

Maharashtra Housing Board, Yerawada, Pune - 411 006.

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AISHE CODE: C-41455 PU/PN/C/359/2009 - College Code: 0883

Outward No.

Date:

Name of the Programme: BBA-CA Course Outcomes (COs)

Name of the	Course Title	Course Outcomes		
Class				
		CO1	The student will be able to recognize when to use each of the Microsoft Office programs to create professional business documents.	
-		CO2	The student will be able to use Microsoft Office programs to create personal and/orbusiness documents following current professional and/or industry standards	
	Madam Operating	СОЗ	The student will be able to pursue future courses specializing in one or more of theprograms.	
F.Y.B.B.A (C.A.)	Modern Operating Environment and MS Office	CO4	The student will be able to apply skills and concepts for basic use of computer hardware, software, networks, and the Internet in the workplace and in future coursework as identified by the internationally accepted Internet and Computing Core (IC3) standards.	
		CO1	The student will be able to understand the role of communication in personal and business world.	
F.Y.B.B.A	Business Communication	CO2	The student will be able to understand system and communication and their utility	
(C.A.)	Skills	CO3	The student will be able to develop proficiency in how to write business letters.	
A	-	CO1	The students have acquired sound knowledge of basic concepts of accounting	
F.Y.B.B.A	Financial	CO2	Students also understood about recording oftransactions and preparation of final accounts	
(C.A.)	Accounting	CO3	Students got exposure about various accounting software packages.	
	ı	CO1	The student will be able to understand basic concept regarding business administration.	
F.Y.B.B.A	F.Y.B.B.A Principles of	CO2	The student will be able to examining various management principles.	
(C.A.)	Management	CO3	The student will be able to develop managerial skills among the students.	
F.Y.B.B.A	Principles of	CO1	The student will be able to apply knowledge of mathematics, science, and engineering	
	Programming and Algorithm	CO2	The student will be able to learn how to solve common types of computing problems.	



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		CO3	The student will be able to design and conduct experiments, as well as to analyzeand interpret data.
9 9 9		CO4	The student will be able to design a system, component, or process to meet desired needswithin realistic constraints.
	25.	CO5	The student will be able to function on multidisciplinary teams.
		CO1	Students shall understand the concept, process and importance of communication
	•	CO2	Students shall develop an integrative approach where reading, writing, presentation skills are used together to enhance the students' ability to communicate and write effectively
F.Y.B.B.A (C.A.)	Business Communication	CO3	Students shall be awareness among students about Methods and Media of communication
		CO4	Students shall get familiar with information technology and improve job seeking skills.
,	e	CO1	The student will be able to understand basic concept regarding BusinessAdministration.
F.Y.B.B.A	Principles of	CO2	The student will be able to examining various management principles.
(C.A.)	Management	CO3	The student will be able to develop managerial skills among the students.
		CO1	Students will be able to understand role and importance of statistics in various businesssituations
F.Y.B.B.A	Business Statistics	CO2	Students will be able to develop skills related with basic statistical technique
(C.A.)		CO3	Students will be able to develop right understanding regarding regression, correlation and data interpretation
		CO1	Students will be gain useful knowledge and demonstrate correct application of featuresof MS Office.
		CO2	Students will be able to easily create and edit workbooks having multiple sheets fordifferent purposes and situations.
F.Y.B.B.A	F.Y.B.B.A (C.A.) Laboratory Course (Ms. Office, Tally, PPA)	CO3	Tally gives the platform to report the financial transaction with excessive ease.
(C.A.)		CO4	An ability to design a system, component, or process to meet desired needs within realistic constraints.
		CO1	The student will be able to understand the working of a digital computer.
F.Y.B.B.A Oriented (C.A.) Programm		CO2	The student will able to analyze a given problem and develop an algorithm to solvethe problem
	Procedure Oriented Programming using"C"	CO3	The student will able to improve upon a solution to a problem.
		CO4	The student will able to use the 'C' languageconstructs in the right way.
		CO5	The student will able to design, develop and test programs written in 'C'
N	Organizational	CO1	The student will able to understand basic concept of HRM & OB



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F.Y.B.B.A (C.A.)	Behavior & HumanResource Management	CO2	The student will able to make aware students about traditional & modern methods of procurement & development in organization.
	Wanagement	CO3	The student will able to know the major trends in HRM & OB
		CO1	The student will able to learn the basic concepts and understand the applications ofdatabase systems.
	Database	CO2	The student will able to construct an Entity- Relationship (E-R) model from specifications and to transform to relational model.
F.Y.B.B.A (C.A.)	Management Systems	CO3	The student will able to construct unary/binary/set/aggregate queries in Relational Algebra.
(C.A.)	Systems	CO4	The student will able to understand and apply database normalization principles.
	1	CO1	The student will able to develop right understanding regarding role and importance of monetary and financial transactions in business.
F.Y.B.B.A	Financial	CO2	The student will able to cultivate right approach towards classifications of different transactions and their implications.
(C.A.)	Accounting	CO3	The student will able to develop proficiency preparation of basic financial as to how to write basis accounting statement - Trading and P&L.
	*	CO1	The students will able to define, explain and illustrate a range of organizational behavior theories.
		CO2	The students will able to analyze the behaviour of individuals and groups in organizations in terms of organizational behaviour theories, models and concepts.
F.Y.B.B.A	Organizational Behavior	CO3	The students will able to apply organizational behaviour concepts, models and theories to real life management situations.
(C.A.)		CO4	The students will able to demonstrate a critical understanding of organizational behaviour theories.
		CO5	The students will able to communicate effectively about organizational behaviour theories and their application using appropriate concepts.
		CO6	The students will able to explain group dynamics and demonstrate skills required for working in groups (team building)
EVDDA		CO1	The students will able to understand role and importance of Mathematics in various business situations and while developing softwares.
F.Y.B.B.A Business Mathematics		CO2	The students will able to develop skillsrelated with basic mathematical technique
		CO1	Students shall understand the power of excelspreadsheet in computing summary statistics.
F.Y.B.B.A (C.A.)	Computer Applications In Statistics	CO2	Students shall understand the concept of various measures of central tendency and variation and their importance in business



