Department Name/s of the Facul Course Title Course Code Shift	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : Computer Science ty : Jeyapriya U : Programming with Python : 23CS/PC/PP14 II COURSE OUTCOMES (COs)	
COs	Description	CL
C01	define the structure and concepts of python programming	K1
CO2	demonstrate the programming concepts using python	K2
CO3	apply the programming knowledge learnt using python and solve any given problem	K3
CO4	compare the different ways of solving a problem and find out an effective one	K4
CO5	evaluate the given problem and write an effective and efficient code to solve the same	K5,K6

Department Name/s of the Faculty Course Title Course Code Shift	Name/s of the Faculty       : Jeyapriya U         Course Title       : Programming with Python         Course Code       : 23CS/PC/PP14         Shift       II										
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods				
Jun 24 – 26, 2024 (Day Order 4 - 6)	1	1.1 Introduction to Python Programming History of Python- Getting Started with Python-Programming Style and Documentation- Programming Errors	K1	3	CO1	Group Discussion Case Analysis Demonstration	Discussion Quiz				
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	1.2 Elementary Programming Writing A Simple Program-Reading Input from Console-Identifiers- Variables-Assignment Statements and Expressions- Simultaneous Assignments-Named Constants	K1-K5	6	CO1-5	Lecture Group Discussion	Practical exercise Case study				

Department Name/s of the Faculty Course Title Course Code Shift	: J : P	STELLA MARIS COLL COURSE I Computer Science eyapriya U rogramming with Python 3CS/PC/PP14				NNAI	
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
July 5 – 12, 2024 (Day Order 1 - 6)	1	Numeric Data Types and Operators-Evaluating Expressions and Operator Precedence Augmented Assignment Operators- Type Conversions and Rounding	K1-K5	6	CO1-5	Lecture Group Discussion Case Study	Practical exercise - Displaying Current Time -Computing Distance
July 15 – 23, 2024 (Day Order 1 - 6)	2	2.1 Drawing Various Shapes- Drawing with Colors and Fonts	K1-K5	6	CO1-3	Lecture Case Study Demonstration	Practical exercise -Drawing olympic ring logo -Creating a Logo -Computing distance between two points and illustration

Department Name/s of the Faculty Course Title Course Code Shift	STELLA : Computer So : Jeyapriya U : Programmin : 23CS/PC/PP1 II	g with Python					
July 24 – 31, 2024 (Day Order 1 - 6)	Boolean Ty Expressions Statements- Two Way I Nested If-C in Selection Case Study Operators-C Conditional Operator Pr	ype, Values, s-If -Case Study- if Statements- Common Errors n Statement- r-Logical Case Study- 1 Expressions- recedence and ty- The While	K1-K6	6	CO1-5	Practical exercise -Adding two randomly generated numbers -Guessing birthdays -Finding the Chinese zodiac sign -Determining leap year -Simulating a lottery win -Detecting the location of an object -Guessing Numbers -basic Calculator	Component I – Quiz – Selection and Loops(10 marks)
Aug 1 – 5, 2024 (Day Order 1 - 3)	2 Nested Loo Minimizing Errors-Case	g Numerical	K1-K6	3	CO1-5	Lecture Case Study	Practical exercise -Multiplication table -gcd - <b>Code Review</b> - Monte Carlo Simulation -Prime Numbers

Department Name/s of the Facu Course Title Course Code Shift	Jame/s of the Faculty: Jeyapriya UCourse Title: Programming with PythonCourse Code: 23CS/PC/PP14										
Aug 6 – 10, 2024			C.A. 7	ſest – I							
Aug 12 – 14, 2024 (Day Order 4-6)	3	<b>3.1 Functions</b> Defining a Function- Calling a Function- Function with or Without Return Values	K1-K6	3	CO1-5	Lecture Demonstration Case Study	-pyramid -decimal to binary, - <b>tri programming</b> - decimal to hexadecimal -perfect number				
Aug 16 – 23, 2024 (Day Order 1-6)	3 2 3	<ul> <li>Positional and Keyword</li> <li>Arguments-Passing</li> <li>Argument by Reference-</li> <li>Modularizing The Code-</li> <li>Case Study-The Scope of the</li> <li>Variables-Default</li> <li>Arguments-Returning</li> <li>Multiple Values- Case</li> <li>Study-Function Abstraction-</li> <li>Recursion</li> <li>2.1 Introduction to Object and</li> <li>Methods</li> <li><b>3.2 Object and Classes</b></li> <li>Defining Classes for</li> <li>Objects-Constructing</li> <li>Objects-Accessing the</li> <li>Member of the Objects- Self</li> <li>Parameters- Using Classes</li> </ul>	K1-K6	6	CO1-5	Lecture Demonstration Case Study Interactive coding <b>Code review</b> - Print calendar for a month	Practical exercise -area and perimeter -Generating random ASCII characters -Reusable graphic functions -Body Mass Index -Bank Operations -Stopwatch <b>Component II</b> – Code review- Selections, Loops and Functions-(15 marks)				

Department Name/s of the Faculty Course Title Course Code Shift	:: :] :2	STELLA MARIS COLL COURSE I Computer Science Jeyapriya U Programming with Python 23CS/PC/PP14 II				ENNAI	
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3	<ul> <li>Hiding Data Field-</li> <li>Immutable Objects Vs</li> <li>Mutable Objects-Class</li> <li>Abstraction and</li> <li>Encapsulation-Case</li> <li>Study</li> <li><b>3.3 Strings and Special</b></li> <li><b>Methods</b></li> <li>The Str Class-Creating</li> <li>Strings-Functions of</li> <li>Strings-Functions for</li> <li>Strings-Index Operator []-</li> <li>The Slicing Operator-</li> <li>Concatenations</li> <li>Operators-In and Not in</li> <li>Operators-Comparing,</li> <li>Iterating and Strings</li> </ul>	K1-K6	6	CO1-5	Lecture Demonstration Case Study	Practical exercise -area and circumference of circle with private radius -mutable vs immutable objects -String operations -Palindrome <b>Pair programming</b> - Password strength

