

Vivekanand College, Kolhapur (Autonomous)

Department of Computer Science Entire

Academic Year: 2021-2022

Syllabus Completion Plan

Name of the teacher: Pallavi M Dessai

Programme B.Sc computer science entire Semester-I

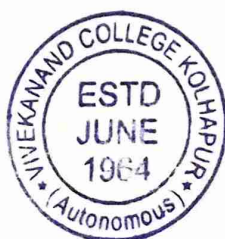
Subject:- computer science Course Title: Programming in C-I

Month :-	Module/Unit:	Sub-units planned
October	Programming Concepts	Program and programming, Programming languages, Algorithm: Definition, Examples Characteristics of an algorithm, Notation of Algorithm, Pseudo code conventions Flowcharts- Definition, Symbol, features.
November	Introduction to C	History of 'C', Structure of 'C' program, Program execution phases, Character set and keywords, Constant and its type, Variable and its Data types in 'C', Operators, operator precedence Programming examples
December	Input-Output Statements Control Structures	Character input-output ,String input-output , Formatted input-output - printf(), scanf(), Conditional Control Statements
January	Control Structures	Multiple Branching Control Statement –switch-case Loop Control Statements –while –do-while –for –Nested Loops Jump Control statements –break –continue –goto –exit

Name and sign of teacher

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Vivekanand College, Kolhapur (Autonomous)

Department of Computer Science Entire

Academic Year: 2021-2022

Syllabus Completion

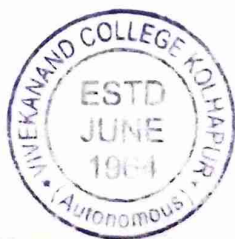
Name of the teacher: Pallavi M Dessai

Programme B.Sc computer science entire Semester-II

Subject:- computer science Course Title: Programming in C-II

Month	Module/Unit:	Sub-units planned
Month March	Arrays and strings	Array –One dimensional arrays Two dimensional arrays, Initializing strings, Reading string , string handling functions
Month : April	Function Pointer, dynamic memory allocation and Structure	What is function? Advantages of using functions, Function Prototype –Defining a function, Calling a function ,Return statement ,Types of functions ,Recursion, Local and global variables Def of Pointer, Declaration of Pointer Variables, Assigning Address to Pointer Variables ,De-referencing Pointer Variables,
Month : May	Pointer, dynamic memory allocation and Structure	Pointer Arithmetic –Pointer comparisons –De-reference and increment pointer –Null pointer , Parameter Passing Techniques – call by value, call by address, Dynamic memory allocation. Why is structure used? What is structure? Advantages of structures, Defining a Structure , Declaration of Structure Variables , Initialization of Structure Variables , Accessing Structure Members , Storage of Structures in Memory ,Size of Structures, Reading and Displaying Structure Variables , Assignment of Structure Variables , Pointers to structures, Array of structures , Arrays within structures , Nested structures
Month : June	File Handling	Concept of File ,Text and binary files, Opening and closing files, File opening mode, character and integer handling ,Formatted output

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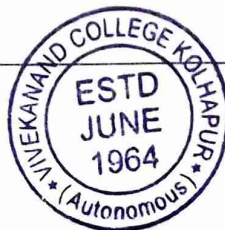
Name of the teacher: Miss Pallavi M. Dessai

Programme B.Sc. computer science entire Semester-V


Subject computer science

Course Title: Operating system

Month	Module/Unit:	Sub-units planned
Month October	Operating System overview	Introduction and definition of operating system Objectives and function Types of operating system ,Operating system services , Protection: input output, memory and CPU protection System calls: types of system calls and system call implementation , System programs and application programs
Month November	Process Management	Process concept, Process states, Process control block (PCB) Context switching , Threads, concept of multithreads, benefits of threads and types of threads Process scheduling: scheduling objectives, types of schedulers, scheduling criteria, scheduling algorithms- Preemptive and non-preemptive. Process synchronization, critical section problem, semaphores.
Month December	Memory Management	Logical and physical address map , Swapping Memory allocation- contiguous memory allocation- fixed and variable partition, internal and external fragmentation and compaction. Paging and virtual memory, demand paging, locality of reference, page fault, dirty page/ dirty bit, page replacement policies Disk structure, Disk scheduling-
Month :-January	File management and Deadlocks	File concept, access methods- sequential and direct, file types and operations Directory structure- single level, two level, tree structure, acyclic graph, general graph directory structure Allocation method- contiguous, linked and



		indexed Definition of deadlock, characteristics Deadlock prevention, detection and recovery
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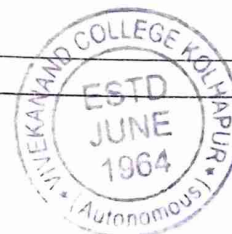
Department of Computer Science Entire

