



Shri Wagheshwar Gramvikas Pratishtan's

Shri Vasantrao Pharate-Patil Arts, Commerce and Science College

Mandavgan Pharata Tal: Shirur, Dist: Pune, Pincode: 412211.

Affiliated to Savitribai Phule Pune University, Pune (ID No PU/PN/AC/392/2009)

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Bachelor of Business Administration (Computer Application)

B.B.A. (Computer Application)

Program Outcome (PO):

- Develop industry-ready human resources.
- To bring the spirit of entrepreneurship.
- To impart practical skills among students.
- Acquire practical skills and hands-on experience on emerging technologies like Java, Web designing, Android, Python, IOT, PHP and Data Science.
- Acquiring knowledge in basic management skills and business applications.
- Develop a sound academic base for an advanced career in Computer Applications.

Program Specific Outcome (PSO):

- Ability to correlate theory and practical knowledge in applications.
- Become employable in various public and private sectors.
- Blend analytical, logical, and managerial skills with technical aspects to resolve real world issues.

Course Outcome(Cos):

Class	Course Code	Syllabus Revised	Course Title	Course Outcomes
FYBBA(C.A.)	CA-101	2019(CBCS)	Business Communication	▪ Ability to acquire basics of communication skills. ▪ Understand the importance of communication and soft skills in IT. ▪ Ability to improve proficiency in business letter writing and overall business ethics.
FYBBA(C.A.)	CA-102	2019(CBCS)	Principles of Management	• Gain knowledge on organizational business administration skills. ▪ Understand knowledge of various management principles. ▪ Gain proficiency in team work and team building. ▪ Develop managerial skills among the students.
FYBBA(C.A.)	CA-103	2019(CBCS)	C Language	▪ Ability to improve logical thinking through practical knowledge of C Programming. ▪ Able to develop logic for writing programs using Control Structures, Arrays, and Functions. ▪ Able to develop small real-life applications using C.
FYBBA(C.A.)	CA-104	2019(CBCS)	Database Management	▪ Ability to obtain the basic knowledge of

			System	Database Management Systems. ▪ Able to gain knowledge of creation, manipulation and querying of data in databases. ▪ Able to normalize the database design. ▪ Able to develop an E-R model based on user requirements.
FYBBA(C.A.)	CA-105	2019(CBCS)	Statistics	▪ Acquire knowledge of the role and importance of statistics in various business situations. ▪ Gain knowledge related to basic statistical techniques. ▪ Develop the right understanding regarding regression, correlation and data interpretation.
FYBBA(C.A.)	CA-106	2019(CBCS)	Computer Laboratory based on CA-103 and CA-104	▪ Ability to develop and implement computer programs using C Language. ▪ Able to create and manipulate databases using SQL. • Understand how to write, debug and execute simple programs in C.
FYBBA(C.A.)	107	2019(CBCS)	Principles of Programming and Algorithm (ADD ON)	▪ Improve the ability of students in analytical and logical thinking. ▪ Students will be able to apply a systematic way of solving a specific problem using tools such as algorithms and flowcharts.

				▪ Explore algorithmic approaches to problem-solving.
FYBBA(C.A.)	CA-201	2019(CBCS)	Organization Behavior and Human Resource Management	▪ Ability to develop strategies for organizational change and development. ▪ Able to make aware students of traditional & modern methods of procurement & development in the organization. ▪ Able to explore the major trends in HRM & OB.
FYBBA(C.A.)	CA-202	2019(CBCS)	Financial Accounting	▪ Ability to develop skills for basic accounting. ▪ The course will impart knowledge on transaction management and record-keeping. ▪ Cultivate the right approach towards classifications of different transactions and their implications. ▪ Develop proficiency in the preparation of basic financial and accounting statements.
FYBBA(C.A.)	CA-203	2019(CBCS)	Business Mathematics	▪ Ability to analyze and interpret mathematical results. ▪ To understand the role and importance of Mathematics in various business situations and while developing software.