Department Name/s of the Faculty Course Title Course Code Shift	: J : F : 2	STELLA MARIS COLI COURSE Computer Science leyapriya U Programming with Python 23CS/PC/PP14 II		JTONOMO ne - Noveml		NNAI	
Sep 4 – 11, 2024	3	Searching, Converting	K1-K6	6	CO1-5	Lecture	Practical exercise
(Day Order 1-6)	2	and Formatting Strings 2.1 Mathematical Functions, Strings, And Objects Common Python Functions-String and Characters Formatting Numbers and Strings 4.1 List Processing List Basics-Case Study- Copying The Lists- Passing Lists to Function- Returning List from Function-Case Study- Searching Lists	K1-K5			Demonstration Case Study Group Discussion 2.1- Self Learning GUI programming using tkinter(Self study)	-Calculator using tkinter -A simple GUI form - <b>Pair programming</b> - A basic paintbrush application -tracking the position of mouse click - determine whether all the input numbers cover 1 to 99 -counting the occurrence of each letter -linear search -binary search

Department Name/s of the Faculty Course Title Course Code Shift	: J : I : 2	STELLA MARIS COLL COURSE Computer Science Jeyapriya U Programming with Python 23CS/PC/PP14				NNAI	
Sep 12 - 20, 2024 (Day Order 1-6)	4	Case Study- Multidimensional Lists- Processing Two Dimensional List- Processing Two Dimensional List to Function- Multidimensional Lists	K1-K6	6	CO1-5	Lecture Demonstration Case Study Group Activity	Practical exercise -sum of elements of a matrix using function -Grading a multiple choice test -finding the closest pair of points <b>Code Review -</b> Sudoku program
Sep 23 - 26, 2024 (Day Order 1-4)	5	<b>5.1 Tuples, Sets and</b> <b>Dictionaries</b> Tuples- Sets-Comparing The Performances of Sets and Lists -Dictionaries	K1-K6	4	CO1-5	Lecture Demonstration Case Study Group Discussion	Practical exercise -tuple, sets and dictionaries operations -Sets vs lists -Counting keywords -display non duplicate words <b>Code review -</b> Hangman
Sep 27 – Oct 3, 2024				C	C.A. Test – I	L .	

Department Name/s of the Faculty Course Title Course Code Shift	:: :] :2	STELLA MARIS COLI COURSE Computer Science Jeyapriya U Programming with Python 23CS/PC/PP14 II			MOUS), CHE ember 2024	ENNAI	
Oct 4 – 5, 2024 (Day 5 & 6)	5	<b>5.2 Files and</b> <b>Exceptional Handling</b> Text Input/Output	K1-K6	2	CO1-5	Lecture Demonstration Case Study	Practical exercise -Writing, reading and appending data in a file
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	File Dialogs-Case Study- Retrieving Data from Web-Exception Handling-Raising Exceptions-Custom Exception Classes	K1-K6	6	CO1-5	Lecture Demonstration Case Study	Practical exercise -Counting the occurrence of each letter in a file -file dialogs -Exception Handling and raising exceptionsComponent III - Project Presentation and Viva – 25 marks
Oct 16 - 22, 2024 (Day Order 1 to 6)		Backlogs				Lecture Group Discussion	Discussion Practical exercise
Oct 23 - 24, 2024 (Day Order 1 to 2)					REVISION		

Department Name/s of the Fac Course Title Course Code Shift	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : COMPUTER SCIENCE ulty : Ms. Roselin Clara A : DISCRETE MATHEMATICS FOR COMPUTER SCIENCE : 23CS/PC/DM14 II COURSE OUTCOMES (COs)				
COs	Description	CL			
CO1	understand mathematical reasoning including induction, recursion and apply mathematical logic to solve problems	K1, K2			
CO2	apply logic Sets, Predicates, Propositional logic. Model Graphs, trees and able to determine their properties	К3			
CO3	analyze counting techniques to the representation and characterization of relational and functional concepts.				
CO4	evaluate counting problems and algorithms performances on finite and discrete Structures	K5			
CO5	construct mathematical proofs using case analysis, and mathematical induction. Application of concepts in Discrete Mathematics.	K6			

Department Name/s of the Faculty Course Title Course Code Shift	: N : D : 2	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : COMPUTER SCIENCE : Ms. Roselin Clara A : DISCRETE MATHEMATICS FOR COMPUTER SCIENCE : 23CS/PC/DM14 II								
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods			
Jun 24 – 26, 2024 (Day Order 4 - 6)	1	1.1 Sets and Induction Lattices and Boolean Algebras	K1-K3	2	1-2	Presentation	Discussion			
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	Principles of Inclusion – Exclusion – Mathematical Induction 1.2 Program Correctness Pseudocode Conventions - An Algorithm to Generate Perfect Squares - Two Algorithms for Computing Square Roots	K1-K3 K1-K5	5	1-2	Learning by Doing	Problem solving questions			
July 5 – 12, 2024 (Day Order 1 - 6)	1	Strong Form of Mathematical Induction - Application: Algorithm to Compute Powers - Application: Finding Factorizations - Application: Binary Search	K1-K5	5	1-4	Learning by Doing	Component 1 for 25 marks with problems from unit 1.			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024         Department       : COMPUTER SCIENCE         Name/s of the Faculty       : Ms. Roselin Clara A         Course Title       : DISCRETE MATHEMATICS FOR COMPUTER SCIENCE         Course Code       : 23CS/PC/DM14         Shift       II								
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods	
July 15 – 23, 2024 (Day Order 1 - 6)	2	2.1 Formal Logic Truth and Logical Truth - Tautologies - Substitutions into Tautologies - Logically Valid Inferences - Combinatorial Networks - Substituting Equivalent Sub formulas - Simplifying Negations	K1-K6	5	1-5	Learning by Doing	Quiz	
July 24 – 31, 2024 (Day Order 1 - 6)	2	2.2 Normal Forms Disjunctive Normal Form - Application: DNF and Combinatorial Networks – Conjunctive Normal Form - Application: CNF and Combinatorial Networks - Testing Satisfiability and Validity - The Famous P≠ NP Conjecture - Resolution Proofs: Automating Logic	K1-K6	5	1-5	Case Analysis	Presentation	