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		CO3	Students shall understand the concept of probability, probability distributions and simulations in business world and decision making.
EVDDA	D lot - ID-	CO1	The students will able to understand relational database concepts and transaction management concepts in database system.
F.Y.B.B.A (C.A.)	Relational Data Base	CO2	The students will able to write PL/SQL programs that use: procedure, function, package, cursor and trigger.
		CO1	The students will able to Describe an example of system architecture for an e-Business.
F.Y.B.B.A (C.A.)	E-Commerce Concepts	CO2	The students will able to identify the major electronic payment issues and options.
, * , * , * , * , * , * , * , * , * , *	, v v	CO3	The students will able to discuss security issues and explain procedures used to protectagainst security threats.
F.Y.B.B.A	Web Technology (HTML-JSS-CSS)	CO1	The students will able to know & understand concepts of internet programming.
(C.A.)		CO2	The students will able to understand how to develop web based applications using Java Script
	Lahawatawa Cauwaa	CO1	Students will be able to Design, develop and test programs written in 'C'
F.Y.B.B.A	Laboratory Course (C-Programming, DBMS and Stat)	CO2	Students will be able to easily design and create a good database and use various SQLoperations.
(C.A.)	DBIVIS and Stat)	СОЗ	Students shall understand the power of excelspreadsheet in computing summary statistics.
	on • So ta	CO1	The students will be able to understand basic concepts and the applications of databasesystems
		CO2	The students will able to Understand and apply database normalization principles.
S.Y.B.B.A	Relational Database	CO3	The students will be able to understand principles of database transaction management, database recovery, security.
(C.A.)	Management System	CO4	The students will be able to understand Functions, Cursors, Triggers and packages.
	System	CO5	The student will get brief knowledge about SQL Fundamentals.
		CO6	The students will be able to understand Functions, Cursors, Triggers and packages.
	, ,	CO7	The students will be able to handle with different Data Base languages
S.Y.B.B.A (C.A.)		CO1	The students will be able to give knowledge about using digital marketing in business.
	Digital Marketing	CO2	The students will be able to make SWOT analysis, SEO optimization and use of various digital marketing tools.
S.Y.B.B.A	Data Structure	CO1	Students will be able to apply concepts of data structure in various domains like DBMS, etc.
(C.A.)	Using C	CO2	Students will be able to handle various operations like creation, insertion, deletion, searching, etc. on various data structure.



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		CO3	Students will be able to use various data structures like stack, queue, linked list, etc inpractically.
		CO4	Students will be able to apply appropriate data structure to specified problem definition.
		CO1	Students will be able to understand the concepts of ADTs.
S.Y.B.B.A	Data Structure	CO2	Students will be able to learn linear data structures – lists, stacks, and queues.
(C.A.)		CO3	Students will be able to understand sorting, searching and hashing algorithms.
		CO4	Students will be able to apply Tree and Graph structures.
9.		CO1	Students will be able to understand the concepts of operating system and its working.
		CO2	Students will be able to understand various operating systems features
		CO3	Students will be able to understand basic architectural components involved inoperating system design
S.Y.B.B.A (C.A.)	Introduction to Operating System	CO4	Students will be able to understand device and resource management techniques for timesharing and distributed system
		CO5	Students will be able to understand the concept of mutual exclusion, deadlock detection of distributed operating system
R. C.		CO1	Students will be able to understand System concepts.
S.Y.B.B.A	Software	CO2	Students will be able to understand SoftwareEngineering concepts.
(C.A.)	Engineering	CO3	Students will be able to understand the applications of Software Engineeringconcepts and Design in Software
		CO1	Students shall understand applications of matrices in business
		CO2	Students shall use L.P.P. and its applications in business
S.Y.B.B.A (C.A.)	BUSINESS MATHEMATICS	CO3	Students shall understand the concept of Transportation problems & its applications in business world
v		CO4	Students shall understand the concept of Profits and loss, loans and EMIs
		CO1	The students will be able to understandClient Side MVC and SPA.
		CO2	The students will be able to explore Angulary JS Component.
S.Y.B.B.A	Angular - JS	CO3	The students will be able to develop an Angular JS Single Page Application.
(C.A.)		CO4	The students will be able to create and bindcontrollers with Javascript.
		CO5	The students will be able to apply filter inAngularJS application.



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		CO1	The students will be able to understand how server-side programming works on the web.
	* - 1	CO2	The students will be able to use PHP built-infunctions and creating custom functions.
		СОЗ	The students will be able to understand POST and GET in form submission.
S.Y.B.B.A (C.A.)	PHP	CO4	The students will be able to understand how breceive and process form submission data.
*		CO5	The students will be able to read and process data in a MySQL database.
	1 1	CO1	The students will be able to use the techniques, skills, and modern engineering tools necessary for engineering practice.
		CO2	The students will be able to analyze, design, verifies, validate, implement, apply, and maintain software systems.
S.Y.B.B.A (C.A.)	Software Engineering	СОЗ	The students will be able to design and conduct experiments, as well as to analyzeand interpret data.
		CO4	The students will be able to identify, formulates, and solves engineering problems.
		CO1	The students will be able to develop expert knowledge and analytical skills in currentand developing areas of analysis statistics, and machine learning
S.Y.B.B.A	Big Data	CO2	The students will be able to identify, develop and apply detailed analytical, creative, problem solving skills.
(C.A.)		CO3	The students will be able to understand comprehensive platform for career development, innovation and further study.
7 2-		CO1	The students will be able to understand how block chain systems (mainly Bitcoin and Ethereum) work.
		CO2	The students will be able to securely interactwith them.
S.Y.B.B.A		CO3	The students will be able to design, build, and deploy smart contracts and distributed applications.
(C.A.)	Block Chain	CO4	The students will be able to integrate ideas from block chain technology into their own projects
		CO1	Student will be able to solve the practical problem using Data Structure using C and Relational Database Management System
		CO2	Students will be able to implement and summarize concepts of searching and sortingtechniques.
	Computer Laboratory and S.Y.B.B.A Practical Work	СОЗ	Students will be able to write well-structuredprogram using procedure oriented design principles.
		CO4	Students will be able to analyze run-time execution of application.
(C.A.)	(D.S + RDBMS)	CO5	Students will be able to implement the StackADT using array and linked list data structures.