FYBBA(C.A.)	CA-204	2019(CBCS)	Relational Database	▪ Able to acquire a good formal foundation on the relational model of data and usage of Relational Databases. ▪ Able to use advanced database Programming concepts ▪ Enables the student to write PL/SQL programs that use procedure, function, package, cursor and trigger.
FYBBA(C.A.)	CA-205	2019(CBCS)	Web Technology HTML-JavaScript- CSS	▪ Ability to design more attractive Web pages using CSS. ▪ Ability to develop interactive websites using JavaScript. ▪ Understand how to develop web-based applications using JavaScript.
FYBBA(C.A.)	CA-206	2019(CBCS)	Computer Laboratory Based on 204 and 205	▪ Able to manage relational databases using SQL. ▪ Ability to write simple and nested queries using SQL. ▪ Ability to write PL/SQL programs that use procedure, function, package, cursor, and trigger. ▪ Ability to design web pages using HTML, CSS and Javascript
FYBBA(C.A.)	207	2019(CBCS)	Advance C (ADD ON)	▪ Develop modular programs using Functions, structures and pointers. ▪ Ability to develop mini projects using C. ▪ Able to use advanced

				concepts of C for writing C programs.
SYBBA(C.A.)	CA-301	2019(CBCS)	Digital Marketing	▪ Familiarity with working of E-Commerce and understand B-B, C-B, C-C relationship. ▪ Able to understand the basics of SEO (Search Engine Optimization) and better understanding between Digital and Real Marketing. ▪ Understanding of Digital Marketing types and gaining practical knowledge of its usage through the Internet, Social Media and Mobile, Email. ▪ Designing effective content for digital marketing using various Digital Marketing tools. ▪ Developing an effective marketing strategy using CRM.
SYBBA(C.A.)	CA-302	2019(CBCS)	Data Structure	▪ Able to understand the concepts of ADTs. ▪ Develop skills in the implementation and application of different types of data structures. ▪ To understand basic algorithms related to sorting, searching and hashing. ▪ To understand the concept of different memory allocation techniques. ▪ Apply algorithm and data structure in various real-life software problems.
SYBBA(C.A.)	CA-303	2019(CBCS)	Software	▪ Able to understand

			Engineering	concepts of Systems and their types. ▪ Able to understand software engineering concepts and their applications. ▪ Develop the ability to gain knowledge of the SDLC process. ▪ Ability to understand the concept of Re-Engineering and Reverse Engineering. ▪ Knowledge of different types of software development models such as waterfall, spiral, and prototyping. ▪ Understand the concept of testing and its types.
SYBBA(C.A.)	CA-304	2019(CBCS)	PHP	▪ Ability to develop interactive data-driven dynamic websites. ▪ Understand how server-side programming works on the web. ▪ To understand Session and Cookie concept. ▪ To implement database connectivity.
SYBBA(C.A.)	CA-304	2019(CBCS)	Angular JS	▪ Empower students to create a web application that depends on Client-Side MVC & SPA. ▪ To study the use of various AngularJS Components. ▪ Ability to understand the concepts of Javascript and its implementation. ▪ Create and bind controllers with Javascript and apply the filter in the Angular JS application.

SYBBA(C.A.)	CA-305	2019(CBCS)	Big Data	▪ Able to understand the basic techniques such as R programming that form the foundations of Big Data. ▪ Ability to acquire knowledge in specialized aspects of big data including big data applications and big data analytics. ▪ To understand the building blocks of Big Data and specialized aspects of big data with the help of different big data applications. ▪ Explore the area of specialization in Data Science and be able to represent the analytical aspects of Big Data. ▪ Able to summarize data using exploratory data analysis and visualization using graphs.
SYBBA(C.A.)	CA-305	2019(CBCS)	Block chain	▪ Understand what and why of Block chain. ▪ Explore the major components of Blockchain. ▪ Learn about Bitcoin, Cryptocurrency and Ethereum. ▪ Deploy and exercise example smart contracts. ▪ Identify a use case for a Blockchain application. ▪ Create your Blockchain network application.
SYBBA(C.A.)	CA-306	2019(CBCS)	Computer Laboratory Based on 302 , 304 and 305	• To assess the knowledge of student in Data Structure, Angular JS and R programming • To acquire knowledge

