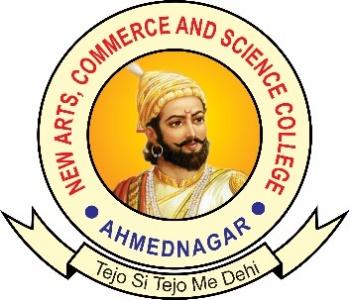
**Ahmednagar Jilha Maratha Vidya Prasarak Samaj’s**

**New Arts, Commerce, and Science College**

**Ahmednagar (Autonomous)**

**(Affiliated to Savitribai Phule Pune University, Pune)**



**National Education Policy (NEP)**

**Choice Based Credit System (CBCS)**

**Programme Framework**

**B.B.A.(Computer Application)**

**B.B.A.(C.A.)**

**Implemented from**

**Academic Year 2024-25**

Ahmednagar Jilha Maratha Vidya Prasarak Samaj’s

**New Arts, Commerce and Science College, Ahmednagar**

**(Autonomous)**

**Board of Studies in B.B.A.(C.A.)**

| Sr. No. | Name | Designation |
| --- | --- | --- |
|  | Mrs. Nimbalkar Sangita Sham | Chairman |
|  | Mr. Talule Sonyabapu Sakharam | Member |
|  | Mr. Gobare Manohar B. | Member |
|  | Miss. Danave Bharati M. | Member |
|  | Mr. Pachpande Suhas D. | Academic Council Nominee |
|  | Dr. Patil Chandrashekhar Himmatrao | Academic Council Nominee |
|  | Prof. (Mrs.) Siddavatam A. Shakilabanu | Vice-Chancellor Nominee |
|  | Mrs. Mohite-Patil Amruta Rahul | Alumni |
|  | Mr. Dawbhat Arun Rangnath | Industry Expert |
|  | Mrs. Suroshi M.S. | Member |
|  | Mr. Bade R.K. | Member |
|  | Mr. Supekar K.A. | Member |

1. **Introduction of the programme:**

With the rapid growth of IT industry in India, the demand of computer professional is increasing day by day. This increasing growth of IT industry has created a lot of opportunities for the computer graduates.

B.B.A.(C.A.) program is a full time three years degree program with six semesters. It is based on Choice-based credit system containing 176 credit points.

B.B.A.(C.A.) program helps interested students in setting up a sound academic base for an advanced career in Computer Applications.The main goal of a B.B.A.(C.A.) degree is to provide students with the knowledge and abilities necessary for professions in the software sector, as well as with the application of computers.

B.B.A.(C.A.) program is a combination of computer and applied courses from Commerce and management streams. This course includes database management systems, operating systems, software engineering, web technology and languages such as C, C++, HTML, Java etc. It is a highly popular course amongst students aspiring to establish a career in established IT companies

This course provides a lot of opportunities to arts, commerce and science stream students who are interested in computer field and wants to work in the IT sector as programmer or software developer. This Degree will help students to become an IT professional and to be place in the network support and system support/ administration roles. Student can either work in the corporate sector in an administration.

The Course is planned and structured to provide you with a dynamically engaging atmosphere in which you can develop into highly qualified IT professionals. The curriculum has been intended to provide students with a thorough understanding of numerous areas linked to information technology as well as basic management concepts. This course offers the prequalification for professionals heading for smart career in the IT field, which measures up to international standards.

As a computer programmer, you can find different types of software, including databases and web software. In general, it pays well along with diverse career prospects. In addition to this, the career market is still growing, so you can work in IT outsourcing in various parts of the world.

2**. Programme Outcomes (POs)**

Students enrolled in the program complete a curriculum that exposes and trains students in a full range of essential skills and abilities. They will have the opportunity to master the following objectives.

1. Imparts advanced knowledge on a wide range of computer applications so that the students pursuing this course can easily face any kind of challenges and opportunities related to the IT industry.
2. An ability to identify, formulate, and develop solutions to computer application challenges.
3. An ability to function effectively on teams to accomplish shared computing design, evaluation, or implementation goals.
4. An understanding of professional, ethical, legal, security, and social issues and responsibilities for the computing profession.
5. An ability to communicate and engage effectively with diverse stakeholders.
6. An ability to analyze impacts of computing on individuals, organizations, and society.
7. Recognition of the need for and ability to engage in continuing professional development.
8. An ability to use appropriate techniques, skills, and tools necessary for industry ready resources.
9. Inculcate spirit of entrepreneurship.
10. To encourage innovation and the pursuit of perfection in computer applications.

