Vivekanand College, Kolhapur (Autonomous)

Department of B.Sc CS (Entire)
Academic Year: 2024-25

Syllabus Completion Report

Name of the teacher: Miss Pallavi M. Dessai Subject: C

Subject: Computer Science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-I	1	Programming using C-I (DSC06Com12)	 Programming Concepts . Introduction to "C" . Input-Output Statements Control Structures 	 Programming Concepts . Introduction to "C" . Input-Output Statements Control Structures 		Completed
BCS-I	П	programming using C-II (DSC06Com22)	Function Array and string Pointer, Dynamic memory allocation Structure	Function Array and string Pointer, Dynamic memory allocation Structure		Completed

Miss Pallavi M. Dessai

Miss Pallavi M. Dessai (HOD)

DEPARTMENT OF B.SC. COMPUTER SCIENCE
(ENTIRE)
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Department of Computer Science (Entire)
Academic Year: 2024-25

Syllabus Completion

Name of the teacher: Rajesh R Mane

Programme: B.Sc. Computer Science (Entire) I Semester- I

Subject: Computer Science

Course Title: Introduction to Computers-I

MONTHS	UNIT NAME	POINTS TO BE COVERED	Remark
July/AUGUST	Introduction to Computer	Introduction, History.Characteristics &	Completed
	Practical's Fundamentals of computers	features of Computers. Components of Computers. Organization of Computer. Classification of Computers Computers Computer Languages Types of Programming Languages Machine Languages	
		 Assembly Languages High Level Languages Assembler, Linker, Loader, Interpreter & Compiler. 	
SEPTEMBER	Input, Output Devices and Concept of Memory Practical's Fundamentals of computers	 Input Devices: Touch screen, OMR, OCR, Light pen, Scanners Output Devices: Digitizers, Plotters, 	Complete
	71334	LCD, Plasma Display, Printers and its types Types of Memory (Primary And	
1500 to 1500 t		Secondary) •RAM, ROM, PROM, EPROM Secondary Storage Devices (FD, CD, HD, Pen drive, DVD, Tape Drive, USB	
OCTOMBER	Operating System concepts	Why Operating SystemHistory of operating	Completed



	Practical's Fundamentals of computers	 System Functions of Operating System Types of Operating System Introduction to Computer Virus, how does it spread? Symptoms of it, Types of Virus, Antivirus, Prevention from Virus. 	
NOVENMBER	MS Word MS PowerPoint Practical's Fundamentals of computers	 MS Word -Word Processing, features of word processing, menus and commands ,toolbars and buttons, word formatting toolbar , creating document, saving a document, printing a document, Paragraph setting, mail merge, graphs ,pictures, image, working with tables. MS Power point - Introduction to PowerPoint, Creating a Presentation, PowerPoint views, Slide show, Formatting slides, Slide transition & adding special effects, Inserting pictures, sound, chart. 	Completed

Name and Signature of Teacher

Mr. Rajesh R Mane

Name and Signature of HOD

Pallavi M Dessai

HEAD

DEPARTMENT OF B.SC. COMPUTER SCIENCE
(ENTIRE)

VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



Department of Computer Science Entire Academic Year: 2024-2025

Syllabus Completion

Name of the teacher: Rajesh R Mane

Programme: B.Sc. Computer Science (Entire) I Semester- II

Subject: Computer Science

Course Title: Introduction to Computers-II

Month January	Module/Unit:	Sub-units planned	Remark
violiti valiati	Introduction to	Introduction to DBMS,	Completed
	Database	Introduction to Daise,	
	Database	RDBMS basic concepts &	
	Practical's		
	Fundamentals of	terminology.	
	computers	DBMS vs RDBMS with examples	
		Keys: Primary & Foreign	
		Table,Queries,Forms,Reports,Macros	
		Creating & Designing Database.Table	
	MS-ACCESS	Fold tynes Auto	
	WIS-ACCESS	number,Date/Time,number,text,Yes/No	
		Hyperlink.	
		Creating Table using design view and	
		wizard, Editing tables, records, queries	
		and Form designing.	
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Month February	Module/Unit:	Sub-units planned	