Academic Year: 2021-2022

Syllabus Completion

Name of the teacher: Pallavi M. Dessai
 Programme B.Sc computer science entire Semester-VI
 Subject: computer science
 Course Title: Linux operating system

Month :	Module/Unit:	Sub-units planned
March	Linux Basics	What is an OS? What is Linux, history of Linux, Linux distribution The shell, kernel, Linux file system, login, logout Different general purpose utility commands (GPU) Concept of directory, home directory, directory handling commands- relative and absolute path Basic file attributes metacharacters. Access permission chmod command File handling commands, pipe
Month : April	Basic filters	What is a filter, head, tail, sort, grep, sed, awk regular expressions and its types ,environment variables, concept of process, PID, PS, KILL, FREE
Month : May	Module/Unit:	Sub-units planned



	VI editor	What is the VI editor-command mode, insert mode, last line mode VI editing commands, moving within a file, saving and closing the file Command mode movement, command mode-making changes, repeating VI actions
Month : June	Module/Unit:	Sub-units planned
	Essential shell programming	Linux shells, shell scripting, running a shell script Statements- read, echo, exit, expr Conditional statements- test, if, case Looping statements- while, until, for Positional parameters- set, shift

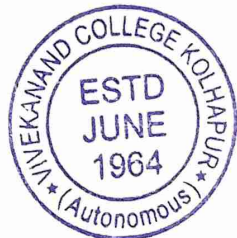


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Vivekanand College, Kolhapur (Autonomous)

Department of B.Sc CS (Entire)

Academic Year: 2021-22

Syllabus Completion Report

Name of the teacher: Mr Rajesh R Mane

Subject: Computer Science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-I	I	Introduction To computers and C-programming-I	Unit 1. I-Introduction to Computer and Basic Organization Unit 2:Input, Output Devices and Concept of Memory Unit 3:Operating System concepts Unit 4:MS-POWER POINT,Excel & Access Practical's Fundamentals of computers	Unit 1. I-Introduction to Computer and Basic Organization Unit 2:Input, Output Devices and Concept of Memory Unit 3:Operating System concepts Unit 4:MS-POWER POINT,Excel & Access Practical's Fundamentals of computers	----	Completed
BCS-I	II	A Introduction to computers and programming using C-II	Unit 1: Computer Network Basic Concepts Unit 2: Introduction To HTML Unit 3: IMAGES,MAPS.FORMS, TABLES,Frames Unit 4: Introduction to CSS Practical's Fundamentals of computers	Unit 1: Computer Network Basic Concepts Unit 2: Introduction To HTML Unit 3: IMAGES,MAPS.FORMS, TABLES,Frames Unit 4: Introduction to CSS Practical's Fundamentals of computers	----	Completed

MR Rajesh R Mane



Miss Pallavi M. Dessai
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Department of B.Sc CS (Entire)

Academic Year: 2021-22

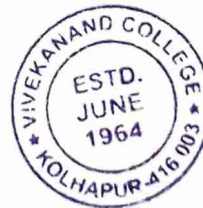
Syllabus Completion Report

Name of the teacher: **Mr. Rajesh R Mane**

Subject: **Computer Science**

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-III	V	E-Commerce	5. Introduction to E-commerce 6. EDI 7. E Payment system 8. Security Issues & Threats Practical's Fundamentals of computers	5. Introduction to E-commerce 6. EDI 7. E Payment system 8. Security Issues & Threats Practical's Fundamentals of computers	----	Completed
BCS-III	VI	Data warehouse and mining	4. Introduction to data Warehousing 5. Introduction to data mining 6. Data preprocessing and association rule mining 4. Classification, prediction and clustering Practical's Fundamentals of computers	4. Introduction to data Warehousing 5. Introduction to data mining 6. Data preprocessing and association rule mining 4. Classification, prediction and clustering Practical's Fundamentals of computers	-----	Completed

RR
Mr. Rajesh R. Mane



P. Dessai
Miss Pallavi M. Dessai
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Department of Computer Science (Entrire)

