VIVEKANAND COLLEGE, KOLHAPUR(AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Term- Ist

Name of teacher- Miss. VaishaliDurgaramPatil Department- BCA

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Remark
B.C.A I Sem-I	Fianancial Accounting with Tally	Module –I Introduction to Financial Accounting Meaning and Definition of Financial Accounting, Objectives of Accounting,	Module –I Introduction to Financial Accounting Meaning and Definition of Financial Accounting, Objectives of Accounting, Various users of Accounting Information		
The state of the s	O COLLEGE TOP	Various users of Accounting Information Module –II Accounting Terminology: Accounting Concepts and Conventions, Double entry system, Types of Accounts and Golden rules of accounting. Books of Prime Entry, Subsidiary Books and Ledger	Module –II Accounting Terminology: Accounting Concepts and Conventions, Double entry system, Types of Accounts and Golden rules of accounting. Books of Prime Entry, Subsidiary Books and Ledger Creation		
TOWN THE PLAN	ESTD JUNE 1964	Module – III Journal: Introduction ,Importance of journal ,subsidiary books, (problem based on journal).	Module – III Journal: Introduction ,Importance of journal ,subsidiary books, (problem based on journal).		
		Module – IV Ledger: Introduction to cash book ,Types of cash book, preparation of cash book Introduction to ledger ,ledger posting.	Introduction to ledger ,ledger posting		
B.C.A II Sem- III	Enterpreneurship Development	Module – I Entrepreneurship:- Concept, Classification – Functions, Qualities of successful Entrepreneurship , Concept of Entrepreneur and intrapreneur. Entrepreneurship in modern Era.	Entrepreneur and intrapreneur. Entrepreneurship in modern Era.		
		Module – II Entrepreneurship Development:- Concept, objectives, process, problems, measures in Entrepreneurship Development,	Module – II Entrepreneurship Development:- Concept, objectives, process, problems, measures in Entrepreneurship Development,		



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	for Entrepreneurship Development - National Institute for Entrepreneurship and Small Business Development (NIESBD), Small Industry Development Bank of India (SIDBI), District Industry Censes (DIC)	Support for Entrepreneurship Development - National Institute for Entrepreneurship and Small Business Development (NIESBD), Small Industry Development Bank of India (SIDBI), District Industry Censes (DIC)	
	Module – III Project Management:- Company formation, forms of business organization project- classification of project, Stages of Project Management, Reasons for failure for, Project, Project for Retail stores, Hotel, Hospital, Dairy.	Module – III Project Management:- Company formation, forms of business organization project- classification of project, Stages of Project Management, Reasons for failure for, Project, Project for Retail stores, Hotel, Hospital, Dairy.	
	Module – IV Successful Indian Entrepreneurs:- Ratan Tata, AzimPremji, Narayan Murthy, Anand Mahindra, Kumar Mangalam Birla, NandanNilekani	Module - IV Successful Indian Entrepreneurs:- Ratan Tata, AzimPremji, Narayan Murthy, Anand Mahindra, Kumar Mangalam Birla, NandanNilekani	

B.C.A- III	Manageme nt	Module –I Introduction to Information System :	Module – I Introduction to Information System :	ilm
Sem-V	Informatio n System	Introduction to systems- definition, need, types, characteristic	Introduction to systems- definition, need, types, characteristic	
		Definition of Information Classification of Information	Definition of Information Classification of Information	
AND CO	LEGERO	Need and importance of information system Definition and Characteristics of information system	Need and importance of information system Definition and Characteristics of information system	
ES JU	INE INE	Role of information system in business	Role of information system in business	37.73
The second second	Autonomodes	Module – II Decision Making: Decision Making Concepts, and Process, Types of Decisions Behavioral Concepts in Decision Making Organizational Decision-Making	Module -II Decision Making: Decision Making Concepts, and Process, Types of Decisions Behavioral Concepts in Decision Making Organizational Decision-Making	 1
	R	MIS and Decision Making Module – III Types of Information System: Introduction	MIS and Decision Making Module – III Types of Information System: Introduction	
		Operational and Knowledge Level- TPS	Operational and Knowledge Level- TPS	1

System), KWS (Knowledge Work System) Management and Strategic Level- MIS (Management Information System-need characteristics, DSS (Decision Support System)-need, characteristics, components, ESS (Executive Support System)-need, characteristics	System), KWS (Knowledge Work System) Management and Strategic Level- MIS (Management Information System-need characteristics, DSS (Decision Support System)-need, characteristics, components, ESS (Executive Support System)-need, characteristics	
Module – IV Applications of MIS Financial Information System Human Resource Information System Production Information System	Module – IV Applications of MIS Financial Information System Human Resource Information System Production Information System	

HEAD
DEPARTMENT OF B. C. A.
WVEKAMAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS) STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Term 1st

	Name of	teacher- Mr. Sumedrao Manikrao Gaikwad	Department- BCA		
Class	Subject	Syllabus assigned	Syllabus Covered	Syllabu s not to Covered	Rem:
B.C.A- I Sem-I (NEP)	Basics of Web Technolog y	Unit-I Introduction to HTML-5: What is HTML-5, Basic Tags, Structure, Layout, Web Development Process Overview of HTML Tags, Formatting Tags, Headings(H1-H6), Tags and Attributes.	Unit-I Introduction to HTML-5: What is HTML-5, Basic Tags, Structure, Layout, Web Development Process Overview of HTML Tags, Formatting Tags, Headings(H1-H6), Tags and Attributes.		
		Unit-II List Tags: Ordered and Unordered Tags, Hyperlink, <hr/> <marquee> Tags, Image Tag with all attributes, Image and Image map. <table> </table> tag with all attributes<form> tag,Examples and case studies based on all tags.</form></marquee>	Unit-II List Tags: Ordered and Unordered Tags, Hyperlink, <hr/> <marquee> Tags, Image Tag with all attributes, Image and Image map. <table> </table> tag with all attributes<form> tag,Examples and case studies based on all tags.</form></marquee>		
STD UNE		Unit-III Basic of CSS Introduction to CSS, CSS Basics, Syntax / Rule of CSS, Selectors, properties and values, Applying CSS to HTML tags, Types: Internal, Inline, External CSS with Properties	Unit-III Basic of CSS Introduction to CSS, CSS Basics, Syntax / Rule of CSS, Selectors, properties and values, Applying CSS to HTML tags, Types: Internal, Inline, External CSS with Properties		
Autoromes		Unit IV CSS - Page Layout Case Study: Select any topic of your interest and Design Project using above technologies which suit for Desktop and Laptop computer screen only.	Unit IV CSS - Page Layout Case Study: Select any topic of your interest and Design Project using above technologies which suit for Desktop and Laptop computer screen only.		



B.C.A III Sem-V	Programm	Unit-I INTRODUCTION TO PYTHON Installation, Spyder IDE, Python Interpreter, History Of Python, Python Features, Applications Of Python, Data Types, Types Of Operators, Operators Precedence, Expressions, Statements, Functions, Comment, Strings - Accessing Values In Strings, Updating Strings, Escape Characters, Built-In String Methods, User Input	Unit-I INTRODUCTION TO PYTHON Installation, Spyder IDE, Python Interpreter, History Of Python, Python Features, Applications Of Python, Data Types, Types Of Operators, Operators Precedence, Expressions, Statements, Functions, Comment, Strings - Accessing Values In Strings, Updating Strings, Escape Characters, Built-In String Methods, User Input	
		Unit II CONTROL FLOW AND LOOPS Conditionals: Boolean Values And Operators, Conditional (If), Alternative (If-Else), Chained Conditional (If-Elif-Else) Looping-While Loop, The Infinite Loop, For Loop, Iterating BySequence Index, Using Else Statement With Loops, Nested Loops, Break, Continue & Pass Statement. Functions: Function With Arguments, Lambda Functions	Unit II CONTROL FLOW AND LOOPS Conditionals: Boolean Values And Operators, Conditional (If), Alternative (If-Else), Chained Conditional (If-Elif-Else) Looping-While Loop, The Infinite Loop, For Loop, Iterating BySequence Index, Using Else Statement With Loops, Nested Loops, Break, Continue & Pass Statement. Functions: Function With Arguments, Lambda Functions	
ESTD JUNE 1964	O WAPUR - CONTROL OF THE PROPERTY OF THE PROPE	Unit-III LISTS, TUPLES, DICTIONARIES AND SET Lists-Create a List, Get and Set Items ,Add and Remove Items, List Slices, Different List Methods TUPLES - Creation and Accessing Values, Updating Tuples, Deleting Tuple Elements, Basic Tuples Operations, Indexing, Slicing DICTIONARYAccessing Values in Dictionary, Updating Dictionary, Delete Dictionary Elements, Properties of Dictionary Keys, BuiltInDictionary Functions and Methods. SETS -Concept of Sets, Creating, Initializing and Accessing the Elements, Set	Unit-III LISTS, TUPLES, DICTIONARIES AND SET Lists-Create a List, Get and Set Items, Add and Remove Items, List Slices, Different List Methods TUPLES - Creation and Accessing Values, Updating Tuples, Deleting Tuple Elements, Basic Tuples Operations, Indexing, Slicing DICTIONARYAccessing Values in Dictionary, Updating Dictionary, Delete Dictionary Elements, Properties of Dictionary Keys, BuiltInDictionary Functions and Methods. SETS -Concept of Sets, Creating, Initializing and Accessing the Elements, Sets Operation	

Unit-IV
MODULES, FILES I/O,GUI The Import
Statement, Modules (Datetime, Calendar,
Math Module) Files I/O: Text Files, Reading
And Writing Files Introduction To GUI In
Python