**B.B.A.(C.A.) Programme Framework: Credit Distribution**

| **Level /**  **Difficulty** | **Sem** | **Subject-1 (Selected as Major)** | | | | **Subject-2** | **Subject-3** | **GE/OE** | **SEC** | **IKS** | **AEC** | **VEC** | **CC** | **Total** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Certificate**  **4.5 / 100** | **I** | **04** | | | | **04** | **04** | **2** | **-** | **2** | **2** | **2** | **2** | **22** |
| **II** | **04** | | | | **04** | **04** | **2** | **2** | **--** | **2** | **2** | **2** | **22** |
|  |  | **Credits Related to Subject Selected as Major** | | | | **Selected as Minor** |  | **GE/OE** | **SEC** | **IKS** | **AEC** | **VEC** | **CC** | **Total** |
|  | **Major Core** | **Major Elective** | **VSC** | **FP / OJT/ CEP/RP** |
| **Diploma**  **5.0 / 200** | **III** | **06** | **--** | **2** | **2 (FP)** | **04** | **--** | **02** | **2** |  | **2** | **--** | **2** | **22** |
| **IV** | **06** | **--** | **2** | **2 (CEP)** | **04** | **--** | **02** | **2** | **--** | **2** | **--** | **2** | **22** |
| **Degree**  **5.5 /300** | **V** | **08** | **04** | **2** | **2 (FP)** | **02** | **--** | **--** | **--** | **2** | **--** | **--** | **--** | **22** |
| **VI** | **08** | **04** | **2** | **4 (OJT)** | **02** | **--** | **--** | **--** |  | **--** | **--** | **--** | **22** |
| **Total** |  | **40** | **08** | **08** | **10** | **18** | **08** | **08** | **06** | **04** | **08** | **04** | **08** | **132** |
| **6.0/400**  **Honours** | **VII** | **14** | **04** | **-** | **RM-04** | **-** |  |  |  |  |  |  |  | **22** |
| **VIII** | **14** | **04** | **-** | **OJT-04** | **-** |  |  |  |  |  |  |  | **22** |
| **6.0/400**  **Honours with Research** | **VII** | **10** | **04** | **-** | **RM-04 )**  **RP-04** | **-** |  |  |  |  |  |  |  | **22** |
|  | **VIII** | **10** | **04** | **-** | **RP-08** |  |  |  |  |  |  |  |  | **22** |
| **Total** |  | **68/60** | **16** | **08** | **18/26** | **18** | **08** | **08** | **06** | **04** | **08** | **04** | **08** | **176** |

**B.B.A.(C.A.) Programme Framework: Course Distribution**

| **Level /**  **Difficulty** | **Sem** | **Subject-1** | | | | **Subject-2** | **GE/OE** | **SEC** | **IKS** | **AEC** | **VEC** | **CC** | **Total** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Certificate**  **4.5 / 100** | **I** | **01** | | | | **01** | **01** | **-** | **01** | **01** | **01** | **01** | **07** |
| **II** | **01** | | | | **01** | **01** | **01** | **--** | **01** | **01** | **01** | **07** |
|  |  | **Credits Related to Subject Selected as Major** | | | | **Minor** | **GE/OE** | **SEC** | **IKS** | **AEC** | **VEC** | **CC** | **Total** |
| **Core** | **Elective** | **VSC** | **FP / OJT/ CEP** |
| **Diploma**  **5.0 / 200** | **III** | **02** |  | **01** | **01** | **01** | **01** |  |  | **01** | **--** | **01** | **08** |
| **IV** | **02** |  | **01** | **01** | **01** | **01** |  |  | **01** | **--** | **01** | **08** |
| **Degree**  **5.5 /300** | **V** | **03** | **01** | **01** | **01** | **01** | **--** | **--** | **01** | **--** | **--** | **--** | **08** |
| **VI** | **03** | **01** | **01** | **01** | **01** | **--** | **--** |  | **--** | **--** | **--** | **07** |
| **Total** |  | **12** | **02** | **04** | **04** | **06** | **04** | **02** | **02** | **04** | **02** | **04** | **44** |
| **6.0/400**  **Honours** | **VII** | **04** | **01** | **-** | **RM-01** |  |  |  |  |  |  |  | **06** |
| **VIII** | **04** | **01** | **-** | **OJT-01** | **-** |  |  |  |  |  |  | **06** |
| **6.0/400**  **Honours with Research** | **VIII** | **03** | **01** | **-** | **RM-01**  **RP-01** | **-** |  |  |  |  |  |  | **06** |
| **VIII** | **03** | **01** | **-** | **RP-01** |  |  |  |  |  |  |  | **05** |
| **Total** |  | **18/16** | **04** | **04** | **06/07** | **06** | **04** | **02** | **02** | **04** | **02** | **04** | **56/55** |