				on writing computer programs using concept of Data Structure , Angular JS and R programming • To create and manage Applications using Data Structure , Angular JS and R programming
SYBBA(C.A.)	307	2019(CBCS)	Environment Awareness	• Identify and recognize the knowledge, values, attitudes, commitment and skills needed to protect and improve the environment. • Discuss current scenario of environment. • Develop consciousness towards a cleaner and better managed environment. • Analyze various local environment aspects.
SYBBA(C.A.)	CA-401	2019(CBCS)	Networking	▪ Obtain knowledge about Computer Network concepts. ▪ Gain Knowledge about working of networking models, addresses, transmission media and Connectivity devices. ▪ To acquire information about network security and cryptography.
SYBBA(C.A.)	CA-402	2019(CBCS)	Object-Oriented Concepts through CPP	▪ Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design. ▪ Develop programming skills using C++ features. ▪ Able to use various object-oriented concepts used to solve real-life problems. ▪ Implement different concepts of file handling

				and exception handling.
SYBBA(C.A.)	CA-403	2019(CBCS)	Operating System	▪ Understand fundamental operating system abstraction such as process, semaphore, threads etc. ▪ To know the services provided by Operating System. ▪ Analyze process scheduling, CPU Scheduling, and memory management algorithms. ▪ To understand design issues related to file management and various related algorithms.
SYBBA(C.A.)	CA-404	2019(CBCS)	Node - JS	▪ Understand the JavaScript and technical concepts behind Node JS. ▪ Structure a Node application in modules. ▪ Understand and use the Event Emitter, Buffers, Streams and Pipes. ▪ Build a Web Server in Node and understand how it works. ▪ Ability to understand how to connect with SQL or Mongo database in Node.
SYBBA(C.A.)	CA-404	2019(CBCS)	Advance PHP	▪ To know & understand concepts of internet programming. ▪ Understand how server-side programming works on the web. ▪ Able to understand how to use PHP Frameworks like (Joomla / Drupal)
				▪ Undertake problem

SYBBA(C.A.)	CA-405	2019(CBCS)	Project	identification, formulation and solution. ▪ Understand project characteristics and various stages of project development. ▪ Design solutions to complex problems. ▪ Gain a sound technical knowledge of selected project development platforms. ▪ Develop and enhance coding skills.
SYBBA(C.A.)	CA-406	2019(CBCS)	Computer Laboratory Based on 402,404	• Create programs using C++ features like operator overloading, • Apply the concepts of constructor and destructor, inheritance, polymorphism and exception handling. • Relate the concepts of internet programming. • Create websites using PHP
SYBBA(C.A.)	CA-407	2019(CBCS)	Jquery (ADD ON)	▪ To get hands-on experience on JavaScript and jQuery. ▪ Gain knowledge on how to work with binding events in JavaScript. ▪ To learn how to download the jQuery library refer to the Html page. ▪ To learn selecting, traversing the Html elements by name, attribute name, id, or by content. ▪ To learn how to provide effects to the elements or sections in the Html page. ▪ To learn manipulating elements by adding CSS classes dynamically.

TYBBA(C.A.)	CA-501	2019(CBCS)	Cyber Security	▪ Have a good understanding of Cyber Security and the Tools. ▪ To acquire basic information on Cyber Security and Cybercrime. ▪ Have a good understanding of Cyber laws. ▪ To develop Cyber forensics awareness. ▪ Identify attacks, security policies and credit card frauds in the mobile and Wireless Computing Era. ▪ Identify attacks, security policies and credit card frauds in the mobile and Wireless Computing Era.
TYBBA(C.A.)	CA-502	2019(CBCS)	Object-Oriented Software Engineering	▪ Able to give Design Specifications for Project. ▪ Acquire Knowledge in Basic Modeling. ▪ Ability to acquire Project Management Skills. ▪ Able to understand the fundamentals of object modeling ▪ Design different UML diagrams. ▪ Improve the software design with design patterns. ▪ To test the software against its requirements specification.
TYBBA(C.A.)	CA-503	2019(CBCS)	Core Java	▪ Able to solve real-world problems using OOP techniques. ▪ Able to solve problems using java collection framework and I/O classes