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S.Y.B.B.A (C.A.)	Basic Course in Environmental Awareness	CO1	Students will be able to provide an opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment.
		CO2	Students will be able to develop conscious towards a cleaner and better managed environment.
		CO1	Students will be able to understand features of object oriented programming.
	Object Oriented	CO2	Students will be able to produce object-oriented software using C++
S.Y.B.B.A (C.A.)	Programming UsingC++	CO3	Students will be able to apply the major object-oriented concepts in programming
		CO4	Students will be able to understand the advanced features of C++ such as stream I/O, Templates, Operator Overloading, etc.
	ν,	CO1	Students will be able to gain knowledge about Computer Networks concepts.
S.Y.B.B.A (C.A.)	Networking	CO2	Students will be able to know about working of networking models, addresses, transmission medias and connectivity devices.
		CO3	Students will be able to acquire information about network security and cryptography.
n e	*	CO1	Students will be able to understand the basics of visual basic and its implementation
S.Y.B.B.A	Programming in Visual Basic	CO2	Students will be able to develop Graphical User Interface based on problem specified
(C.A.)		CO3	Students will be able to develop and debugapplication very easily
eq 7		CO1	Students will be able to acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.
S.Y.B.B.A (C.A.)	Object Oriented Concepts Through CPP	CO2	Students will be able to enable students to write programs using C++ features like operator overloading, constructor and destructor, inheritance, polymorphism and exception handling.
		CO1	Students will be able to identify the different components in a Communication Systemand their respective roles.
S.Y.B.B.A	Computer	CO2	Students will be able to describe the technical issues related to the local AreaNetworks.
(C.A.)	Networking	CO3	Students will be able to identify the common technologies available in establishing LANinfrastructure.
, of	, ,	CO1	Students will be able to know the services provided by Operating System
		CO2	Students will be able to know the scheduling concept
S.Y.B.B.A	Operating System	CO3	Students will be able to understand design issues related to memory management and various related algorithms.
(C.A.)	Operating System	CO4	Students will be able to understand design issues related to File management andvarious related algorithms



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	Г		,
S.Y.B.B.A (C.A.)	Enterprise Resource Planning and Management	CO1	Students will be able to understand ERP and learned about different technologies used.
		CO1	Students will be able to know & understand concepts of internet programming.
S.Y.B.B.A (C.A.)	Advance PHP	CO2	Students will be able to understand how server-side programming works on the web.
		CO3	Students will be able to understanding How to use PHP Framework (Joomla / Druple)
	ř	CO1	Students will be able to understand the JavaScript and technical concepts behindNode JS.
		CO2	Students will be able to structure a Node application in modules.
C.V.D.D.		СОЗ	Students will be able to understand and use the Event Emitter.
S.Y.B.B.A (C.A.)	Node – JS	CO4	Students will be able to understand Buffers, Streams, and Pipes.
		CO5	Students will be able to build a Web Serverin Node and understand how it really works.
	, Alia	CO6	Students will be able to connect to a SQL or Mongo database in Node.
	*	CO1	Student will be able to solve the practical problem using Object Oriented Programming Using C++ and Visual Basic
	*	CO2	Student will be able to construct the programs using bottom-up design approach
		CO3	Students will be able to debug analyze run-time execution of VB and C++ application
S.Y.B.B.A	Computer Laboratory and Practical Work (CO4	Students will be able to implement class, function overloading, operating overloading, Polymorphism, templates, etc.
(C.A.)	VB + C++)	CO5	Students will be able to use ActiveX controls to improve design and effectivenessof VB application.
	* * * * * * * * * * * * * * * * * * * *	CO6	Students will be able to prepare report inVisual Basic
*		CO1	Students will be able to understand the JavaScript language & the Document ObjectModel.
S.Y.B.B.A		CO2	Students will be able to detect and respond to user actions.
(C.A.)	I() erv	СОЗ	Students will be able to Alter, show, hide and move objects on a web page.
S		CO1	Students will be able to understand programming language concepts, particularly Java and object-oriented concepts.
		CO2	Students will be able to write, debug, and document well-structured Java applications.
T.Y.B.B.A (C.A.)	Java Programming	CO3	Students will be able to implement Java classes from specifications and effectivelycreate and use objects from predefined class libraries.



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		CO4	Students will be able to understand the behavior of primitive data types, objectreferences, and arrays.
		CO5	Students will be able to apply decision and iteration control structures to implement algorithms
		CO1	Students will be able to write a well formed/valid XML document.
		CO2	Students will be able to write a server side java application called Servlet to catch update and delete operations on DBMS table.
T.Y.B.B.A (C.A.)	Web Technologies	CO3	Students will be able to write a server side java application called Servlet to catch form data sent from client, process it and store it on database.
(0.11.)		CO4	Students will be able to write a server side java application called JSP to catch formdata sent from client and store it on database.
		CO1	Students will be able to use features of DotNet Framework along with Visual Basic.
T.Y.B.B.A	Dot Net	CO2	Students will be able to develop Graphical User Interface based on problem specified.
(C.A.)	Programming	CO3	Students will be able to develop and debug application very easily.
		CO1	Students will be able to describe the three pillars of object-orientation methodologies and explain the benefits of each.
	c	CO2	Students will be able to create use case documents that capture requirements for asoftware system.
		CO3	Students will be able to create class diagrams that model both the domain model and design model of a software system.
		CO4	Students will be able to design the interface between the classes and objects.
		CO5	Students will be able to create an interaction diagrams that models the dynamic aspects of a software system.
T.Y.B.B.A (C.A.)	Object Oriented Software Engineering	CO6	Students will be able to understand the facets of the Unified Process approach to designing and building a software system.
		CO7	Students will be able to describe how design patterns facilitate development and listseveral of the most popular patterns.
	Recent control	CO8	Students will be able to design the Axioms and corollaries.
		CO9	Students will be able to build a model for the user interface (UI) of a software application
		CO10	Students will be able to measure the Level of User satisfaction and software quality assurance
I das	E No. Procession	CO1	Student is able to prepare software requirements.
T.Y.B.B.A	Project work	CO2	Students can understand the user/client requirements.



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(C.A.)	(Basedon C++ & VB)	CO3	Students can design the software using various tools and functions.
		CO4	Students can able to design the framework of the particular topic.
		CO5	Students can prepare different types of reports of the project.
		CO6	Students can prepare the documentation of the entire project.
		CO1	Students will be able to setup up and use a webserver for testing and deploying webapplications.
	*	CO2	Students will be able to learn to create simple static webpages using html tags.
		CO3	Students will be able to learn client side scripting using a scripting language.
T.Y.B.B.A (C.A.)	Lab Course (Java & Web tech)	CO4	Students will be able to use DOM concepts for client side scripting.
(C.A.)	& web tech)	CO5	Students will be able to learn server side scripting using database connectivity andreport generation.
		CO6	Students will be able to learn the concept of Java application
		CO7	Students will be able to use different swing concepts.
		CO8	Students will be able to learn how to connect front end with backend.
	Advanced Web Technologies	CO1	Students will be able to understand the Mark-up language technology such as XMLStructure and tools.
		CO2	Students will be able to understand advanced web technologies such as AJAX.
T.Y.B.B.A		CO3	Students will be able to understand advanced web topic such as Web Services.
(C.A.)		CO4	Students will be able to develop a dynamic webpage by using JavaScript and HTML.
		CO5	Students will be able to write a valid XML document
		CO1	The students will have the competence in the use of Java Programming language.
T.Y.B.B.A (C.A.)	Advanced Java	CO2	The students will be able to develop small to medium sized application programs that demonstrate professionally acceptable coding.
T.Y.B.B.A (C.A.)		CO1	Students will be able to analyze the problems.
	Recent Trends in	CO2	Students will be able to learn how to analyze and create systems to accomplish tasks.
	IT	CO3	Students will be able to evaluate rapidly evolving trends and to integrate knowledge from appropriate fields to make effective and ethical technology decisions.
T.Y.B.B.A	Software Testing	CO1	Students will understand various test processes and continuous quality improvement.
(C.A.)	Software resting	CO2	Students will learn types of errors and fault models.