Unit-IV
MODULES, FILES I/O, GUI The Import
Statement, Modules (Datetime, Calendar,
Math Module) Files I/O: Text Files, Reading
And Writing Files Introduction To GUI In
Python

(Signature of the Head of Department)

(Signature of the Teacher)

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DEPARTMENT OF B. C. A.
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Term- Ist

Name of teacher- Miss. Shivani Subhash Kagale

Department- BCA

Class	Subject	er- Miss. Shivani Subhash Kagale Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Remark
B.C.A I Sem-I (NEP)	Fundamental of Computers	Module I Introduction to C: Algorithms, advantages and disadvantages, Flowchart, characterset, identifiers, variables, constants, keyword, tokens, data types	Introduction to C: Algorithms, advantages and disadvantages, Flowchart, characterset, identifiers, variables, constants, keyword, tokens, data types		
		Module II Operators: Arithmetic, relational, logical, assignment, bitwise, increment/decrement, Comments-types of comments, header files (conio, stdio, string, math). Structure of C Program, Input and Output Functions	Module II Operators: Arithmetic, relational, logical, assignment, bitwise, increment/decrement, Comments-types of comments, header files (conio, stdio, string, math). Structure of C Program, Input and Output Functions		
	COLLEGE	Module III Control Structure: Conditional statements: if, If-else nested if-else, switch statement. Loops: while, for, doWhile loop, Unconditional statements: Break, continue, exit, goto statements	Module III Control Structure: Conditional statements: if, If-else nested if-else, switch statement. Loops: while, for, doWhile loop, Unconditional statements: Break, continue, exit, goto statements		
Separal Wheel	ESTD JUNE 1964	Module IV Array and String: Arrays- Meaning and definition, Declaration, Initialization and types of arrays (single and multidimensional arrays). Strings: Meaning and definition, Declaration, Initialization String functions strlen(), strrev(), strlwr(), strupr(), streat(), stremp(), strepy().	and multidimensional arrays). Strings: Meaning and definition, Declaration, Initialization String functions strlen(), strrev(), strlwr(), strupr(), strcat(), strcmp(), strcpy().		31 2 C
B.C.A II Sem- III	Object Oriented Programming with C++	Module I Principles of Objective Oriented Programming History of OOP, Introduction to Object Oriented Programming, Basic Concepts of Object Oriented Programming, Benefits of Object Oriented	Module I Principles of Objective Oriented Programming History of OOP, Introduction to Object Oriented Programming, Basic Concepts of Object Oriented Programming, Benefits of Object Oriented		

	Difference between C and C++.	Difference between C and C++.		
	Beginning with C++: Tokens, Keywords,	Beginning with C++: Tokens, Keywords,	- 1	11.4
	Identifiers and Constants, Data Types, Type	Identifiers and Constants, Data Types, Type		
The Part of the Pa	Compatibility, Variables, Operators in C++,	Compatibility, Variables, Operators in C++,		
	Operator Precedence, Control	Operator Precedence, Control		. = 1111
	Structures (Conditional, Unconditional and	Structures (Conditional, Unconditional and		
	Looping).	Looping).		
	Module II Functions in C++, Classes &	Module II Functions in C++, Classes &		
240	Objects:	Objects:		
1	Concept of Function, main() Function, Inline	Concept of Function, main() Function, Inline		
	Functions, Function	Functions, Function		
9 0	Overloading, Specifying a Class, Data members	Overloading, Specifying a Class, Data members		
	and Member Functions,	and Member Functions,		
	Access Specifiers, Friend Function, Static data	Access Specifiers, Friend Function, Static data		1
	Member, Object declaration	Member, Object declaration		
	and Initialization, Arrays of Objects	and Initialization, Arrays of Objects		
4				
Tra I	Constructors & Constr	Constructors & Constructors, Inheritance		100
21	Constructors-Definition, Use of Constructors,	Constructors-Definition, Use of Constructors,		
	Types of Constructors	Types of Constructors		
	(Default, Parameterized, Copy, Dynamic),	(Default, Parameterized, Copy, Dynamic),		
	Destructors-Definition, Use,	Destructors-Definition, Use,		
	Inheritance-Definition, Types of Inheritance	Inheritance-Definition, Types of Inheritance		
	(Single, Multiple, Multilevel,	(Single, Multiple, Multilevel,		
OULEGE	Hierarchical, Hybrid)	Hierarchical, Hybrid)		
ESTD JUNE 1964 1964	Module III Pointers Virtual Functions &	Module III Pointers Virtual Functions &		
S ESTD \\$	Polymorphism:	Polymorphism:	100	
STD JUNE	Pointer, Pointer to Object, this pointer, Pointer to	Pointer, Pointer to Object, this pointer, Pointer		
1964	Derived Classes,	to Derived Classes,	20	
The state of the s	Polymorphism: Meaning, compile Time and Run	Polymorphism: Meaning, compile Time and	•••••	
Wered Autono	time polymorphism,	Run time polymorphism,		
	Rules for Operator Overloading, Operator	Rules for Operator Overloading, Operator		V.
1	Overloading (Unary & Dinary)-	Overloading (Unary & Dinary)-		
	with member function and friend function.	with member function and friend function.		
	Module IV Working with Files	Module IV Working with Files		
	File-Definition, Use, Classes for File Stream	File-Definition, Use, Classes for File Stream		1.2
	Operations, Opening and	Operations, Opening and		1
1.0	Closing a File, File Opening Modes, File Pointers,	Closing a File, File Opening Modes, File		1
	Manipulation of File	Pointers, Manipulation of File	******	1
1	Pointer(using-seekg,seekp,tellg,tellp), Input	Pointer(using-seekg,seekp,tellg,tellp), Input		1
	Output Operations- get () Put	Output Operations- get () Put		1:
A 10		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

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II Sem- IV	Engineering	approach, Need of engineering aspect for Software Design, SDLC, Software Crisis, Software Process, Process models (Classical Waterfall Model, Build-n- Fix Model, Iterative Waterfall Model, Prototyping Model, Evolutionary Model and Spiral Model)	approach, Need of engineering aspect for Software Design, SDLC, Software Crisis, Software Process, Process models (Classical Waterfall Model, Build-n- Fix Model, Iterative Waterfall Model, Prototyping Model, Evolutionary Model and Spiral Model)		E 8
		Module II Software Requirement Analysis and Specifications: Software Requirement Specifications, Need of SRS, Steps for constructing good SRS, Behavioral and Non-Behavioral requirements, Analysis Model	Module II Software Requirement Analysis and Specifications: Software Requirement Specifications, Need of SRS, Steps for constructing good SRS, Behavioral and Non-Behavioral requirements, Analysis Model		
		Module III Software Design: Design Concepts & Design Concepts & Design; Principle, problem partitioning, abstraction, and top down and bottom up-design, Cohesion & Design, Coupling, How to measure degree of Cohesion and Coupling, Function Oriented Design, DFDs, Structure Chart, Object Oriented Design.	Module III Software Design: Design Concepts & Design: Design Concepts & Design: Design partitioning, abstraction, and top down and bottom updesign, Cohesion & Design, Cohesion & Design, Cohesion Oriented Design, DFDs, Structure Chart, Object Oriented Design.	8	
		Module IV Software Testing: Validation and Verification, Black Box testing approach, White Box testing approach, Levels of testing: Unit Testing, Integration Testing, Validation testing, System testing and debugging. Software Maintenance: Software Maintenance Process and its types.	Module IV Software Testing: Validation and Verification, Black Box testing approach, White Box testing approach, Levels of testing: Unit Testing, Integration Testing, Validation testing, System testing and debugging. Software Maintenance: Software Maintenance Process and its types.		

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DEPARTMENT OF B. C. A.
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS) STATEMENT OF SYLLABUS COVERED

Year- 2023-24 Name of teacher- Miss Pratiksha Prakash Deshmukh Term-1st Department-BCA

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Rema rk
B.C.A- I Sem-I	Basics of Web Technology	Module I Introduction to HTML-5: What is HTML-5, Basic Tags, Structure, Layout, Web Development Process Overview of HTML Tags, Formatting Tags, Headings(H1-H6), Tags and Attributes, Paragraph Tag, FONT Tag	Module I Introduction to HTML-5: What is HTML-5, Basic Tags, Structure, Layout, Web Development Process Overview of HTML Tags, Formatting Tags, Headings(H1-H6), Tags and Attributes, Paragraph Tag, FONT Tag		
S JUNETH S J	STD INE 164	Module II List Tags: Ordered and Unordered Tags, Hyperlink, <hr/> <marquee> Tags, Image Tag with all attributes, Image and Image map. <table> </table> tag with all attributes<form> tag,Examples and case studies based on all tags.</form></marquee>	Module II List Tags: Ordered and Unordered Tags, Hyperlink, <hr/> <marquee> Tags, Image Tag with all attributes, Image and Image map. <table> </table> tag with all attributes<form> tag,Examples and case studies based on all tags.</form></marquee>	3	F = 02
Wered	Autonomo	Module III Basic of CSS Introduction to CSS, CSS Basics, Syntax / Rule of CSS, Selectors, properties and values, Applying CSS to HTML tags, Types: Internal, Inline, External CSS with Properties	Module III Basic of CSS Introduction to CSS, CSS Basics, Syntax / Rule of CSS, Selectors, properties and values, Applying CSS to HTML tags, Types: Internal, Inline, External CSS with Properties		
		Module IV CSS - Page Layout Case Study: Select any topic of your interest and Design Project using above technologies	Module IV CSS - Page Layout Case Study: Select any topic of your interest and Design Project using above technologies		