	Introduction to HTML	HTML Documents Basic structure of an HTML document Creating an HTML document Mark up Tags Heading-Paragraphs Line Breaks HTML Tags.	Completed
Month March	Module/Unit: Images, Tables Frames, Image Maps, Forms in HTML Practical's Fundamentals of computers	Sub-units planned Introduction to elements of HTML Working with Text Working with Lists, Tables and Frames Working with Hyperlinks, Images and Multimedia Working with Forms and controls.	Completed
Month April	Module/Unit: Practical's Fundamentals of computers	Sub-units planned Case study's, Creating page Layout and Site Designs.	Completed

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Name and Signature of Teacher

Mr. Rajesh R Mane

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Name and Signature of HOD

Pallavi M Dessai **HEAD**DEPARTMENT OF B.SC. COMPUTER SCIENCF

(ENTIRE)

VIVEKANAND COLLEGE, KOLHAPUR

(EMPOWERED AUTONOMOUS)



Vivekanand College, Kolhapur (Autonomous)

Department of B.Sc CS (Entire) Academic Year: 2024-25

Syllabus Completion Report

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-I	I	Programming using C-I (DSC06Com12)	 Programming Concepts . Introduction to "C" . Input-Output Statements Control Structures 	 Programming Concepts . Introduction to "C" . Input-Output Statements Control Structures 		Completed
BCS-I	I	Programming using C-I (DSC06Com29)	All Practical Assignments	All Practical Assignments		Completed
BCS-I	11	programming using C-II (DSC06Com22)	1. Function 2. Array and string 3. Pointer, Dynamic memory allocation 4. Structure	 Function Array and string Pointer, Dynamic memory allocation Structure 		Completed
BCS-I	11	Programming using C-I (DSC06Com29)	All Practical Assignments	All Practical Assignments		Completed

Ms. Samrin Z.Mullani

ESTD JUNE 1964

Miss Pallavi M. Dessai

DEPARTMENT OF B.SC. COMPUTER SCIENCE (ENTIRE)

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWEDED AUTONOMOUS)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of B.Sc CS (Entire) Academic Year: 2024-25

Syllabus Completion Report

Subject: Mathematics

Name of the teacher: Miss Snehal Sarjerao Patil

Class	
Semester	
Course Title	
Syllabus Assigned	
Syllabus Covered	
Syllabus Not R	
Remark	

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	overed Syllabus Not
			·		to Covered
B.Sc CS-I	1	Foundational Math's	Unit 1: Set and Relations	Unit 1: Set and Relations	
		(OEC06MATII)	Unit 2: Matrices and Linear equations	Unit 2: Matrices and Linear equations	
			Unit 3: Logic	Unit 3: Logic	
			Unit:4 Number Theory	Unit:4 Number Theory	
BSc CS-I	П	Lab-I	All practical Assignments	All practical Assignments	
		(OEC06 MAT19)			
		Operations Research	Unit 1: Introduction to Operations	Unit 1: Introduction to Operations	
B.Sc CS-I	Ш	(OEC06MAT12)	Research	Research	
			Unit2: Linear Programming Problem	Unit2:Linear Programming Problem	
			Unit3:Transportation and Assignment	Unit 3: Transportation and	
			problem	Assignment problem	
			Unit 4: Theory of Games	Unit 4: Theory of Games	
B.Sc CS-I	Ш	Lab-II	All practical Assignments	All practical Assignments	
		(OEC06 MAT29)			



Miss Snehal Sarjerao Patil (Name and Signature of Teacher)



DEPARTIMENT OF B. SC. COMPUTER SCIENCE (ENTRE)
VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

Department of B.Sc CS (Entire) Academic Year: 2024-25

Syllabus Completion Report

Name of the teacher: Mr. Aiit Ariun Pawar

Subject: Computer Science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Cover	Remarks
BCS-1	ı	Descriptive Statistics I	Unit 1 Introduction to Statistics Unit 2: Measure of Central Tendency	Unit 1 Introduction to Statistics Unit 2: Measure of Central Tendency		Completed
			Unit 3: Measures of dispersion Unit 4: Moments, Skewness & Kurtosis	Unit 3: Measures of dispersion Unit 4: Moments, Skewness & Kurtosis		
BCS-II	ш	Introduction to R Theory VSC06STA39	Unit 1: Introduction Unit 2: Control Structure in R, Data visualization & interpretation	ALL Practical Assignments		Completed
BCS-I	П	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-II	IV	Statistical methods using R Theory VSC06STA49	Unit 1: Sampling Methods, Measures of Dispersion & Moments, Skewness and Kurtosis Unit 2 Correlation, Regression, Probability distribution and Design of Experiment	ALL Practical Assignments		Completed

