


**Shri swami Vivekanand Shikshan Sanstha's
Vivekanand College (An Empowered Autonomous), Kolhapur
Department of BCA**


Curriculum relevance: Course outcomes with relevance to Local, Regional, National Global needs (UG) 2022-23 to 2024-25

Sr. No.	Course Code	Course Title	Year of Introduction	CO's with relevance to local/regional needs	CO's with relevance to national needs	CO's with relevance to global needs
1	DSC04COM11	Programming in C	2022-23	CO1:Understand the problem solving techniques	CO2:Develop algorithm and flowchart for different problems	CO3: Design program using control statements. CO4:Handle multidimensional arrays.
2.	DSC04COM12	Basic Web Technology	2022-23	CO1:Understand the basic working of internet and its main services.	CO2:Create webpages using HTML.	CO3:Applying CSS styles in webpage development. CO4:Utilize theoretical skills and practical experience of web design
3.	MIN04ACC11	Financial Accounting with Tally-1	2022-23	CO1:Developing the ability to use accounting concepts and principals.	CO2:Use basic accounting terminology, procedures and systems of maintaining account records.	CO3:Undersatnd the need for Journal. CO4:Develop the understanding for posting of transaction and balancing account.
4.	MIN04MGT11	Principles of Management -1	2022-23	CO1:Student will be component to deliver the basic managerial function.	CO2: Student will be able to design appropriate organizational structure for smooth running of organization.	CO3: Student will be able to understand functions of staffing. CO4:To gain knowledge about all management process and create understanding in detail about the application of management.
5	OEC04MAT11	Mathematics-1	2022-23	CO1:Familiarize basic concept of set theory. CO2: Recognize different types of function.	CO3:Compute the addition and multiplication of matrices.	CO4: Find inverse of matrices by Elementary transformation and Adjoint method.
6.	OEC04STA11	Statistics-1	2022-23	CO1:Demonstrate understanding of descriptive statistics by practical application of quantitative reasoning and data visualization.	CO2:Calculate and interpret the various descriptive measure for centrality and dispersion.	CO3: Enumerate various measures of dispersion CO4: To compute correlation coefficient and its interpretation, compute regression coefficients and regression lines.
7.	AEC04ENG11	English	2022-23	CO1: Understand the concept, process and importance of communication.	CO3: Develop skills of effective communication-	CO4: Familiar with inter-departmental communication.

				CO2: Gain knowledge of media of communication.	both written and oral.	
8.	DSC04COM21	Programming in C Part-II	2022-23	CO1: Ability to design and develop computer program, analyze, and interprets the concepts of pointers, declarations, initialization, operations on pointers and their usages	CO2: Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures and file Handling.	CO3: Develop confidence for self-education and ability for life-long learning needed for computer language. CO4: Students can write programs using advance C concepts.
9.	DSC04COM22	Advance Web Technology	2022-23	CO1: Understand Web designing techniques.	CO2: Develop commercial web development. CO3: Integrate java and server side scripting languages to develop web applications.	CO4: Create well-formed valid HTML documents
10	MIN04ACC21	Finical Accounting with Tally -II	2022-23	CO2: Students learn to prepare final accounts of Sole Trading concern.	CO3: Learn to create company, enter accounting voucher entries and also print financial statements etc. in tally.	CO4: Demonstrate various reports in tally.
11	OEC04MAT21	Mathematics-11	2022-23	CO1: Have substantial experience to comprehend formal logic arguments.	CO2: The ways to select certain objects to form with or without replacements.	CO3: Define a permutation and explain how to calculate one. CO4: The basic concept of graph theory.
12	OEC04STA21	Statistics-II	2022-23	CO1: Distinguish between Deterministic and Non-deterministic experiments.	CO2: Understand the basic concepts of probability, conditional probability and independence of events. CO3: Learn theorems on probabilities and compute probabilities.	CO4: Understand the concept of discrete random variable, probability distributions and mathematical expectation.
13	AEC04ENG21	English	2022-23	CO1: Understand the concept, process and importance of communication network.	CO2: Gain knowledge of interdepartmental communication network	CO3: Develop skills of effective communication both oral and written CO4: Familiar with business correspondence