		screen only.Case Study: Select any topic of your interest and Design Project using above technologies which suit for Desktop and Laptop computer screen only.	screen only.Case Study: Select any topic of your interest and Design Project using above technologies which suit for Desktop and Laptop computer screen only.	
B.C.A- II Sem-III	Object Oriented Programmi ng with C++	Module-I: Principles of Objective Oriented Programming History of OOP, Introduction to Object Oriented Programming, Basic Concepts of Object Oriented Programming, Benefits of Object Oriented Programming, Object Oriented Languages, Difference between C and C++. Beginning with C++ Tokens, Keywords, Identifiers and Constants, Data Types, Type Compatibility, Variables, Operators in C++, Operator Precedence, Control Structures (Conditional, Unconditional and Looping).	Module-I Principles of Objective Oriented Programming History of OOP, Introduction to Object Oriented Programming, Basic Concepts of Object Oriented Programming, Benefits of Object Oriented Programming, Object Oriented Languages, Difference between C and C++. Beginning with C++ Tokens, Keywords, Identifiers and Constants, Data Types, Type Compatibility, Variables, Operators in C++, Operator Precedence, Control Structures (Conditional, Unconditional and Looping).	
ES JU 19	TD WAPUR 1664	Module II: Functions in C++, Classes & Objects Concept of Function, main() Function, Inline Functions, Function Overloading, Specifying a Class, Data members and Member Functions, Access Specifiers, Friend Function, Static data Member, Object declaration and Initialization, Arrays of Objects Constructors & Destructors, Inheritance Constructors-Definition, Use of Constructors, Types of Constructors (Default, Parameterized, Copy, Dynamic), Destructors-Definition, Use, Inheritance-Definition, Types of Inheritance (Single, Multiple, Multilevel, Hierarchical, Hybrid)	Module II Functions in C++, Classes & Objects Concept of Function, main() Function, Inline Functions, Function Overloading, Specifying a Class, Data members and Member Functions, Access Specifiers, Friend Function, Static data Member, Object declaration and Initialization, Arrays of Objects Constructors & Destructors, Inheritance Constructors-Definition, Use of Constructors, Types of Constructors (Default, Parameterized, Copy, Dynamic), Destructors-Definition, Use, Inheritance-Definition, Types of Inheritance (Single, Multiple, Multilevel, Hierarchical, Hybrid)	
		Module III: Pointers, Virtual Functions &Polymorphism Pointer, Pointer to Object, this pointer, Pointer to Derived Classes, Polymorphism: Meaning, compile Time and Run time polymorphism, Rules for Operator Overloading, Operator Overloading (Unary & Binary)-with member function and friend function.	Module III: Pointers, Virtual Functions &Polymorphism Pointer, Pointer to Object, this pointer, Pointer to Derived Classes, Polymorphism: Meaning, compile Time and Run time polymorphism, Rules for Operator Overloading, Operator Overloading (Unary & Binary)-with member function and friend function.	

Module – IV Working with Files File-Definition, Use, Classes for File Stream Operations, Opening and Closing a File, File Opening Modes, File Pointers, Manipulation of File Pointer(using-seekg,seekp,tellg,tellp), Input Output Operations- get () Put (), read () Write ().

Module - Working with Files
File-Definition, Use, Classes for File Stream
Operations, Opening and Closing a File, File
Opening Modes, File Pointers, Manipulation of File
Pointer(using-seekg,seekp,tellg,tellp), Input Output
Operations- get () Put (), read () Write ().

HEAD
DEPARTMENT OF B. C. A.
VIVEKANAND COLLEGE, KOLHAPUP
(EMPOWERED AUTONOMO!!"

(Signature of the Head of Department)

(Signature of the Teacher)



GHOROGERALIV CONSTRUCT

Year- 2023-24

Term- Ist Department- BCA

Name of teacher- Miss. Rutuja Mansing Desai

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	1
B.C,A I Sem-I (NEP)	Statistics-	 Unit-IIntroduction 1.1. Definition and concept Statistics, Population and Sample: Concept of statistical population with illustrations, concept of sample with illustrations. 1.2. Methods of sampling: Simple Random Sampling and Stratified Random sampling (description only). 1.3. Data Condensation: Raw data Attributes and variables, discrete and continuous variables, classification and construction frequency distribution. 1.4. Graphical Representation: Histogram, Frequency polygon, Frequency curve, Ogive curves and their uses. 1.5. Examples and Problems. 	Unit-1Introduction 1.1. Definition and concept Statistics, 1.2. Population and Sample: Concept of statistical population with illustrations, concept of sample with illustrations. 1.3. Methods of sampling: Simple Random Sampling and Stratified Random sampling (description only). 1.4. Data Condensation: Raw data Attributes and variables, discrete and continuous variables, classification and construction frequency distribution. 1.5. Graphical Representation: Histogram, Frequency polygon, Frequency curve, Ogive curves and their uses. 1.5. Examples and Problems.	*****	
TD NE 64		Unit-2Measure of Central Tendency 2.1 Concept of central tendency, Criteria for good measures of central tendency. 2.2 Arithmetic mean: Definition, computation for ungrouped and grouped data, Combined mean, weighted mean, merits and demerits. 2.3 Median: Definition, computation for ungrouped and grouped data, Graphical	Unit-2Measure of Central Tendency 2.1 Concept of central tendency, Criteria for good measures of central tendency. 2.2 Arithmetic mean: Definition, computation for ungrouped and grouped data, Combined mean, weighted mean, merits and demerits. 2.3 Median: Definition, computation for ungrouped and grouped data, Graphical		

	method, merits and demerits.	method, merits and demerits.	~T	
	2.4 Mode: Definition, computation for ungrouped and grouped data, graphical Method, merits and demerits.	2.4 Mode: Definition, computation for ungrouped and grouped data, graphical Method, merits and demerits.		
9	Quartiles: Definition, computation for ungrouped and grouped data graphical method.	 Quartiles: Definition, computation for ungrouped and grouped data graphical method. 		
3	2.6 Numerical problems.	2.6 Numerical problems.		- 32
	Unit-3 Measures of dispersion	Unit-3 Measures of dispersion		
	3.1 Concept of dispersion and measures of dispersion, absolute and relative measures of dispersion.	3.1 Concept of dispersion and measures of dispersion, absolute and relative measures of dispersion.		
	3.2 Range and Quartile Deviation: definition for ungrouped and grouped data, and their coefficients, merits and demerits.	3.2 Range and Quartile Deviation: definition for ungrouped and grouped data, and their coefficients, merits and demerits.		
	3.3 Mean Deviation: Definition for ungrouped and grouped data, minimal property (statement only).	3.3 Mean Deviation: Definition for ungrouped and grouped data, minimal property (statement only).		
13.001	3.4 Standard deviation and Variance: definition for ungrouped and grouped data, coefficient of variation, combined variance and s. d. for two groups, merits and demerits.	3.4 Standard deviation and Variance: definition for ungrouped and grouped data, coefficient of variation, combined variance and s. d. for two groups, merits and demerits.		
	3.5 Numerical problems	3.5 Numerical problems		1
COLLEGE	Unit-4 Correlation (for ungrouped data)	Unit-4 Correlation (for ungrouped data)	-	-
ESTD JUNE 1964	4.1 Concept of bivariate data, scatter diagram. Concept of correlation, positive correlation, negative correlation, cause and effect relation.	4.1 Concept of bivariate data, scatter diagram. Concept of correlation, positive correlation, negative correlation, cause and effect relation.		
Powered Autonomin	4.2 Karl Pearson's coefficient of correlation, properties of correlation coefficient, interpretation of correlation	4.2 Karl Pearson's coefficient of correlation, properties of correlation coefficient, interpretation of correlation		

coefficient.	coefficient.	
4.3 Spearman's Rank Correlation coefficient (formula with and without ties). Regression (for ungrouped data): 4.4 Concept of regression. Derivation of lines of regression by method of least squares.	4.3 Spearman's Rank Correlation coefficient (formula with and without ties). Regression (for ungrouped data): 4.4 Concept of regression. Derivation of lines of regression by method of least squares.	
4.5 Regression coefficients and their significance. Properties of regression coefficients.	4.5 Regression coefficients and their significance. Properties of regression coefficients.	
4.6 Point of intersection and acute angle between regression lines (without proof). 4.7 Numerical problems.	4.6 Point of intersection and acute angle between regression lines (without proof). 4.7 Numerical problems.	

DEPARTMENT OF B. C. A.
VIVEXANAND COLLEGE, XOLHAPOR
(EMPOWERED AUTOHOMOUS)



VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Name of teacher:- Suraj Shinde

Term- Ist

Department:- BCA

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Remark
B.C.A I Sem-I (NEP)	Mathematics-	Unit 1:- Set and Relation 1.1 Meaning of Set. 1.2 Method of describing of a set: Tabular form, Set-builder form 1.3 Types of sets	Unit 1: Set and Relation 1.1 Meaning of Set. 1.2 Method of describing of a set: Tabular form, Set-builder form 1.3 Types of sets		
Se Sousal * VIVEACH	STD IUNE 1964	1.4 Operation on sets: Union of sets, Intersection of sets, Difference of sets. 1.5 De Morgan's laws 1.6 Venn Diagram. 1.7 Cartesian product of two sets. 1.8 Idempotent laws, Identity laws, Commutative laws, Associative laws, Distributive laws, Inverse laws, Domination laws, Absorption laws, Involution laws. 1.9 Examples based on above 1.10 Definition of Relation, Domain, Codomain and Range of Relation	1.4 Operation on sets: Union of sets, Intersection of sets, Difference of sets. 1.5 De Morgan's laws 1.6 Venn Diagram. 1.7 Cartesian product of two sets. 1.8 Idempotent laws, Identity laws, Commutative laws, Associative laws, Distributive laws, Inverse laws, Domination laws, Absorption laws, Involution laws. 1.9 Examples based on above 1.10 Definition of Relation, Domain, Co-domain and Range of Relation		
	2	Unit2-Function 2.1 Definition of Function. 2.2 Types of Function 2.3 Representation of Function. 2.4 Algebra of Function. 2.5 Inverse function method, merits and demerits.	Unit2-Function 2.1 Definition of Function. 2.2 Types of Function 2.3 Representation of Function. 2.4 Algebra of Function. 2.5 Inverse function method, merits and demerits.		



