Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: <u>2018-19</u>   Semester: <u>1</u>

Faculty: <u>Arts/ Commerce</u>   Department: <u>Computer Science</u>

Name of the faculty member: <u>Dr. J. A. Bhatt</u>

Name of the subject: <u>Computer Science-1 (Programming Methodology using C Language)</u>

Week	Topic/ Sub topic
Week-1	Introduction to Programming development tools Algorithm and Flowchart
Week-2	Definition of algorithm and flowchart, flow chart symbols
Week-3	Exercise of algorithm and flowchart development
Week-4	Computer languages: Higher level and Lower level Structure of C program
Week-5	C character set, Definition of constant, types of constants and data types, Definition of variable, variable naming rules
Week-6	Arithmetic operators, arithmetic expression and its evaluation Relational and Logical operations, expressions and its evaluations
Week-7	Increment/ Decrement operators, shorthand assignment operator, Conditional operator
Week-8	Simple programming demonstration using variables, constants and Arithmetic expression
Week-9	% codes, printf(), scanf() Backslash codes
Week-10	getchar(), getch(), getche(), putchar(), putch(), gets(), puts() Demonstration and programming exercise based on printf() and scanf()
Week-11	Decision making and branching: What is branching? Flow charts based on branching exercise.
Week-12	If… else statement Programming exercise and demonstration
Week-13	What is looping? Entry controlled and exit controlled looping while statement, for statement and related exercise
Week-14	do while statement and related exercise Demonstration on looping
Week-15	Doubt solving and revision work

Signature:_____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2018-19   Semester: 2

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-2 (Programming in C Language)

Week	Topic/ Sub topic
Week-1	Decision statement: if... else, nesting of if.. else, else if ladder Demonstration and programming exercise based on branching
Week-2	Switch statement and exercise based on switch goto and label statements
Week-3	Looping statements While, for and do... while statements and their demonstration
Week-4	Nested loops Demonstration and programming exercise based on nesting
Week-5	Mathematical library functions: pow(), abs(), sqrt(), ceil(), floor(), mod()
Week-6	Character testing/ conversion functions: isalpha(), isdigit(), isalnum(), isupper(), islower(), isprint(), isspace(), toupper(), tolower()
Week-7	What is array? Requirements of array with examples
Week-8	One dimensional array Demonstration and programming exercise based on one dimensional array
Week-9	Two dimensional array Demonstration and programming exercise based on two dimensional array
Week-10	String handling Functions: strlen(), strcpy(), strcat(), strcmp(), strupr(), strlwr(), strrev()
Week-11	User Defined Functions and its use/ benefits
Week-12	UDF: No arguments and No return value Demonstration and programming exercise
Week-13	UDF: Arguments and No return value Demonstration and programming exercise
Week-14	UDF: Arguments and return value Demonstration and programming exercise
Week-15	Doubt solving and Revision work

Signature:_____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: <u>2018-19</u>   Semester:<u> 3</u>

Faculty: <u>Arts/ Commerce</u>   Department: <u>Computer Science</u>

Name of the faculty member: <u>Dr. J. A. Bhatt</u>

Name of the subject: <u>Computer Science-3 (Introduction to DBMS)</u>

Week	Topic/ Sub topic
Week-1	Concept of DBMS, Output using ?, ??, ???, Comments using *, &&, Note, Clear command
Week-2	Assignment and STORE, Unformatted Input using INPUT and ACCEPT, WAIT
Week-3	Use of @, Formatted Input/ Output using @ SAY, GET with various Practical examples
Week-4	Decision making and Branching Various formats of IF commands with programming exercise
Week-5	DO CASE... ENDCASE With programming exercise
Week-6	Decision making and Looping DO WHILE... ENDDO and its nesting
Week-7	FOR... ENDFOR and its nesting EXIT and LOOP
Week-8	One dimensional and two dimensional array With meaningful programming exercise
Week-9	Numeric and String Library functions
Week-10	String and Date/ Time functions
Week-11	Date and Time functions, Set commands
Week-12	Set commands
Week-13	Set commands
Week-14	Programming exercise
Week-15	Programming exercise and revision work

Signature: _____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2018-19   Semester: 4

Faculty: Arts/ Commerce

Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-4 (Programming with DBMS)

Week	Topic/ Sub topic
Week-1	Concept of DBMS, Creation of DBF using CREATE command Data types with the help of CREATE command. Practical Demonstration.
Week-2	Creating and executing a command file. USE and CLOSE commands APPEND command and demonstration.
Week-3	Scope options using LIST and DISPLAY commands
Week-4	Programming demonstration and exercise
Week-5	Editing EDIT, REPLACE, INSERT and BROWSE with practical demonstration
Week-6	Concept of work area using SELECT command Demonstration of multiple file handling
Week-7	Record movement commands GO, GO TOP, BO BOTTOM, SKIP and their demonstration
Week-8	DELETE, RECALL, PACK, ZAP commands and their demonstration
Week-9	LOCATE and CONTINUE commands with related programming exercise
Week-10	SORT command with various practical exercise
Week-11	Programming exercise based on SORT
Week-12	INDEX command with various practical exercise Use of FIND and SEEK commands
Week-13	SET commands (INDEX, ORDER, RELATION) with their practical demonstration
Week-14	SCAN ... ENDSCAN Command Doubt solving and revision
Week-15	Programming exercise and revision work

Signature:

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2018-19   Semester: 5

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-5 (Application Development using VB Part-I)

Week	Topic/ Sub topic
Week-1	Introduction of VB Visual Basic Programming environment
Week-2	IDE of VB Introduction of various controls in tool box
Week-3	Naming objects
Week-4	Form control and its properties, Life cycle of form related events Projects demonstration based on Form control
Week-5	Command button related common properties, special properties and Related events, project demonstration
Week-6	Text box related common properties, special properties and Related events, Related Projects
Week-7	Label related common properties, special properties and Related events, Difference between label and text box controls
Week-8	Projects based on label and text box Timer control and related project demonstration
Week-9	List box control and its related properties, events and methods With related project demonstrations
Week-10	List box control and its related properties, events and methods With related project demonstrations
Week-11	Combo box (combination of list box and text box) Horizontal Scroll Bar, Vertical Scroll Bar and related properties, events
Week-12	Option button, Frame and Check box with their properties Demonstration of related projects
Week-13	Drive List Box, Directory List Box and File List box Demonstration of related projects
Week-14	Image, Picture box and shape control with properties Demonstration of related projects
Week-15	Revision work and doubt solving with demonstration