**B.B.A.(C.A.): Credits and Courses in Bracket**

| **Level /**  **Difficulty** | **Sem** | **Subject (Marathi)** | | | | **IKS** | **Total** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **4.5**  **Certificate** | **I** | **04 (01)** | | | |  | **04 (01)** |
| **II** | **04 (01)** | | | | **--** | **04 (01)** |
|  | **Core** | **Elective** | **VSC** | **FP / OJT/ CEP** |  |  |
| **5.0**  **Diploma** | **III** | **06 (02)** |  | **02 (01)** | **02 (01)** |  | **10 (04)** |
| **IV** | **06 (02)** |  | **02 (01)** | **02 (01)** |  | **10 (04)** |
| **5.5**  **Degree** | **V** | **10 (03)** | **04 (01)** | **02 (01)** | **02 (01)** | **02 (01)** |  |
| **VI** | **10 (03)** | **04 (01)** | **02 (01)** | **04 (01)** |  |  |
| **Total** |  | **40 (12)** | **08 (02)** | **08 (04)** | **10 (04)** | **02 (01)** |  |
| **6.0**  **Honours** | **VII** | **14(04)** | **04 (01)** | **-** | **RM-04** | **-** | **22 (06)** |
| **VIII** | **14(04)** | **04 (01)** | **-** | **OJT-04** | **-** | **22 (06)** |
| **6.0**  **Honours with Research** | **VII** | **10 (03)** | **04 (01)** | **-** | **RM-04 (01)**  **RP-04 (01)** | **-** | **22 (06)** |
| **VIII** | **10 (03)** | **04 (01)** | **-** | **RP-08 (01)** |  | **22 (05)** |

**Programme Framework (Courses and Credits): B.B.A.(C.A.)**

| Sr. No. | Year | Semester | Level | Course Type | Course Code | Title | Credits |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | I | I | 4.5 | DSC-01 | BBA-CA111T | 1. C Programming 2. Principles of Management | 02  04 |
|  | I | I | 4.5 | DSC-02 | BBA-CA112P | Practical (C Programming) | 02 |
|  | I | II | 4.5 | DSC-03 | BBA-CA121T | 1. Web Designing 2. Business Accounting | 02  04 |
|  | I | II | 4.5 | DSC-04 | BBA-CA122P | Practical(Web Designing) | 02 |
|  | II | III | 5.0 | DSC-05 | BBA-CA231T | Data Structure | 02 |
|  | II | III | 5.0 | DSC-06 | BBA-CA232P | Practical(Data Structure) | 01 |
|  | II | III | 5.0 | DSC-07 | BBA-CA233T | Database Management System | 02 |
|  | II | III | 5.0 | DSC-08 | BBA-CA234P | Practical(DBMS) | 01 |
|  | II | III | 5.0 | VSC-01 | BBA-CA235T | PHP | 01 |
|  | II | III | 5.0 | VSC-02 | BBA-CA236P | Practical(PHP) | 01 |
|  | II | III | 5.0 | FP-01 | BBA-CA237P | Software Engineering (Project) | 02 |
|  | II | IV | 5.0 | DSC-09 | BBA-CA241T | Advanced Web Technology | 02 |
|  | II | IV | 5.0 | DSC-10 | BBA-CA242P | Practical(AWT) | 01 |
|  | II | IV | 5.0 | DSC-11 | BBA-CA243T | Object Oriented Programming using C++ | 02 |
|  | II | IV | 5.0 | DSC-12 | BBA-CA244P | Practical(C++) | 01 |
|  | II | IV | 5.0 | VSC-03 | BBA-CA245T | Relational Database Management System | 01 |
|  | II | IV | 5.0 | VSC-04 | BBA-CA246P | Practical(RDBMS) | 01 |
|  | II | IV | 5.0 | FP-02 | BBA-CA247P | OOSE | 02 |
|  | III | V | 5.5 | DSC-13 | BBA-CA351T | Python Programming | 02 |
|  | III | V | 5.5 | DSC-14 | BBA-CA352P | Practical(Python) | 02 |
|  | III | V | 5.5 | DSC-15 | BBA-CA353T | Java Programming | 02 |
|  | III | V | 5.5 | DSC-15 | BBA-CA354P | Practical (Java ) | 02 |
|  | III | V | 5.5 | DSC-16 | BBA-CA355T | Networking | 02 |
|  | III | V | 5.5 | DSE-01 | BBA-CA356T | Block Chain/ No SQL | 01 |
|  | III | V | 5.5 | DSE-02 | BBA-CA357P | Practical( BC/ No SQL) | 01 |
|  | III | V | 5.5 | VSC-03 | BBA-CA358T | Operating System | 02 |
|  | III | V | 5.5 | FP-02 | BBA-CA359P | Software Project | 02 |
|  | III | V | 5.5 | IKS-02 | BBA-IKS-02 | IKS | 02 |
|  | III | VI | 5.5 | DSC-17 | BBA-CA361T | Advanced JAVA | 02 |
|  | III | VI | 5.5 | DSC-18 | BBA-CA362P | Practical(A. JAVA) | 02 |
|  | III | VI | 5.5 | DSC-19 | BBA-CA363T | Big Data | 02 |
|  | III | VI | 5.5 | DSC-20 | BBA-CA364P | Practical( Big Data) | 02 |
|  | III | VI | 5.5 | DSC-21 | BBA-CA365T | Software Testing | 02 |
|  | III | VI | 5.5 | DSE-03 | BBA-CA366T | Dot Net/ Android | 02 |
|  | III | VI | 5.5 | DSE-04 | BBA-CA367P | Practical(.Net/Android) | 02 |
|  | III | VI | 5.5 | VSC-04 | BBA-CA368T | Cyber Security | 02 |
|  | III | VI | 5.5 | OJT-01 | BBA-CA369P | SoftwareProject | 04 |