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1	DSC-V-DSC04COM31	Object Oriented Programming with C++	2023-24	CO1:Understand the features of C++ supporting object oriented programming.	CO2:Understand the relative merits of C++ as a an object oriented programming language. CO4:Understand advanced features of C++ specifically string I/O & file handling.	CO3: Understand how to apply the measure object oriented concept to implements object oriented programs in C++ , Encapsulation, Inheritance & Polymorphism.
2.	DSC-VI-DSC04COM32	Database Management system	2023-24	CO1:To know the fundamental of databases .	CO2:To Understand how to use database in day to day applications.	CO3:Design ER Models to represent simple database application scenarios. CO4:Improve the database design by normalization.
3.	MIN04MGT31	Fundamental Entrepreneurship	2023-24	CO1:Examine the characteristic an entrepreneur as well as their role in economic development of the country.	CO2:To facilitate a clear perspective to diagnose and effectively handle human behavior issues in organization.	CO3:To Know insight into their own behavior in interpersonal and group, team , situation. CO4:To know the recent trends of entrepreneurship

						development
4.	MIN-VI-MIN04MGT32	Principles of Marketing	2023-24	CO1: Understand the marketing concepts and its evolution.	CO2: Know the consumer behavior and their decision making process.	CO3: Make decision on product, price, promotion mix and distribution. CO4: Explain how the environment affects a firm's marketing effort.
5	SEC-II-SEC04CMO31	PHP-II	2023-24	CO1: Understand the basics of PHP programming language and its role in web development. CO2: Implement functions and arrays in PHP to solve programming problems	CO3: Design web forms using HTML and process user input using PHP.	CO4: Execute file uploads and perform file handling operations in PHP applications.
6.	SEC-IV-SEC04-CMO33	AI-1	2023-24	CO1: Identify AI problems and their features. CO2: Use predicate calculus and propositional logic for knowledge representation.	CO3: Describe the statistical data numerically by using correlation, regression and curve fittings	CO4: Use heuristics in search based problems. Use semantic networks, conceptual dependencies scripts and frames for information representation
7.	DSC-VII DSC04COM41	Data Structure Using C++	2023-24	CO1 : Use and implement appropriate data structure for the required problems using a programming language such as C++. CO2: Write programs for various searching & sorting techniques.	CO3: Implementing various data structures viz. Stacks, Queues.	CO4: Implementation of Linked Lists and Trees.
8.	DSC-VIII DSC04COM42	RDBMS	2023-24	CO1: Enhance the knowledge and understanding of database	CO3: Use the relational Model and how it is	CO4: To solve database problems

				analysis and design. CO2: Enhance programming skills and techniques using SQL and PL/SQL.	supported by SQL and PL/SQL	using SQL and PL/SQL. by using Cursors and Triggers.
9.	MIN-VII-MIN04MGT41	Management Information System	2023-24	CO1: Describe the use and function of information systems. CO2: Describe and evaluate information systems development processes and techniques.	CO3: Identify and evaluate hardware and software requirements for information systems.	CO4: Explain the security risks associated with management information systems
10.	MIN-VIII-MIN04MGT42	M-Commerce	2023-24	CO1: Recognize the concepts of mobile commerce. CO2: Enables a business to reach more customers online	CO3: To provides customers with wide range of product choices and payment options from different vendors	CO4: Summarize information on mobile payments.
11.	SEC-III-SEC04COM32	Software Engineering -III	2023-24	CO1: Compare and chose a process model for a software project development. CO2: Identify requirements analyze and prepare models.	CO3: Prepare the SRS, Design document, Project plan of a given software system.	CO4: Work as an individual and as part of a multidisciplinary team to develop and deliver quality software.
12.	SEC-V SEC04CMO41	AI-II	2023-24	CO1: Identify AI problems and their features. CO2: Use predicate calculus and propositional logic for knowledge representation	CO3: Describe the statistical data numerically by using correlation, regression and curve fittings.	CO4: Use heuristics in search based problems. Use semantic networks, conceptual dependencies scripts and frames for information representation