Academic Year: 2021-22

Syllabus Completion

Name of the teacher: Vaishali Chandrashekhar Dalvi

Programme: B.Sc. Computer Science (Entrire) III Semester- V

Subject: Computer Science

Course Title: Introduction to C#Net

MONTHS	UNIT NAME	POINTS TO BE COVERED
OCTOBER	I- .net Framework	Event Driven programming, Introduction to framework.. NET architecture. CLR, CTS, JIT compiler, MSIL, .NET framework class library. Garbage collection. Assemblies.
NOVEMBER	II-C#.NET basics.	.NET development environment, data types, operators,
DECEMBER	III-OOPS concepts with C#.Net	Class and Objects Properties, methods and events. Constructors and destructors Method overloading & overriding. Inheritance, Access modifiers. Interface, Polymorphism.
JANUARY	IV- Windows applications in c#.Net	Windows forms Controls Mouse Events Keyboard events.

Name and Signature of Teacher

Vaishali C. Dalvi

Name and Signature of HoD

Pallavi M. Dessai



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Department of Computer Science (Entrire)

Academic Year: 2021-22

Syllabus Completion

Name of the teacher: Vaishali Chandrashekhar Dalvi

Programme: B.Sc. Computer Science (Entrire) III Semester- VI

Subject: Computer Science

Course Title: Introduction to ASP.Net

MONTHS	UNIT NAME	POINTS TO BE COVERED
MARCH	I-Exception Handling	control structure, procedures. Exception Handling. Classes and objects. Console application.
APRIL	II- Database connectivity in C#.NET	Database, Connection to database using MS-Access, Data binding with controls, Data form wizards. Data validations.
MAY	III-Using Crystal Reports	Conenctions to Database, Tables Create, modify reports. Formatting Fields and inserting Header and footers. Working with multiple tables.
JUN	IV-ASP.NET with C#.NET	Introduction to ASP.net Working with web controls.

Name and Signature of Teacher

Vaishali C. Dalvi

Name and Signature of HoD

Pallavi M. Dessai



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Vivekanand College, Kolhapur (Autonomous)

Department of Computer Science (Entire)

Academic Year: 2021-22

Syllabus Completion Report

Name of the teacher: Miss NITA N.BARGALE

Subject: computer science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-III	V	DSE-1305E Section-I Core Java	Unit 1: introduction to java Unit 2: control statement, class and object	Unit 1: introduction to java Unit 2: control statement, class and object	----	Completed
B. Sc-III	V	DSE-1305E Section-I Core Java	Unit 3: package ,inheritance and interface Unit 4:Exception handling and multithreading	Unit 3: package ,inheritance and interface Unit 4:Exception handling and multithreading	----	Completed
B. Sc-III	VI	DSE-1305F Section –I Advance java	Unit 1: 1: User Interface Components with AWT and Swing Unit 2:JDBC	Unit 1: 1: User Interface Components with AWT and Swing Unit 2:JDBC	----	Completed
B. Sc-III	VI	DSE-1305F Section –I Advance java	Unit 3 : servlet Unit 4: jsp	Unit 3 : servlet Unit 4: jsp	----	completed
B. Sc-III	V	Practicals	All Practicals	All Practicals	----	Completed
B. Sc-III	VI	Practicals	All Practicals	All Practicals	----	Completed


Miss Nita N.Bargale




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Department of B.Sc CS (Entire)

Academic Year: 2021-22

Syllabus Completion Report

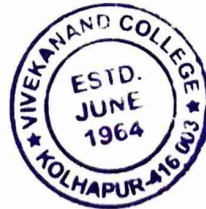
Name of the teacher: Miss Radhika M. Patil

