RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S ARTS, COMMERCE AND SCIENCE COLLEGE, LANDEWADI, BHOSARI – 39

Program Outcome BBA (CA)

Academic Year-2021-22

1. To understand fundamental concept of computer, business environment and IT application in business.
2. Successfully understand and analyses techniques data to reach actionable conclusions including technological solutions to the business.
3. Learn new technologies and IT languages so the business problems could be addresses.
4. Improve communication and business management skills in commerce, finance and accounting and IT application in business content.
5. To identify and sharpen their IT or programming skills.

PO1	Apply knowledge of computing fundamentals, mathematics and domain knowledge Appropriate for the conceptualization of computing models.
PO2	Identify, analyze, formulate, Design and develop the real world requirements by critical Thinking for complex problems in IT enabled services. (Critical Thinking & problem Solving approach)
PO3	Recognize the need and adopt appropriate tools and techniques for modern computing Practices. (Usage of modern tools)
PO4	Make use of ethical practices and cyber regulations in the computing field for Managing software projects in diverse environments. (Ethics & Management)
PO5	Understand the societal, environmental and moral values and its impact with respect to Computing, communication, literary and professional practice.(social responsibility)
PO6	Communicate effectively with society at large, such as, being able to comprehend and Write effective reports, design documentation and make effective presentations.(communication & team work)
PO7	Recognize the need for, and have the preparation and ability to engage

	in independent and life-long learning in the broadest context of technological change (Life long learning)

Programme Objectives

1	To Provide sound academic base from which an advanced career in Computer Application can be developed.
2	To conceptualize grounding in computer usage and its practical business application will be provided.
4	To provide deep & update knowledge of computers to the students.
5	To groom Computer Professionals who can be directly employed.
6	To make the students competent to pursue higher studies.

Program Specific Outcome

In view of growing demand of IT professionals in the area of computer application, a course like BBA(CA) is need of the hour, where student can apply computer science principles to solve problems produced by the interface between business and technology.

In the modern professional world, the BBA (CA) programme has become an important preparatory level graduate course after completing Class 12, especially in the context of the IT industry. With the exponential growth in the IT sector in our country, and with the entry and FDI of various multi-national companies, it is reasonable to expect that the IT industry will require a large number of competent professionals in coming years, more so at the entry level. It is in this context that BBA (CA) assumes a significant role.

All the necessary foundation courses required for this is offered at BBA(CA) level starting from Mathematics which strengthens the background achieved at the 10+2 level, Programming languages & Data Structures which hones the logical thinking & problem solving capabilities, various application software to give understanding & knowledge of the tools used in IT industry and even hard core theory papers like Digital Logic.

What after BBA (CA)?

- After successful completion of this 3-year BBA(CA) course, students are getting placed in good organizations however a number of students also opt for higher education. Obvious choice after BBA(CA) is opting for PostGraduation (MCA/MBA)
- Joining as Management Trainee/Executive Trainee in any following sector:
  - IT Companies
  - Consultancy
  - KPO
  - Banking and many more……

Career Opportunities for BBA(CA) Grads

Software Career

- Software Industry is in continuous search for Technically strong students
- Industry offers varied career options for such students like :
  - Technical Specialist
  - Software Analyst
  - 3D Animation / Graphic Designer
  - Database Expert
  - Software Engineering
  - Hardwar Expert

- Networking Analyst
- Programmer / Software Developer
- Quality Assurance
- System Analyst
- Software Tester

Department of BBA (CA)
Course Outcome
(FYBBA-(CA) (SEM-I)
Business Communication Skills(101)

Course Objectives:

1. To understand system and communication and their utility
2. To develop proficiency in how to write business letters and other communications.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Concept of Communication	To understand what is the role of communication in personal and business world
CO2	Methods and types of Communication	To understand system and communication and their utility
CO3	Business Correspondence	To develop proficiency in how to write business letters and other communications in required.

Principles of Management(102)

Course Objectives:

1.To understand basic concept regarding organization business administration

2.To examine how various management principles.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Nature of management	To learn basic aspects of management thinking Develop ability of managerial thinking
CO2	Evolution of management thought	To understand different approaches of management scientist to management though.
CO3	Recent trends in management	To understand the themes in modern management & changes in the business

C Programming(103)

Course Objectives:

1.To understand algorithmic thinking and apply it to creating C programs.