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		CO3	Students will understand the methods of test generation from requirements.
D.		CO4	Students will understand Test adequacy assessment using: control flow, data flow, and program mutations.
		CO5	Students will be able to use of various test tools.
		CO6	Students will be able to use application of software testing techniques in commercial environments.
		CO1	Student is able to prepare software requirements.
		CO2	Students can understand the user/client requirements.
TVDDA	Project work	CO3	Students can design the software using various tools and functions.
T.Y.B.B.A (C.A.)	(CO4	Students can able to design the framework of the particular topic.
		CO5	Students can prepare different types of reports of the project.
		CO6	Students can prepare the documentation of the entire project.
		CO1	Students will be able to study the different Java components.
		CO2	Students will be able to learn the different forms of java and php as applicable foreffective presentation.
T.Y.B.B.A (A and Ad	Lab Course (Advance Java	CO3	Students will be able to study the major components of java and php their integrated effects
	and Advance Web	CO4	Students will be able to study the different formats and application packages to createand edit.
	tech)	CO5	Students will be able to learn the techniques of database connectivity using differentsoftware applications.
		CO6	Students will be able to learn the techniques of video capturing and conversion using different software applications





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Outward No.

Date:

Department of Computer Application (BBA. CA)

Programme Outcomes (POs)

- 1. **PO 1**: The BBA (CA) Programme provides excellent academic base to develop a career in Computer Application with various Management and Business skills, which creates a best career of a student.
- 2. **PO 2**: This course focuses on conceptual grounding of computer usage as well as its practical Business Application with various in depth programming languages.
- 3. **PO 3**: This course nurtures good Soft Skills and Managerial Skill in the students which create noble IT Professionals, also necessary to build their own career.
- 4. **PO 4**: To make industry ready resource.
- 5. **PO** 5: Students get excellent exposure to learn the process of software development in the Vth and VIth semester by developing their own projects which helps them in campus placement.
- 6. **PO6**: This course inculcates basic programming ability amongst students which can help them to become a good programmer.

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Outward No.:

Date:

Department of Computer Application (BBA. CA)

Programme Specific Outcomes (PSOs)

- 1. **PSO 1**: The focus of BBA CA) programme (CBCS-2019 Pattern) has always been raising the academic standards, excellence and holistic development of students.
- 2. **PSO2**: Students should be able to apply modern practices and strategies in software project management using open-ended programming environments to deliver quality product for business success in context with societal needs.
- 3. **PSO3**: An ability to gain knowledge on design and control strategy; techniques to secure information and adapt to the fast-changing world of information technology needs.
- 4. **PSO4**: Design and develop Web and Mobile based computer applications.
- 5. **PSO5**: An ability to use and develop cloud software, administrative features, infrastructure services and architectural patterns; ethical hacking and forensic security technologies.
- 6. **PSO6**: To expose the students to the basic concepts of Information Technology & sharpen their IT/Programming skills.
- 7. **PSO7**: To understand the importance of database management and using it purposefully.
- 8. **PSO8**: To make students understand software engineering methodologies which constitute framework including planning analysis design and maintenance.

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- 9. **PSO9**: The projects made by the students give them better understanding of the subject.
- 10.**PSO10**: To understand and make use of the programming languages easily and use it purposefully.

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Date:

Name of the Programme: B.B.A. Course Outcomes (COs)

Name of the Class	Course Title		Course Outcome
		CO1	Students shall be able to explain why information systems are so important today for business and management.
-	Business Organisation & System	CO2	Students shall have the knowledge of the different forms of Business systems
	System	CO3	Students shall develop the spirit of entrepreneurship among the students.
		CO4	Students shall have the knowledge of Domestic and Foreign Trade.
F.Y.B.B.A.		CO1	Students shall improvise their skills such as linguistic, non-linguistic and Paralinguistic skills.
	Business Communication Skills	CO2	Students shall develop integrative approach where reading, writing, oral and speaking components are used together to enhance the students' ability to communicate and write effectively.
		CO3	Students shall be aware about various Methods and Media of communication.
6	Business	CO1	The students have acquired sound knowledge of basic conceptsof accounting.
	Accounting	CO2	Students also understood about recording of transactions and preparation of final accounts.
		CO3	Students got exposure about various accounting software packages.
V	Business	CO1	Students shall understand how households (demand) and businesses (supply) interact in various market structures to determine price and quantity of a good produced.
		CO2	Students shall understand the links between household behaviorand the economic models of demand
	Business Economics	CO3	Students shall represent demand, in graphical form, including the downward slope of the demand curve and what shifts the demand curve.



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	(Micro)	, CO4	Students shall understand the links between production costs andthe economic models of supply.		
		CO5	Students shall represent supply, in graphical form, including the upward slope of the supply curve and what shifts the supplycurve.		
		CO6	Students shall understand how different degrees of competitionin a market affect pricing and output.		
		CO1	Students shall understand applications of matrices in business		
	Business Mathematics	CO2	Students shall understand the concept and application of Permutations& Combinations in business.		
	Wathematics	CO3	Students shall use L.P.P. and its applications in business.		
		CO4	Students shall understand the concept of Transportation problems & its applications in business world.		
		CO5	Students shall understand the concept of shares & share market.		
	Business Demography and Environmental Studies	CO1	Students shall understand Distribution of Population and Population Growth.		
		CO2	Students shall be aware regarding Environment and Environmental issues related to Business		
		CO3	Students shall understand the problems of urbanization		
	Principles of Management	CO1	Students shall demonstrate an understanding of effective management principles as outlined in selected text learning objectives.		
28.7		CO2	Students shall apply effective management strategies principles and techniques.		
22		CO3	Students shall demonstrate research and analytical skills by using both human and technological resources		
		CO4	Students shall demonstrate the ability to communicate effectively.		
F.Y.B.B.A.		CO1	Students shall get familiar to basic concepts of marketing, it's general nature, scope and importance.		
	Principles of Marketing	CO2	Students shall receive appropriate knowledge and understanding of its primary functions and applications and its gradual evolution and development.		
		CO3	Students shall develop basic and essential skills related to marketing.		
		CO4	Students shall get a learning platform for preparing for marketing employability opportunities essential for industries		