Subject: Computer Science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Cover	Remarks
BCS-II	III	Object Oriented Programming Using C++	Unit 1: Introduction to C++ and Basics of Object Oriented programming Concepts Unit 2: Class and Object Unit 3: Constructor, Destructor, Operator Overloading Unit 4: Inheritance and Polymorphism	Unit 1: Introduction to C++ and Basics of Object Oriented programming Concepts Unit 2: Class and Object Unit 3: Constructor, Destructor, Operator Overloading Unit 4: Inheritance and Polymorphism	----	Completed
BCS-II	IV	Introduction to Data Structure using C++	Unit 1: Introduction to Data structure and Linear Data Structures Unit 2: Stack and Queue Unit 3: Linked List, Trees, Searching and Sorting algorithms Unit 4: Searching and Sorting	Unit 1: Introduction to Data structure and Linear Data Structures Unit 2: Stack and Queue Unit 3: Linked List, Trees, Searching and Sorting algorithms Unit 4: Searching and Sorting	----	Completed
BCS-II	III and IV	C++, MySQL and Data Structure Programs	ALL Practical Assignments	ALL Practical Assignments	----	Completed
BCS-III	V	Data Communication	Unit 1: Basics of Data communication Unit 2: Transmission media and modes Unit 3: Multiplexing and Switching, Protocols and Standards Unit 4: Physical Layer and Data Link Layer	Unit 1: Basics of Data communication Unit 2: Transmission media and modes Unit 3: Multiplexing and Switching, Protocols and Standards Unit 4: Physical Layer and Data Link Layer	----	Completed
BCS-III	VI	Computer Network	Unit 1: Data Link Layer Protocols and network layer. Unit 2: Network Layer and Transport Layer Unit 3: Session and Presentation layer Unit 4: Application layer	Unit 1: Data Link Layer Protocols and network layer. Unit 2: Network Layer and Transport Layer Unit 3: Session and Presentation layer Unit 4: Application layer	----	Completed

Radhika M. Patil

Miss Radhika M. Patil



Pallavi M. Dessai

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Department of B.Sc CS (Entire)

Academic Year: 2021-22

Syllabus Completion Report

Name of the teacher: Miss Nadiya D.Patel

Subject: Computer Science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remark
BCS-III	V	Software Engineering with UML	1. Introduction to software engineering and process models 2. Introduction to Requirements Analysis and specification and UML 3. UML Diagrams- I 4. UML Diagrams- II and introduction to Software Testing	1. Introduction to software engineering and process models 2. Introduction to Requirements Analysis and specification and UML 3. UML Diagrams- I 4. UML Diagrams- II and introduction to Software Testing	-----	Comple
BCS-III	VI	Introduction to Artificial Intelligence and Expert Systems	1.Introduction to Artificial Intelligence 2.Introduction to Intelligent System 3.Problem Solving in A.I. 4. Introduction to Expert System	1.Introduction to Artificial Intelligence 2.Introduction to Intelligent System 3.Problem Solving in A.I. 4. Introduction to Expert System		
BCS-II	III	Practical's Operating System and Linux V and VI	ALL	ALL	-----	Comple

Miss Nadiya D. Patel



Miss Pallavi M. Dessai

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Vivekanand College, Kolhapur (Autonomous)
 Department of B.Sc. Computer Science Entire
 Academic Year: 2021-22
 Syllabus Completion Report

Name of the Teacher: Mr. N. P. Mote

Subject: Electronics

Class	Se m	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remark
B. Sc. Computer Science Entire -I	I	GEC-1301 A Electronics Paper I Analog Electronics I and Digital Electronics I	Unit 1: Basic circuit elements Unit 2:DC Circuit Analysis Unit 3:Semiconductor Diodes Unit 4:DC Power Supply	Unit 1:Basic circuit elements Unit 2:DC Circuit Analysis Unit 3:Semiconductor Diodes Unit 4:DC Power Supply	----	Completed
B. Sc. Computer Science Entire -I	II	GEC-1301 B Electronics Paper II Analog Electronics II and Digital Electronics II	Unit 1:Bipolar Junction Transistor Unit 2:Field Effect Transistor Unit 3:Amplifiers and Oscillators Unit 4: Operational Amplifier	Unit 1:Bipolar Junction Transistor Unit 2:Field Effect Transistor Unit 3:Amplifiers and Oscillators Unit 4: Operational Amplifier	----	Completed
B. Sc. Computer Science Entire - II	III	GEC-1301 C Computer Instrumentation And Organization, Processor Programming	Unit 1: Transducers and Sensors Unit 2: Signal conditioning Unit 3: Data Converters Unit 4: Digital Instruments	Unit 1: Transducers and Sensors Unit 2: Signal conditioning Unit 3: Data Converters Unit 4: Digital Instruments	----	Completed
B. Sc. Computer Science Entire II	IV	GEC-1301 D Communication Principles And 8051 Microcontroller Interfacing, Programming	Unit 1:Introduction to Electronic Communication Unit 2: Modulation and Demodulation Unit 3: Multiplexing and Multiple Access Techniques Unit 4: Mobile communication	Unit 1:Introduction to Electronic Communication Unit 2: Modulation and Demodulation Unit 3: Multiplexing and Multiple Access Techniques Unit 4: Mobile communication	----	Completed
B. Sc. Computer Science Entire -I	I&I I	Practicals	20Practicals	20Practicals	----	Completed
B. Sc. Computer Science Entire - II	III & IV	Practicals	20Practicals	20Practicals	----	Completed