W COLLEGE L	Unit-3 Matrices 3.1 Meaning of Matrix, Order of Matrix. 3.2 Types of matrices 3.3 Definition of Determinants of order 2nd and 3rd and theire Examples. 3.4 Singular and Non-Singular Matrices 3.5 Algebra of matrices: 3.5.1 Equality of matrices 3.5.2 Scalar Multiplication of matrix 3.5.3 Addition of matrices, Subtraction of matrices	Unit-3 Matrices 3.1 Meaning of Matrix, Order of Matrix. 3.2 Types of matrices 3.3 Definition of Determinants of order 2nd and 3rd and theire Examples. 3.4 Singular and Non-Singular Matrices 3.5 Algebra of matrices: 3.5.1 Equality of matrices 3.5.2 Scalar Multiplication of matrix 3.5.3 Addition of matrices, Subtraction of matrices	
STD JUNE 1984 1984	3.5.4 Multiplication of matrices Unit-4 Matrix Inversion 4.1 Elementary Transformations 4.2 Inverse Matrix 4.3 Elementary Transformation method 4.3.1Adjoint Method 4.3.2Application of matrices 4.4 Method of Inversion 4.5 Method of Reduction coefficient.	3.5.4 Multiplication of matrices Unit-4 Matrix Inversion 4.1 Elementary Transformations 4.2 Inverse Matrix 4.3 Elementary Transformation method 4.3.1Adjoint Method 4.3.2Application of matrices 4.4 Method of Inversion 4.5 Method of Reduction coefficient.	

DEPARTMENT OF B. C. A.

VEKANAND COLLEGE, KOLHAFAR
EMPOWERED AUTONOMOUS)

VIVEKANAND COLLEGE, KOLHAPUR(AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Term- IIst

Name of teacher- Miss. Vaishali Durgaram Patil Department- BCA

Clas	s Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Remark
B.C./ I Sem- II	Accounting	Module -I -Trial balance Meaning, Definition, Importance and features ,preparation of trial balance	Module –I -Trial balance Meaning, Definition, Importance and features ,preparation of trial balance	*******	
		Module- II-Final Accounts Introduction, objective of final accounts ,adjustments before preparation of final accounts, preparation of trading account ,profit and loss account and balance sheet	Module- II-Final Accounts Introduction, objective of final accounts ,adjustments before preparation of final accounts, preparation of trading account ,profit and loss account and balance sheet		6
Sanday . VIVERAN	ESTD WAPUR 1964	Module – III- Introduction to Tally Tally history and journey, difference between manual accounting v?s computerized accounting Tally, features of tally. Fundamentals- Company Data – Gateway of Tally, Creating and Maintaining a Company. Voucher Entry, Inventory- Stock Groups, Stock Items	Module – III- Introduction to Tally Tally history and journey, difference between manual accounting v?s computerized accounting Tally, features of tally. Fundamentals- Company Data – Gateway of Tally, Creating and Maintaining a Company. Voucher Entry, Inventory- Stock Groups, Stock Items		
		Module- IV-Report Profit and Loss A/C, Balance Sheet, Interest Calculations, Statutory Master-VAT, Inventory report, Day Book, Use of Reports in Business	Module- IV-Report Profit and Loss A/C, Balance Sheet, Interest Calculations, Statutory Master-VAT, Inventory report, Day Book, Use of Reports in Business		
B.C.A I Sem- II	Principles of Management	Module- I -Directing Introduction, meaning of Directing, Importance and Principles of Directing	Module- I -Directing Introduction, meaning of Directing, Importance and Principles of Directing		
		Module- II -Motivation Theories of motivation -Maslow's Hierarchy Theory, Herzberg's theory & Theory X & Y	Module- II -Motivation Theories of motivation -Maslow's Hierarchy Theory, Herzberg's theory & Theory X & Y	¥	



4		Qualities of Leadership & Types of Leaders.	Qualities of Leadership & Types of Leaders.	
		Module- IV - Controlling Meaning, Importance, Steps in Control Process, Types of controlFeed forward control, Concurrent control & feedback control, Techniques of control.	Module- IV - Controlling Meaning, Importance, Steps in Control Process, Types of controlFeed forward control, Concurrent control & feedback control, Techniques of control.	
S.C.A II Sem- IV	Principles of Marketing	Module-I- Introduction: Meaning, & definition of Marketing, features of Marketing, Significance of marketing, core concepts of Marketing- Need, Want, Demand, Value, Satisfaction, exchange, transaction & relationship. Modern Marketing concept, holistic marketing & green marketing. Marketing in 21st Century- Challenges & opportunities	Module-I- Introduction: Meaning, & definition of Marketing, features of Marketing, Significance of marketing, core concepts of Marketing- Need, Want, Demand, Value, Satisfaction, exchange, transaction & relationship. Modern Marketing concept, holistic marketing & green marketing. Marketing in 21st Century- Challenges & opportunities	
	*	Module- II -A) Distribution Marketing Management: Introduction, Need for Marketing Channels, Decision involved in setting up the channels, Channel Management strategy B) Consumer Behaviour: Meaning & significance of consumer behaviour, factors affecting consumer behaviour.	Module- II -A) Distribution Marketing Management: Introduction, Need for Marketing Channels, Decision involved in setting up the channels, Channel Management strategy B) Consumer Behaviour: Meaning & significance of consumer behaviour, factors affecting consumer behaviour.	
1121	ESTD JUNE 1964	Module-III- Environmental analysis and Marketing Mix: - Elements in Macro & Micro environment, Analysis of their impact on Marketing function of an organization Marketing Mix-meaning, definition, elements of marketing mix	Module-III- Environmental analysis and Marketing Mix: - Elements in Macro & Micro environment, Analysis of their impact on Marketing function of an organization Marketing Mix-meaning, definition, elements of marketing mix	
100	Pred Autonomod	Module- IV-A) Marketing of Services- Meaning, Characteristics of services, problems in services Marketing, Outsourcing of I.T. services. B)E- Marketing: Concept & techniques, significance of e-Marketing in 21st Century	Module- IV-A) Marketing of Services- Meaning, Characteristics of services, problems in services Marketing, Outsourcing of I.T. services. B)E- Marketing: Concept & techniques, significance of e-Marketing in 21st Century	

. III Sem-VI	Commerce	Introduction, meaning and definition of E-Commerce, Brief history of ECommerce, Need of Ecommerce, Advantages and limitations of e-commerce, Role of ecommerce in industries, Requirements of E-Commerce, Scope of E-Commerce, E-commerce Models(B2B,B2C,C2B,C2C,B2G,G2B)	Introduction, meaning and definition of E-Commerce, Brief history of ECommerce, Need of Ecommerce, Advantages and limitations of e-commerce, Role of ecommerce in industries, Requirements of E-Commerce, Scope of E - Commerce, , E-commerce Models(B2B,B2C,C2B,C2C,B2G,G2B)	
		Module – II- Mobile Commerce Introduction, scope of mobile—commerce, applications of m-commerce, . Principles of mobile commerce, benefits of mobile commerce, limitations of mobile commerce, E-commerce vs. M-commerceReal time examples of IoT, Advantages of IoT, Challenges of IoT.	Module – II- Mobile Commerce Introduction, scope of mobile—commerce, applications of m-commerce, . Principles of mobile commerce, benefits of mobile commerce, limitations of mobile commerce, E-commerce vs. M-commerceReal time examples of IoT, Advantages of IoT, Challenges of IoT.	
		Module- III- Mobile Commerce: Theory and Applications The Ecology Of Mobile Commerce – The Wireless Application Protocol – Mobile Business Services – Mobile Portal – Factors Influencing The Adoption of Mobile Gaming Services – Mobile Data Technologies And Small Business Adoption And Diffusion – E-commerce in The Automotive Industry – Location– Based Services: Criteria For Adoption And Solution Deployment – The Role of Mobile Advertising In Building A Brand – M-commerce Business Models	Module- III- Mobile Commerce: Theory and Applications The Ecology Of Mobile Commerce – The Wireless Application Protocol – Mobile Business Services – Mobile Portal – Factors Influencing The Adoption of Mobile Gaming Services – Mobile Data Technologies And Small Business Adoption And Diffusion – E-commerce in The Automotive Industry – Location – Based Services: Criteria For Adoption And Solution Deployment – The Role of Mobile Advertising In Building A Brand – M-commerce Business Models	
		Module – IV -Mobile Commerce Security Introduction to Web security, Security threats in M-commerce, Control measures in mobile commerce. (Firewalls & Transaction Security. Multilevel authentications) Security Challenges in M –Commerce	Module – IV -Mobile Commerce Security Introduction to Web security, Security threats in M-commerce, Control measures in mobile commerce. (Firewalls & Transaction Security. Multilevel authentications) Security Challenges in M –Commerce	·····

(Signature of the Head of Department)

DEPARTMENT OF B. C. A.