**Ahmednagar Jilha Maratha Vidya Prasarak Samaj’s**

**New Arts, Commerce and Science College, Ahmednagar**

**(Autonomous)**

**Syllabus**

**B.B.A.(C.A.)**

| Title of the Course: C Programming | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year: I | | | | Semester: I | | | | | |
| Course  Type | **Course Code** | **Credit Distribution** | | | **Credits** | **Allotted Hours** | Allotted Marks | | |
| **Theory** | **Practical** | |
| **CIE** | **ESE** | Total |
| DSC-01 | **BBA-CA111T-A** | **02** | **00** | | **02** | **30** | **15** | **35** | 50 |

**Learning Objectives:**

The course is designed to provide complete knowledge of C language. Students will be able to develop logics which will help them to create programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.

In this course, students will learn about:

* Programming basics and the fundamentals of C
* Data types in C
* Mathematical and logical operations
* Using if statement and loops
* Arranging data in arrays
* Implementing pointers
* File management and dynamic memory allocation

**Course Outcomes (Cos):**

After completing this course, you will be able to:

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

**Detailed Syllabus:**

**Unit I:** **Introduction to C language**   **(2)**

1.1 History and Features of C

1.2 Basic structure of C Programming

1.3 Language fundamentals

1.3.1 Character set, tokens

1.3.2 Keywords and identifiers

1.3.3 Constants ,Variables and data types

1.4. Types of operators : Arithmetic , Unary , Relational and Logical and Conditional Operator.

1.4.1 The Increment and Decrement Operators,

1.4.2 Precedence and associativity

1.4.3 Expression.

1.4.4 Flowchart and Algorithm

**Unit II: I/O Functions and operations** **(3)**

2.1 Console based I/O and related built-in I/O functions

2.1.1 printf(), scanf()

2.1.2 getch(), getchar()

2.1.3 Format specifiers and Backslash character

2.2 Formatted input and formatted output

2.3 Program execution phases- A Simple C Program.

**Unit III: Decision Making and looping (5)**

3.1 Introduction

3.2 Decision making structure

3.2.1 If statement

3.2.2 If-else statement

3.2.3 Nested if-else statement

3.2.4 Conditional operator

3.2.5 Switch statement

3.3 Loop control structures

3.3.1 while loop

3.3.2 Do-while loop

3.3.3 For loop

3.3.4 Nested for loop

3.4 Jump statements

3.4.1 break

3.4.2 continue

3.4.3 go to

3.4.4 exit

**Unit IV: Arrays and Strings (5)**

4.1 Introduction to one-dimensional Array

4.1.1 Definition

4.1.2 Declaration

4.1.3 Initialization

4.2 Accessing and displaying array elements

4.3 Finding smallest and largest number from array

4.4 Reversing array

4.5 Finding odd/even/prime number from array

4.6. Introduction to two-dimensional Array

4.6.1 Definition

4.6.2 Declaration

4.6.3 Initialization

4.6.4 Accessing and displaying array elements

4.6.5 Matrices: Addition, Multiplication, Transpose, Symmetry, upper/lower triangular 4.7 Introductions to Strings

4.7.1 Definition

4.7.2 Declaration

4.7.3 Initialization

4.8 Standard library functions

4.9 Implementations without standard library functions.

**Unit V: Structures and union (05)**

5.1 Introduction to structure

5.1.1 Definition

5.1.2 Declaration

5.1.3 Accessing members

5.2 structure operations

5.3 nested structure

5.4 Introduction to union

5.4.1 Definition

5.4.2 Declaration

5.5 Differentiate between structure and union

**Unit VI: Functions (05)**

6.1 Introduction

6.1.1 Purpose of function

6.1.2 Function definition

6.1.3 Function declaration

6.1.4 Function call

6.2 Types of functions

6.3 Call by value and call by reference

6.4 Storage classes

6.8 Function Programs

**Unit VII: Introduction to pointer (05)**

7.1 Definition

7.2 Declaration

7.3 Initialization

7.4 Indirection operator and address of operator

7.5 Pointer arithmetic

7.6 Dynamic memory allocation

7.7 Functions and pointers Programs.

**Suggested Readings:**

1) Let us C –Yashwant Kanetkar, BPB publication.

2) Programming in C - Balguruswamy, Tata McGraw-Hill publication.

3) Pointers in C - Yashwant Kanetkar, BPB publication.

4) C programming by Dr.Vishal Lichade dreamtech press.