Mr. Ajit Arjun Pawar



Miss Pall (PEA Dessai DEPARTMENT OF BOOK COMPUTER SCIENCE (ENTIRE)
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Department of B.Sc. CS (Entire) Academic Year: 2024-25

Syllabus Completion Report

Class	Semester	Ms. Megha Bhagwan Lohar Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Cover	Remarks
	I	Descriptive Statistics I	Unit 1Introduction to Statistics Unit 2:Measure of Central Tendency Unit 3:Measures of dispersion Unit 4:Moments, Skewness & Kurtosis	Unit 1 Introduction to Statistics Unit 2: Measure of Central Tendency Unit 3: Measures of dispersion Unit 4: Moments, Skewness & Kurtosis		Completed
BCS-I	ı	Lab course - I	ALL Practical Assignments	ALL Practical Assignments		Completed
BCS-I	п	Probability and Discrete Probability Distributions-I	Unit 1: Probability Unit 2Conditional 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
	11	Lab course - II	ALL Practical Assignments	ALL Practical Assignments		Completed

Ms. Megha Bhagwan Lohar



Miss Pallavi M. Dessai

HEAD)
DEPARTMENT OF B.SC. COMPUTER SCIENCE (ENTIRE)
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Subject: Computer Science

Department of B.Sc. Computer Science (Entire)

Academic Year: 2024-25

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	111	Object Oriented Programming Using C++ (DSC06COM31)	Unit 1: Introduction to C++ and Basics of Object Oriented Programming Concepts Unit 2: Class, Object, Constructor, Destructor Unit 3: Static members, friend function and class and Operator Overloading. Unit 4: Inheritance and Polymorphism	Unit 1: Introduction to C++ and Basics of Object Oriented Programming Concepts Unit 2: Class, Object, Constructor, Destructor Unit 3: Static members, friend function and class and Operator Overloading. Unit 4: Inheritance and Polymorphism		Completed
BCS-II	111	C++ and MySQL Part-I Programs (DSC06COM39)	ALL Practical Assignments	ALL Practical Assignments		Completed
BCS-II	ľV	Introduction to Data Structure using C++ (DSC06COM41)	Unit 1: Introduction to Data structure and Linear Data Structures Unit 2: Searching and Sorting Unit 3: Stack and Queue Unit 4: Linked List, Trees	Unit 1: Introduction to Data structure and Linear Data Structures Unit 2: Searching and Sorting Unit 3: Stack and Queue Unit 4: Linked List, Trees		Completed
BCS-II	IV	Data Structure and MySQL Part-II Programs (DSC06COM49)	ALL Practical Assignments	ALL Practical Assignments		Completed

Miss Radhika M. Pati



Miss Palta AND Dessai
DEPARTMENT OF BLAG COMPUTER SCIENCE
(ENTIRE)
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Department of B.Sc. Computer Science (Entire)

Academic Year: 2024-25

Syllabus Completion Report

Name of the teacher: Miss Shruti S.Patil

Subject: Computer Science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-II	III	Introduction to RDBMS using MySQL Part-I (DSC06COM32)	Unit 1: Introduction to RDBMS Unit 2: Introduction to Data Models Unit 3: Normalization Unit 4: Introduction to MySQL	Unit 1: Introduction to RDBMS Unit 2: Introduction to Data Models Unit 3: Normalization Unit 4: Introduction to MySQL		Completed
BCS-II	111	C++, MySQL Part-I Programs (DSC06COM39)	ALL Practical Assignments	ALL Practical Assignments		Completed
BCS-II	IV	Introduction to RDBMS using MySQL Part-II (DSC06COM42)	Unit 1: Data Constraints and MySQL operators Unit 2: MySQL functions Unit 3: MySQL Sub-queries and Join Unit 4: Cursor and Trigger	Unit 1: Data Constraints and MySQL operators Unit 2: MySQL functions Unit 3: MySQL Sub-queries and Join Unit 4: Cursor and Trigger		Completed
BCS-II	IV	Data Structure and MySQL Part-II Programs (DSC06COM49)	ALL Practical Assignment	ALL Practical Assignment		Complete

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Miss Shruti S. Patil



Miss Palaxi M. Dessai

DEPARTMENT OF BISCH COMPUTER SCIENCE
(ENTIRE)

VIVEKANAND COLLEGE, KQLHAPUR (EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Computer Science (Entrire) Academic Year: 2024-25

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
JULY	Inet Framework	Event Driven programming, Introduction to framework NET architecture. CLR, CTS, JIT compiler, MSIL, .NET framework class library. Garbage collection. Assemblies.
AUGUST	II-C#.NET basics.	.NET development environment, data types, operators,
SEPTEMBER, OCTOMBER	III-OOPS concepts with C#.Net	Class and Objects Properties, methods and events. Constructors and destructors Method overloading & overriding. Inheritance, Access modifiers. Interface, Polymorphism.
OCTOMBER	IV- Windows applications in c#.Net	Windows forms Controls Mouse Events Keyboard events.