Signature:_____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2018-19   Semester: 6

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-6 (Application Development using VB Part-II)

Week	Topic/ Sub topic
Week-1	Variables, Constants, naming of variables and constants, Data types, declaration of variables and constants
Week-2	Scope of variables, Arithmetic, Relational and logical operators/ expressions Demonstration of related projects
Week-3	What is selection? Various formats of If…End If statement Demonstration of related projects
Week-4	Various formats Select Case statement Demonstration of related projects
Week-5	What is a Loop? Do While loop and nesting, Demonstration of related projects
Week-6	For…Next loop and Do… Loop Until with nesting, Demonstration of related projects
Week-7	Declaring and processing string and dates. Date and time handling
Week-8	What is Procedure? Types and use of procedure Passing parameters, Projects based on procedures.
Week-9	What is an Array? Declaration and use of one and two dimensional arrays. Demonstration of related projects
Week-10	Passing arrays to procedures, control arrays. Demonstration of related projects
Week-11	What is a data file? Type of data files (only concept) with examples of storage devices.
Week-12	Sequential file handling (Read, Write, Append) Demonstration of related projects
Week-13	Types of Menus and its features. Demonstration of related projects
Week-14	Revision work and doubt solving with demonstration
Week-15	Revision work and doubt solving with demonstration

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2018-19   Semester: 1

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Application in Business

Week	Topic/ Sub topic
Week-1	Definition of computer and it's block diagram Characteristics of computers
Week-2	Generations of computers and types of computers
Week-3	Types of memory: RAM, ROM, PROM, EPROM, EEPROM
Week-4	Storage devices: Floppy Discs, Hard Disks, CD, DVD, Pen Drive
Week-5	Input Devices: Key board, Mouse, Scanner, MICR, Microphone, Barcode reader, Touch screen
Week-6	Output Devices: Visual Display Unit- CRT & LCD
Week-7	Printers: Impact printers- Daisy wheel, Dot matrix Non Impact- Drum, Ink jet and Laser
Week-8	Number Systems and Codes: Introduction of Number Systems- Decimal, Binary, Octal & Hexa Decimal
Week-9	Conversions: Decimal to Binary and Binary to Decimal
Week-10	Conversions: Decimal to Octal and Octal to Binary
Week-11	Conversions: Decimal to Hexa Decimal and Hexa Decimal to Decimal
Week-12	Inter conversions of all number systems
Week-13	Internet Basics: Concept, Email, Chatting, Conferencing, Internet Telephony Internet connection methods: Dial up and Leased line connections
Week-14	IP Address, DNS, FTP, WWW, Web browser
Week-15	Doubt solving and revision work

Signature:_____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2018-19   Semester: 2

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: E-Commerce and Use of RDBMS (MS-Access)

Week	Topic/ Sub topic
Week-1	Introduction Access Database and its Objects including Table, Query, Form, Reports, Macros and Modules, Page
Week-2	Creating Database Working with data including insert, modify and delete records
Week-3	Navigating Database including records, find and replace
Week-4	Access data types Object naming rules
Week-5	Creating tables through wizard and design view, datasheet view
Week-6	Understanding field properties: field size, input mask, format, indexed, Required, Allow zero length, Validation rule , Validation text, Caption, Default value
Week-7	Primary keys, foreign key, composite key and candidate key Defining relationship and setting up the referential integrity
Week-8	Importing Exporting and Linking objects with another application
Week-9	Query: Understanding and creating different queries including select
Week-10	Action (append, delete, update, make-table) using wizard (cross-tab query, find duplicate query),
Week-11	Parameter query, Implementation of calculations and functions in queries
Week-12	Form: Understanding types forms and its properties
Week-13	What is E-Commerce? Types of E-Commerce: B to C, B to B, G to B
Week-14	M Commerce Doubt solving and revision work
Week-15	Doubt solving and revision work

Signature:_____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2019-20   Semester: 1

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-1 (Programming Methodology using C Language)

Week	Topic/ Sub topic
Week-1	Introduction to Programming development tools Algorithm and Flowchart
Week-2	Definition of algorithm and flowchart, flow chart symbols
Week-3	Exercise of algorithm and flowchart development
Week-4	Computer languages: Higher level and Lower level Structure of C program
Week-5	C character set, Definition of constant, types of constants and data types, Definition of variable, variable naming rules
Week-6	Arithmetic operators, arithmetic expression and its evaluation Relational and Logical operations, expressions and its evaluations
Week-7	Increment/ Decrement operators, shorthand assignment operator, Conditional operator
Week-8	Simple programming demonstration using variables, constants and Arithmetic expression
Week-9	% codes, printf(), scanf() Backslash codes
Week-10	getchar(), getch(), getche(), putchar(), putch(), gets(), puts() Demonstration and programming exercise based on printf() and scanf()
Week-11	Decision making and branching: What is branching? Flow charts based on branching exercise.
Week-12	If... else statement Programming exercise and demonstration
Week-13	What is looping? Entry controlled and exit controlled looping while statement, for statement and related exercise
Week-14	do while statement and related exercise Demonstration on looping
Week-15	Doubt solving and revision work

Signature: _____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2019-20   Semester: 2

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-2 (Programming in C Language)

Week	Topic/ Sub topic
Week-1	Decision statement: if... else, nesting of if.. else, else if ladder Demonstration and programming exercise based on branching
Week-2	Switch statement and exercise based on switch goto and label statements
Week-3	Looping statements While, for and do... while statements and their demonstration
Week-4	Nested loops Demonstration and programming exercise based on nesting
Week-5	Mathematical library functions: pow(), abs(), sqrt(), ceil(), floor(), mod()
Week-6	Character testing/ conversion functions: isalpha(), isdigit(), isalnum(), isupper(), islower(), isprint(), isspace(), toupper(), tolower()
Week-7	What is array? Requirements of array with examples
Week-8	One dimensional array Demonstration and programming exercise based on one dimensional array
Week-9	Two dimensional array Demonstration and programming exercise based on two dimensional array
Week-10	String handling Functions: strlen(), strcpy(), strcat(), strcmp(), strupr(), strlwr(), strrev()
Week-11	User Defined Functions and its use/ benefits
Week-12	UDF: No arguments and No return value Demonstration and programming exercise
Week-13	UDF: Arguments and No return value Demonstration and programming exercise
Week-14	UDF: Arguments and return value Demonstration and programming exercise
Week-15	Doubt solving and Revision work