Department Name/s of the Faculty Course Title Course Code Shift	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : COMPUTER SCIENCE : Ms. Roselin Clara A : DISCRETE MATHEMATICS FOR COMPUTER SCIENCE : 23CS/PC/DM14 II						
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Aug 1 – 5, 2024 (Day Order 1 - 3)	3	3.1 Predicates and Quantification Predicates - Quantification - Restricted Quantification - Nested Quantifiers –	K1-K4	3	1-3	Learning by Doing	Problem solving questions
Aug 6 – 10, 2024			C.A. Test –	Ι			
Aug 12 – 14, 2024 (Day Order 4-6)	3	Negation and Quantification - Quantification with Conjunction and Disjunction	K1-K4	2	1-3	Learning by Doing	Problem solving questions
Aug 16 – 23, 2024 (Day Order 1-6)	3	Application: Loop Invariant Assertions 3.2 Relations Binary Relations - n-ary Relations - Special Types of Relations - Reflexive and Irreflexive Relations	K1-K6	5	1-3 1-5	Presentation	Component 2 for 25 marks on case study presentation relating mathematics to computer science

Department Name/s of the Faculty Course Title Course Code Shift	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : COMPUTER SCIENCE : Ms. Roselin Clara A : DISCRETE MATHEMATICS FOR COMPUTER SCIENCE : 23CS/PC/DM14 II								
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods		
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3	Symmetric and Antisymmetric Relations - Transitive Relations - Reflexive, Symmetric, and Transitive Closures - Application: Finding a Minimal Element	K1-K6	5	1-5	Learning by Doing	Problem solving questions		
Sep 4 – 11, 2024 (Day Order 1-6)	4	4.1 The Pigeon-Hole Principle k to 1 Functions - Pigeon-Hole Principle - Application: Decimal Expansion of Rational Numbers - Problems with Divisors and Schedules	K1-K6	5	1-5	Presentation	Discussion		
Sep 12 - 20, 2024 (Day Order 1-6)	4	Two Combinatorial Results 4.2 Analysis of Algorithms* Algorithms - Complexity Analysis - Comparting Growth Rate of functions	K1-K6	5	1-5	Case Studies	Discussion		

Department Name/s of the Faculty Course Title Course Code Shift	: N : E : 2	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : COMPUTER SCIENCE : Ms. Roselin Clara A : DISCRETE MATHEMATICS FOR COMPUTER SCIENCE : 23CS/PC/DM14 II							
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods		
Sep 23 - 26, 2024 (Day Order 1-4)	4, 5	Asymptotic notations - Complexity of Programs 5.1 Graph Theory Introduction to Graph Theory – Definitions - Subgraphs - Paths and Cycles	K1-K6	4	1-5	Learning by Doing	Problem solving questions		
Sep 27 – Oct 3, 2024			(	C.A. Test –	- II				
Oct 4 – 5, 2024 (Day 5 & 6)	5	Euler Paths and Circuits - Hamiltonian Paths and Circuits	K1-K6	1	1-5	Learning by Doing	Problem solving questions		
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	Applications of Hamiltonian Circuits - Graph Isomorphism - Representation of Graphs - Adjacency Matrix – Adjacency Lists - Connected Graphs - The Relation CONN - Finding Connected Components - Reachability matrix – Planar- Graphs - Definitions - Applications - Euler Formula - Kuratowski's Theorem - Graph Colouring - Terminologies - The Four colour Theorem - Applications of Graph Colouring	K1-K6	5	1-5	Case Studies	Component 3 for 10 marks with MCQs from 3,4 units to test their understanding.		

Department Name/s of the Faculty Course Title Course Code Shift	: N : D	STELLA MARIS COLLEG COURSE PLA COMPUTER SCIENCE Is. Roselin Clara A DISCRETE MATHEMATICS FO 3CS/PC/DM14 I	AN June - No	ovember 20	024	NAI	
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Oct 16 - 22, 2024 (Day Order 1 to 6)	5	5.2 Trees Definition of Trees - Characterization of Trees - Application: Decision Trees – Directed Graphs - Basic Definitions - Directed Trails, Paths, Circuits, and Cycles - Directed Graph Isomorphism	K1-K6 K1-K3	5	1-5 1-3	Presentation	Discussion
Oct 23 - 24, 2024 (Day Order 1 to 2)		·		REVISIO	N		

	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024	
Department Name/s of the Faculty	<ul><li>Computer Science</li><li>Ms. J. Birunda Antoinette Mary</li></ul>	
Course Title Course Code Shift	: Software Engineering : 23CS/PC/SE14 : II	
	COURSE OUTCOMES (COs)	
COs	Description	CL
CO1	Explain the software engineering principles and techniques	K1,K2
CO2	Choose an appropriate software life cycle model for a given problem	K3
CO3	Analyse and design complex systems and Ability to develop, maintain and evaluate large-scale software systems	K4
CO4	Assess the efficiency, reliability, robustness and develop cost- effective software solutions	K5
CO5	Discuss about the new modeling, design, management techniques used for a future product	K6

