending and receiving mail		
	Study of different intent connectivity component		
	Surf Internet and save the information		
	Student able to create web pages		
BCA 107 Practical on C Programming	Student use different formatting tags		
	Create web page using anchor tag		
	Student create web page using frames and frameset tag		
	Design simple web page of college admission form		
FYBCA Sem –II	BCA 201 Financial Accounting	On completion of the course, students are able to develop programs using C to meet real world needs. This course provides platform to enhance student's basic skills required for advanced programming.	
		give the practical knowledge of accounting to the students.	
		Make the students competent in preparation of Accounts for the Business Entities.	
	BCA 202 Professional Communication	Understand th concept of Financial Accounting	
		Understand th concept of Cost Accounting	
		Understand th concept - Basics of Communication	
		Give the knowledge of Written Communication-I and - Written Communication –II	
		Give the knowledge of Organizational Communication –I and - Organizational Communication –II	
		BCA 203 Essential of Web Design II	Understand cascading style sheets
			Inherits style using different kind of style sheets
			Familiar with cascading style sheets
			Understand the concept of Java script
		BCA 204 Programming In C++	To know concept of java script, function, object and forms
	Understand the basic of oops		
	Understand C++ Controls , Pointers & Functions		
	Know the object classes, operator overloading		
	BCA 205 Practical on Professional Communication	Understand Virtual Functions, Templates & Exception& File handling	
		On completion of the course, students are able to basic communication skills Prepare letter of application, Prepare Notice, Prepare Memo, Create E-mail, Prepare Written Report	
		Prepare Grammar Worksheet, Prepare a Report, Draft a Resume, Write a Job Application Letter including a covering letter	
	BCA 206 Practical on Web Design-II	Student set the background of web page using CSS	
		Set different font style to each paragraph	
Demonstrate the use of external CSS			

		Java script code to demonstrate different events
		HTML page to demonstrate date and time object using java script
	BCA 207 Practical on C++ Programming	<ul style="list-style-type: none"> On completion of the course, students are able to develop programs using C++ Programming to meet real world needs. This course provides platform to enhance student's basic skills required for advanced programming
SYBCA Sem -III	BCA 301 Mathematics and Statistics for Managers	knowledge of Mathematics and statistics for managerial activities among students.
		Understand the concept of Sets, Martices.
		Introduction to Statistics and Mathematical and Statistical Calculations using MS-EXCEL
	BCA 302 Management Information System	Understand the objective and role of MIS in Business Organization
		Be familiar with concept of MIS in organization
		Understand concept and types of system
		To know about system development life cycle
		To know about information and its type
		Understand multimedia approach to information processing
	BCA-303 Java Programming	Get knowledge Java programming Tools
		Understand the concept Data types ,Variables,Casting
		Understand the knowledge of object oriented programming like Inheritance, Polymorphism
		Understand the concept of Multithreading, Exception Handling.
		Understand the concept of Applet
	BCA 304 Linux Operating System	Understand History and Development of Linux
		Understand the system access and user accounts login and logout
		Know about the file permission and navigation, archiving the file
		Understand redirection, Programming using C
		Know about X-Windows
	BCA -305 Practical On Java	Program for object & Class ,Method overloading,Overriding
		Understand the packages and interface.
		Create programs using Exception.
		Create programs using AWT Controls.
	BCA 306 Practical on Linux	On completion of the course, students are able to develop commands using Linux operating system to meet real world needs. Also, able to do the programming in C on Linux Platform. This course provides platform to enhance student's basic skills required for advanced programming
	BCA 307 Practical on Tally ERP	On completion of the course practically train students in Accounting using Tally ERP
SYBCA Sem -IV	BCA 401 Introduction to Information System Audit	Overview of information system auditing I and II
		Know about conducting information system audit
		Understand information system audit management and ISA Professionalism
		Introduction to business continuity Planning
	BCA-402 RDBMS	Understand the Concept of Models (Relational Model, Network Model, Hierarchical Model, and Entity Relationship Model.)
		Understand the concept of keys -Super, Candidate, Primary, Foreign Key
		Knowledge of Normalization.
		create and manipulate databases
		Understand the concept Functions in Oracle,Subquires ,Joins
	BCA 403 C#.NET	Know about .Net Framework
		Understand the C# Basic and Program Structure
		Understand the Object oriented Programming in C#
		Learn the exception handling and its types
		Know about the GUI and GUI components
		Understand the ADO and Crystal Report
	BCA 404 Data Structure	Understand concept of data structure and its types
		To know the array and representation of array in memory
		Familiar with different sorting techniques
		Understand the stack concept and its operation
		Understand concept of queue and different queue operation
		To know the concept of tree and graph and its representation in memory
	BCA 405 Practical on C#.NET	On completion of the course, students are able to develop commands using C# programmig to meet real world needs. Also, able to do the GUI programming in C# on .Net Framework platform. This course provides platform to enhance student's basic skills required for advanced programming
	BCA-406 Practical on RDBMS using Oracle	On completion of the course, students are able to develop Relational Database Management System using features and services provided by Structured Query Language (SQL) using Oracle.
	BCA 407 Practical on Data Structure using CPP	On the completion of the course student able to implement different data structures and it application using C++.
TYBCA Sem V	BCA51 Entrepreneurship Development	Understand the concept of entrepreneurship.
		know the qualities of entrepreneur
		identify the new business opportunities.
		know the Entrepreneurship Development Programme
		Understand the entrepreneurship development theories and factors affecting.
		recognize women entrepreneurship.
		describe the types of entrepreneur.
	BCA52 Soft Skills	Know about basic human skills and types of human skills