Signature: _____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2019-20   Semester: 3

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-3 (Application Development using VB Part-I)

Week	Topic/ Sub topic
Week-1	Introduction of VB Visual Basic Programming environment
Week-2	IDE of VB Introduction of various controls in tool box
Week-3	Naming objects
Week-4	Form control and its properties, Life cycle of form related events Projects demonstration based on Form control
Week-5	Command button related common properties, special properties and Related events, project demonstration
Week-6	Text box related common properties, special properties and Related events, Related Projects
Week-7	Label related common properties, special properties and Related events, Difference between label and text box controls
Week-8	Projects based on label and text box Timer control and related project demonstration
Week-9	List box control and its related properties, events and methods With related project demonstrations
Week-10	List box control and its related properties, events and methods With related project demonstrations
Week-11	Combo box (combination of list box and text box) Horizontal Scroll Bar, Vertical Scroll Bar and related properties, events
Week-12	Option button, Frame and Check box with their properties Demonstration of related projects
Week-13	Drive List Box, Directory List Box and File List box Demonstration of related projects
Week-14	Image, Picture box and shape control with properties Demonstration of related projects
Week-15	Revision work and doubt solving with demonstration

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2019-20   Semester: 4

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-4 (Application Development using VB Part-II)

Week	Topic/ Sub topic
Week-1	Variables, Constants, naming of variables and constants, Data types, declaration of variables and constants
Week-2	Scope of variables, Arithmetic, Relational and logical operators/ expressions Demonstration of related projects
Week-3	What is selection? Various formats of If...End If statement Demonstration of related projects
Week-4	Various formats Select Case statement Demonstration of related projects
Week-5	What is a Loop? Do While loop and nesting, Demonstration of related projects
Week-6	For...Next loop and Do... Loop Until with nesting, Demonstration of related projects
Week-7	Declaring and processing string and dates. Date and time handling
Week-8	What is Procedure? Types and use of procedure Passing parameters, Projects based on procedures.
Week-9	What is an Array? Declaration and use of one and two dimensional arrays. Demonstration of related projects
Week-10	Passing arrays to procedures, control arrays. Demonstration of related projects
Week-11	What is a data file? Type of data files (only concept) with examples of storage devices.
Week-12	Sequential file handling (Read, Write, Append) Demonstration of related projects
Week-13	Types of Menus and its features. Demonstration of related projects
Week-14	Revision work and doubt solving with demonstration
Week-15	Revision work and doubt solving with demonstration

Signature: _____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2019-20   Semester: 5

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-5 (Introduction to VB)

Week	Topic/ Sub topic
Week-1	Introduction of VB Visual Basic Programming environment
Week-2	IDE of VB Introduction of various controls in tool box
Week-3	Naming objects
Week-4	Form control and its properties, Life cycle of form related events Projects demonstration based on Form control
Week-5	Command button related common properties, special properties and Related events, project demonstration
Week-6	Text box related common properties, special properties and Related events, Related Projects
Week-7	Label related common properties, special properties and Related events, Difference between label and text box controls
Week-8	Projects based on label and text box Timer control and related project demonstration
Week-9	List box control and its related properties, events and methods With related project demonstrations
Week-10	List box control and its related properties, events and methods With related project demonstrations
Week-11	Combo box (combination of list box and text box) Horizontal Scroll Bar, Vertical Scroll Bar and related properties, events
Week-12	Option button, Frame and Check box with their properties Demonstration of related projects
Week-13	Drive List Box, Directory List Box and File List box Demonstration of related projects
Week-14	Image, Picture box and shape control with properties Demonstration of related projects
Week-15	Revision work and doubt solving with demonstration

Signature:

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2019-20 **Semester:** 6

Faculty: Arts/ Commerce **Department:** Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-6 (Business Application Development using VB)

Week	Topic/ Sub topic
Week-1	Variables, Constants, naming of variables and constants, Data types, declaration of variables and constants
Week-2	Scope of variables, Arithmetic, Relational and logical operators/ expressions Demonstration of related projects
Week-3	What is selection? Various formats of If…End If statement Demonstration of related projects
Week-4	Various formats Select Case statement Demonstration of related projects
Week-5	What is a Loop? Do While loop and nesting, Demonstration of related projects
Week-6	For…Next loop and Do… Loop Until with nesting, Demonstration of related projects
Week-7	Declaring and processing string and dates. Date and time handling
Week-8	What is Procedure? Types and use of procedure Passing parameters, Projects based on procedures.
Week-9	What is an Array? Declaration and use of one and two dimensional arrays. Demonstration of related projects
Week-10	Passing arrays to procedures, control arrays. Demonstration of related projects
Week-11	What is a data file? Type of data files (only concept) with examples of storage devices.
Week-12	Sequential file handling (Read, Write, Append) Demonstration of related projects
Week-13	Types of Menus and its features. Demonstration of related projects
Week-14	Revision work and doubt solving with demonstration
Week-15	Revision work and doubt solving with demonstration

Signature:

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2019-20   Semester: 1

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Application in Business

Week	Topic/ Sub topic
Week-1	Definition of computer and it's block diagram Characteristics of computers
Week-2	Generations of computers and types of computers
Week-3	Types of memory: RAM, ROM, PROM, EPROM, EEPROM
Week-4	Storage devices: Floppy Discs, Hard Disks, CD, DVD, Pen Drive
Week-5	Input Devices: Key board, Mouse, Scanner, MICR, Microphone, Barcode reader, Touch screen
Week-6	Output Devices: Visual Display Unit- CRT & LCD
Week-7	Printers: Impact printers- Daisy wheel, Dot matrix Non Impact- Drum, Ink jet and Laser
Week-8	Number Systems and Codes: Introduction of Number Systems- Decimal, Binary, Octal & Hexa Decimal
Week-9	Conversions: Decimal to Binary and Binary to Decimal
Week-10	Conversions: Decimal to Octal and Octal to Binary
Week-11	Conversions: Decimal to Hexa Decimal and Hexa Decimal to Decimal
Week-12	Inter conversions of all number systems
Week-13	Internet Basics: Concept, Email, Chatting, Conferencing, Internet Telephony Internet connection methods: Dial up and Leased line connections
Week-14	IP Address, DNS, FTP, WWW, Web browser
Week-15	Doubt solving and revision work