				▪ Develop applets for web applications. ▪ Design GUI-based applications. ▪ Ability to understand the use of file concepts.
TYBBA(C.A.)	CA-504	2019(CBCS)	Mongo DB	▪ Ability to work with MongoDB shell and MongoDB tools. ▪ Able to do Schema design, Data modeling, and all sorts of CRUD Operations. ▪ Able to apply various techniques to optimize query performance. ▪ Analyze the data stored in MongoDB.
TYBBA(C.A.)	CA-504	2019(CBCS)	Python	▪ Understand the need and importance of Python language. ▪ Able to learn how to design and implement Python applications. ▪ Design and implement a program to solve a real-world problem ▪ Design and implement GUI application ▪ Gain knowledge of handling the concepts of exceptions and files.
TYBBA(C.A.)	505	2019(CBCS)	(DSE) Project	▪ Undertake problem identification, formulation and solution. ▪ Understand project characteristics and various stages of project development. ▪ Design solutions to complex problems.

				▪ Gain a sound technical knowledge of selected project development platforms. ▪ Develop and enhance coding skills.
TYBBA(C.A.)	506	2019(CBCS)	Computer Laboratories Based on (503 and 504)	▪ Define and demonstrate the use of GUI Programming concepts. ▪ Design and implement a program to solve a real-world problem. ▪ Design and implement classes and methods. ▪ Implementation of exception handling using packages. ▪ Define and demonstrate web-based applet applications.
TYBBA(C.A.)	CA-507	2019(CBCS)	Internet of Things (IoT) ADD ON	▪ To explain key technologies, smart objects, IoT Architecture, and security in the Internet of Things. ▪ To illustrate the role of IoT protocols for efficient network communication. ▪ To understand IoT platforms such as Arduino Uno.
TYBBA(C.A.)	CA-601	2019(CBCS)	Recent Trends in IT	▪ Able to understand basic concepts of AI. ▪ To apply basic, intermediate and advanced techniques to mine the data. ▪ To provide an overview of the concept of Spark programming.

TYBBA(C.A.)	CA-602	2019(CBCS)	Software Testing	▪ Acquire knowledge of testing tools. ▪ Understand the basic concepts of SQA. ▪ Able to design and implement the basic Test Cases.
TYBBA(C.A.)	CA-603	2019(CBCS)	Advanced Java	▪ Able to understand the concepts of JDBC Programming, Multithreading and Socket Programming. ▪ Ability to understand the concepts of spring and Hibernate, JSP and JDBC. ▪ Develop applications in spring and hibernate. ▪ Design website by using JDBC and JSP. ▪ Develop different types of Servlet applications. ▪ Develop different types of distributed applications.
TYBBA(C.A.)	CA-604	2019(CBCS)	Android Programming	▪ Able to write simple GUI applications, use built-in widgets and components, work with the database to store data locally, and much more. ▪ Demonstrate their understanding of the fundamentals of Android operating systems. ▪ Demonstrate their skills in using Android software development tools.
TYBBA(C.A.)	CA-604	2019(CBCS)	Dot Net Framework	▪ Understand the features of Dot Net Framework, VB, C#, and ASP.

				▪ Design and develop window-based and web-based .NET applications. ▪ Design and develop a Website. ▪ Design and Implement database connectivity using ADO.NET for VB, C#, and ASP.
TYBBA(C.A.)	CA-605	2019(CBCS)	(DSE) Project	▪ Acquire Project development and management skills. ▪ Able to implement design and coding techniques. ▪ Students will be able to apply test cases and testing techniques in the project.
TYBBA(C.A.)	CA-606	2019(CBCS)	Computer Laboratory Based on 603 and 604	▪ Ability to develop different types of chatting applications by using Socket programming. ▪ Able to develop and design different types of websites. ▪ Able to develop the project by using spring and Hibernate. ▪ To Understand Applications of widgets and components.
TYBBA(C.A.)	CA-607	2019(CBCS)	Soft Skill Training(ADD ON)	▪ Understand the significance and essence of a wide range of soft skills. ▪ Learn how to apply soft skills in the social and professional areas. ▪ Learn how to implement soft skills to improve interpersonal relationships.

				▪ Learn how to employ soft skills to enhance employability and ensure workplace and career success.
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