2.To understand decision making and looping statement

3.To write user defined function for effective programming.

4.To understand and manipulate arrays.

5.To understand the concepts of passing arrays to functions and pointers.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Introduction	To Explore algorithmic and flowchart approaches to problem solving.
CO2	Managing I/O Operations	To Familiar with Fundamentals
CO3	Decision Making and looping	Developing Conditional and Iterative statement
CO4	Functions	Understanding a concept of functional: Modular concept.
CO5	Introduction to pointer	Ability to work with Pointerin c
CO6	Structures	To learn User define datatype: structure, union

DBMS (DATABASE MANAGEMENT SYSTEMS (104)

Course Objectives: 1) This course provides an introduction to the relational model. We will cover basic relational database design, conceptual data modeling practices, some relational database management system , operation and fundamental Structured Query Language (SQL)

2. Enables students to understand relational database concepts and Normalization concepts in database system.

3. Enables student to write SQL Simple Queries and Nested Queries that use DDL and DML command.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	File Structure and Organization	To understand the file structure and its organization
CO2	Database Management System	Students get the knowledge of Relational Database concepts which is the basic requirements of every organization.
CO3	Relational Model	Give a description of the Database Management structure.
CO4	SQL (Structured Query	Students are able to Compare relational model with the Structured Query Language (SQL)

	Language)	
CO5	Relational Database Design	Students are able to Normalize the complex data into simple tables

Statistics(CA -105)

Course Objectives:

1. To understand role and importance of statistics in various business situations

2. To develop skills related with basic statistical technique

3. Develop right understanding regarding regression, correlation and data interpretation

	COURSE UNIT DESCRIPTION	**OUTCOME**
CO1	Concept of statistics.	• Explains the history, definition and scope of Statistics . • Differentiates population and sample
CO2	Measures of central tendency and dispersion	• Recognizes central tendency and various measures of central tendency • Explains and evaluates various measures of central tendency.

Principles of Programming and Algorithm 107

Course Objectives:

1 .To use modular programming approach in diversified problem domains.

2. To use programming logic for solving real world problems.

	COURSE UNIT DESCRIPTION	**OUTCOME**
CO1	Unit 1: Algorithms	• Will understand importance of algorithm, program development cycle, how programs are been developed sequentially with help of algorithm
CO2	Unit 2: Flowchart	• Student will be able to show .detail designing of algorithm and flow of programs with the help of flowchart

F. Y. BBA(CA)

Semester II

Organizational Behavior & HumanResource Management (OB & HRM) 201

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Introduction to OB	Students should be able to understand the basic concept of OB
CO2	Introduction to HRM	After completion of this unit students should be able to get basic knowledge of HRM practices carried out in today's scenario.

Subject: Financial Accounting (202)

Course Objectives:

1.To develop right understanding regarding role and importance of monetary and financial transactions in business.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Financial Accounting-definition and Scope, objectives, Accounting concepts, principles and conventions	• understand role and importance of accounting in Business and how accounting concept can be implemented in business • Computation ability in business ability to distinguished between various accounting concepts and practices
CO2	Voucher system; Accounting Process, Journals, Ledger, Cash Book , subsidiary books ,Trial Balance preparation of Final Accounts of Sole Proprietorship(Trading and Profit & Loss Account and Balance Sheet	• To understand how to record different financial transactions and their financial implications • Ability to write different accounting tractions and prepare basic financial tractions

Business Mathematics (203)

Course Objectives:

• To develop appropriate understanding as how to use mathematic like computation interest, profit.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Ratio, Proportional and Percentage	To apply the various concepts in business situation
CO2	Profit and loss	To examine concept of discounts in different business solutions.
CO3	Matrix and Determinant	To perform the matrix operations
CO4	Transportation Problem	To understand the mathematical tools that are needed to solve optimization problems.

RDBMS (RELATIONAL DATABASE MANAGEMENT SYSTEMS) (204)

Course Objectives:

1) This course provides an introduction to the relational model. We will cover basic relational database design, conceptual data modeling practices, some relational database management system, operation and fundamental Structured Query Language (SQL)

2. Enables students to understand relational database concepts and Normalization concepts in database system.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Introduction To RDBMS	• Understanding of various RDBMS products • Use of relational database • To get knowledge of Front End and Backend • Helps student to learn different types of data models
CO2	Overview of PLSQL	To understand variousdata types , operators functions and control statements • Students get the knowledge of Relational Database concepts which is the basic requirements of every organization.