Signature:

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2019-20   Semester: 2

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: E-Commerce and Use of RDBMS (MS-Access)

Week	Topic/ Sub topic
Week-1	Introduction Access Database and its Objects including Table, Query, Form, Reports, Macros and Modules, Page
Week-2	Creating Database Working with data including insert, modify and delete records
Week-3	Navigating Database including records, find and replace
Week-4	Access data types Object naming rules
Week-5	Creating tables through wizard and design view, datasheet view
Week-6	Understanding field properties: field size, input mask, format, indexed, Required, Allow zero length, Validation rule , Validation text, Caption, Default value
Week-7	Primary keys, foreign key, composite key and candidate key Defining relationship and setting up the referential integrity
Week-8	Importing Exporting and Linking objects with another application
Week-9	Query: Understanding and creating different queries including select
Week-10	Action (append, delete, update, make-table) using wizard (cross-tab query, find duplicate query),
Week-11	Parameter query, Implementation of calculations and functions in queries
Week-12	Form: Understanding types forms and its properties
Week-13	What is E-Commerce? Types of E-Commerce: B to C, B to B, G to B
Week-14	M Commerce Doubt solving and revision work
Week-15	Doubt solving and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2020-21   Semester: 1

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-1 (Programming Methodology using C Language)

Week	Topic/ Sub topic
Week-1	Introduction to Programming development tools Algorithm and Flowchart
Week-2	Definition of algorithm and flowchart, flow chart symbols
Week-3	Exercise of algorithm and flowchart development
Week-4	Computer languages: Higher level and Lower level Structure of C program
Week-5	C character set, Definition of constant, types of constants and data types, Definition of variable, variable naming rules
Week-6	Arithmetic operators, arithmetic expression and its evaluation Relational and Logical operations, expressions and its evaluations
Week-7	Increment/ Decrement operators, shorthand assignment operator, Conditional operator
Week-8	Simple programming demonstration using variables, constants and Arithmetic expression
Week-9	% codes, printf(), scanf() Backslash codes
Week-10	getchar(), getch(), getche(), putchar(), putch(), gets(), puts() Demonstration and programming exercise based on printf() and scanf()
Week-11	Decision making and branching: What is branching? Flow charts based on branching exercise.
Week-12	If... else statement Programming exercise and demonstration
Week-13	What is looping? Entry controlled and exit controlled looping while statement, for statement and related exercise
Week-14	do while statement and related exercise Demonstration on looping
Week-15	Doubt solving and revision work

Signature: _____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2020-21   Semester: 2

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-2 (Programming in C Language)

Week	Topic/ Sub topic
Week-1	Decision statement: if... else, nesting of if.. else, else if ladder Demonstration and programming exercise based on branching
Week-2	Switch statement and exercise based on switch goto and label statements
Week-3	Looping statements While, for and do... while statements and their demonstration
Week-4	Nested loops Demonstration and programming exercise based on nesting
Week-5	Mathematical library functions: pow(), abs(), sqrt(), ceil(), floor(), mod()
Week-6	Character testing/ conversion functions: isalpha(), isdigit(), isalnum(), isupper(), islower(), isprint(), isspace(), toupper(), tolower()
Week-7	What is array? Requirements of array with examples
Week-8	One dimensional array Demonstration and programming exercise based on one dimensional array
Week-9	Two dimensional array Demonstration and programming exercise based on two dimensional array
Week-10	String handling Functions: strlen(), strcpy(), strcat(), strcmp(), strupr(), strlwr(), strrev()
Week-11	User Defined Functions and its use/ benefits
Week-12	UDF: No arguments and No return value Demonstration and programming exercise
Week-13	UDF: Arguments and No return value Demonstration and programming exercise
Week-14	UDF: Arguments and return value Demonstration and programming exercise
Week-15	Doubt solving and Revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2020-21   Semester: 3

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-3 (Application Development using VB Part-I)

Week	Topic/ Sub topic
Week-1	Introduction of VB Visual Basic Programming environment
Week-2	IDE of VB Introduction of various controls in tool box
Week-3	Naming objects
Week-4	Form control and its properties, Life cycle of form related events Projects demonstration based on Form control
Week-5	Command button related common properties, special properties and Related events, project demonstration
Week-6	Text box related common properties, special properties and Related events, Related Projects
Week-7	Label related common properties, special properties and Related events, Difference between label and text box controls
Week-8	Projects based on label and text box Timer control and related project demonstration
Week-9	List box control and its related properties, events and methods With related project demonstrations
Week-10	List box control and its related properties, events and methods With related project demonstrations
Week-11	Combo box (combination of list box and text box) Horizontal Scroll Bar, Vertical Scroll Bar and related properties, events
Week-12	Option button, Frame and Check box with their properties Demonstration of related projects
Week-13	Drive List Box, Directory List Box and File List box Demonstration of related projects
Week-14	Image, Picture box and shape control with properties Demonstration of related projects
Week-15	Revision work and doubt solving with demonstration

Signature:

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2020-21   **Semester: 4**

Faculty: Arts/ Commerce   **Department: Computer Science**

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-4 (Application Development using VB Part-II)

Week	Topic/ Sub topic
Week-1	Variables, Constants, naming of variables and constants, Data types, declaration of variables and constants
Week-2	Scope of variables, Arithmetic, Relational and logical operators/ expressions Demonstration of related projects
Week-3	What is selection? Various formats of If...End If statement Demonstration of related projects
Week-4	Various formats Select Case statement Demonstration of related projects
Week-5	What is a Loop? Do While loop and nesting, Demonstration of related projects
Week-6	For...Next loop and Do... Loop Until with nesting, Demonstration of related projects
Week-7	Declaring and processing string and dates. Date and time handling
Week-8	What is Procedure? Types and use of procedure Passing parameters, Projects based on procedures.
Week-9	What is an Array? Declaration and use of one and two dimensional arrays. Demonstration of related projects
Week-10	Passing arrays to procedures, control arrays. Demonstration of related projects
Week-11	What is a data file? Type of data files (only concept) with examples of storage devices.
Week-12	Sequential file handling (Read, Write, Append) Demonstration of related projects
Week-13	Types of Menus and its features. Demonstration of related projects
Week-14	Revision work and doubt solving with demonstration
Week-15	Revision work and doubt solving with demonstration