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	Principles of Finance	CO1	Students understood the nature, importance, structure of inancerelated areas.
		CO2	Knowledge regarding sources of finance for a business.
	Basics of Cost	CO1	Students got the Knowledge of Basic cost concepts, element ofcost & preparation of Cost Sheet.
	Accounting	CO2	Basic knowledge of important Methods of costing was given tothe students.
		CO1	Students shall be able to understand the basics of statistics – concept of population and sample & to use frequency distribution to make decision.
	7	CO2	Students shall be able to understand and calculate various types of averages and variation.
	Business Statistics	CO3	Students shall be able to understand Correlation and use of regression analysis to estimate the relationship between two variables and its applications.
		CO4	Students shall be able to understand the concept – Time Series and its applications in business.
		CO5	Students shall be able to understand the concept – Index numbers and applications in business.
		CO6	Students shall be able to imbibe research culture among students.
		CO1	Students shall know the basics of Computer
	Business Informatics	CO2	Student shall understand the basics of networking
		CO3	Student shall the basics of internet.
		CO4	Student shall the basics of databases.
		CO1	Students shall be aware about the dimensions and importance of effective personality
S.Y.B.B.A.	Personality Development	CO2	Students shall understand personality traits and formation and vital contribution in the world of business
		CO3	Students shall get aware about various dynamics of personalitydevelopment
		CO1	Students shall get knowledge of Business Ethics
	Business Ethics	CO2	Students shall witness promotions of Ethical Practices in the Business
		CO3	Students shall develop Ethical and Value Based thought processamong the future manager's entrepreneurs



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S.Y.B.B.A.	7	CO1	Students studying HRM /OB acquire the knowledge, critical thinking, and practical skills that will enable them to create organizational effectiveness, lead human resources managementstrategies, and enhance the human condition at work.		
	Human Resource Management and Organisation	CO2	HRM/OB students learn to think critically about the challenges involved in creating high performance workplaces where innovation, diversity, and ethical behaviour are valued andrewarded.		
	Behaviour	CO3	HRM/OB Majors are educated in Human Resources Management (HRM), Organizational Behaviour (OB) and Industrial Relations (IR).		
		CO1	Students got the basic knowledge of Management Accounting.		
S.Y.B.B.A.	Management Accounting	CO2	To know the implications of various financial ratios in decisionmaking.		
S. I .D.D.A.	Accounting	CO3	Significance of working capital in business.		
		CO4	Students got the concept of budgetary control and its application in business.		
		CO5	Students got the calculating ability of various techniques of management accounting.		
	Business Economics (Macro)	CO1	Students shall study the behavior of working of the economy asa whole.		
S.Y.B.B.A.		CO2	Students shall develop an analytical framework to understand the inter-linkages among the crucial macroeconomic variables.		
		CO3	Students shall apply economic reasoning to problems ofbusiness and public policy.		
CVDDA	I.T. in Management	CO1	The study describes the role of information systems in business.		
S.Y.B.B.A.		CO2	It studies the current issues of information technology and relatethose issues to the firm.		
		CO1	Students shall identify and articulate how operations management contributes to the achievement of an organization's strategic objectives.		
S.Y.B.B.A.	Production and	CO2	Students shall critically evaluate the operations function in manufacturing and service production settings.		
	Operations Management	CO3	Students shall appraise and apply forecasting methods as the basis of management's planning and control activity.		
	v	CO4	Students shall assess and formulate decision making strategies to address operating issues that have short, intermediate or longlead times.		



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		CO5	Students shall evaluate approaches to problem solving and process improvement in production settings.		
	Industrial	CO1	Students understood the relationship between Labour and Management.		
	Relations & Labour Laws	CO2	Resolving of Industrial disputes and Grievances		
	Labour Laws	CO3	Students understood the laws which effects the industry and Labour		
		CO1	Students got to understand the basic concepts and definitions under the Income Tax Act, 1961.		
		CO2	Students were given latest development in the subject of taxation.		
		CO3	Acquired knowledge about Computation of Income under different heads of Income of Income Tax Act, 1961.		
S.Y.B.B.A.	Business Taxation	CO4	Acquired knowledge about the submission of Income Tax Return, Advance Tax, Tax deducted at Source, Tax Collection Authorities.		
		CO5	Students became Competent enough to take up to employment in Tax planner.		
		CO6	To develop ability to calculate taxable income of firms, co operative societies and charitable trust.		
	International Business	CO1	Students shall get acquainted with emerging issues in international business		
S.Y.B.B.A.		CO2	Students shall study the impact of international business environment on foreign market operations		
		CO3	Students shall understand the importance of foreign trade for Indian economy.		
	Management	CO1	Students became Competent enough to understand the conceptsof Information System		
S.Y.B.B.A.	Information System	CO2	Understood the concepts of system analysis and design		
		CO3	Students understood the issues in MIS.		
S.Y.B.B.A.	Business Exposure(Field	CO1	Students shall develop their understanding with a realistic and practical perception of the industry its layout, procedures, processes, organization structure.		
i si		CO2	Students shall gain firsthand information regarding the functioning of the Industry which presents the students with opportunities to plan, organize and engage in active learning experiences both inside and outside the classroom.		
	2	CO1	Upon successful completion of program students able to describe major logistics functions and activities.		
		CO2	Differentiate logistics and supply chain management,		
		CO3	Describe methods of inventory planning.		