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**New Arts, Commerce and Science College, Ahmednagar**

**(Autonomous)**

**Syllabus**

**B.B.A.(C.A.)**

| Title of the Course: Practical – C Prigramming | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year: I | | | | Semester: II | | | | | |
| Course  Type | **Course Code** | **Credit Distribution** | | | **Credits** | **Allotted Hours** | Allotted Marks | | |
| **Theory** | **Practical** | |
| **CIE** | **ESE** | Total |
| DSC-02 | **BBA-CA121P** | **00** | **02** | | **02** | **30** | **15** | **35** | 50 |

| Sr. | ASSIGNMENT |
| --- | --- |
| 1 | First C Program, Compile and Run Program, Demonstration of Arithmetic Operator, Finding Maximum between Two and Three Numbers, Display Quotient, Remainder, Illustration of Increment and Decrement operators, Use of Operators, |
| 2 | Input / output functions, Accept input using Keyboard and Display output |
| 3 | Programs of Control Structure i.e. if else, if else if, if else ladder, etc. |
| 4 | Programs of Switch statements. |
| 5 | Progrmas of Loop Structure i.e. while, do while, for, etc. |
| 6 | Programs of Nested Loop, Pattern Programs. |
| 7 | Programs of 1D Array, accept n elements of 1D array and then display sum, program to find maximum and minimum elements of 1D array, program to calculate sum of all odd elements of 1-D array, sorting array, display union, intersection, etc. |
| 8 | Programs of 2D array, Matrix programs, sum, addition, multiplication, transpose, |
| 9 | String Programs, operations i.e. strlen, strcmp, strcpy, strcat, and string operations programs. |
| 10 | Programs of various functions like factorial, perfect number, prime number, sum of digit, etc. reverse number, palindrome number, armstring number, etc. |
| 11 | Programs of various functions like reverse number, palindrome number, armstring number, etc. |
| 12 | Programs of pointers, program to display the elements of an array containing n integers in the reverse order using a pointer to the array, Pass the addresses of the counters to the function, dynamic memory allocation, etc. |
| 13 | Programs of structure, create structure and functions based on structure. |

| Title of the Course: WEB Technology | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year: I | | | | Semester: II | | | | | |
| Course  Type | **Course Code** | **Credit Distribution** | | | **Credits** | **Allotted Hours** | Allotted Marks | | |
| **Theory** | **Practical** | |
| **CIE** | **ESE** | Total |
| DSC-01 | **BBA-CA121T** | **02** | **00** | | **02** | **30** | **15** | **35** | 50 |

**Learning Objectives:**

This course is intended to teach the basics involved in publishing content on the World Wide Web. This includes the ‘language of the Web’ – HTML, the fundamentals of how the Internet and the Web function, a basic understanding of graphic production with a specific stress on creating graphics for the Web, and a general grounding introduction to more advanced topics such as programming and scripting. This will also expose students to the basic tools and applications used in Web publishing.

**Course Outcomes (Cos)**

The student will be able to:

• Analyze a web page and identify its elements and attributes.

• Create web pages using XHTML and Cascading Style Sheets.

• Build dynamic web pages using JavaScript (Client side programming).

• Create XML documents and Schemas.

• Build interactive web applications using AJAX

**Detailed Syllabus: Example**

**1 1. Introduction (05)**

1.1 Clients- Servers and Communication

1.2 Internet-Basic, Internet Protocols (HTTP, FTP, IP)

1.3 World Wide Web(WWW)

1.4 HTTP request message, HTTP response message

1.5. Concepts of effective web design

1.6. Look and Feel of the Website

1.7 User centric design

**3. HTML (10)**

3.1 Introduction to HTML

3.2 Basic HTML Structure

3.3 Common HTML Tags

3.4 Physical and Logical HTML

3.5 Types of Images, client side and server-side Image mapping

3.6 List, Table, Frames

3.7 Embedding Audio, Video

3.8 HTML form and form elements

3.9 Introduction to HTML Front Page

**4. Style sheets (05)**

4.1 Need for CSS

4.2 Introduction to CSS

4.3 Basic syntax and structure

4.4 Using CSS-

4.4.1 background images, colors and properties,

4.4.2 manipulating texts, using fonts, borders and

boxes, margins, padding lists, positioning

using CSS

4.5 Overview and features of CSS2 and CSS3

**5. Intro to JavaScript (07)**

5.1 Introduction to Javascript

5.2 Identifier & operator, control structure, functions

5.3 Document object model(DOM),

5.4 DOM Objects (window, navigator, history, location)

**6. JS Function And Array (03)**

6.1 Predefined functions, math & string functions

6.2 Array in Java scripts

6.3 Event handling in Javascript

6.4 Different framework in JS.

**Suggested Readings:**

1. Business Mathematics by Dr. AmarnathDikshit and Dr. Jinendrakumar Jain.
2. Business Mathematics by V. K. Kapoor – Sultan, Chand and sons. Delhi.
3. Business Mathematics by Bari – New Literature publishing company, Mumbai.
4. Operation Research by S. D. Sharma - Sultan, Chand and sons.
5. Operation Research by J. K. Sharma - Sultan, Chand and sons

| Title of the Course: Prcatical (WEB Technology) | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year: I | | | | Semester: II | | | | | |
| Course  Type | **Course Code** | **Credit Distribution** | | | **Credits** | **Allotted Hours** | Allotted Marks | | |
| **Theory** | **Practical** | |
| **CIE** | **ESE** | Total |
| DSC-01 | **BBA-CA121P** | **00** | **02** | | **02** | **30** | **15** | **35** | 50 |