Signature:

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2020-21   Semester: 5

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-5 (Introduction to DBMS)

Week	Topic/ Sub topic
Week-1	Concept of DBMS, Output using ?, ??, ???, Comments using *, &&, Note, Clear command
Week-2	Assignment and STORE, Unformatted Input using INPUT and ACCEPT. WAIT
Week-3	Use of @, Formatted Input/ Output using @ SAY, GET with various Practical examples
Week-4	Decision making and Branching Various formats of IF commands with programming exercise
Week-5	DO CASE... ENDCASE With programming exercise
Week-6	Decision making and Looping DO WHILE... ENDDO and its nesting
Week-7	FOR... ENDFOR and its nesting EXIT and LOOP
Week-8	One dimensional and two dimensional array With meaningful programming exercise
Week-9	Numeric and String Library functions
Week-10	String and Date/ Time functions
Week-11	Date and Time functions, Set commands
Week-12	Set commands
Week-13	Set commands
Week-14	Programming exercise
Week-15	Programming exercise and revision work

Signature: _____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: <u>2020-21</u>   Semester: <u>6</u>

Faculty: <u>Arts/ Commerce</u>   Department: <u>Computer Science</u>

Name of the faculty member: <u>Dr. J. A. Bhatt</u>

Name of the subject: <u>Computer Science-6 (Programming with DBMS)</u>

Week	Topic/ Sub topic
Week-1	Concept of DBMS, Creation of DBF using CREATE command Data types with the help of CREATE command. Practical Demonstration.
Week-2	Creating and executing a command file. USE and CLOSE commands APPEND command and demonstration.
Week-3	Scope options using LIST and DISPLAY commands
Week-4	Programming demonstration and exercise
Week-5	Editing EDIT, REPLACE, INSERT and BROWSE with practical demonstration
Week-6	Concept of work area using SELECT command Demonstration of multiple file handling
Week-7	Record movement commands GO, GO TOP, BO BOTTOM, SKIP and their demonstration
Week-8	DELETE, RECALL, PACK, ZAP commands and their demonstration
Week-9	LOCATE and CONTINUE commands with related programming exercise
Week-10	SORT command with various practical exercise
Week-11	Programming exercise based on SORT
Week-12	INDEX command with various practical exercise Use of FIND and SEEK commands
Week-13	SET commands (INDEX, ORDER, RELATION) with their practical demonstration
Week-14	SCAN ... ENDSCAN Command Doubt solving and revision
Week-15	Programming exercise and revision work

Signature: _____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: <u>2020-21</u>   Semester: <u>1</u>

Faculty: <u>Arts/ Commerce</u>   Department: <u>Computer Science</u>

Name of the faculty member: <u>Dr. J. A. Bhatt</u>

Name of the subject: <u>Computer Application in Business</u>

Week	Topic/ Sub topic
Week-1	Definition of computer and it's block diagram Characteristics of computers
Week-2	Generations of computers and types of computers
Week-3	Types of memory: RAM, ROM, PROM, EPROM, EEPROM
Week-4	Storage devices: Floppy Discs, Hard Disks, CD, DVD, Pen Drive
Week-5	Input Devices: Key board, Mouse, Scanner, MICR, Microphone, Barcode reader, Touch screen
Week-6	Output Devices: Visual Display Unit- CRT & LCD
Week-7	Printers: Impact printers- Daisy wheel, Dot matrix Non Impact- Drum, Ink jet and Laser
Week-8	Number Systems and Codes: Introduction of Number Systems- Decimal, Binary, Octal & Hexa Decimal
Week-9	Conversions: Decimal to Binary and Binary to Decimal
Week-10	Conversions: Decimal to Octal and Octal to Binary
Week-11	Conversions: Decimal to Hexa Decimal and Hexa Decimal to Decimal
Week-12	Inter conversions of all number systems
Week-13	Internet Basics: Concept, Email, Chatting, Conferencing, Internet Telephony Internet connection methods: Dial up and Leased line connections
Week-14	IP Address, DNS, FTP, WWW, Web browser
Week-15	Doubt solving and revision work

Signature: _____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2020-21   Semester: 2

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: E-Commerce and Use of RDBMS (MS-Access)

Week	Topic/ Sub topic
Week-1	Introduction Access Database and its Objects including Table, Query, Form, Reports, Macros and Modules, Page
Week-2	Creating Database Working with data including Insert, modify and delete records
Week-3	Navigating Database including records, find and replace
Week-4	Access data types Object naming rules
Week-5	Creating tables through wizard and design view, datasheet view
Week-6	Understanding field properties: field size, input mask, format, indexed, Required, Allow zero length, Validation rule , Validation text, Caption, Default value
Week-7	Primary keys, foreign key, composite key and candidate key Defining relationship and setting up the referential integrity
Week-8	Importing Exporting and Linking objects with another application
Week-9	Query: Understanding and creating different queries including select
Week-10	Action (append, delete, update, make-table) using wizard (cross-tab query, find duplicate query),
Week-11	Parameter query, Implementation of calculations and functions in queries
Week-12	Form: Understanding types forms and its properties
Week-13	What is E-Commerce? Types of E-Commerce: B to C, B to B, G to B
Week-14	M Commerce Doubt solving and revision work
Week-15	Doubt solving and revision work

Signature:

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2021-22   Semester: 1

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-1 (Programming Methodology using C Language)

Week	Topic/ Sub topic
Week-1	Introduction to Programming development tools Algorithm and Flowchart
Week-2	Definition of algorithm and flowchart, flow chart symbols
Week-3	Exercise of algorithm and flowchart development
Week-4	Computer languages: Higher level and Lower level Structure of C program
Week-5	C character set, Definition of constant, types of constants and data types, Definition of variable, variable naming rules
Week-6	Arithmetic operators, arithmetic expression and its evaluation Relational and Logical operations, expressions and its evaluations
Week-7	Increment/ Decrement operators, shorthand assignment operator, Conditional operator
Week-8	Simple programming demonstration using variables, constants and Arithmetic expression
Week-9	% codes, printf(), scanf() Backslash codes
Week-10	getchar(), getch(), getche(), putchar(), putch(), gets(), puts() Demonstration and programming exercise based on printf() and scanf()
Week-11	Decision making and branching: What is branching? Flow charts based on branching exercise.
Week-12	If... else statement Programming exercise and demonstration
Week-13	What is looping? Entry controlled and exit controlled looping while statement, for statement and related exercise
Week-14	do while statement and related exercise Demonstration on looping
Week-15	Doubt solving and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2021-22   **Semester: 2**