Name and Signature of Teacher

Vaishali Dalvi

Name and Signature of HoD

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DEPARTMENT OF B.SC. COMPUTER SCIENCE (ENTIRE)

VIVEKANAND COLLEGE, KQLHAPUR (EMPOWERED AUTONOMOUS)



Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Computer Science (Entrire) Academic Year: 2024-25

Syllabus Completion

Name of the teacher: Vaishali Chandrashekhar Dalvi

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

Subject: Computer Science

Course Title: ASP.Net Programming

MONTHS	UNIT NAME	POINTS TO BE COVERED
DECEMBER	I- Exception	Types Of Errors
	Handling	Structured exception
		Unstructured Exception
		Tracing Error
JANUARY	II-Database Connectivity	Database Connection
J		Using MS Access
		Data Binding with controls
	1 = 0 × 1	Data form wizards
February	III-Using Crystal Report	Connection to database, Tables,
rebluary	III-Osing Crystal respons	Queries, Formatting fields,
		Parameter Fields
March	IV- Introduction to	Introduction to ASP.Net
March	ASP.Net	Working with Web Forms
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ASP.Net	Different controls –HTML,
1 1		ASP.Net, validation control
		AST. INCL, Varidation Control

Name and Signature of Teacher

Vaishali Dalvi

Name and Signature of HoD

Pal MEASD

DEPARTMENT OF B.SC. COMPUTER SCIENCE (ENTIRE)

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)



Vivekanand College, Kolhapur (Empowered Autonomous)

Department of B.Sc CS (Entire)
Academic Year: 2024-25

Syllabus Completion Report

Name of the teacher: Miss Nita N. Bargale

Subject: Computer Science

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Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Remarks Cover	Remarks
B.Sc-III	<	DSE-1305E1	Unit1:introductiontojava	Unit1:introductiontojava		
		Core Java	Unit2:control statement, class and object	Unit2:controlstatement,class and object		Completed
B.Sc-III	<	DSE-1305E1	Unit3:package,inheritanceand interface	Unit3:package,inheritanceand interface		ž
		Core Java	Unit4:Exceptionhandling and multithreading	Unit4:Exceptionhandlingand multithreading		Completed
B.Sc-III	≤	DSE-1305F1 Advance java	Unit 1: 1: User Interface Components with AWT and Swing	Unit1:1:UserInterfaceComponents with AWT and Swing		
			Unit2:JDBC	Unit2:JDBC	į	Completed
		DSE-1305F1	Unit3:servlet	Unit3:servlet		
B.Sc-III	4	Advance java	Unit4:jsp	Unit4:jsp	-	Completed
B.Sc-III	<	Practicals	All Practicals	All Practicals		Completed
B.Sc-III	≤	Practicals	All Practicals	All Practicals		Completed





Miss Pallavi M. Dessai

DEPARTMENT OF B.SC. COMPUTER SCIENCE

(ENTIRE)

WVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOSS.

Department of B.Sc. Computer Science (Entire)

Academic Year: 2024-25

Syllabus Completion Report

Name of the teacher: Miss Nadiya Dara Patel

Class	Semester	: Miss Nadiya Dara Pate Course Title	Syllabus Assigned	Subject: Co	omputer Science	
BCS-III	V	Software Engineering with UML (DSC-1306E)	~	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	Syllabus Not to Covered	
BCS-III	V	Lab course -Practical's Operating System	ALL Practical Assignments	ALL Practical Assignments		Completed
BCS-III	VI I	(DSC-1307F)	1.Introduction to Artificial Intelligence 2.Introduction to Intelligent System 3. Problem Solving in A.I. 4. Introduction to Expert System ALL Practical Assignments	1.Introduction to Artificial Intelligence 2.Introduction to Intelligent System 3. Problem Solving in A.I. 4. Introduction to Expert System ALL Practical Assignments		Completed
Intedi						Completed