**WEEK-1**

1. Print Simple “Hi” using HTML.
2. Print “Hello world” to make it bold.
3. Print “Hello world” and make it italic.
4. Print ‘Jay Maharashtra’ word and make it underline.
5. List kings of India on separate lines give horizontal lines after each king.
6. Write an essay on ‘Chhatrapati Shivaji Maharaj’ using paragraph, bold, italic, underline, break row tags.
7. Make a list of top 5 cricketers in India print all their names in different sizes using H1 to H6.
8. Make a list of 5 programming languages and link them to their official website using hyper reference and anchor tags.
9. Take image of good Vithal and show it on HTML page also give details bellow image
10. Make a complete web page orange with bg property

**WEEK 2**

1. Change font of text
2. Change text color.
3. Write a mathematical formula in the html page.
4. Change the font size of any word.
5. Make the news of India win the match with pakistan and virat kohli scores 150. In html
6. Link image to website. Take image of lord Vithal and link it to official website of pandharpur devasthan
7. Make a table to show your subject and marks of 12th
8. Merge row in table.
9. Merge column in table.
10. Make a list of all Indian cricketers there score in one match in table.
11. Html form assignment for simple label
12. Html form assignment for simple text box
13. Html form assignment for radio button
14. Html form assignment for simple drop down
15. Html form assignment for button
16. Html form assignment for simple contact form
17. Html form assignment for college admission form in html
18. Html form assignment for event registration
19. Make a complete web page using html for flower shop
20. Make a complete web page for information of chatrapati shivaji maharaj

**WEEK 3**

1. Use inline CSS change font size
2. Use inline CSS change font color
3. Use inline CSS change font family
4. Use inline CSS change background color
5. Use inline CSS set border
6. Use internal CSS change font size
7. Use internal CSS change font color
8. Use internal CSS change font family
9. Use internal CSS change background color
10. Use internal CSS set border
11. Use external CSS change font size
12. Use external CSS change font color
13. Use external CSS change font family
14. Use external CSS change background color
15. Use external CSS set border

**WEEK 4**

1. Use bg border and color property in single program
2. Use all property of CSS in internal CSS single program
3. Use all property of CSS in External CSS single program
4. Using CSS and HTML design a website of our our college make 4 web pages
5. Using CSS and HTML design a website of our our BBA(CA) make 4 web pages

**WEEK 5**

1. JavaScript Program To Print Hello World
2. JavaScript Program to Add Two Numbers
3. JavaScript Program to Find the Square Root
4. JavaScript Program to Calculate the Area of a Triangle
5. JavaScript Program to Swap Two Variables
6. Javascript Program to Solve Quadratic Equation
7. JavaScript Program to Convert Kilometers to Miles

**WEEK 6**

1. Javascript Program to Convert Celsius to Fahrenheit
2. Javascript Program to Generate a Random Number
3. Javascript Program to Check if a number is Positive, Negative, or Zero
4. Javascript Program to Check if a Number is Odd or Even
5. JavaScript Program to Find the Largest Among Three Numbers
6. JavaScript Program to Check Prime Number
7. JavaScript Program to Print All Prime Numbers in an Interval

**WEEK 7**

1. JavaScript Program to Find the Factorial of a Number
2. JavaScript Program to Display the Multiplication Table
3. JavaScript Program to Print the Fibonacci Sequence
4. JavaScript Program to Check Armstrong Number
5. JavaScript Program to Find Armstrong Number in an Interval
6. JavaScript Program to Make a Simple Calculator
7. JavaScript Program to Find the Sum of Natural Numbers

**WEEK 8**

1. JavaScript Program to Check if the Numbers Have Same Last Digit
2. JavaScript Program to Find HCF or GCD
3. JavaScript Program to Find LCM
4. JavaScript Program to Find the Factors of a Number
5. JavaScript Program to Find Sum of Natural Numbers
6. JavaScript Program to Guess a Random Number
7. JavaScript Program to Display Fibonacci Sequence

**WEEK 9**

1. JavaScript Program to Find Factorial of Number
2. JavaScript Program to Convert Decimal to Binary
3. JavaScript Program to Find ASCII Value of Character
4. JavaScript Program to Check Whether a String is Palindrome or Not
5. JavaScript Program to Sort Words in Alphabetical Order
6. JavaScript Program to Replace Characters of a String
7. JavaScript Program to Reverse a String

**WEEK 10**

1. JavaScript Program to Check the Number of Occurrences of a Character in the String
2. JavaScript Program to Convert the First Letter of a String into UpperCase
3. JavaScript Program to Count the Number of Vowels in a String
4. JavaScript Program to Check Whether a String Starts and Ends With Certain Characters
5. [t](https://www.programiz.com/javascript/examples/add-key-object)JavaScript Program to Replace All Occurrences of a String
6. JavaScript Program to Create Multiline Strings