Faculty: Arts/ Commerce   **Department: Computer Science**

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-2 (Programming in C Language)

Week	Topic/ Sub topic
Week-1	Decision statement: if... else, nesting of if.. else, else if ladder Demonstration and programming exercise based on branching
Week-2	Switch statement and exercise based on switch goto and label statements
Week-3	Looping statements While, for and do... while statements and their demonstration
Week-4	Nested loops Demonstration and programming exercise based on nesting
Week-5	Mathematical library functions: pow(), abs(), sqrt(), ceil(), floor(), mod()
Week-6	Character testing/ conversion functions: isalpha(), isdigit(), isalnum(), isupper(), islower(), isprint(), isspace(), toupper(), tolower()
Week-7	What is array? Requirements of array with examples
Week-8	One dimensional array Demonstration and programming exercise based on one dimensional array
Week-9	Two dimensional array Demonstration and programming exercise based on two dimensional array
Week-10	String handling Functions: strlen(), strcpy(), strcat(), strcmp(), strupr(), strlwr(), strrev()
Week-11	User Defined Functions and its use/ benefits
Week-12	UDF: No arguments and No return value Demonstration and programming exercise
Week-13	UDF: Arguments and No return value Demonstration and programming exercise
Week-14	UDF: Arguments and return value Demonstration and programming exercise
Week-15	Doubt solving and Revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2021-22   **Semester: 3**

Faculty: Arts/ Commerce   **Department: Computer Science**

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-3 (Introduction to VB)

Week	Topic/ Sub topic
Week-1	Introduction of VB Visual Basic Programming environment
Week-2	IDE of VB Introduction of various controls in tool box
Week-3	Naming objects
Week-4	Form control and its properties, Life cycle of form related events Projects demonstration based on Form control
Week-5	Command button related common properties, special properties and Related events, project demonstration
Week-6	Text box related common properties, special properties and Related events, Related Projects
Week-7	Label related common properties, special properties and Related events, Difference between label and text box controls
Week-8	Projects based on label and text box Timer control and related project demonstration
Week-9	List box control and its related properties, events and methods With related project demonstrations
Week-10	List box control and its related properties, events and methods With related project demonstrations
Week-11	Combo box (combination of list box and text box) Horizontal Scroll Bar, Vertical Scroll Bar and related properties, events
Week-12	Option button, Frame and Check box with their properties Demonstration of related projects
Week-13	Drive List Box, Directory List Box and File List box Demonstration of related projects
Week-14	Image, Picture box and shape control with properties Demonstration of related projects
Week-15	Revision work and doubt solving with demonstration

Signature:

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2021-22   **Semester:** 4

Faculty: Arts/ Commerce   **Department: Computer Science**

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-4 (Application Development using VB Part-II)

Week	Topic/ Sub topic
Week-1	Variables, Constants, naming of variables and constants, Data types, declaration of variables and constants
Week-2	Scope of variables, Arithmetic, Relational and logical operators/ expressions Demonstration of related projects
Week-3	What is selection? Various formats of If...End If statement Demonstration of related projects
Week-4	Various formats Select Case statement Demonstration of related projects
Week-5	What is a Loop? Do While loop and nesting, Demonstration of related projects
Week-6	For...Next loop and Do... Loop Until with nesting, Demonstration of related projects
Week-7	Declaring and processing string and dates. Date and time handling
Week-8	What is Procedure? Types and use of procedure Passing parameters, Projects based on procedures.
Week-9	What is an Array? Declaration and use of one and two dimensional arrays. Demonstration of related projects
Week-10	Passing arrays to procedures, control arrays. Demonstration of related projects
Week-11	What is a data file? Type of data files (only concept) with examples of storage devices.
Week-12	Sequential file handling (Read, Write, Append) Demonstration of related projects
Week-13	Types of Menus and its features. Demonstration of related projects
Week-14	Revision work and doubt solving with demonstration
Week-15	Revision work and doubt solving with demonstration

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2021-22   Semester: 5

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-5 (Introduction to DBMS)

Week	Topic/ Sub topic
Week-1	Concept of DBMS, Output using ?, ??, ???, Comments using *, &&, Note, Clear command
Week-2	Assignment and STORE, Unformatted Input using INPUT and ACCEPT, WAIT
Week-3	Use of @, Formatted Input/ Output using @ SAY, GET with various Practical examples
Week-4	Decision making and Branching Various formats of IF commands with programming exercise
Week-5	DO CASE... ENDCASE With programming exercise
Week-6	Decision making and Looping DO WHILE... ENDDO and its nesting
Week-7	FOR... ENDFOR and its nesting EXIT and LOOP
Week-8	One dimensional and two dimensional array With meaningful programming exercise
Week-9	Numeric and String Library functions
Week-10	String and Date/ Time functions
Week-11	Date and Time functions, Set commands
Week-12	Set commands
Week-13	Set commands
Week-14	Programming exercise
Week-15	Programming exercise and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2021-22   Semester: 6

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-6 (Programming with DBMS)

Week	Topic/ Sub topic
Week-1	Concept of DBMS, Creation of DBF using CREATE command Data types with the help of CREATE command. Practical Demonstration.
Week-2	Creating and executing a command file. USE and CLOSE commands APPEND command and demonstration.
Week-3	Scope options using LIST and DISPLAY commands
Week-4	Programming demonstration and exercise
Week-5	Editing EDIT, REPLACE, INSERT and BROWSE with practical demonstration
Week-6	Concept of work area using SELECT command Demonstration of multiple file handling
Week-7	Record movement commands GO, GO TOP, BO BOTTOM, SKIP and their demonstration
Week-8	DELETE, RECALL, PACK, ZAP commands and their demonstration
Week-9	LOCATE and CONTINUE commands with related programming exercise
Week-10	SORT command with various practical exercise
Week-11	Programming exercise based on SORT
Week-12	INDEX command with various practical exercise Use of FIND and SEEK commands
Week-13	SET commands (INDEX, ORDER, RELATION) with their practical demonstration
Week-14	SCAN ... ENDSCAN Command Doubt solving and revision
Week-15	Programming exercise and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2021-22   Semester: 1