Miss Nadiya D. Patel



Miss Pallaxi M. Dessai
DEPARTMENT OF C. COMPUTER SCIENCE (ENTIRE) VIVEKANAND COLLEGE, KQLHAPUR

(EMPOWERED AUTONOMOUS)

Department of B.Sc. Computer Science (Entire)

Academic Year: 2024-25

Syllabus Completion Report

Name of the teacher: Miss Pragati P. Patil

Subject: Computer Science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Cover	Remarks
BCS-III	V	Data Communication DSC- 1306E3	Unit 1: Basic of Data Communication Unit 2: Transmission Media and Modes Unit 3: Multiplexing, Switching Techniques and Protocol and Standards Unit 4:Physical Layer and Data Link Layer	Unit 1: Basic of Data Communication Unit 2: Transmission Media and Modes Unit 3: Multiplexing, Switching Techniques and Protocol and Standards Unit 4:Physical Layer and Data Link Layer		Completed
BCS-III	V	Java programs Part-I	ALL Practical Assignments	ALL Practical Assignments		Completed
BCS-III	VI	Computer Network DSE-1306F1	Unit 1: Data Link Layer Protocols, 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, Network Layer Unit 2: Network Layer and Transport Layer Unit 3: Session and Presentation layer Unit 4: Application Layer		Completed
BCS-III	VI	Java programs Part-II	ALL Practical Assignments	ALL Practical Assignments		Completed

Miss Pragati P. Patil



Miss Pallayi M. Dessai

DEPARTMENT OF B.SC. COMPUTER SCIENCE

(ENTIRE)
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWSSED AUTONOMOUS)

Department of B.Sc. Computer Science (Entire)

Academic Year: 2024-25

Syllabus Completion Report

Name of the teacher: Miss. Priyanka S.Maske

Subject: Computer Science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Cover	Remarks
BCS-III	V	E-Commerce DSC-1307E6	Unit 1:Introduction Unit 2:Electronic Data Interchange (EDI) Unit 3: E-Payment Systems Unit 4:E-Security Issues and Threats	Unit 1:Introduction Unit 2:Electronic Data Interchange (EDI) Unit 3: E-Payment Systems Unit 4:E-Security Issues and Threats		Completed
BCS-III	v	C# Programming Part-I	ALL Practical Assignments	ALL Practical Assignments		Completed
BCS-III	VI	Data warehouse and mining DSE-1305F2	Unit 1: Introduction to data warehousing Unit 2: Introduction to data mining Unit 3: Data pre-processing and association rule mining Unit 4: Classification, prediction and clustering	Unit 1: Introduction to data warehousing Unit 2: Introduction to data mining Unit 3: Data pre-processing and association rule mining Unit 4: Classification, prediction and clustering		Completed
BCS-III	VI	C# Programming Part-II	ALL Practical Assignments	ALL Practical Assignments		Completed

Miss. Priyanka S.Maske



Miss Pallavi M. Dessai

DEPARTMENT OF B.SC. COMPUTER SCIENCE

(ENTIRE)
VIVEKANAND COLLEGE, KQLHAPUR
(EMPC) (ETONOMOUS)

Department of B.Sc CS (Entire)
Academic Year: 2024-25

Syllabus Completion Report

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Cover	Remarks
Linit 3 Ad	aros Nanografia (1900) aros Nanografia aros (1900) aros (1900)		Unit 1 Operating System overview Unit 2:Process Management Unit 3:Memory Management Unit 4:File management and Deadlocks	Unit 1 Operating System overview Unit 2:Process Management Unit 3:Memory Management Unit 4:File management and Deadlocks		Completed
BCS-III	V	Lab course - Operating System	ALL Practical Assignments	ALL Practical Assignments		Completed
The Late Office Late of Late o	VI;	Linux Operating Syst (DSC-1307F1)	Unit 3:VI editor	Unit 1: Linux basics Unit 2Basic Filters Unit 3:VI editor Unit 4:Essential Shell Programming		Completed
BCS-III	VI	Lab course - Linux Operating system	ALL Practical Assignments	ALL Practical Assignments		Completed

Mr. Rohit Rajendra Waskar.



Miss Pallavi M. Dessai

(HEAD
DEPARTMENT OF B.SC. COMPUTER SCIENCE
(ENTIRE)
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