	Development	
		Understand the power of positive thinking
		Learn different interview techniques and purpose of interview
		Know about group discussion and decision making tools
		Oral Communication Skills, Presentation Skills and Seminar
		Understand process of report writing
	BCA-53 Linux Operating System	Understand the features of Linux operating system
		Understand the components of Linux
		Understand the basic Linux commands, and printing Linux documents
	BCA-54 Internet Programming with ASP.NET	Know about ASP .NET and Difference between ASP and ASP .Net
		Understand the object Control and State Management
		Know about with ADO .net
		Understand Master Pages
		Understand Security Configuration
	BCA-55 Practical on Soft Skills Development	Students are trained to use the soft skills efficiently by, preparing motivational speech , Time management activities, Role plays, Group discussion, Memorizing activities, Team building activities Stress management activities etc.
	BCA-56 Practical On ASP.NET & Linux O.S	developing web pages using ASP.NET, creating a simple web form
		Use Data Bound controls, use of Master Pages. Use of Grid View Data Control.
		ASP.NET objects (HTTPApplicationState, HTTPSessionState)
	BCA-57 Field Work	Understand the social issues in the society by carrying out a real life social project using research methodology
TYBCA Sem-VI	BCA61 Introduction to ERP and SAP	Provide hands-on experience for students by embedding SAP software and resources to enhance their learning of ERP and CRM concepts, an integral part of global business.
		Build relevant ERP, CRM and SAP skills for students to create competitive hiring advantage.
		Aware the students about Current scenario for ERP in market and The current version of ERP
	BCA62 System Analysis And Design	Know about concept of System- Types and Model
		Understand role and need of system analyst
		Understand System Development Cycle and SDLC Model
		Know about Data and fact gathering techniques
		Understand System flowcharts and data flow diagrams
		Know about Testing and types of testing
		Understand User interface and graphical interface design
	BCA-63 PHP	knowledge of basic PHP object oriented programming concepts
		knowledge of PHP scripting
		knowledge of database connectivity with PHP
	BCA64 Introduction to Information System Audit	To impart the knowledge and importance of Information System and Audit among students for Quality Management.
	BCA-65 Practical on PHP	On completion of the course, students are able to develop single & multidimensional arrays, sorting, global variables.
		Creation of MySql database from command prompt.
		Accessing MySql data from PHP script.
	BCA66 Practical on CASE Tool with MS VISIO	Students are trained in Computer Aided Software Engineering (CASE) Tools by creating Data Flow Diagram(DFD), Entity Relationship Diagram(ERD) and UML Class Diagram for different systems
	BCA67 Project	To prepare students to use applications of the theory and practical learned during the course.