		STELLA MARIS COLLEGE ( COURSE PLAN	•				
Department Name/s of the Faculty Course Title Course Code Shift	:	Computer Science Ms. J. Birunda Antoinette Mary Software Engineering 23CS/PC/SE14	June - Nov	ember 20.	24		
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 24 – 26, 2024 (Day Order 4 - 6)	1	<ul> <li>1.1 Software and Software</li> <li>Engineering: Nature of Software -</li> <li>Defining Software Engineering-</li> <li>Software Process - Process,</li> <li>Activities, Work Product - Process</li> <li>Framework - Categories of</li> <li>Activities (Framework, Umbrella)</li> <li>Software Process</li> </ul>	K1-K4	3	1-3	Lecture, Analogies	Discussion
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	1.2 Process Models SDLC - Waterfall Model - Prototyping - Agile Philosophy - Agility, Agility and Cost Change, Agile Process - Agility Principles - Scrum - Test driven development - continuous integration – Impact of Process on End Product - Process Assessment and Improvement	K1-K4	5	1-3	Lecture with Examples.	Questioning

		STELLA MARIS COLLEGE COURSE PLAN	-	. ,			
Department Name/s of the Faculty Course Title Course Code Shift	:	Computer Science Ms. J. Birunda Antoinette Mary Software Engineering 23CS/PC/SE14 II					
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
July 5 – 12, 2024 (Day Order 1 - 6)	1 & 2	<ul> <li>1.3 Software Engineering Principles: Planning - Separation of Concerns - Modularity - Modeling - Abstraction - Anticipation of change - Reusability - Incrementality - Measurement – Tools</li> <li>2.1 Requirements Gathering: Requirements Engineering Tasks - Software Requirements Specification - Types of Requirements (Normal, Expected) - Traceability Matrix -Agile Requirements Elicitation (User Stories) - Agile Requirements Engineering</li> </ul>	K1-K4	2 3	1-3	Scenarios provided to brainstorm. Identifying the requirements for a given problem.	Questioning
July 15 – 23, 2024 (Day Order 1 - 6)	2	2.2 Modeling: Significance of requirement analysis - Arlow and Neustadt rules of thumb - application domain analysis - Writing Use Cases - Use Case Diagram - Activity Diagram - Swimlane Diagram - Identifying classes	K1-K6	5	1-5	Lecture & Demo using a tool Model Use case & class diagrams for a given problem	Practical on UML diagrams

		STELLA MARIS COLLEGE ( COURSE PLAN		. ,		[	
Department Name/s of the Faculty Course Title Course Code Shift	:	Computer Science Ms. J. Birunda Antoinette Mary Software Engineering 23CS/PC/SE14					
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
July 24 – 31, 2024 (Day Order 1 - 6)	2	Attributes – Operations - associations and dependencies - Class diagram - packaging classes - State Diagram - Sequence Diagram	K1-K6	5	1-5	Lecture & Demo using tool	Comp1 - 25 marks Write use cases, Draw UML diagrams.
Aug 1 – 5, 2024 (Day Order 1 - 3)	3	3.1 Software Designing : Design Concepts (Abstraction, Architecture, Patterns, Separation of Concerns, Modularity, Information Hiding, Functional Dependence, Refinement, Aspects, Refactoring)	K1-K6	2	1-5	Lecture with Examples.	Quiz
Aug 6 – 10, 2024			C.A. Test -	Ι		-	
Aug 12 – 14, 2024 (Day Order 4-6)	3	3.2 Basic Design Principles: Open Closed - Liskov Substitution - Dependency Inversion - Interface Segregation - Release Reuse Equivalency- Common Closure - Common Reuse	K1-K6	3	1-5	Lecture with examples.	Discussion
Aug 16 – 23, 2024 (Day Order 1-6)	3	<ul> <li>3.3 Software Quality and Assurance McCall's quality factors - ISO 9126 Quality factors - Cost of Quality - Defect - Defect Amplification and removal</li> <li>Reviews – Informal, Formal Technical Reviews - Inspection - Walkthroughs - Audits – Testing</li> </ul>	K1-K6	5	1-5	Lecture Review Coding standards using tool	Submission of review

		STELLA MARIS COLLEGE ( COURSE PLAN				I	
Department Name/s of the Faculty Course Title Course Code Shift	: ]	Computer Science Ms. J. Birunda Antoinette Mary Software Engineering 23CS/PC/SE14	June - 1404	vennder 202	-		
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Aug 27 – Sep 3, 2024 (Day Order 1-6)	4	<ul> <li>4.1 Software Testing Levels of Testing - Unit Testing, Integration Testing, Validation Testing, System Testing - Test Cases - Test Case Template -Types of Testing - White Box, Basis Path Testing , Control Structure Testing</li> </ul>	K1-K6	5	1-5	Lecture Design test cases for a given application as a team of 3 members	Comp2-25 marks Create manual test cases for the problem
Sep 4 – 11, 2024 (Day Order 1-6)	4	4.2 Software Configuration Management: Need - - Baselines - Software Configuration Items - SCM Repository - SCM Process	K1-K6	5	1-5	Lecture	Questioning
Sep 12 - 20, 2024 (Day Order 1-6)	4	4.3 Metrics Terms (Metrics, Measurement, Indicators) - Function Points - Deriving Function points - Metrics - CK Metrics - Defects per KLOC - FP per Person-Month - McCabe Cyclomatic Complexity - code coverage	K1-K6	5	1-5	Lecture	Calculate cyclomatic complexity
Sep 23 - 26, 2024 (Day Order 1-4)	5	<ul> <li>5.1 Software Project Estimation:</li> <li>Software sizing- LOC Based</li> <li>Estimation - FP based - estimation</li> <li>- COCOMO Model II - Estimation</li> <li>for WebApp Projects</li> </ul>	K1-K6	3	1-5	Lecture	Discussion
Sep 27 – Oct 3, 2024		(	C.A. Test - 2	Π			