**WEEK 11**

1. JavaScript Program to Format Numbers as Currency Strings
2. JavaScript Program to Generate Random String
3. JavaScript Program to Check if a String Starts With Another String
4. JavaScript Program to Trim a String
5. JavaScript Program to Convert Objects to Strings
6. JavaScript Program to Check Whether a String Contains a Substring
7. JavaScript Program to Perform Case Insensitive String Comparison

**WEEK 12**

1. JavaScript Program to Replace all Instances of a Character in a String
2. JavaScript Program to Display Date and Time
3. JavaScript Program to Check Leap Year
4. JavaScript Program to Format the Date
5. Javascript Program to Display Current Date
6. JavaScript Program to Compare The Value of Two Dates
7. JavaScript Program to Create Countdown Timer

**WEEK 13**

1. JavaScript Program to Remove Specific Item From an Array
2. JavaScript Program to Check if An Array Contains a Specified Value
3. JavaScript Program to Insert Item in an Array
4. JavaScript Program to Append an Object to An Array
5. JavaScript Program to Check if An Object is An Array
6. JavaScript Program to Empty an Array
7. JavaScript Program to Add Element to Start of an Array

**WEEK 14**

1. JavaScript Program to Remove Duplicates From Array
2. JavaScript Program to Merge Two Arrays and Remove Duplicate Items
3. JavaScript Program to Sort Array of Objects by Property Values
4. JavaScript Program to Create Two Dimensional Array
5. JavaScript Program to Extract Given Property Values from Objects as Array
6. JavaScript Program to Compare Elements of Two Arrays

**WEEK 15**

1. JavaScript Program to Get Random Item From an Array
2. JavaScript Program To Perform Intersection Between Two Arrays
3. JavaScript Program to Set a Default Parameter Value For a Function
4. JavaScript Program to Illustrate Different Set Operations
5. Javascript Program to Generate a Random Number Between Two Numbers

**Ahmednagar Jilha Maratha Vidya Prasarak Samaj’s**

**New Arts, Commerce and Science College, Ahmednagar**

**(Autonomous)**

**Syllabus**

**B.B.A.(C.A.)**

| Title of the Course: Principles of Management | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year: I | | | | Semester: I | | | | | |
| Course  Type | **Course Code** | **Credit Distribution** | | | **Credits** | **Allotted Hours** | Allotted Marks | | |
| **Theory** | **Practical** | |
| **CIE** | **ESE** | Total |
| DSC-01 | **BBA-CA111T-B** | **04** | **00** | | **04** | **60** | **30** | **70** | 100 |

# Learning Objectives :

1. To understand various management principles.

2. To develop managerial skills.

3. To develop managerial thinking and cultivate business acumen.

4. To understand philosophy of management thinking.

5. To identify new systems and trends in modern management.

# Course Outcomes (Cos) :

1. Recognize the management is an Art, Science, Profession and a Social System

2. Express themselves effectively in routine and special real business interactions and principles of management

3. Demonstrate appropriate use of administration, management.

4. Take part in professional meetings and decision making

5. Apprise the pros and cons of major managerial functions

6. Create and deliver effectiveness of quality management

# Detailed Syllabus:

**Unit No. I: Introduction to Management (15)**

1.1 Meaning ad Overview – Meaning and Definition

**1.2** Nature and Scope of Management

1.3 Levels of Management

1.4 Roles and Qualities of Managers

1.5 Approaches to Management-

1. Scientific Approach – Contribution of F. W. Taylor

2. Administration Approach – Contribution of Henry Fayol

3. Modern Approach – Contribution of Peter Drucker - MBO

# Unit No. II: Planning and Organising (15)

1.1 Meaning and Definition of Planning, Objectives, Nature and Scopes, Types

1.2 Steps in the Planning Process

1.3 Meaning and Definition of Organising, Organisation Structure and Design,

1.4 Types of Organizational Structure, Centralization and Decentralization

# Unit No. III: Staffing, Directing, Leadership and Motivation (15)

3.1 Staffing – Meaning and Definition, Methods of the Recruitment, Recruitment Process

3.2 Directing- Meaning, Definition, Scope of Directing, Importance of Directing

3.3 Leading – Nature and Significance of Leadership, Leadership Styles.

3.4 Motivation – Concepts of Motivation- Meaning and Definition

3.5 Types of Motivation – Extrinsic, and Intrinsic Motivation

3.6 Theories of Motivation – Maslow’s Theory, Two Factor Theory, Herberg’s Theory

# Unit No. IV: Co-ordination and Control (15)

4.1 Co-Ordination – Meaning, and Definition of Co-Ordination

4.2 Importance of Co-ordination

4.3 Controlling – Meaning and Definition of Controlling

4.4 Nature and Scope of Controlling

4.5 Process of Controlling

**Suggested Readings:**

| **Sr.No.** | **Title of the Book** | **Author/s** | **Publication** | **Place** |
| --- | --- | --- | --- | --- |
| 1 | Management Concepts and Strategies | J.S. Chandan | Vikas Publishing House Pvt.  Ltd. | New Delhi |