VIVENUM COLLEGE, KOLHAPUR





VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS) STATEMENT OF SYLLABUS COVERED Term IInd

Year- 2023-24 Name of teacher- Mr. Mehul Arun Jadhav

Department- BCA

B.C.A I Sem-II	Advvance Web Technology	Unit I Introduction to JavaScript Overview, Client-Side JavaScript, Advantages of JavaScript, Limitations of JavaScript, Syntax:- First JavaScript Code, Java Script	Unit I Introduction to JavaScript Overview, Client-Side JavaScript, Advantages of JavaScript, Limitations of JavaScript, Syntax:- First JavaScript Code, Java Script	
		Unit II Java Script Variables, Data types, Variables, Operators:- Reserve words ,Control statements, Loops, Function:-Function Definition.	Unit II Java Script Variables, Data types, Variables, Operators:- Reserve words ,Control statements, Loops, Function:-Function Definition.	
AMU COL	EGE AQUE	Unit III Events in JavaScript &DOM: What is an Event?, onclick Event Type, onsubmit Event Type, onmouseover and onmouseout, Standard Events, Dialog Box: Alert Dialog Box, Confirmation Dialog Box, Prompt Dialog Box.	Unit III Events in JavaScript &DOM: What is an Event?, onclick Event Type, onsubmit Event Type, onmouseover and onmouseout, Standard Events, Dialog Box; Alert Dialog Box, Confirmation Dialog Box, Prompt Dialog Box.	
JUI 196	PPUR SUN	Unit IV JAVA Script Objects Object Properties, Object Methods, User- Defined Objects, Defining Methods for an Object DOM (Document Object Model), Array, String, Form Validation:- Basic Form Validation.	Unit IV JAVA Script Objects Object Properties, Object Methods, User- Defined Objects, Defining Methods for an Object DOM (Document Object Model), Array, String,	
B.C.A III Sem-VI	Android Programm ing	Module I Introduction to Mobile Operating System Mobile operating system, Operating system structure, Constraints and Restrictions, Features: Multitasking Scheduling, Memory Allocation, File System Interface, Keypad Interface, I/O Interface, Protection and	Module I Introduction to Mobile Operating System Mobile operating system, Operating system structure, Constraints and Restrictions, Features: Multitasking Scheduling, Memory Allocation, File System Interface, Keypad Interface, I/O Interface, Protection and Security, Multimedia	

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 Security, Multimedia features. Brief history of Android, Different types of mobile applications	features. Brief history of Android, Different types of mobile applications	
Module II Android Development Environment Introduction to Mobile development IDE's, Setting up development environment, Android Software Development, Working with the AndroidManifest.xml, Dalvik Virtual Machine & .apk file extension, Android Architecture, Building a sample Android application using Android Studio. Android Project Structure, Working with emulator	Module II Android Development Environment Introduction to Mobile development IDE's, Setting up development environment, Android Software Development, Working with the AndroidManifest.xml, Dalvik Virtual Machine & .apk file extension, Android Architecture, Building a sample Android application using Android Studio. Android Project Structure, Working with emulator	
Module III Android Application Framework Layouts &Drawable Resources, Basic Building blocks - Activities and Activity lifecycle, UI Components - Views & Notifications, Components for communication -Intents & type of Intents, Android API levels (versions & version names), Developing sample Application	Module III Android Application Framework Layouts &Drawable Resources, Basic Building blocks - Activities and Activity lifecycle, UI Components - Views & Notifications, Components for communication -Intents & type of Intents, Android API levels (versions & version names), Developing sample Application	
Module IV Basic UI design Form widgets, Text Fields, Layouts, Option menu, Context menu, Sub menu, Time and Date, Images and media, Composite, Alert Dialogs & Toast, Popup, Introduction to SQLite Programming, SQLite Database.	Module IV Basic UI design Form widgets, Text Fields, Layouts, Option menu, Context menu, Sub menu, Time and Date, Images and media, Composite, Alert Dialogs & Toast, Popup, Introduction to SQLite Programming, SQLite Database.	

DEPARTMENT OF B. C. A.
VIVEKANAND COLLEGE, KOLHAPUR
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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS) STATEMENT OF SYLLABUS COVERED

Year- 2023-24 Name of teacher- Mr. Sumedrao Manikrao Gaikwad Term IInd Department- BCA

B.C.A I Sem-II	Advvance Web Technology	Unit I Introduction to JavaScript Overview, Client-Side JavaScript, Advantages of JavaScript, Limitations of JavaScript, Syntax:- First JavaScript Code, Java Script	Unit I Introduction to JavaScript Overview, Client-Side JavaScript, Advantages of JavaScript, Limitations of JavaScript, Syntax:- First JavaScript Code, Java Script		
		Unit II Java Script Variables, Data types, Variables, Operators:- Reserve words ,Control statements, Loops, Function:- Function Definition.	Unit II Java Script Variables, Data types, Variables, Operators:- Reserve words ,Control statements, Loops, Function:-Function Definition.		120
ESTD JUNE 1964	WAPUR.	Unit III Events in JavaScript &DOM: What is an Event?, onclick Event Type, onsubmit Event Type, onmouseover and onmouseout, Standard Events, Dialog Box:-Alert Dialog Box, Confirmation Dialog Box, Prompt Dialog Box.	Unit III Events in JavaScript &DOM: What is an Event?, onclick Event Type, onsubmit Event Type, onmouseover and onmouseout, Standard Events, Dialog Box:Alert Dialog Box, Confirmation Dialog Box, Prompt Dialog Box.		No.
by seed Autonomic		Unit IV JAVA Script Objects Object Properties, Object Methods, User- Defined Objects, Defining Methods for an Object DOM (Document Object Model), Array, String, Form Validation:- Basic Form Validation.	Unit IV JAVA Script Objects Object Properties, Object Methods, User- Defined Objects, Defining Methods for an Object DOM (Document Object Model), Array, String, Form Validation:- Basic Form Validation.		
B.C.A II Sem-IV	Data Structure Using C++	Module I :Introduction to data structures Introduction to Array, Introduction to Data Structures, Concept of Abstract Data types, Array as ADT, Data structures and its types, Data structures operations	Module I :Introduction to data structures Introduction to Array, Introduction to Data Structures, Concept of Abstract Data types, Array as ADT, Data structures and its types, Data structures operations	********	

Module II Searching and Sorting and Methods Introduction to Searching and Sorting, Searching: Linear search, Binary search and hashing, Sorting: Bubble Sort, Insertion sort, Selection sort, Merge sort,	Module II Searching and Sorting and Methods Introduction to Searching and Sorting, Searching: Linear search, Binary search and hashing, Sorting: Bubble Sort, Insertion sort, Selection sort, Merge sort,	
Module III Stacks and Queues Introduction to stack, Primitive Stack operations: Push & Pop, Array and Linked Implementation of Stack in C++, Application of stack: Prefix and Postfix Expressions Evaluation, Definition of queue, Operations on queue, Types of queue-Linear, Circular, Applications of queue	Module III Stacks and Queues Introduction to stack, Primitive Stack operations: Push & Pop, Array and Linked Implementation of Stack in C++, Application of stack: Prefix and Postfix Expressions Evaluation, Definition of queue, Operations on queue, Types of queue-Linear, Circular, Applications of queue	
Module IV Linked Lists and Trees Introduction to Pointer, Introduction to linked lists, Implementation of Linked list, Types of Linked List: Singly, Doubly and Circular, Operations on linear linked list: Traversal, Insertion, Deletion, Searching Trees:definition, terminologies, representation, types, Tree Traversal- (Preorder, Inorder, Postorder)	Postordor	

JUNE

(Signature of the Head of Department)

HEAD DEPARTMENT OF B. C. A. VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)



VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS) STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Name of teacher- Miss. Shivani Subhash Kagale

Term- IInd Department- BCA

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Remark
B.C.A I Sem- II (NEP)	Programming in C- II	Module I User defined functions and pointer: Form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments, functions with array.	Module I User defined functions and pointer: Form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments, functions with array.	•••••	
		Module II Pointers: Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation-malloc(),calloc(),realloc().	Module II Pointers: Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation-malloc(),calloc(),realloc().	*****	
WANTED DE TO	STD INE	Module III Structures and Unions: Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.	Module III Structures and Unions: Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.	•••••	
Ennowered	Autonomous	Module IV File Handling: Defining and opening a file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind().	Module IV File Handling: Defining and opening a file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind().		
B.C.A II Sem- IV	Advance Web Technology	Module I HTML Forms: Overview of HTML5 and Revision on FORMS,CSS, Inserting Image, Creating websites, Hyperlinks, <div> tag</div>	Module I HTML Forms: Overview of HTML5 and Revision on FORMS,CSS, Inserting Image, Creating websites, Hyperlinks, <div> tag</div>		

	defining methods for an object DOM, array, string, Form validation – basic form validation Module IV Introduction to PHP: History, Webserver, WAMP server, Basic Programming, Concept of PHP: Syntax, Operators, Variables, Constants, Control Statement, loops, Language construct and functions, Function – Syntax, arguments, variables, references, returns and variable scope	objects, defining methods for an object DOM, array, string, Form validation – basic form validation Module IV Introduction to PHP: History, Webserver, WAMP server, Basic Programming, Concept of PHP: Syntax, Operators, Variables, Constants, Control Statement, loops, Language construct and functions, Function – Syntax, arguments, variables, references, returns and variable scope	•••••	
	Module III Events in Javascript & DOM: What is event? on Click event type, on submit event type, on mouse over and on mouse out, standard events, dialog box-alert, confirmation, prompt, Javascript objects — object properties, object methods, user-defined objects,	Module III Events in Javascript & DOM: What is event? on Click event type, on submit event type, on mouse over and on mouse out, standard events, dialog box-alert, confirmation, prompt, Javascript objects—object properties, object methods, user-defined		
	Module II Javascript: Overview, Client-side Javascript, Advantages of Javascript, Limitations of Javascript, Syntax – First Javascript Code, internal file, external file, Javascript variables, datatypes, operators, reserve words, control statements, loops, function-function definition	Module II Functions in C++, Classes & Overview, Client-side Javascript, Advantages of Javascript, Limitations of Javascript, Syntax – First Javascript Code, internal file, external file, Javascript variables, datatypes, operators, reserve words, control statements, loops, function-function definition		