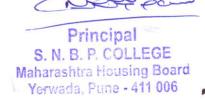


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	Supply Chain and Logistics	CO4	Explain how technology has and continues to change logistics and supply chain management
	Management	CO5	Compare modes of transportation.
		CO6	Describe warehouse processes, systems, and performance measures.
		CO7	Describe documentation and terms of sale for international shipments.
T.Y.B.B.A.	T.Y.B.B.A.		Graduate Entrepreneurship Students will be able to demonstrate a fundamental comprehension of business opportunity evaluation, from the perspective of a prospective investor.
	Entrepreneurship Development	CO2	Identify the most recognized sources of potential funding and financing for business start-ups and/or expansion.
		CO3	Demonstrate extemporaneous speaking skills developed through in-class discussion of text materials, case study analyses, and current entrepreneurship-related issues.
	. S	CO4	Assess their own personal work products creativity and how those could apply to their own real life, future business ventures.
	Business Law	CO1	Students understood basic legal terms and concepts used in law pertaining to business
		CO2	Applicability of legal principles to situations in Business world.
	Research Methodology (Tools and Analysis)	CO1	Students shall gain basic understanding of research process andtools for the same.
		CO2	Students shall gain understanding of the tools and techniques necessary for research and report writing.
	Analysis of	CO1	Students learnt the interpretation and analysis of financial statements effectively.
	Financial	CO2	The student got well acquainted with current financial practices
	Statements	CO3	Students became intensive users of financial statements as part of their professional responsibilities.
		CO1	Students shall demonstrate an understanding of the role that a sales force plays in marketing strategies
T.Y.B.B.A.	Sales	CO2	Students shall describe the selling process.
	Management	CO3	Students shall Understand the factors that affect sales force success.
		CO4	Students shall identify and explain the processes involved in recruiting, selecting, training, motivating, compensating, and retaining salespeople.
		CO1	Students shall understand HR Recruitment and Selection.



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	HRM Principles	CO2	Students shall get aware about Training, development and evaluation system in HR
	&Functions	CO3	Students shall understand how to prepare Personnel records reports and audit.
		CO4	Students shall study in detail New trends in HRM and exit policy
	I T	CO1	Students got the capability to make long-term financing.
2	Long Term Finance	CO2	Students were well-acquainted regarding current financial structure.
	Retail Management	CO1	Compare and contrast traditional retailers and category specialists Describe how technology (e.g., customer databases, integrated systems, and buying and sales forecasting systems) is used to support retail businesses
-		CO2	Evaluate the effectiveness of merchandising decisions in the retail industry Explain the factors relating to visual merchandising, such as store layouts and presentation Compare
			the strategies that are used within the different stages of a product's life cycle
	· ·	CO3	Students shall describe the flow of goods and services in a retail environment.
	Human Resource	CO1	Students shall get introduced to Strategic HRM
		CO2	Students shall understand Working Conditions & Welfare
Pract	Practices	CO3	Students shall understand Employee Grievance & Discipline
		CO4	Students shall get aware of E- Human Resource studies
		CO1	Students shall learn to manage the scope, cost, timing, and quality of the project, at all times focused on project
	Business Planning and Project	CO2	Students shall align the project to the organization's strategic plans and business justification throughout its lifecycle
	Management	CO3	Students shall identify project goals, constraints, deliverables, performance criteria, control needs.
		CO4	Students shall implement project management knowledge, processes, lifecycle and the embodied concepts, tools and techniques in order to achieve project success
T.Y.B.B.A.	Event Management	CO1	Students shall get acquainted with concepts, issues and various aspects of event management.
	Management	CO1	Students understood the function of management control, its
	Control System		nature, functional areas, and techniques.
		CO1	Students shall understand the basic concepts and technologies used in the field of management information systems.
	E-Commerce	CO2	Students shall be aware of the ethical, social, and security issues of information systems.



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			Students shall assess the impact of the Internet and Internet technology on business electronic commerce and electronic business.
=		CO4	Students shall identify the major management challenges to building and using information systems and learn how to find appropriate solutions to those challenges.
	Financial Services	CO1	Students got aware of various financial services and financial markets in India.
	Advertising and Sales Promotion	CO1	Students shall develop knowledge and understanding of importance and functions of advertising
		CO2	Students shall understand Key features of Sales Promotion
		CO1	Students shall get an introduction to Labour Laws in India
	Labour Laws	CO2	Students shall understand the Acts Such as - The Employees Provident Funds and Miscellaneous Provisions Act,1952; The Child Labour (Prohibition and Regulation) Act,1986; Maternity Benefits Act,1961 and The Employees State Insurance Act,1948.
	Cases in Finance	CO1	The students understand and prepare a project report on Varioustopics of finance.
	Cases in Marketing	CO1	Students shall get hands on application of theory by practicing via projects and cases.
	Cases in HRM	CO1	Students shall understand the actual application of theoretical aspects and laws by the means of live projects.





Maharashtra Housing Board, Yerawada, Pune - 411 006.

Phone: 2668 6162, Email: snbp_pune2010@yahoo.co.in

AISHE CODE: C-41455 PU/PN/C/359/2009 - College Code: 0883

Outward No.

Date:

Department of (BBA)

Programme Outcomes (POs)

Upon completion of the B.B.A Degree Programme the graduate will be able to

- 1. **PO1**: Provides a wide knowledge of all disciplines of the course and training in management of both animate and inanimate entities and develops leadership skills.
- 2. **PO2**: Enables students to effectively communicate business issues, management concepts, plans and decisions both in oral and written form using appropriate supportive technologies.
- 3. **PO3**: Equips students to demonstrate the capabilities required to apply cross-functional business knowledge and technologies in solving real-world business problems.
- 4. **PO4**: Enables students to demonstrate use of appropriate techniques to effectively manage business challenges.

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- 5. PO5: Makes students capable of recognizing and resolving ethical issues.
- 6. PO6: Helps to prepare students for managerial roles and as entrepreneurs.

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AISHE CODE: C-41455 PU/PN/C/359/2009 - College Code: 0883

Outward No.

Date:

Department of (BBA)

Programme Specific Outcomes (PSOs)

- 1. **PSO1**: Ability to analyze various functional issues affecting the organization.
- 2. **PSO2**: Ability to define, analyze the solutions for different business problems and using logical reasoning patterns for evaluating information, materials, and data for practical implementation.
- 3. **PSO3**: Develop Ethical Practices and Imbibe Values for Better Corporate Governance.
- 4. PSO4: Understand ethical challenges and choices in a business setting
- 5. **PSO5**: Demonstrate understanding of sustainability related concerns in varied areas and understand key features of sales promotion.
- 6. **PSO6**: Analyze Global Environment and its Impact on Business
- 7. **PSO7**: Understand the ecosystem of start up in the country& marketing strategies and market.
- 8. **PSO8**: Demonstrate the ability to create business plans.
- 9. **PSO9**: Provides verbal, reasoning, Data Interpretation, Quantitative and communication skill to solve specific business problems and decision making.
- 10. **PSO10**: Apply ethical principles and commitment towards professional ethics and responsibility.



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- 11. **PSO11**: Function effectively as a member, leader, individual or group in diverse environment.
- 12. **PSO12**: Ability to conceptualize a complex issue into a coherent written statement and oral presentation and to communicate effectively on complex activities with technical community.
- 13. **PSO13**: Providing an opportunity for the students to gain practical exposure towards the work place and make them industry ready.
- 14. **PSO14**: Promotes entrepreneurship by providing understanding of the fundamentals of creating and managing innovation, new business development, and high-growth potential entities.
- 15. **PSO15**: Ability to demonstrate technical competence in domestic and global arena of business through the study of major disciplines within the fields of business.