		STELLA MARIS COLLEGE COURSE PLAN				[	
Department Name/s of the Faculty Course Title Course Code Shift	:	Computer Science Ms. J. Birunda Antoinette Mary Software Engineering 23CS/PC/SE14	Julie - No	veniber 202	~		
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Oct 4 – 5, 2024 (Day 5 & 6)	5	5.2 Project Management and Scheduling: Training plan - Defect prevention meeting - Root causes for delays - Principles (Compartmentalization, Interdependence, Effort Validation, Time Allocation, Responsibilities, Outcomes, Milestones)	K1-K6	2	1-5	Lecture	Questioning
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	Relationship between People and Effort - Effort Distribution (40-20- 40 rule) - Scheduling Tools and Techniques (Time- Line charts, Tracking the schedule) 5.3 Risk Management Term - Proactive Vs Reactive Risk Strategies - Risk Identification - Risk Projection (Risk Table, Assessing Risk Impact)	K1-K6	5	1-5	Lecture Case Study: Identify risks and probability of occurrence for a project.	Create a risk table.
Oct 16 - 22, 2024 (Day Order 1 to 6)	5	Risk Mitigation, Monitoring, Management - RMMM Plan	K1-K6	5	1-5	Lecture Identify components of an RMMM plan and its purpose	Discussion
Oct 23 - 24, 2024 (Day Order 1 to 2)		·	REVISIO	Ň			

Department Name/s of the Facult Course Title Course Code Shift	<ul> <li>STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024</li> <li>Computer Science</li> <li>Ms. Blessy Boaz</li> <li>Operating Systems: Concepts and Applications</li> <li>23CS/PC/OC14 II</li> </ul>								
	COURSE OUTCOMES (COs)								
COs	Description	CL							
CO1	explain the fundamental concepts and security of operating systems	K1, K2							
CO2	apply the various algorithms, methods and security measures to each OS components	K3							
CO3	analyse the algorithms, methods, security and the state of the system in various time periods	K4							
CO4	evaluate the performance of the algorithms, file and memory management techniques	K5							
CO5	create solutions to ensure synchronization for real time applications	K6							

		STELLA MARIS COLLEGE (A) COURSE PLAN Ju			NNAI						
Department Name/s of the Fac Course Title Course Code Shift	Name/s of the Faculty: Ms. Blessy BoazCourse Title: Operating Systems: Concepts and ApplicationsCourse Code: 23CS/PC/OC14										
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods				
Jun 24 – 26, 2024 (Day Order 4 - 6)	1	<b>1.1 Introduction to Operating System</b> Introduction to OS - Structure, Operations, Protection and Security, Kernel Data Structures, Computing Environments, Services, System Calls and its types,	K1, K2	3	CO1	Discussion & Lecture	Quiz				
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	System Programs, OS Design and Implementation OS Debugging Operating, System Generation, System Boot <b>1.2 UNIX Operating System</b> History of UNIX, Shell, UNIX File System Structure <b>1.3 Basic UNIX Commands</b> Commands for files and directories cd, cp, mv, rm, mkdir, more, less,	K1, K2 K1-K4	6	CO1 CO1-3	Lecture and Demo	Practical Exercises				
July 5 – 12, 2024 (Day Order 1 - 6)	1, 2	creating and viewing files, using cat, date, who, pwd - filter commands –head tail, cut, paste, grep – regular expression – sort <b>2.1 Process Management</b> Process - Concept, Process Control Block, Process operations, Scheduling Algorithms - Short term and long	K1-K4 K1, K2	6	CO1-3 CO1	Lecture and Demo	Experiments				

Department Name/s of the Fac Course Title Course Code Shift	culty	STELLA MARIS COLLEGE (AUT COURSE PLAN June : Computer Science : Ms. Blessy Boaz : Operating Systems: Concepts and Applicatio : 23CS/PC/OC14 II	- Novemb		NNAI		
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
July 15 – 23, 2024 (Day Order 1 - 6)	2	<ul> <li>2.2 CPU Scheduling</li> <li>Scheduling Criteria – Scheduling</li> <li>Algorithms: FCFS, SJF, Priority and</li> <li>Round Robin Scheduling</li> <li>2.3 Process Synchronization and Deadlocks</li> <li>The Critical -section Problem – Petersons</li> <li>solution – Mutex locks –Semaphores –</li> <li>Monitors, Deadlock Prevention and Avoidance,</li> <li>Deadlock Detection and Deadlock Recovery</li> </ul>	K1-K5 K1-K6	6	CO1-4 CO1-5	Lecture Case studies	Solving problem Component-I Case Study on Process Management (25 Marks)
July 24 – 31, 2024 (Day Order 1 - 6)	2	<b>2.4 Process Utilities</b> sh process, Parents and children, Process status, System process, Mechanism of process creation, Internal and external commands, running jobs in background, KILL, NICE, Job control, at and batch, cron - CaseStudy on Processes in LINUX	K1-K6	6	CO1-5	Lecture, Experiments and Story telling	Practical Exercises
Aug 1 – 5, 2024 (Day Order 1 - 3)	3	<b>3.1 File Organisation</b> File organisation and Access methods - Logical and Physical File structure– File Allocation methods, - Linked and Index Allocation	K1-K5	3	CO1-4	Lecture and presentation	Discussion
Aug 6 – 10, 2024			C.A. Test	- I			