Department of History Out Come

FYBA	(His-Dsc-A1) History of India (1857-1950)	:- i) The students Understood Various Perspectives of the Indian freedom movement. ii) To create awareness among the students as responsible citizens of the country. iii) The students can do rational thinking
SYBA	(Dsc-His-231 History of the Maratha-as A.D. 1605-A.D. 1750)	i) The students got interest in Regional History. ii) The students were ready for the Research work of the Maratha History. iii) The students can participate in competitive Exams.
	(Dse-His-232) History of United	:- i) The students understood the

	states of America (AD 1776-AD 1945)	Human Rights Movement in America. ii) The Students got Knowledge of the foreign policy of America. iii) The Students understood the Role of America in World Politics.
	(DSE- His-233) History of Ancient India BC 3000- BC 600	:- i) The Students understood the political socio, Economic and cultural development. ii) The students understood the social, Economic, Religious and Institutional based of Ancient India
	SEC- His- 234 Research Methodology in History	i) The students were understood adequate conceptual base of research. ii) The students should able to draw a plan for research. iii) The students were understood the various level of interdisciplinary approach.
TYBA	(G3) History of Modern World 1789-1900	i) The students understood world History. ii) The Students understood Research. iii) The students got awareness about competitive Exam.
	His (S3) 352 A travel and Tourism	:- i) The students were understood socio, economical and cultural heritage and history of India. ii) The students were understood about tours and excursion and Report writing.
	His (S4)- History of sultanat (1206-1526)	:- i) Awareness and Interest about socio, Economical and cultural Heritage of Sultanant Period was inculcated. ii) Awarness of sultanat period was created.

Dept of Political Science

FYBA	G.I :- Indian Constitution	The students has understand dynamics within political process action power system in India and across the country.
SYBA	S I :- Reading Gandhi	i) The students has understand about Idies of Ethics, Values, Humanity, Faith, truth and satyagraha ii) The students has understand the theory of Gandhi and Gandhism.
	S II :- Government and Politics of America.	i) The students has knowledge about American government and his constitutioned fraimwork. ii) The students can compative

		study of Government and Politics of America and China.
	G II :- Introduction to Administration of Maharashtra.	i) The students had learn about how our state administration is going on. ii) The students should develop the qualities of administrator
	SEC :- Introduction of Research Methoding in political Science,	i) The students has the basic Idea of Main concept and methodology of Research. ii) The graduate students can handal the research work in dependently of political science
TYBA	G III :- Personal Administration and Management	i) The students has understand the concept of personal Administration and Management. ii) The students should discuss the administration Accountaleility
	S III :- Western Political Thought.	i) The students had understand about western political thought ii) The students know of western political thoughts impact on medem political process
	S- IV :- Modern political Analysis	i) The students has understand the main concept of modern political Analysis ii) The students should develop View about modern political analysis.

Course Outcome

B.Com

B.Com		<ol style="list-style-type: none"> 1. This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., well trained professionals to meet the requirements. 2. After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company. 3. Capability of the students to make decisions at personal & professional level will increase after completion of this course.
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		<ol style="list-style-type: none"> 4. Students can independently start up their own Business. 5. Students can get thorough knowledge of finance and commerce. 6. The knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.
Mcom		<p>By the end of the course the students will be better able to –</p> <ol style="list-style-type: none"> 1. get the insight of the philosophy and framework of financial analysis. 2. know the important inter-linkages among the items in the financial statements 3. get equipped with the tools used in analysis, interpretation, and evaluation of performance, profitability and efficiency of the business entities 4. make an in-depth analysis of the financial performance and financial position of business entities, and get hands-on experience in financial analysis 5. equip themselves with the ability to apply their skills and knowledge effectively in future while dealing with real life business situation. 6. pursue their career in the arena of accounting information system
BBA		<ol style="list-style-type: none"> 1. To get an understanding of working of business organization 2. To familiarize students with the basic management concept and process. 3. To make students abreast with various concepts, terms, jargons, and process of recording financial transactions and have practical knowledge of preparing accounts. 4. To impart practical knowledge and applicability of theoretical concepts relating to office automation.

		<ol style="list-style-type: none"> 5. To understand human behavior, motivation and leadership. 6. To make students proficient in professional communication. 7. To familiarize students with business law and corporate laws and importance of corporate governance. 8. To imbibe research through field survey. <p>To gain practical knowledge of industries by giving visits to industries.</p>
BMS (E-Com)		<ol style="list-style-type: none"> 1. To foster principles of management. 2. To familiarize students with the fundamentals of accounting and costing. 3. To make students abreast with business ethics and professional values. 4. To impart theoretical as well as practical knowledge of computers and its various programs like Java, C++, HTML, web designing. 5. To understand human behavior, motivation and leadership. <p>To make students proficient in various aspects of management – human resources, marketing, ERP.</p>