Mr. N. P. Mote




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Vivekanand College, Kolhapur (Autonomous)

Department of Electronics

Academic Year: 2021-22

Syllabus Completion Report

Name of the teacher: Dr. Milind S. Patil

Subject: Electronics

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-I	I	GEC-1301 A Section- I Electronics Paper I Analog Electronics I and Digital Electronics I	Unit 1: Number System, Binary Codes and Binary Arithmetic Unit 2: Logic Gates and Boolean Algebra Unit 3: Combinational Circuits Unit 4: Sequential Circuits	Unit 1: Number System, Binary Codes and Binary Arithmetic Unit 2: Logic Gates and Boolean Algebra Unit 3: Combinational Circuits Unit 4: Sequential Circuits	-----	Completed
BCS-II	III	GEC-1301 C Section- II Computer Instrumentation And Organization, Processor Programming	Unit 1: Computer organization Unit 2: The Art of Assembly Language Programming Unit 3: Instruction Set of 8086 microprocessor Unit 4: Assembly programming	Unit 1: Computer organization Unit 2: The Art of Assembly Language Programming Unit 3: Instruction Set of 8086 microprocessor Unit 4: Assembly programming	-----	Completed
BCS-I	II	GEC-1301 B Section- I Electronics Paper II Analog Electronics II and Digital Electronics II	Unit 1: Multivibrators, Unit 2: Memory devices and memory Organization, Unit 3: Introduction to Microprocessor, Unit 4: Instruction Set and Programming of 8085 Microprocessor	Unit 1: Multivibrators, Unit 2: Memory devices and memory Organization, Unit 3: Introduction to Microprocessor, Unit 4: Instruction Set and Programming of 8085 Microprocessor	-----	Completed
BCS-II	IV	GEC-1301 D Section- II Communication Principles And 8051 Microcontroller Interfacing, Programming	Unit 1: Introduction To Microcontroller Unit 2: 8051 Instruction Set Unit 3: Facilities In 8051 Unit 4: Real World Interfacing	Unit 1: Introduction To Microcontroller Unit 2: 8051 Instruction Set Unit 3: Facilities In 8051 Unit 4: Real World Interfacing	-----	Completed



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Department of B.Sc CS (Entire)

Academic Year: 2021-22

Syllabus Completion Report

Subject: Statistics

Name of the teacher: Mr.A.A.Pawar

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Cover	Remarks
BCS-I	I	Descriptive statistics-I	Unit 1: Introduction Unit 2: Measure of Central Tendency Unit 3: Measures of dispersion Unit 4: Moments, Skewness and Kurtosis	Unit 1: Introduction Unit 2: Measure of Central Tendency Unit 3: Measures of dispersion Unit 4: Moments, Skewness and Kurtosis	----	Completed
BCS-I	II	Probability and Discrete Probability Distributions-I	Unit 1: Probability: Unit 2: Conditional probability and independence of events Unit 3: Univariate probability distributions Unit 4: Some standard discrete probability distributions	Unit 1: Probability: Unit 2: Conditional probability and independence of events Unit 3: Univariate probability distributions Unit 4: Some standard discrete probability distributions	----	Completed
BCS-I	II	Descriptive statistics-II	Unit 1: Correlation (for ungrouped data) Unit 2: Regression (for ungrouped data) Unit 3: Multiple, partial Correlation & Regression (For Trivariate Data): Unit 4: Time Series	Unit 1: Correlation (for ungrouped data) Unit 2: Regression (for ungrouped data) Unit 3: Multiple, partial Correlation & Regression (For Trivariate Data): Unit 4: Time Series	----	Completed
BCS-I	II	Continuous Probability Distributions and Testing of Hypothesis	Unit 1: Continuous Univariate Distributions Unit 2: Exact sampling distributions Unit 3: Testing of hypothesis Unit 4: Simulation	Unit 1: Continuous Univariate Distributions Unit 2: Exact sampling distributions Unit 3: Testing of hypothesis Unit 4: Simulation	----	Completed

Pawar A.A.
Mr. A. A. Pawar



Pallavi M. Dessai
Miss Pallavi M. Dessai
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