		STELLA MARIS COLLEGE (AUT COURSE PLAN June			NNAI						
Department: Computer ScienceName/s of the Faculty: Ms. Blessy BoazCourse Title: Operating Systems: Concepts and ApplicationsCourse Code: 23CS/PC/OC14ShiftII											
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods				
Aug 12 – 14, 2024 (Day Order 4-6)	3	File Protection and Security - Directory structure - Single level, two level, Tree structure - Free Space Management – Allocation Methods - Efficiency and Performance– Recovery –FAT32 and NTFS <b>3.2 File System</b> File Access Permission – chmod, chown, chgrp – File Comparisons - View Files – Listing files with attributes – Wildcards - Translating Characters - Links and its types	K1-K5 K1-K6	3	CO1-4 CO1-5	Lecture and Demo	Case Studies and Practical exercises				
Aug 16 – 23, 2024 (Day Order 1-6)	3	The File System – Partitions, File Systems, Kernel Accesses – Mounting – umask, ulimit - I/O redirection – Pipes - Case Study on LINUX File System	K1-K6	6	CO1-5	Lecture, presentation and Demo	Case Study				
Aug 27 – Sep 3, 2024 (Day Order 1-6)	4	<b>4.1 Memory Management</b> Memory Management Techniques, Single Partition Allocation, Multiple Partition Allocation – Swapping -Paging and Segmentation Segmented -Paged Memory Management Techniques - Logical and Physical Address space – Address Mapping - Demand paging -Virtual memory, protection and address mapping hardware, Page fault, Page replacement and Page removal algorithms	K1-K5	6	CO1-4	Lecture, Simulation and Model Building	Discussion				

		STELLA MARIS COLLEGE (AUT COURSE PLAN June			NNAI					
Department: Computer ScienceName/s of the Faculty: Ms. Blessy BoazCourse Title: Operating Systems: Concepts and ApplicationsCourse Code: 23CS/PC/OC14ShiftII										
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods			
Sep 4 – 11, 2024 (Day Order 1-6)	4	<ul> <li>4.2 Device Management Classification of device according to speed, Disk structure - Disk scheduling - FCFS scheduling, SSTF scheduling - Access method and storage capacity</li> <li>4.3 Disk Utilities Disk usage, disk free, dd, Backups -cpio, tar, System calls for file management, directory management - Case Study on Memory Management in LINUX</li> </ul>	K1-K5 K1-K6	6	CO1-4 CO1-5	Lecture and Demo	Practical Exercises Component- II Practical Test on LINUX Commands (25 marks)			
Sep 12 - 20, 2024 (Day Order 1-6)	5	<b>5.1 Security</b> The Security Environment – Operating System Security – Controlling Access to resources – Formal models of Secure systems	K1-K4	6	CO1-3	Group Discussion	Brain Storming			
Sep 23 - 26, 2024 (Day Order 1-4)	5	Basics of cryptography –Authentication – Exploiting Software – Insider Attacks – Malware – Defenses	K1-K4	4	CO1-3	Lecture and Discussion	Quiz			
Sep 27 – Oct 3, 2024			C.A. Test	– II						
Oct 4 – 5, 2024 (Day 5 & 6)	5	<b>5.2 Virtualization and the Cloud</b> History – Requirements for virtualization – Type 1 and Type 2 Hypervisors	K1-K4	2	CO1-3	Lecture and Group Discussion	Q&A			

		STELLA MARIS COLLEGE (AU' COURSE PLAN Jun			NNAI		
Department Name/s of the Fac Course Title Course Code Shift	culty	<ul> <li>Computer Science</li> <li>Ms. Blessy Boaz</li> <li>Operating Systems: Concepts and Applicate</li> <li>23CS/PC/OC14</li> <li>II</li> </ul>	ions				
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	Techniques for efficient virtualization – Memory virtualization –I/O Virtualization – Virtual Appliances – Virtual machines on multicore CPUs	K1-K4	6	CO1-3	Lecture and Discussion	Quiz
Oct 16 - 22, 2024 (Day Order 1 to 6)	5	Clouds: Clouds as service – Virtual machine migration –check pointing -Case Study on Security in LINUX	K1-K4	6	CO1-3	Lecture and Case study	Discussion
Oct 23 - 24, 2024 (Day Order 1 to 2)			REVISIO	)N	·		

Department Name/s of the Fac Course Title Course Code Shift	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : Computer Science : Dr. K. C. Sharmili : UI, UX and Design Thinking : 23CS/PE/XI15 II							
COURSE OUTCOMES (COs)								
COs	Description	CL						
CO1	Recall the core concepts of UI, UX and demonstrate their need in designing a web application using front- end development technologies	K1, K2						
CO2	Apply the knowledge and build web applications using HTML5, CSS, JavaScript, Bootstrap	К3						
CO3	Analyse between different users, user behaviors and their role in front-end application design	K4						
CO4	Evaluate the design using wire framing and prototyping to build user centric front-end applications K5							
CO5	Design and develop the front-end of a web application with all the learnt concepts	K6						

Department Name/s of the Faculty Course Title Course Code Shift	: E : U : 2	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : Computer Science : Dr. K. C. Sharmili : UI, UX and Design Thinking : 23CS/PE/XI15 II									
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods				
Jun 24 – 26, 2024 (Day Order 4 - 6)	1	<b>1.1 UX and Design Process:</b> What is UX? - UX Design Process - Discovery and Planning	K1-K4	3	CO1-3	Lecture and Presentation	Discussion				
Jun 27 – July 4, 2024 (Day Order 1 - 6)	4	<b>4.1 HTML5 and CSS3</b> HTML Elements – Structural/Semantic, Phrasing, Table, Embedded	K1-K6	6	CO1-5	Project Designs	Practical Exercise (creating a simple web design using table)				
July 5 – 12, 2024 (Day Order 1 - 6)	4	Form - CSS Selectors -Positioning Content– Text Styles - Borders and Backgrounds –Styling Tables – Flexbox	K1-K6	6	CO1-5	Project Designs	Practical Exercise (Enhancing the design by applying styles)				
July 15 – 23, 2024 (Day Order 1 - 6)	1,4	Animation and Transforms Unit 1: The UX Strategy - UX Research Stages - UX Analysis, Design, Production	K1-K6	6	CO1-5	Lecture and Presentation	Questioning				
July 24 – 31, 2024 (Day Order 1 - 6)	1	<b>1.2 User Behavior and User</b> <b>Research</b> Basics - Gestalt Theory - Psychology in UX – User Research, Benefits of User Research – Getting to know your users – User Personas	K1-K4	6	CO1-3	Group Discussion	Component 1 (unit 1,4) – Theory (20 marks) Selecting any site and identifying the UX strategy applied with its pros and cons and UI elements used				