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VIVEKANAND COLLEGE, KOLHAPUF
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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS) STATEMENT OF SYLLABUS COVERED

Year- 2023-214

Term-IInd

C1	Name of	teacher- Miss Pratiksha Prakash Deshmukh	Department- BCA		
Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Rem:
B.C.A- I Sem-II	Advance Web Technolog y	Module I Introduction to JavaScript Overview, Client-Side JavaScript, Advantages of JavaScript, Limitations of JavaScript, Syntax:- First JavaScript Code, Java Script	Module I Introduction to JavaScript Overview, Client-Side JavaScript, Advantages of JavaScript, Limitations of JavaScript, Syntax:- First JavaScript Code, Java Script		
90		Module II Java Script Variables, Data types, Variables, Operators:- Reserve words ,Control statements, Loops, Function:-Function Definition.	Module II Java Script Variables, Data types, Variables, Operators:- Reserve words ,Control statements, Loops, Function:-Function Definition.		
EST EST	EGE KOLWAPUR.	Module III Events in JavaScript &DOM: What is an Event?, onclick Event Type, onsubmit Event Type, onmouseout, onmouseover and onmouseout, Standard Events, Dialog Box:- Alert Dialog Box, Confirmation Dialog Box, Prompt Dialog Box.	Module III Events in JavaScript &DOM: What is an		
EST JUN 196	A STORESTON	Module IV JAVA Script Objects Object Properties, Object Methods, User- Defined Objects, Defining Methods for an Object DOM (Document Object Model), Array, String, Form Validation:- Basic Form Validation.	Module IV JAVA Script Objects Object Properties, Object Methods, User- Defined Objects, Defining Methods for an Object DOM (Document Object Model), Array, String, Form Validation:- Basic Form Validation.		
B.C.A- II Sem-IV	Advance Web Technolog y	Module I HTML Forms: - Overview of HTML5 and Revisions on FORMS, CSS, Inserting Image, Creating websites, Hyperlinks, <div> tag</div>	Module I HTML Forms: - Overview of HTML5 and Revisions on FORMS, CSS, Inserting Image, Creating websites, Hyperlinks, <div> tag</div>		
		** * * * * * * * * * * * * * * * * * * *	X * 1.1 XY	-	

Java Script: Overview, Client-Side JavaScript, Advantages of JavaScript, Limitations of JavaScript, Syntax:- First JavaScript Code, Internal File, External File, Java Script Variables:- Data types, Variables, Operators:- Reserve words ,Control statements, Loops, Function:- Function Definition	Advantages of JavaScript, Limitations of JavaScript, Syntax:- First JavaScript Code, Internal File, External File, Java Script Variables:- Data types, Variables,
Module III Events in JavaScript &DOM: What is an Event?, onclick Event Type, onsubmit Event Type, onmouseover and onmouseout, Standard Events, Dialog Box:- Alert Dialog Box, Confirmation Dialog Box, Prompt Dialog Box, JAVA Script Objects:- Object Properties, Object Methods, User-Defined Objects, Defining Methods for an Object DOM (Document Object Model), Array, String, Form Validation:- Basic Form Validation.	Module III
Module IV Introduction to PHP: History, WebServer, WAMP server, Basic Programming Concepts of PHP: Syntax, Operators, Variables, Constants, Control statement loops, Language construct and functions, Function	Module IV Introduction to PHP: History, WebServer, WAMP server, Basic Programming Concepts of PHP: Syntax, Operators, Variables, Constants, Control statement loops, Language construct and functions, Function

HEAD
DEPARTMENT OF B. C. A.
VIVEKANAND COLLEGE, KOLHAPUR
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(Signature of the Head of Department)



VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS) STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Term- II* Name of teacher- Miss. Prajakta Popat Misal Department- BCA

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Rema rk
B.C.A-1 Sem-II	Programmi ng in C- II	Module I User defined functions and pointer Form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments, functions with array.	Module I User defined functions and pointer Form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments, functions with array.	•••••	
	OLLEGE	Module II Pointers Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation-malloc(),calloc(),realloc().	Module II Pointers Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation-malloc(),calloc(),realloc().		
B T T T T T T T T T T T T T T T T T T T	STD JAPUR 1964	Module III Structures and Unions Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.	Module III Structures and Unions Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.		
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		Module IV File Handling Defining and opening a file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind()	Module IV File Handling Defining and opening a file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind().		
B.C.A II Sem-IV	Data Structure Using C++	Module I Introduction to data structures Introduction to Array, Introduction to Data Structures, Concept of Abstract Data types, Array as ADT, Data structures and its types, Data structures operations	Module I Introduction to data structures Introduction to Array, Introduction to Data Structures, Concept of Abstract Data types, Array as ADT, Data structures and its types, Data structures operations		
		Module II Searching and Sorting and Methods Introduction to Searching and Sorting, Searching: Linear search, Binary search and hashing, Sorting: Bubble Sort, Insertion sort, Selection sort, Merge sort,	Module II Searching and Sorting and Methods Introduction to Searching and Sorting, Searching: Linear search, Binary search and hashing, Sorting: Bubble Sort, Insertion sort, Selection sort, Merge sort,		
Sol Supering	HE TOWNSUR - RESERVENCE OF THE STATE OF THE	Module III Stacks and Queues Introduction to stack, Primitive Stack operations: Push & Pop, Array and Linked Implementation of Stack in C++, Application of stack: Prefix and Postfix Expressions Evaluation, Definition of queue, Operations on queue, Types of queue-Linear, Circular, Applications of queue	Module III Stacks and Queues Introduction to stack, Primitive Stack operations: Push & Pop, Array and Linked Implementation of Stack in C++, Application of stack: Prefix and Postfix Expressions Evaluation, Definition of queue, Operations on queue, Types of queue-Linear, Circular, Applications of queue	3 ****	

444	Module IV	Module IV	
	Linked Lists and Trees	Linked Lists and Trees	
25 1	Introduction to Pointer,	Introduction to Pointer,	
	Introduction to linked lists,	Introduction to linked lists,	
	Implementation of Linked list,	Implementation of Linked list,	
	Types of Linked List:	Types of Linked List:	5.
1	Singly, Doubly and Circular,	Singly, Doubly and Circular,	
s. Ac		Operations on linear linked list: Traversal,	
1	Insertion, Deletion, Searching	Insertion, Deletion, Searching	
	Trees: definition, terminologies, representation,	Trees: definition, terminologies, representation,	
	types, Tree Traversal- (Preorder, Inorder, Postorder)	types, Tree Traversal- (Preorder, Inorder, Postorder)	

DEPARTMENT OF B. C. A.
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS) STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Term- IInd

	Name of	teacher- Mrs. Amruta S.Jadhav	Department- BCA		
Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Rem:
B.C.A- I Sem-II	Programmi ng in C- II	Module I User defined functions and pointer Form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments, functions with array.	Module I User defined functions and pointer Form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments, functions with array.		
EST JUN 196	G DEL 4 ST	Module II Pointers Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation-malloc(),calloc(),realloc().	Module II Pointers Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation-malloc(),calloc(),realloc().		
		Module III Structures and Unions Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.	Module III Structures and Unions Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.		