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Application in Business

Week	Topic/ Sub topic
Week-1	Definition of computer and it's block diagram Characteristics of computers
Week-2	Generations of computers and types of computers
Week-3	Types of memory: RAM, ROM, PROM, EPROM, EEPROM
Week-4	Storage devices: Floppy Discs, Hard Disks, CD, DVD, Pen Drive
Week-5	Input Devices: Key board, Mouse, Scanner, MICR, Microphone, Barcode reader, Touch screen
Week-6	Output Devices: Visual Display Unit- CRT & LCD
Week-7	Printers: Impact printers- Daisy wheel, Dot matrix Non Impact- Drum, Ink jet and Laser
Week-8	Number Systems and Codes: Introduction of Number Systems- Decimal, Binary, Octal & Hexa Decimal
Week-9	Conversions: Decimal to Binary and Binary to Decimal
Week-10	Conversions: Decimal to Octal and Octal to Binary
Week-11	Conversions: Decimal to Hexa Decimal and Hexa Decimal to Decimal
Week-12	Inter conversions of all number systems
Week-13	Internet Basics: Concept, Email, Chatting, Conferencing, Internet Telephony Internet connection methods: Dial up and Leased line connections
Week-14	IP Address, DNS, FTP, WWW, Web browser
Week-15	Doubt solving and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2021-22   Semester: 2

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: E-Commerce and Use of RDBMS (MS-Access)

Week	Topic/ Sub topic
Week-1	Introduction Access Database and its Objects including Table, Query, Form, Reports, Macros and Modules, Page
Week-2	Creating Database Working with data including insert, modify and delete records
Week-3	Navigating Database including records, find and replace
Week-4	Access data types Object naming rules
Week-5	Creating tables through wizard and design view, datasheet view
Week-6	Understanding field properties: field size, input mask, format, indexed, Required, Allow zero length, Validation rule , Validation text, Caption, Default value
Week-7	Primary keys, foreign key, composite key and candidate key Defining relationship and setting up the referential integrity
Week-8	Importing Exporting and Linking objects with another application
Week-9	Query: Understanding and creating different queries including select
Week-10	Action (append, delete, update, make-table) using wizard (cross-tab query, find duplicate query).
Week-11	Parameter query, Implementation of calculations and functions in queries
Week-12	Form: Understanding types forms and its properties
Week-13	What is E-Commerce? Types of E-Commerce: B to C, B to B, G to B
Week-14	M Commerce Doubt solving and revision work
Week-15	Doubt solving and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2022-23   **Semester: 1**

Faculty: Arts/ Commerce   **Department: Computer Science**

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-1 (Programming Methodology using C Language)

Week	Topic/ Sub topic
Week-1	Introduction to Programming development tools Algorithm and Flowchart
Week-2	Definition of algorithm and flowchart, flow chart symbols
Week-3	Exercise of algorithm and flowchart development
Week-4	Computer languages: Higher level and Lower level Structure of C program
Week-5	C character set, Definition of constant, types of constants and data types. Definition of variable, variable naming rules
Week-6	Arithmetic operators, arithmetic expression and its evaluation Relational and Logical operations, expressions and its evaluations
Week-7	Increment/ Decrement operators, shorthand assignment operator, Conditional operator
Week-8	Simple programming demonstration using variables, constants and Arithmetic expression
Week-9	% codes, printf(), scanf() Backslash codes
Week-10	getchar(), getch(), getche(), putchar(), putch(), gets(), puts() Demonstration and programming exercise based on printf() and scanf()
Week-11	Decision making and branching: What is branching? Flow charts based on branching exercise.
Week-12	If... else statement Programming exercise and demonstration
Week-13	What is looping? Entry controlled and exit controlled looping while statement, for statement and related exercise
Week-14	do while statement and related exercise Demonstration on looping
Week-15	Doubt solving and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2022-23   Semester: 2

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-2 (Programming in C Language)

Week	Topic/ Sub topic
Week-1	Decision statement: if… else, nesting of if.. else, else if ladder Demonstration and programming exercise based on branching
Week-2	Switch statement and exercise based on switch goto and label statements
Week-3	Looping statements While, for and do… while statements and their demonstration
Week-4	Nested loops Demonstration and programming exercise based on nesting
Week-5	Mathematical library functions: pow(), abs(), sqrt(), ceil(), floor(), mod()
Week-6	Character testing/ conversion functions: isalpha(), isdigit(), isalnum(), isupper(), islower(), isprint(), isspace(), toupper(), tolower()
Week-7	What is array? Requirements of array with examples
Week-8	One dimensional array Demonstration and programming exercise based on one dimensional array
Week-9	Two dimensional array Demonstration and programming exercise based on two dimensional array
Week-10	String handling Functions: strlen(), strcpy(), strcat(), strcmp(), strupr(), strlwr(), strrev()
Week-11	User Defined Functions and its use/ benefits
Week-12	UDF: No arguments and No return value Demonstration and programming exercise
Week-13	UDF: Arguments and No return value Demonstration and programming exercise
Week-14	UDF: Arguments and return value Demonstration and programming exercise
Week-15	Doubt solving and Revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2022-23   Semester: 3

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-3 (Introduction to VB)

Week	Topic/ Sub topic
Week-1	Introduction of VB Visual Basic Programming environment
Week-2	IDE of VB Introduction of various controls in tool box
Week-3	Naming objects
Week-4	Form control and its properties, Life cycle of form related events Projects demonstration based on Form control
Week-5	Command button related common properties, special properties and Related events, project demonstration
Week-6	Text box related common properties, special properties and Related events, Related Projects
Week-7	Label related common properties, special properties and Related events, Difference between label and text box controls
Week-8	Projects based on label and text box Timer control and related project demonstration
Week-9	List box control and its related properties, events and methods With related project demonstrations
Week-10	List box control and its related properties, events and methods With related project demonstrations
Week-11	Combo box (combination of list box and text box) Horizontal Scroll Bar, Vertical Scroll Bar and related properties, events
Week-12	Option button, Frame and Check box with their properties Demonstration of related projects
Week-13	Drive List Box, Directory List Box and File List box Demonstration of related projects
Week-14	Image, Picture box and shape control with properties Demonstration of related projects
Week-15	Revision work and doubt solving with demonstration

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2022-23   Semester: 4

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-4 (Application Development using VB Part-II)