Department Name/s of the Faculty Course Title Course Code Shift	: D : U	STELLA MARIS COLLEGE (A COURSE PLAN J Computer Science Dr. K. C. Sharmili II, UX and Design Thinking 3CS/PE/XI15 I						
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods	
Aug 1 – 5, 2024 (Day Order 1 - 3)	5	Unit 5: 5.1 JavaScript JavaScript Essentials- Browser Environment – Window Object – DOM Elements – Constraint Validation API - JQuery	K1-K6	3	CO1-5	Lecture and Presentation	Practical Exercise (Making the design interactive with JavaScript)	
Aug 6 – 10, 2024		C.A. Test – I						
Aug 12 – 14, 2024 (Day Order 4-6)	5	Dynamic Styling – Events – TypeScript – Installing TypeScript, Benefits, Building a TypeScript file	K1-K6	3	CO1-5	Lecture and Presentation	Practical Exercise (Add events to the design)	
Aug 16 – 23, 2024 (Day Order 1-6)	5	<b>5.2 Bootstrap Framework</b> Installation - Responsive Grid System - Bootstrap's Style Standard - Responsive CSS - Responsive Development with Browser devTools – Z dimension	K1-K6	6	CO1-5	Collaborate in Technical Forums such as 'Github'	Practical Exercise (Make the site to be responsive)	
Aug 27 – Sep 3, 2024 (Day Order 1-6)	5	Transform – Transition – Animation – Flexbox – Responsive Website clone	K1-K6	6	CO1-5	Collaborate in Technical Forums such as 'Github'	Practical Exercise (Add animation to the site)	

Department Name/s of the Faculty Course Title Course Code Shift	: E : U	STELLA MARIS COLLEGE (A COURSE PLAN J Computer Science Dr. K. C. Sharmili JI, UX and Design Thinking 3CS/PE/XI15 I					
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Sep 4 – 11, 2024 (Day Order 1-6)	2	<b>2.1 Designing Behavior</b> Five actors/Preconditions for Users to Take Actions – Models of Behavior Change – Behavioral Approach for Product Design	K1-K4	6	CO1-3	Group Discussion	Discussion
Sep 12 - 20, 2024 (Day Order 1-6)	2	<b>2.2 Visual Design Principles and</b> <b>Processes</b> Basics of Visual Design - Design Principles Visual Design Tools	K1-K4	6	CO1-3	Lecture and Presentation	Discussion
Sep 23 - 26, 2024 (Day Order 1-4)	3	<b>3.1 Wireframes and Prototyping</b> Wireframe - Creating Wireframes, Types, Tools - Prototyping - Methods, Creating Prototypes- Tools	K1-K6	4	CO1-5	Collaborate in Technical Forums such as 'Github'	Component 2 – (Unit 1 – 5) (30 marks) Miniproject (UX responsive site with UI design tools)
Sep 27 – Oct 3, 2024			<b>C.</b>	A. Test – I	I		
Oct 4 – 5, 2024 (Day 5 & 6)	3	<b>3.2 UI Design and Implementation</b> User Interface Design - UI design Tools-	K1-K6	2	CO1-5	Lecture and Presentation	Discussion
Oct 7 - 15, 2024 (Day Order 1 to 6)	3	Post-launching UX Activities – User Feedback – Testing	K1-K6	6	CO1-5	Lecture and Presentation	Discussion

Department Name/s of the Faculty Course Title Course Code Shift	Name/s of the Faculty       : Dr. K. C. Sharmili         Course Title       : UI, UX and Design Thinking         Course Code       : 23CS/PE/XI15         Shift       II							
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods	
Oct 16 - 22, 2024 (Day Order 1 to 6)	3	Tracking and Recording – Creating and Analyzing Conversion funnels	K1-K6	5	CO1-5	Lecture and Presentation	Discussion	
Oct 23 - 24, 2024 (Day Order 1 to 2)		·	R	EVISION				

Department Name/s of the Facul Course Title Course Code Shift	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : Computer Science ty : Dr. K. C. Sharmili : Cyber Security : 23CS/PE/C15 II							
COURSE OUTCOMES (COs)								
COs	Description	CL						
CO1	Understand the fundamentals of cybercrimes and computer forensics	K1, K2						
CO2	Apply the preventive measures to safeguard from cyber crimes	K3						
CO3	Analyze the various methodologies involved in attacks	K4						
CO4	Evaluate the strategies used in cybercrime and cyber forensics       K5							
CO5	Adapt policies to secure data	K6						

		STELLA MARIS CO COURS		AUTONON June - Nove	. ,		
Department Name/s of the Faculty Course Title Course Code Shift	: E : C	Computer Science Dr. K. C. Sharmili Cyber Security 3CS/PE/C15 I					
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 24 – 26, 2024 (Day Order 4 - 6)	1	<b>1.1 Introduction to</b> <b>Cybercrime</b> Introduction, Cybercrime: Definition and Origins of the Word, Cybercrime and Information Security, who are Cybercriminals?	K1-K4	3	CO1-3	Brainstorming	Discussion
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	Classifications of Cybercrimes, Cybercrime The Legal Perspectives, Cybercrimes: An Indian Perspective, Cybercrime and the Indian ITA 2000, A Global Perspective on Cybercrimes	K1-K4	6	CO1-3	Brainstorming	Discussion
July 5 – 12, 2024 (Day Order 1 - 6)	1	1.2 Cyber Offenses: How Criminals Plan Them? Introduction, How Criminals Plan the Attacks, Social Engineering Cyber stalking, Cyber café and Cybercrime, Botnets, the Fuel for Cybercrime, Attack Vector, Security in Cloud	K1-K4	6	CO1-3	Storytelling	Questioning