		File Handling Defining and opening a file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind()	Module IV File Handling Defining and opening a file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind().		
B.C.A II Sem-IV	Data Structure Using C++	Module I Introduction to data structures Introduction to Array, Introduction to Data Structures, Concept of Abstract Data types, Array as ADT, Data structures and its types, Data structures operations	Module I Introduction to data structures Introduction to Array, Introduction to Data Structures, Concept of Abstract Data types, Array as ADT, Data structures and its types, Data structures operations		
ESTI	RUTANIA TO THE TOTAL OF THE TOT	Module II Searching and Sorting and Methods Introduction to Searching and Sorting, Searching: Linear search, Binary search and hashing, Sorting: Bubble Sort, Insertion sort, Selection sort, Merge sort,	Module II Searching and Sorting and Methods Introduction to Searching and Sorting, Searching: Linear search, Binary search and hashing, Sorting: Bubble Sort, Insertion sort, Selection sort, Merge sort,	o: 	
ESTI JUNE 1964	UR * Comment	Module III Stacks and Queues Introduction to stack, Primitive Stack operations: Push & Pop, Array and Linked Implementation of Stack in C++, Application of stack: Prefix and Postfix Expressions Evaluation, Definition of queue, Operations on queue, Types of queue-Linear, Circular, Applications of queue	Module III Stacks and Queues Introduction to stack, Primitive Stack operations: Push & Pop, Array and Linked Implementation of Stack in C++, Application of stack: Prefix and Postfix Expressions Evaluation, Definition of queue, Operations on queue, Types of queue-Linear, Circular, Applications of queue	•••••	
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		Introduction to Pointer, Introduction to linked lists, Implementation of Linked list, Types of Linked List: Singly, Doubly and Circular, Operations on linear linked list: Traversal, Insertion, Deletion, Searching Trees: definition, terminologies, representation, types, Tree Traversal- (Preorder, Inorder, Postorder)	Introduction to Pointer, Introduction to linked lists, Implementation of Linked list, Types of Linked List: Singly, Doubly and Circular, Operations on linear linked list: Traversal, Insertion, Deletion, Searching Trees: definition, terminologies, representation, types, Tree Traversal- (Preorder, Inorder, Postorder)		
B.C.A III Sem-VI Data Warehousi ng and Data Mining	Warehousi ng and Data	Module I Data Warehousing: Introduction to data warehousing, Data warehousing components, Building a data warehouse, Difference between database system and data warehouse, Data warehouse architecture.	Module I Data Warehousing: Introduction to data warehousing, Data warehousing components, Building a data warehouse, Difference between database system and data warehouse, Data warehouse architecture		
	-	Module II Data Mining: Introduction of data mining - Definition and functionalities Issues in DM, Applications of data mining, KDD process. Data Pre-processing: Data Pre-processing, Data cleaning, Data integration and transformation, Data reduction, Discretization and concept hierarchy generation, Data mining Tasks	Module II Data Mining: Introduction of data mining - Definition and functionalities Issues in DM, Applications of data mining, KDD process. Data Pre-processing: Data Pre-processing, Data cleaning, Data integration and transformation, Data reduction, Discretization and concept hierarchy generation, Data mining Tasks		
	Module III Data Mining techniques: Frequent item - set and association rule mining: apriori algorithm, use of sampling for frequent item- set tree algorithm, Graph sampling: frequent sub graph mining, tree mining, sequence mining Classification and Prediction - Issues Regarding Classification and Prediction - Classification by Decision Tree Introduction - Bayesian Classification - Rule Based Classification - Prediction - Accuracy and Error Measures.	Module III Data Mining techniques: Frequent item - set and association rule mining: apriori algorithm, use of sampling for frequent item- set tree algorithm, Graph sampling: frequent sub graph mining, tree mining, sequence mining Classification and Prediction - Issues Regarding Classification and Prediction - Classification by Decision Tree Introduction - Bayesian Classification - Rule Based Classification - Prediction - Accuracy and Error Measures.	•••••		

Methods, Partitioning Methods – K-Means and K-	Cluster Analysis: Types of Data in Cluster Analysis, A Categorization of Major Clustering Methods, Partitioning Methods – K-Means and K- Medoids		
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(Signature of the Teacher)

HEAD
DEPARTMENT OF B. C. A.
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOÚS) STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Name of teacher- Miss. Rutuja Mansing Desai

Term- IInd Department- BCA

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Remark
B.C.A I Sem-II	Statistics- II	Unit-1 Probability: 1.1. Idea of permutation and combination, concept of experiments and random experiments. 1.2. Definitions: sample space (finite and countably infinite), events, types of events, power set (sample space consisting at most 3 sample points).	Unit-1 Probability: 1.1. Idea of permutation and combination, concept of experiments and random experiments. 1.2. Definitions: sample space (finite and countably infinite), events, types of events, power set (sample space consisting at most 3 sample points).		
ESTD JUNE 1964	TOUHAPUR VIGO	 1.3. Illustrative examples. 1.4. Classical (apriori) definition of probability of an event, equiprobable sample space, simple examples of probability of an events based on permutations and combinations, axiomatic definition of probability with reference to finite and countably infinite sample space. 1.5. Theorems on probability: i) P(Φ) = 0 ii) P(A') = 1 - P(A) iii) P(A ∪ B) = P(A) + P(B) - P(A ∩ B) iv) If A ⊆ B, P(A) ≤ P(B) v) 0 ≤ P(A ∩ B) ≤ P(A) ≤ P(A ∪ B) ≤ P(A) + P(B) 1.6 Illustrative examples 	 1.3. Illustrative examples. 1.4. Classical (apriori) definition of probability of an event, equiprobable sample space, simple examples of probability of an events based on permutations and combinations, axiomatic definition of probability with reference to finite and countably infinite sample space. 1.5. Theorems on probability: i) P(Φ) = 0 ii) P(A') = 1 - P(A) iii) P(A ∪ B) = P(A) + P(B) - P(A ∩ B) iv) If A ⊆ B, P(A) ≤ P(B) v) 0 ≤ P(A ∩ B) ≤ P(A) ≤ P(A ∪ B) ≤ P(A) + P(B) 1.6 Illustrative examples 		

	Unit-2 Conditional probability and independence of events: 2.1 Definition of conditional probability of an event, examples. 2.2 Partition of sample space, Baye's theorem (only statement) and examples. 2.3 Concept of independence of two events, examples. 2.4 Proof of the result that if A and B are independent events then i) A and B', ii) A' and B, iii) A' and B' are also independent. 2.5 Pairwise and complete independence of three events, examples. 2.6 Elementary examples.	Unit-2 Conditional probability and independence of events: 2.1 Definition of conditional probability of an event, examples. 2.2 Partition of sample space, Baye's theorem (only statement) and examples. 2.3 Concept of independence of two events, examples. 2.4 Proof of the result that if A and B are independent events then i) A and B', ii) A' and B, iii) A' and B' are also independent. 2.5 Pairwise and complete independence of three events, examples. 2.6 Elementary examples.	
ESTD JUNE 1964	Unit-3 Univariate probability distributions (defined on finite and countably infinite sample space) 3.1 Definitions: discrete random variable, probability mass function (p.m.f.), cumulative distribution function (c.d.f.), properties of c.d.f., median, mode and examples. 3.2 Definition of expectation of a random variable, expectation of a function of random variable. 3.3 Results on expectation: i) E(c) = c, where c is constant. ii) E(aX + b) = a E(X) + b, where a and b are the constants. 3.4 Definition of mean and variance of univariate distributions. 3.5 Examples.	Unit-3 Univariate probability distributions (defined on finite and countably infinite sample space) 3.1 Definitions: discrete random variable, probability mass function (p.m.f.), cumulative distribution function (c.d.f.), properties of c.d.f., median, mode and examples. 3.2 Definition of expectation of a random variable, expectation of a function of random variable. 3.3 Results on expectation: i) E(c) = c, where c is constant. ii) E(aX + b) = a E(X) + b, where a and b are the constants. 3.4 Definition of mean and variance of univariate distributions. 3.5 Examples.	
	Unit-4 Some standard discrete probability distributions: 4.1 Discrete uniform distribution: p.m.f., mean and variance, examples.	Unit-4 Some standard discrete probability distributions: 4.1 Discrete uniform distribution: p.m.f., mean and variance, examples.	

4.2 Binomial distribution: p.m.f., mean and	4.2
variance, additive property of binomial variates,	var
recurrence relation for probabilities, examples.	rec
4.3 Geometric distribution: p.m.f., mean and	4.3
variance, additive property, recurrence relation	var
for probabilities, examples.	rela
4.4 Poisson distribution: p.m.f., mean and	4.4
variance, additive property, recurrence relation	vari
for probabilities, Poisson distribution as a limiting	rela

case of binomial distribution (without proof),

4.2 Binomial distribution: p.m.f., mean and variance, additive property of binomial variates, recurrence relation for probabilities, examples.
4.3 Geometric distribution: p.m.f., mean and variance, additive property, recurrence relation for probabilities, examples.
4.4 Poisson distribution: p.m.f., mean and variance, additive property, recurrence relation for probabilities, Poisson distribution as a limiting case of binomial distribution (without proof), examples.

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examples.

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WEXANAND COLLEGE, KOULLEY!



VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Name of teacher- Mr.K.D.Morabale

Term- Ist Sem II Department-BCA

Class	Subject	Syllabus assigned	Syllabus Covered	Syllabus not to Covered	Remark
B.C.A I Sem-II (NEP)	Mathematics II (OEC04MAT2 1) COLLEGE TO LESTD JUNE 1964	Unit 1-Mathematical Logic 1.1 Introduction 1.2 Meaning of Statement (Proposition). 1.3 Simple and compound Statements. 1.4 Truth values of a statement. 1.5 Logical Operations: Negation, Conjunction, Contingency, Implication, Double Implication. 1.6 Equivalence of Logical Statements. 1.7 Truth Tables and construction of truth tables. 1.8 Converse, Inverse and Contra positive. 1.9 Statements forms: Tautology, Contradiction, Contingency. 1.10 Duality, Laws of logic: Idempotent laws, Commutative laws, Associative laws, Identity laws, Involution laws, Distributive Laws, Complement laws, De Morgan's laws. 1.11 Argument: Valid and invalid arguments. 1.12 Examples based on above.	Unit 1-Mathematical Logic 1.1 Introduction 1.2 Meaning of Statement (Proposition). 1.3 Simple and compound Statements. 1.4 Truth values of a statement. 1.5 Logical Operations: Negation, Conjunction, Contingency, Implication, Double Implication. 1.6 Equivalence of Logical Statements. 1.7 Truth Tables and construction of truth tables. 1.8 Converse, Inverse and Contra positive. 1.9 Statements forms: Tautology, Contradiction, Contingency. 1.10 Duality, Laws of logic: Idempotent laws, Commutative laws, Associative laws, Identity laws, Involution laws, Distributive Laws, Complement laws, De Morgan's laws. 1.11 Argument: Valid and invalid arguments. 1.12 Examples based on above.		
		Unit 2:- Permutation 2.1 Introduction 2.2 Factorial Notation 2.3 Fundamental Principle and Counting Principle of Addition, Principle of Multiplication 2.4 Permutation 2.4.1 Permutation when all object is	Unit 2:- Permutation 2.1 Introduction 2.2 Factorial Notation 2.3 Fundamental Principle and Counting Principle of Addition, Principle of Multiplication 2.4 Permutation 2.4.1 Permutation when all object is		