| 2 | Principles of Management | H. Koontz ,  H.Weihrich , A.  Ramachandra Arysri | McGraw hill companies | New Delhi |
| --- | --- | --- | --- | --- |
| 3 | Management – 2008 Edition | Robert Kreitner , Mamata Mohapatra | Biztantra –  Management For Flat World | New Delhi |
| 4 | Introduction to  Management | John R. Schermerhorn | Wiley India Pvt.  Ltd. | New Delhi |
| 5 | Principles of Management | P.C. Tripathi , P.N. reddy | McGraw hill companies | New Delhi |
| 6 | Management Text and Cases | R. SatyaRaju, A. Parthasarthy | PHI learning Pvt. Ltd | New Delhi |
| 7 | Management (Multi- Dimensional Approach  ) | H. R. Appannaiah , G. Dinakar, H.A. Bhaskara | Himalaya  Publishing House | Mumbai |
| 8 | Principles of Management | Dr. Mangesh P. Waghmare | Nirhali Prakashan | Pune |
|  | **E- Resource**  [https://ndl.iitkgp.ac.in](https://ndl.iitkgp.ac.in/)  <https://2012books.lardbucket.org/pdfs/management-principles-v1.0.pdf>  <https://drive.google.com/drive/folders/1tb_wXGeLNpNnvBhxTyrvPdAPGrX46Un_> | | | |

**Ahmednagar Jilha Maratha Vidya Prasarak Samaj’s**

**New Arts, Commerce and Science College, Ahmednagar**

**(Autonomous)**

**Syllabus**

**B.B.A.(C.A.)**

| Title of the Course: Business Accounting | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year: I | | | | Semester: I | | | | | |
| Course  Type | **Course Code** | **Credit Distribution** | | | **Credits** | **Allotted Hours** | Allotted Marks | | |
| **Theory** | **Practical** | |
| **CIE** | **ESE** | Total |
| DSC-01 | **BBA-CA121T-B** | **04** | **00** | | **04** | **60** | **30** | **70** | 100 |

# Learning Objectives (Cos) :

1. To understand various accounting concepts and practices.

2. To cultivate right approach towards classifications of different transactions and their implications

3. To understand and record different financial transactions and their financial

implication, and able to write different accounting transactions and prepare basic financial transactions.

4. To understand accounting relationship between customer and bank.

5. To understand and use software like tally for writing of accounts.

# Course Outcome: - (Cos)

1. Remembering the basic concepts related to accounting

2. Determine the key elements of business transactions and complete

3. Analyze the situation and decide the key elements of bank reconciliation statements

4. Design and Operate the entire accounting process (from entry to Balance - Sheet) for any given transaction

# Detailed Syllabus :

**Unit No. I: Financial Accounting- (15)**

1.1 Definition, Scope, objectives

1.2 Accounting concepts, principles and conventions.

1.3 Classification of accounts

# Unit No. II: Accounting Transactions and Final Accounts (15)

2.1 Problems on Journals, Cash Book, Trial Balance

2.2 Preparation of Final Accounts of Sole Proprietorship

(Trading and Profit & Loss Account and Balance Sheet)

# Unit No. III: Software used in Accounting (15)

3.1 Types of Accounting software

3.2 Use of Accounting software

3.3 Installation of accounting software

3.4 Advantages and disadvantages of accounting software

# Unit No. IV : Introduction to Goods and Services Tax Laws and Accounting (15)

4.1 Constitutional background of GST, Concepts and definition of GST

4.2 IGST, CGST, and SGST

4.3 Input and Output Tax Credit, Procedure for registration under GST

**Suggested Readings :**

| **Sr.**  **No.** | **Title of the Book** | **Author/s** | **Publication** | **Place** |
| --- | --- | --- | --- | --- |
| 1 | Advance Accounting Vou- I | S.N.  Maheshwari & S.K.  Maheshwari | Vikas  Publication | New Delhi |
| 2 | Advance Accounting Vou- I | M.C. Shukla , T.C.  Grewal , S.C Gupta | S. Chand | New Delhi |
| 3 | Accountancy (Vol- I) | S. Kr. Paul | Central  Educational  Enterprises (P). Ltd. | Kolkata |
| 4 | Accounting  (Text and Cases) | Robert N. Anthony , David F. Hawkins ,  K. A. Merchant | McGraw Hill Companies | New Delhi |

| 5 | Advanced Accountancy (Volume – I) | R.L. Gupta , M. Radhaswamy | Sultan Chand & Sons | New Delhi |
| --- | --- | --- | --- | --- |
|  | E- Resources :  1.<https://pdf.co/accounting-basics-tutorial> 2.<http://www.principlesofaccounting.com/>  3. <http://misscpa.com/> 4.<http://simplestudies.com/>  4. <https://www.coursera.org/course/accounting>  5. <http://www.accountingcoach.com/>  6. <https://youtu.be/xWKfKCnQqAE>  7. <https://youtu.be/Z71rEnjW-Z4> 8. [https://ndl.iitkgp.ac.in](https://ndl.iitkgp.ac.in/) | | | |