	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024									
Department Name/s of the Faculty Course Title Course Code Shift	: I : (	Computer Science Dr. K. C. Sharmili Cyber Security 33CS/PE/C15								
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods			
July 15 – 23, 2024 (Day Order 1 - 6)	2	2.1 Cybercrime: Mobile and Wireless Devices Introduction, Proliferation of Mobile and Wireless Devices, Trends in Mobility, Credit Card Frauds in Mobile and Wireless Computing Era, Security Challenges Posed by Mobile Device Registry, Settings for Mobile Devices, Authentication Service Security, Attacks on Mobile/Cell Phones	К1-К4	6	CO1-3	Group Discussion	Questioning			
July 24 – 31, 2024 (Day Order 1 - 6)	2	Mobile Devices: Security Implications for Organizations, Organizational Measures for Handling Mobile, Organizational Security Policies and Measures in Mobile Computing Era, Laptops	K1-K4	6	CO1-3	Group Discussion	Component 1 (Unit 1,2) (25 marks) - Analysing the Cybercrimes and security & privacy measures in Social media platforms using open source security tools			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 Department : Computer Science								
Name/s of the Faculty Course Title Course Code Shift	: (	Dr. K. C. Sharmili Cyber Security 3CS/PE/C15 I						
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods	
Aug 1 – 5, 2024 (Day Order 1 - 3)	3	<b>3.1 Tools and Methods</b> <b>Used in Cybercrime</b> Introduction, Proxy Servers and Anonymizers, Phishing, Identity Theft (ID Theft), Password Cracking	K1-K6	3	CO1-5	Case Study	Presentation	
Aug 6 – 10, 2024		C.A. Test – I						
Aug 12 – 14, 2024 (Day Order 4-6)	3	Keyloggers and Spywares, Virus and Worms, Trojan Horses and Backdoors, Steganography	K1-K6	3	CO1-5	Case Study	Presentation	
Aug 16 – 23, 2024 (Day Order 1-6)	3	DoS and DDoS Attacks, SQL Injection, Buffer Overflow, Attacks on Wireless Networks	K1-K6	6	CO1-5	Case Study	Presentation	
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3	Steganography, DoS and DDoS Attacks, SQL Injection, Buffer Overflow, Attacks on Wireless Networks	K1-K6	6	CO1-5	Case Study	Presentation	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024									
Department Name/s of the Faculty Course Title Course Code Shift	: Computer Science : Dr. K. C. Sharmili : Cyber Security : 23CS/PE/C15 II								
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods		
Sep 4 – 11, 2024 (Day Order 1-6)	4	<b>4.1 Cybercrimes and</b> <b>Cyber security: The</b> <b>Legal Perspectives</b> Introduction, Cybercrime and the Legal Landscape around the World, Why Do We Need Cyber laws - The Indian Context, The Indian IT Act	K1-K6	6	CO1-5	Group Discussion	Discussion		
Sep 12 - 20, 2024 (Day Order 1-6)	4	Challenges to Indian Law and Cybercrime Scenario in India, Consequences of Not Addressing the Weakness in Information Technology Act, Digital Signatures and the Indian IT Act, Amendments to the Indian IT Act, Cybercrime and Punishment,	K1-K6	6	CO1-5	Group Discussion	Discussion		
Sep 23 - 26, 2024 (Day Order 1-4)	4	Cyber law, Technology and Students with respect to Indian Scenario	K1-K6	4	CO1-5	Group Discussion	Questioning		
Sep 27 – Oct 3, 2024	C.A. Test – II								

Department	: (	STELLA MARIS CO COURS Computer Science		AUTONON June - Nove					
Name/s of the Faculty Course Title Course Code Shift	: Dr. K. C. Sharmili : Cyber Security : 23CS/PE/C15 II								
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods		
Oct 4 – 5, 2024 (Day 5 & 6)	5	<b>5.1 Computer Forensics</b> <b>Understanding</b> <b>Computer Forensics</b> · Introduction, Historical Background of Cyber forensics	K1-K6	2	CO1-5	Gaming	Roleplay		
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	Digital Forensics Science, The Need for Computer Forensics, Cyber forensics and Digital Evidence, Forensics Analysis of E-Mail Digital Forensics Life Cycle, Chain of Custody Concept, Network Forensics, Approaching a Computer Forensics Investigation, Computer Forensics and Steganography, Relevance of the OSI 7 Layer Model to Computer Forensics.	K1-K6	6	CO1-5	Case Analysis	Component 2 (Unit 4,5) (25 marks) – Presentation of Real Case Analysis with the cybercrime laws and punishments given		

Department Name/s of the Faculty Course Title Course Code Shift	: D : C	Computer Science Dr. K. C. Sharmili Cyber Security 3CS/PE/C15		UTONOM une - Nove	. ,		
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Oct 16 - 22, 2024 (Day Order 1 to 6)	5	Forensics and Social Networking Sites: The Security/Privacy Threats, Computer Forensics from Compliance Perspective, Challenges in Computer Forensics · Special Tools and Techniques, Forensics Auditing Antiforensics	K1-K6	6	CO1-5	Case Analysis	Seminar
Oct 23 - 24, 2024 (Day Order 1 to 2)				RI	EVISION		