Web Technology(HTML- JS-CSS) (205)

Course Objectives:

i) To know & understand concepts of internet programming.

ii) ii) To understand how to develop web based applications using JavaScript.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Introduction	Learn client and server, HTTP, FTP, IP protocols, WWW, Response and Request mechanism.
CO2	Web Design	Details how to design a website its look and feel, its planning etc.
CO3	HTML	All html tags
CO4	Style Sheets	CSS in detail with its implementation for creating website.
CO5	JavaScript	Understand how to develop web based applications.

S. Y. BBA(CA)

Semester III

Course:Digital Marketing (301)

Course Objectives:

1) The aim of this syllabus is to give knowledge about using digital marketing in and as business.

2) To make SWOT analysis, SEO optimization and use of various digital marketing tools

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	E-Commerce	1) Helps the students to get to Know about Ecommerce Concept 2) Understanding what is Internet Marketing
CO2	Creating Initial Digital Marketing Plan	1) Students get the knowledge of Various Keys supports of SWOT analysis: Strengths, Weaknesses, Opportunities
CO3	Marketing using Web Sites	Explained how MS Expression Web works and what are various uses

Course: Data Structure(302)

Objectives:

1. To understand the concepts of ADTs

2. To learn linear data structures – lists, stacks, and queues

3. To understand sorting, searching and hashing algorithms

4. To apply Tree and Graph structures

	COURSE UNIT DESCRIPTION	**OUTCOME**
CO1	Unit 1: Basic Concept and Introduction to Data Structure	To understand need and types of data structure. Ability to analyze algorithms and algorithm correctness.
CO2	Linear Data Structure	To understand and implement different searching and sorting techniques
CO3	Linked List	To learn linear data structure linked list and solution for specific problems.
CO4	Stack	To learn linear data structure stack and solution for specific problems.
CO5	Queue	To learn linear data structure queue and solution for specific problems
CO6	Trees	To learn Non-linear data structure trees and solution for specific problems.
CO7	Graph	To learn Non-linear data structure graph and solution for specific problems

Course: Software Engineering (303)

Course Objectives:

1. To Understand System Concepts.

2. To Understand Software Engineering Concepts.

	COURSE UNIT DESCRIPTION	**OUTCOME**
CO1	Introduction to System Concepts	Basic knowledge and understanding of the analysis and design of complex systems.

CO2	Introduction to Software Engineering	• Understand the need of software , types of Software and the main use of Software Engineering
CO3	Analysis and Design Tool	Understood Designing and implement data flow analysis, Decision tress, Structure chart and diagram and data dictionary

Course: PHP Course code-304

Course Objectives:

1. Understand how server-side programming works on the web.
2. Using PHP built-in functions and creating custom functions
3. Understanding POST and GET in form submission.

	COURSE UNIT DESCRIPTION	**OUTCOME**
CO1	PHP Basics	Introduction to develop dynamic web pages by using server side scripting language PHP
CO2	Control Structures and Loops	Understood Control Structures and Loops
CO3	Functions, Objects and Errors	Learn different functions & string built in functions and class concept in php

Course: Big Data (CA - 305)

Course Objectives

1. To enable learners to develop expert knowledge and analytical skills in current and developing areas of analysis statistics, and machine learning

	COURSE UNIT DESCRIPTION	**OUTCOME**
CO1	INTRODUCTION TO BIG DATA	To know about application area of big data.
CO2	INTRODUCTION TO DATA	Understood data analytics details and statistical model

	SCIENCE	
CO3	INTRODUCTION TO MACHINE LEARNING	Understood basics of machine learning

S. Y. BBA(CA)

Semester IV

Course: Networking (CA-401)

Objectives:

1. To prepare students with basic networking concepts: data communication, protocol and standards, various topologies and applications of network.
2. To know about computer network.
3. To understand different topologies used in networking