Week	Topic/ Sub topic
Week-1	Variables, Constants, naming of variables and constants, Data types, declaration of variables and constants
Week-2	Scope of variables, Arithmetic, Relational and logical operators/ expressions Demonstration of related projects
Week-3	What is selection? Various formats of If…End If statement Demonstration of related projects
Week-4	Various formats Select Case statement Demonstration of related projects
Week-5	What is a Loop? Do While loop and nesting. Demonstration of related projects
Week-6	For…Next loop and Do… Loop Until with nesting. Demonstration of related projects
Week-7	Declaring and processing string and dates. Date and time handling
Week-8	What is Procedure? Types and use of procedure Passing parameters, Projects based on procedures.
Week-9	What is an Array? Declaration and use of one and two dimensional arrays. Demonstration of related projects
Week-10	Passing arrays to procedures, control arrays. Demonstration of related projects
Week-11	What is a data file? Type of data files (only concept) with examples of storage devices.
Week-12	Sequential file handling (Read, Write, Append) Demonstration of related projects
Week-13	Types of Menus and its features. Demonstration of related projects
Week-14	Revision work and doubt solving with demonstration
Week-15	Revision work and doubt solving with demonstration

Signature: _____

Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2022-23   Semester: 5

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-5 (Introduction to DBMS)

Week	Topic/ Sub topic
Week-1	Concept of DBMS, Output using ?, ??, ???, Comments using *, &&, Note, Clear command
Week-2	Assignment and STORE, Unformatted Input using INPUT and ACCEPT, WAIT
Week-3	Use of @, Formatted Input/ Output using @ SAY, GET with various Practical examples
Week-4	Decision making and Branching Various formats of IF commands with programming exercise
Week-5	DO CASE... ENDCASE With programming exercise
Week-6	Decision making and Looping DO WHILE... ENDDO and its nesting
Week-7	FOR... ENDFOR and its nesting EXIT and LOOP
Week-8	One dimensional and two dimensional array With meaningful programming exercise
Week-9	Numeric and String Library functions
Week-10	String and Date/ Time functions
Week-11	Date and Time functions, Set commands
Week-12	Set commands
Week-13	Set commands
Week-14	Programming exercise
Week-15	Programming exercise and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2022-23   Semester: 6

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Science-6 (Programming with DBMS)

Week	Topic/ Sub topic
Week-1	Concept of DBMS, Creation of DBF using CREATE command Data types with the help of CREATE command. Practical Demonstration
Week-2	Creating and executing a command file. USE and CLOSE commands APPEND command and demonstration.
Week-3	Scope options using LIST and DISPLAY commands
Week-4	Programming demonstration and exercise
Week-5	Editing EDIT, REPLACE, INSERT and BROWSE with practical demonstration
Week-6	Concept of work area using SELECT command Demonstration of multiple file handling
Week-7	Record movement commands GO, GO TOP, BO BOTTOM, SKIP and their demonstration
Week-8	DELETE, RECALL, PACK, ZAP commands and their demonstration
Week-9	LOCATE and CONTINUE commands with related programming exercise
Week-10	SORT command with various practical exercise
Week-11	Programming exercise based on SORT
Week-12	INDEX command with various practical exercise Use of FIND and SEEK commands
Week-13	SET commands (INDEX, ORDER, RELATION) with their practical demonstration
Week-14	SCAN ... ENDSCAN Command Doubt solving and revision
Week-15	Programming exercise and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: 2022-23   Semester: 1

Faculty: Arts/ Commerce   Department: Computer Science

Name of the faculty member: Dr. J. A. Bhatt

Name of the subject: Computer Application in Business

Week	Topic/ Sub topic
Week-1	Definition of computer and it's block diagram Characteristics of computers
Week-2	Generations of computers and types of computers
Week-3	Types of memory: RAM, ROM, PROM, EPROM, EEPROM
Week-4	Storage devices: Floppy Discs, Hard Disks, CD, DVD, Pen Drive
Week-5	Input Devices: Key board, Mouse, Scanner, MICR, Microphone, Barcode reader, Touch screen
Week-6	Output Devices: Visual Display Unit- CRT & LCD
Week-7	Printers: Impact printers- Daisy wheel, Dot matrix Non Impact- Drum, Ink jet and Laser
Week-8	Number Systems and Codes: Introduction of Number Systems- Decimal, Binary, Octal & Hexa Decimal
Week-9	Conversions: Decimal to Binary and Binary to Decimal
Week-10	Conversions: Decimal to Octal and Octal to Binary
Week-11	Conversions: Decimal to Hexa Decimal and Hexa Decimal to Decimal
Week-12	Inter conversions of all number systems
Week-13	Internet Basics: Concept, Email, Chatting, Conferencing, Internet Telephony Internet connection methods: Dial up and Leased line connections
Week-14	IP Address, DNS, FTP, WWW, Web browser
Week-15	Doubt solving and revision work

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Gurukul Mahila Arts and Commerce College, Porbandar

Teaching Plan for Academic Year: <u>2022-23</u> Semester: <u>2</u>

Faculty: <u>Arts/ Commerce</u> Department: <u>Computer Science</u>

Name of the faculty member: <u>Dr. J. A. Bhatt</u>

Name of the subject: <u>E-Commerce and Use of RDBMS (MS-Access)</u>

Week	Topic/ Sub topic
Week-1	Introduction Access Database and its Objects including Table, Query, Form, Reports, Macros and Modules, Page
Week-2	Creating Database Working with data including insert, modify and delete records
Week-3	Navigating Database including records, find and replace
Week-4	Access data types Object naming rules
Week-5	Creating tables through wizard and design view, datasheet view
Week-6	Understanding field properties: field size, input mask, format, indexed, Required, Allow zero length, Validation rule , Validation text, Caption, Default value
Week-7	Primary keys, foreign key, composite key and candidate key Defining relationship and setting up the referential integrity
Week-8	Importing Exporting and Linking objects with another application
Week-9	Query: Understanding and creating different queries including select
Week-10	Action (append, delete, update, make-table) using wizard (cross-tab query, find duplicate query),
Week-11	Parameter query, Implementation of calculations and functions in queries
Week-12	Form: Understanding types forms and its properties
Week-13	What is E-Commerce? Types of E-Commerce: B to C, B to B, G to B
Week-14	M Commerce Doubt solving and revision work
Week-15	Doubt solving and revision work

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