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Phone: 2668 6162, Email: snbp_pune2010@yahoo.co.in
AISHE CODE: C - 41455 PU/PN/C/359/2009 - College Code - 0883

Outward No.:

Date:

Name of the Programme: B. Sc. (Computer Science)
Course Outcomes (COs)

Name of the Class	Course Title		Course Outcomes
F.Y.B.Sc (Computer	Problem Solving Using Computer	CO1	Explore algorithmic approaches to problem solving.
Science)	and 'C' Programming - I	CO2	Develop modular programs using control structures and arrays in 'C'.
F.Y.B.Sc.	Database	CO1	Solve real world problems using appropriate set, function, and relationalmodels
(Computer Science)	Management Systems	CO2	Design E-R Model for given requirements and convert the same into database tables.
24		CO3	Use SQL.
F.Y.B.Sc.	Practical course on Problem Solving using	CO1	On completion of this course, students will be able to .Devise pseudo codes and flowchart for computational problems.
(Computer Science)	Computer and 'C' programming and	CO2	Write, debug and execute simple programs in 'C'.
	Database	CO3	Create database tables in postgre SQL.
	Management Systems	CO3	Write and execute simple, nested queries.
F.Y.B.Sc (Computer Science)	Advanced 'C' Programming	CO1	The student will be able to Develop modular programs using control structures, pointers, arrays, strings and structures
u de la companya de l		CO2	The student understands the importance Design and develop solutions to real world problems using C.
F.Y.B.Sc	Relational	CO1	On completion of the course, student willbe able to Design E-R Model for given requirements and convert the same into database tables.
(Computer Science)	Database Management	CO2	Use database techniques such as SQL & PL/SQL
	Systems	CO3	Explain transaction Management in relational database System responsible for our performance in life.



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		CO4	Use advanced database Programming concepts.
F.Y.B.Sc (Computer Science)	Practical Course on Advanced 'C' Programming and Relational	CO1	On completion of this course, students will be able to: Write, debug and execute programs using advanced features in 'C'.
	Database	CO2	To use SQL & PL/SQL
	Management Systems	CO3	To perform advanced database operations
S.Y.B.Sc	Data Structures	CO1	On completion of the course, student willbe able to use well-organized data structures in solving various problems.
(Computer Science).	and Algorithms –I	CO2	To differentiate the usage of various structures in problem solution
		CO3	Implementing algorithms to solve problems using appropriate datastructures.
S.Y.B.Sc.	Software	CO1	On completion of the course, student willbe able to Compare and chose a process model for a software project development.
(Computer Science).	Engineering	CO2	Identify requirements analyze and prepare models.
		CO3	Prepare the SRS, Design document, Project plan of a given software system.
		CO1	Student will be able to To use well-organized data structures insolving various problems.
		CO2	Implementing algorithms to solveproblems using appropriate data structures.
CANDO	Practical course on CS 231 (Data	CO3	Prepare detailed statement of problem for the selected mini project
S.Y.B.Sc. (Computer Science).	Structures and Algorithms I) and CS 232 (Software	CO4	Identify suitable process model for the same
science).	Engineering)	CO5	Develop Software Requirement Specification for the project.
		CO6	Identify scenarios and develop UML Use case
		CO7	Other artifacts: Class Diagram, activity diagram, sequence diagram, component diagram and any other diagrams as applicable to the project.
S.Y.B.Sc. (Computer Science).	Data Structures and Algorithms -	CO1	On completion of this course students will be able to Implementation of different data structures efficiently.
		CO2	The students will able to understand the Usage of well-organized data structures to handle large amount of data



-		CO3	The students will be able to understand Usage of appropriate data structures for problem solving.
S.Y.B.Sc.	Computer	CO1	Have a good understanding of the OSI and TCP/IP Reference Models and in particular have a good knowledge of Layers.
(Computer Science).	Networks-I	CO2	The learner understands the basic Understand the working of various protocols
		CO3	Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies.
S.Y.B.Sc.	Practical course on CS 241(Data	CO1	The students will able to understand the codes should be uploaded on either the local server, Moodle, Github or any open source LMS.
(Computer Science)	Structures and Algorithms II) and CS 242 (Computer Networks I)	CO2	To understand the basic commands run on cmd. And find the information about the computer pursuing the protocol and different types of address which is required to make communication possible over the network.
*		CO3	To understand & identify the class full addressing in IPV4.
TVDC		CO1	After completion of this course students will be able to understand the concept of Processes and Thread Scheduling by operating system
T.Y.B.Sc. (Computer Science)	Operating Systems – I	CO2	Synchronization in process and threads by operating system
Science)		CO3	Memory management by operating system using with the help of various schemes.
		CO1	On completion of the course, student willbe able to Student will understand the different protocols of Application layer.
T.Y.B.Sc.	Computer Networks - II	CO2	Develop understanding of technical aspect of Multimedia Systems
(Computer Science)		CO3	Develop various Multimedia Systems applicable in real time
		CO4	Identify information security goals.
	N N	CO5	Understand, compare and apply cryptographic techniques for data security.
		CO1	Learners shall be able to understand basic concepts and Web Page



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T.Y.B.Sc. (Computer	Web Technologies - I	CO2	On completion of the course, student willbe able to Understand how to develop dynamic
Science)	reciniologies - 1		and
		CO1	On completion of the course, student willbe able to Perform Exploratory Data Analysis
		CO2	Obtain, clean/process, and transform data
T.Y.B.Sc.	Foundations of	CO3	Detect and diagnose common data issues, such as missing values, special values, outliers, inconsistencies, and localization
(Computer Science)	Data Science	CO4	Demonstrate proficiency with statistical analysis of data.
		CO5	Present results using data visualization techniques
. , , , , , , , , , , , , , , , , , , ,		CO6	Prepare data for use with a variety of statistical methods and models and recognize how the quality of the data and the means of data collection may affect conclusions.
T.Y.B.Sc. (Computer	Object Oriented Programming	CO1	On completion of the course, student willbe able to understand the concept of classes, object,packages and Collections.
Science)	using Java - I	CO2	To develop GUI based application.
T.Y.B.Sc. (Computer Science)	Theoretical Computer Science	CO1	On completion of the course, student willbe able to understand the use of automata during language design.
Science)	Science	CO2	Relate various automata and languages
T.Y.B.Sc.	Practical Course	CO1	After completion of this course students will be able to understand the concept of Process synchronization
(Computer Science)	based on CS - 351	CO2	Processes and Thread Scheduling by operating system
		CO3	Memory management by operating system using with the help of various schemes
T.Y.B.Sc. (Computer	Practical Course based on CS -	CO1	Understand how to develop dynamic and interactive Web Page.
Science)	353 and CS - 354	CO2	Prepare data for use with a variety of statistical methods and recognize how the quality of the data may affect conclusions.
		CO3	Perform exploratory data analysis.
T.Y.B.Sc.	Practical Course	COI	Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs
	based on CS -	CO2	Read and make elementary modificationsto
(Computer Science)	355		Java programs that solve real-world problems.