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Introduction to Computer Network	Students can get job as a Network Administrator in any organization.
CO2	Network Models	Able to explain various terminologies and concepts related to Network Models
CO3	Transmission Media	Understand the concept of reliable and unreliable transfer protocol of data and how TCP and UDP
CO4	Wired and Wireless LANs	Understand connecting LAN's, backbone networks, and virtual LAN's.
CO5	Network Devices	Familiarity with the basic protocols of computer networks

Course: Object Oriented Programming Using C++ (402)

Course Objectives:

1. To acquire an understanding of basic object-oriented concepts and the issues involved ineffective class design.
2. To understand the concept of data abstraction and encapsulation

	COURSE UNIT DESCRIPTION	OUTCOME

CO1	Introduction to C++	concept and application of OOP
CO2	Classes and Objects	Understanding concept of classes and objects.
CO3	Constructor and Destructor	To know about constructor and destructor
CO4	Inheritance	Understand how to apply inheritance to implement programs in C++.
CO5	Polymorphism	To know different types of polymorphism

Subject: Operating System(CA-403)

Course Objectives:

1. Issues related to memory management and various related algorithms.
2. To understand design issues related to File management and various related algorithms.
3. To know the services provided by Operating System.

	COURSE UNIT DESCRIPTION	**OUTCOME**
CO1	Introduction to Operating System	Explain the fundamental components of a computer operating system.
CO2	System Structure	Study structure of operating system
CO3	Process Management	Define, restate, discuss, and explain the policies for scheduling.
CO4	Deadlock	To Define, restate, discuss, and explain the concept of deadlocks in real life.
CO5	Memory Management	Calculate efficiency of different memory management

Class:TYBBA(CA)

Semester:V

Course: Java Programming

Course Objectives:-

- To learn the basic concept of Java Programming.

- To understand how to use programming in day to day applications.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Introduction to Java	To understand the basic fundamentals and important terminologies of java.
CO2	Classes and Objects	To understand how to create classes and objects
CO3	Collection	Get detailed knowledge of collection, map, Iterator etc
CO4	Applet, AWT and Swing Programming	To understand how to create small internet applications using applet and know how to create GUI in java using AWT and Swing.

Course : Web Technology(502)

Course Objectives:

1. To know & understand concepts of internet programming.
2. To understand how to develop web based applications using PHP.

Course :Object Oriented Software Engineering

Course Objectives :

1 To understand the concept of system design using UML.

2 To understand system development through object oriented technique.

	COURSE UNIT DESCRIPTION	OUTCOME
CO1	Object Oriented Concepts , Modeling and UML	Students should be aware about the OO concepts and Overview of UML.
CO2	Basic and Advanced Structural modeling	Students should be aware about the Structural diagrams of UML
CO3	Object Oriented Analysis	Students should be able to know Iterative type of SDLC
CO4	Object Oriented Design	Student should be able to know various type of Designing Methods.

TYBBA(CA)

SEMISTER VI

Course: Advanced Java

Course Objectives:

1 To know the concepts of java programming.

2. To understand how to use programming in day to day application.

	COURSE UNIT DESCRIPTION	**OUTCOME**
CO1	JDBC	To understand database connectivity with MS access and SQL server.
CO2	Networking	To understand client server technology.
CO3	JSP	To understand creation of dynamic web pages
CO4	Servlet	To understand creation of dynamic web pages through server.

Course : Recent Trends in IT

Course Objectives :

1. To introduce upcoming trends in Information technology.

2. To study Eco friendly software development.

	COURSE UNIT DESCRIPTION	**OUTCOME**
CO1	Software Process And Project Metrics, Analysis Concepts And Principles	To study Eco friendly software development.
CO2	Data Warehouse	To learn architecture of Data Warehouse
CO3	Network Security	To understand data security and its importance
CO4	Computing and Informatics	To learn concept of cloud computing.

Course: Software Testing

Course Objectives:-

1. To know the concept of software testing.

2. To understand how to test bugs in software.

3. To develop programming logic.

	COURSE UNIT	**OUTCOME**

	DESCRIPTION	
CO1	Software Testing	Fundamentals of testing
CO2	Testing for Specialized Environments	Able to test on GUI's and all real time systems
CO3	Software Testing Strategies &Software metrics	Types of testing in details
CO4	Specialized Testing & Testing	able to do testing with Tools.

HOD