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1	CC BCA-1419E	ASP.Net with C#	2024-25	CO1: Understand the Microsoft .NET framework and ASP.NET page structure.	CO2: Design web applications with variety of controls	CO3: Describe the principles of Parallel and Distributed Computing and evolution of cloud computing from existing technologies. CO4: Configure and deploy web application.
2.	CC BCA-1420E	Cloud Computing	2024-25	CO1: Understand the fundamental principles of Cloud Computing. CO2: Understand the importance of virtualization in distributed computing and how this has enabled.	CO3: Describe the principles of Parallel and Distributed Computing and evolution of cloud computing from existing technologies.	CO4: Implement different applications of Cloud Computation in different sectors.
3.	CC BCA-1421E	Computer Networking	2024-25	CO1: Define, use and implement Computer Networks and the basic components of a Network system.	CO2: Know and Apply pieces of hardware and software to make networks more efficient, faster, more secure, easier to use,	CO3: Able to transmit several simultaneous messages, and able to interconnect with other networks. CO4: Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
4.	CC-DSE-BCA-1422E	Python Programming	2024-25	CO1: Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.	CO2: Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.	CO3: Articulate the Object-Oriented Programming concepts such as encapsulation, Inheritance and polymorphism as used in Python. CO4: Identify the commonly used operations involving file systems and regular expressions.
5	CC-DSE BCA-1422E	R Programming	2024-25	CO1: The basics of statistical computing and data analysis.	CO2: To use R for analytical programming.	CO3: Object-oriented programming concepts in R CO4: To perform error handling
6.	CC-GE BCA-1423E	Digital Marketing	2024-25	CO1: Understand the impact of technology on the traditional	CO2: Understand how they can use digital marketing to	CO3: Understand the basics of the digital marketing tool kit

				marketing mix.	increase sales and grow their business	CO4: Become familiar with the elements of the digital marketing plan
7.	CC-GE BCA-1423E	Management Information System	2024-25	CO1: Understand the fundamental principles of information systems. CO2: Describe the types of management and decision making	CO3: Demonstrate different types of IS used in business.	CO4: Explain various applications of MIS.
8.	CC BCA-1426F	Java Programming	2024-25	CO1: To make it portable, simple and secure programming	CO2: To learn why java is useful for design of desktop and web application.	CO3: To learn how to implement object-oriented design with java. CO4: To understand how to use java API's for program development.
9.	CC BCA-1427F	Data Warehousing and Data Mining	2024-25	CO1: Define the Data warehouse architecture and its Implementation.	CO2: Describe the Architecture of a Data Mining system. CO3: Understand the various Data preprocessing Methods	CO4: Perform classification and prediction of data.
10	CC BCA-1428F	Android Programming	2024-25	CO1: Understand the building blocks of Mobile Operating Systems. CO2: Analyze different elements of Android Development Environment.	CO3: Illustrate the structure of Mobile Applications using Android.	CO4: Identify different components used in Mobile Applications using Android.
11	CC BCA-1428F	Internet of Things	2024-25	CO1: To design some IOT based prototype	CO2: Analyze the different digital marketing avenues.	CO3: Examine digital marketing tools CO4: Build real life problems in the domain of digital marketing.
12	CC BCA-1429F	M-Commerce	2024-25	CO1: To understand the concept of e-commerce.	CO2: To know the application of m-commerce. CO3: To understand the concept of m-commerce.	CO4: To understand the security threats of m-commerce.
13	CC BCA-1429F	ERP	2024-25	CO1: To understand the basic concept of ERP systems.	CO2: To study the steps and activities in the ERP.	CO3: To develop a process driven thinking towards business processes. CO4: To understand role of ERP in business planning activities.


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