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T.Y.B.Sc.		CO1	On completion of the course, student willbe able to develop logic for problem solving
		CO2	Determine the methods to create and develop Python programs by utilizing the data.
(Computer Science)	Python Programming	CO3	Structures like lists, dictionaries, tuples and sets.
		CO4	To be familiar about the basic constructs of programming such as data, operations, conditions, loops, functions etc.
		CO5	To write python programs and develop a small application project.
T.Y.B.Sc.		CO1	On completion of the course, student willbe able to Learn the fundamentals of BlockchainTechnology.
(Computer	Blockchain	CO2	Learn Blockchain programming
Science)	Technology	CO3	Basic knowledge of Smart Contracts and how they function.
T.Y.B.Sc. (Computer	Operating Systems-II	CO1	After completion of this course students will be able to understand the concept of Management of deadlocks and File System by operating system
Science)		CO2	Scheduling storage or disk for processes
		CO3	Distributed Operating System and its architecture and the extended features in mobile OS.
T.Y.B.Sc. (Computer	Software Testing	CO1	To understand various software testing methods and strategies.
Science)		CO2	To understand a variety of software metrics, and identify defects and managing those defects for improvement in quality forgiven software.
×		CO3	To design test cases and test plans, review reports of testing for qualitative software.
0		CO4	To understand latest testing methods used in the software industries
T.Y.B.Sc. (Computer Science)	Web	CO1	On completion of the course, student will be able to—Build dynamic website.
	Technologies - II	CO2	Using MVC based framework easy to design and handling the errors in dynamic website
-		CO1	On completion of the course, student will be able to— Use appropriate models of analysis, assess the quality of input, and derive insight from results.



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T.Y.B.Sc. (Computer Science)	Data Analytics	CO2	Analyze data, choose relevant models and algorithms for respective applications
		CO3	Understand different data mining techniques like classification, prediction, clustering and association rule mining
		CO4	Apply modeling and data analysis techniques to the solution of real world business problems
T.Y.B.Sc. (Computer Science)	Object Oriented Programming using Java – II	COI	On completion of the course, student will be able to— To access open database through Java programs using JDBC and develop the application
		CO2	Understand and Create dynamic web pages, using Servlets and JSP.
		CO3	Work with basics of framework to develop secure web applications.
T.Y.B.Sc. (Computer Science)	Object Oriented Programming using Java – II	CO1	On completion of the course, student will be able to access open database through Java programs using Java Data Base Connectivity (JDBC) and develop the application
		CO2	Understand and Create dynamic web pages, using Servlets and JSP.
		CO3	Work with basics of framework to develop secure web applications.
T.Y.B.Sc. (Computer	Compiler Construction	CO1	On completion of the course, student will be able to understand the process of scanning andparsing of source code



		CO2	Learn the conversion code written in source language to machine language.
-		CO3	Understand tools like LEX and YACC.
T.Y.B.Sc. (Computer Science)	Practical Course based on CS - 361	CO1	After completion of this course studentswill be able to understand the concept of Management of deadlocks by operating system
		CO2	File System management
		CO3	Disk space management and scheduling for processes
T.Y.B.Sc. (Computer Science)	Practical Course	CO1	Build dynamic website
	based on CS - 363 and CS - 364	CO2	Using MVC based framework easy to design and handling the errors in dynamicwebsite.
T.Y.B.Sc. (Computer Science)	Practical Course	CO1	To Learn database Programming using Java
	based on CS - 365	CO2	Understand and Create dynamic web pages using Servlets and JSP.
		CO3	Work with basics of framework to develop secure web applications
T.Y.B.Sc. (Computer Science)		CO1	To understand various software testing methods and strategies
	Software Testing Tools	CO2	To understand a variety of software metrics and identify defects and managing those defects for improvement in quality for given software.
	A	CO3	To design test cases and test plans, review reports of testing for qualitative software.
	8	CO4	To understand latest testing tools used in the software industries.
T.Y.B.Sc. (Computer Science)	Project	CO1	To understand the use of technologies how it will be implemented while developing the project. And students must co-relate their knowledge and have confident to represent with well understanding facts.





Maharashtra Housing Board, Yerawada, Pune - 411 006.

Phone: 2668 6162, Email: snbp_pune2010@yahoo.co.in

AISHE CODE: C - 41455 PU/PN/C/359/2009 - College Code - 0883

Outward No.:

Date:

Department of Computer Science (BSc. CS)

Programme Outcomes (POs)

PO1: At the first year of under-graduation, the basic foundations of two important skills required for software development are laid. A course in problem solving and programming along with a course in database fundamentals forms the preliminary skill set for solving computational problems. The practical courses are designed to supplement the theoretical training in the year. Along with Computer Science, the two theoretical and one practical course each in Statistics, Mathematics and Electronics help in building a strong foundation. Career Advancement courses are introduced in both semesters to cover additional areas of Computer Science.

PO2: At the second year of under-graduation, computational problem-solving skills are further strengthened by a course in Data structures. Software engineering concepts that are required for project design are also introduced. Essential concepts of computer networking are also introduced in this year. The practical course included in both semesters complements the theory courses.

PO3: At the third year of under-graduation, all the subjects are designed to fulfill core Computer Science requirements as well as meet the needs of the software industry. Theory courses are adequately supplemented by hands-on practical courses. Skill Enhancement courses enable the students to acquire additional value-added skills.

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S. E. SOCIETY'S



S.N.B.P. COLLEGE

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AISHE CODE: C-41455 PU/PN/C/359/2009 - College Code: 0883

Outward No.

Date:

Department of Computer Science (BSc. CS)

Programme Specific Outcomes (PSOs)

PSO 1: Apply knowledge of computing and mathematics appropriate to the discipline.

PSO 2: Develop problem-solving abilities using computer.

PSO 3: Design the application using programming languages.

PSO 4: Ability to understand the principles and development methodologies of computer systems.

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