	Distinct. 2.4.2 Permutation when all object is not Distinct	Distinct. 2.4.2 Permutation when all object is not Distinct	12678	i China i
	Unit-3 Combination 3.1 Introduction 3.2 Definition of combination 3.3 Examples	Unit-3 Combination 3.1 Introduction 3.2 Definition of combination 3.3 Examples		
EST JUN 1964	4.3 Diagraph 4.4 Weight of Graph	Unit-4 Graph Theory 4.1 Introduction of Graph 4.2 Kinds of Graph: Simple, Multi and Pseudo Graph 4.3 Diagraph 4.4 Weight of Graph 4.5 Degree of vertex, Isolated Vertex 4.6 Path, Cycle, A-cycle.		
	4.7 Types of Graph: Complement, Regular, Bi-Partite, Complete Bipartite, Isomorphism of Graph			

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VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS) STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Term- Ist

Name of teacher- Mr. Vijay Bapuso Pujari

Department- BCA

	Dapuso I ujari		Department- BCA		
Class	Subject Syllabus assigned		Syllabus Covered	Syllabus not to Covered	Rema rk
B.C.A I Sem-I (NEP)	Programmi ng in C part-I	Unit-1-Introduction to C: ALGORITHM, advantages and disadvantages FLOWCHARTS, Character set, Identifiers: variables, constants, keywords., Tokens, Data types.	Unit-1-Introduction to C: ALGORITHM, advantages and disadvantages FLOWCHARTS, Character set, Identifiers: variables, constants, keywords., Tokens, Data types.		
		Unit-2-Operators: Arithmetic, relational, logical, assignment, bitwise, increment/decrement, Comments-types of comments, Header Files (conio,stdio,string,math). Structure of C Program, Input and Output Functions	Unit-2-Operators: Arithmetic, relational, logical, assignment, bitwise, increment/decrement, Comments-types of comments, Header Files (conio, stdio, string, math). Structure of C Program, Input and Output Functions		
COLLEGIA	A.	Unit-3 Control Structures: Conditional statements: if, If-else nested ifelse, switch statement. Loops: while, for, doWhile loop, Unconditional statements: Break, continue, exit, goto statements.	Unit-3 Control Structures: Conditional statements: if, If-else nested ifelse, switch statement. Loops: while, for, doWhile loop, Unconditional statements: Break, continue, exit, goto statements.		
ESTD JUNE 1964 red Autonomor		Unit-4 Arrays and Strings: Arrays-Meaning and definition, Declaration, Initialization and types of arrays (single and multidimensional arrays). Strings: Meaning and definition, Declaration, Initialization String functions strlen(), strrev(), strlwr(), strupr(), strcat(), strcmp(), strcpy(). lines of regression by method of least squares.	Unit-4 Arrays and Strings: Arrays- Meaning and definition, Declaration, Initialization and types of arrays (single and multidimensional arrays). Strings: Meaning and definition, Declaration, Initialization String functions strlen(), strrev(), strlwr(), strupr(), strcat(), strcmp(), strcpy(). lines of regression by method of least squares.		
B.C.A III Sem-V	ASP.Net with C#	Unit-1-Introduction 1.1 overview, Architecture, Features of .NET, 1.2 Meta data, CLR, Managed and unmanaged code 1.3 CTS, CLS, .NET base classes 1.4 Introduction to Visual Studio .NET IDE 1.5 Types of JIT compiler	Unit-1-Introduction 1.1 overview, Architecture, Features of .NET, 1.2 Meta data, CLR, Managed and unmanaged code 1.3 CTS, CLS, .NET base classes 1.4 Introduction to Visual Studio .NET IDE 1.5 Types of JIT compiler		
	-	Unit-2 Introduction To C# 2.1 Introduction to C#, Entry point method,	Unit-2 Introduction To C# 2.1 Introduction to C#, Entry point method,		



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willing and building projects, Compiling a sem using command line utility, CSC.EXE, walld forms of main. I stack and heap memory, reference type type, casting implicit and explicit g and un-boxing, pass by value and pass nce and out parameters. I class, DLL, Difference between DLL and troduction to Web Programming estanding role of WEB server and WEB HTTP request and response structure.	C# program using command line utility, CSC.EXE, Different valid forms of main. 2.3 Global stack and heap memory, reference type and data type, casting implicit and explicit 2.4 Boxing and un-boxing, pass by value and pass by reference and out parameters 2.5 Partial class, DLL, Difference between DLL and EXE Unit-3 Introduction to Web Programming 3.1 Understanding role of WEB server and WEB browser, HTTP request and response structure.		
am using command line utility, CSC.EXE, valid forms of main. I stack and heap memory, reference type type, casting implicit and explicit g and un-boxing, pass by value and pass are and out parameters. I class, DLL, Difference between DLL and troduction to Web Programming estanding role of WEB server and WEB HTTP request and response structure.	C# program using command line utility, CSC.EXE, Different valid forms of main. 2.3 Global stack and heap memory, reference type and data type, casting implicit and explicit 2.4 Boxing and un-boxing, pass by value and pass by reference and out parameters 2.5 Partial class, DLL, Difference between DLL and EXE Unit-3 Introduction to Web Programming 3.1 Understanding role of WEB server and WEB browser, HTTP request and response structure.		
valid forms of main. I stack and heap memory, reference type type, casting implicit and explicit g and un-boxing, pass by value and pass are and out parameters. I class, DLL, Difference between DLL and troduction to Web Programming estanding role of WEB server and WEB HTTP request and response structure.	Different valid forms of main. 2.3 Global stack and heap memory, reference type and data type, casting implicit and explicit 2.4 Boxing and un-boxing, pass by value and pass by reference and out parameters 2.5 Partial class, DLL, Difference between DLL and EXE Unit-3 Introduction to Web Programming 3.1 Understanding role of WEB server and WEB browser, HTTP request and response structure.		
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standing role of WEB server and WEB HTTP request and response structure.	3.1 Understanding role of WEB server and WEB browser, HTTP request and response structure.		
standing role of WEB server and WEB HTTP request and response structure.	3.1 Understanding role of WEB server and WEB browser, HTTP request and response structure.		
HTTP request and response structure.	browser, HTTP request and response structure.	III. 3	
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uction to ASP, Types of path, FORM tag	3.2 Introduction to ASP, Types of path, FORM tag		100
of server controls	3.3 Types of server controls		
ation controls-Base validator, compare	3.4 Validation controls-Base validator, compare		
, range validator, grouping control	validator, range validator, grouping control		1
3.5 Web forms life cycle	validator 3.5 Web forms life cycle		
handling in WEB forms,	3.6 Event handling in WEB forms,		
redirect, server response, cross page post	response.redirect, server.response, cross page post		
perty of button	back property of button		
VET state management	3.7 ASP.NET state management		
onfig, globalization and localization,	3.8 web.config, globalization and localization,		
ain	AppDomain		
DO .NET	Unit-4 ADO .NET		
duction to ADO.Net	4.1 Introduction to ADO.Net		
NET Architecture- Conncetion,	The Control of the Co	04	
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erstanding connected layaer of ADO.NET			8
erstanding connected layaer of ADO.NET innected layer of ADO.NET	,		
erstanding connected layaer of ADO.NET nnected layer of ADO.NET		Victorial and Value 104	
1, 0	lat reader, data adapter, data se tanding connected layaer of ADO.NET	lat reader, data adapter, data se tanding connected layaer of ADO.NET command, dat reader, data adapter, data set 4.3 Understanding connected layaer of ADO.NET	lat reader, data adapter, data se command, dat reader, data adapter, data set 4.3 Understanding connected layaer of ADO.NET

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VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS) STATEMENT OF SYLLABUS COVERED

Year- 2023-24

Name of teacher- Mr. Vijay Bapuso Pujari

Term-IInd Department- BCA

Class	Subject	Subject Syllabus assigned Syllabus Covered		Syllabus not to Covered	Rema rk
	Programmi ng in C- II	Module I User defined functions and pointer Form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments, functions with array.	Module I User defined tunctions and pointer Form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments, functions with array.		
ESTE JUNE 1984	161	Module II Pointers Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation-malloc(),calloc(),realloc().	Module II Pointers Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation-malloc(),calloc(),realloc().		



		Module III Structures and Unions Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.	Module III Structures and Unions Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.	
ESTD JUNE 1964		Module IV File Handling Defining and opening a file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind()	Module IV File Handling Defining and opening a file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind().	
B.C.A II Sem-VI	Java Programm ing	Unit I Java Fundamentals Introduction to Java, History and Features of Java, C++ vs Java, Simple Java Program, Internal path seting, JDK, JRE, and JVM (Java Virtual Machine), JVM Memory Management, data types, Unicode System, Operators, Keywords, and Control Statements, methods, constructor, class, objects, methods, Accessmodifiers, staticke	Unit I Java Fundamentals Introduction to Java, History and Features of Java, C++ vs Java, Simple Java Program, Internal path seting, JDK, JRE, and JVM (Java Virtual Machine), JVM Memory Management, data types, Unicode System, Operators, Keywords, and Control Statements, methods, constructor, class, objects, methods, Accessmodifiers, staticke	

Model, Listeners, Layouts, Individual Components Label, Button, Check Box, Radio Button, Introduction Diff B/W AWT and SWING, Components hierarchy, Panes, Individual Swings components J Label, JButton, JText Field, JTextArea

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(Signature of the Head of Department)

(Signature of the Teacher)

DEPARTMENT OF B. C. A.
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