

BBA (CA) -- Semester: V

Teaching Plan 2021-2022

Name of Faculty: Subject: Cyber Security prof.shilpa thakur

(SUBJECT CODE-501) Topic Chapter 1: Introduction to Cyber Crime and Cyber Security Sr.No. Month Week 1.2 Cybercrime: Definition and Origin of the Word 1.3 Cybercrime and Information Security 1.4 Who are Cybercriminals? Classifications of Cybercrimes 1.5 2 Classifications of Cyberchifles:

E-Mail Spoofing, Spamming, Cyber defamation, Internet Time Theft,
Salami Attack/Salami Technique, Data Diddling,Forgery, Web Jacking,
Newsgroup, Spam/Crimes Emanating from Usenet Newsgroup, Industrial
Spying/Industrial Espionage LAB WORK Hacking, OnlineFrauds, Computer Sabotage, Email Bombing/Mail Bombs, Computer Network Intrusions, Password Sniffing, Credit Card Frauds, Identity Theft Definition of Cyber Security 1.7 Vulnerability, Threats and Harmful acts 1 OCT 3 1.8 CIA Triad 1.9 Cyber Security Policy and Domains of Cyber Security Policy Chapter 2: - Cyber offenses and Cyberstalking Plan: Categories of Cybercrime Cyber Attacks: Frain. Categories of Cymertinie Cype Attacks. Reconnaissance, Passive Attack, Active Attacks, Scanning/Scrutinizing gathered Information, Attack (Gaining and Maintaining the System Access), Social Engineering, and Classification of Social Engineering. 2.2 Cyberstalking: Types of Stalkers, Cases Reported on Cyberstalking, Working of Stalking 2.3 Real-Life Incident of Cyber stalking 2.4 Cybercafe and Cybercrimes
WORK LAB 1 DIWALI VACATION 2.5 Botnets: The Fuel for Cybercrime, Botnet, Attack Vector 2.6 Cybercrime: Mobile and Wireless Devices – Proliferation - Trends in Mobility 2.7 Credit Card Frauds in Mobile and Wireless Computing Era 2.1 Cedit Card Frauds in Mooile and writess Co
2.8 Security Challenges Posed by Mobile Devices
2.9 Authentication Service Security
2.10 Attacks on Mobile/Cell Phones 2 Chapter 3: Tools and Methods Used in Cybercrime Introduction 3.2 Proxy Servers and Anonymizers 3.3 Phishing 3.4 Password Cracking NOV 3.5 Keyloggers and Spywares 3.6 Virus and Worms 3.7 Trojan Horses and Backdoors 3.8 Steganography 3.9 DoS and DDoS Attacks 3.10 SQL Injection LAB WORK Chapter 4: Cybercrimes and Cyber security: The Legal Perspectives introduction
4.2 Cybercrime and the Legal Landscape around the World 4.3 Why Do We Need Cyberlaws: The Indian Context 4.4 The Indian IT Act 4.5 Challenges to Indian Law and Cybercrime Scenario in India 4.6 Consequences of not Addressing the Weakness in Information Technology Act Technology Act
4.7 Digital Signatures and the Indian IT Act
4.8 Amendments to the Indian IT Act
4.9 Cybercrime and Punishment
4.10 Cyberlaw, Technology and Students: Indian Scenario 1 Chapter 5: Cyber Forensics introduction 5.2 Historical background of Cyber forensics 2 5.3 Digital Forensics Science 5.4 The Need for Computer Forensics 3 DEC 5.5 Cyber Forensics and Digital evidence 5.6 Forensics Analysis of Email 5.7 Digital Forensics Lifecycle 5.8 Challenges in Computer Forensics LAB WORK Chapter 6: Cybersecurity: Organizational Implications Organizational Implications: Cost of cybercrimes and IPR issues 6.2 Web threats for organizations 6.3 Security and Privacy Implications from Cloud Computing 6.4 Social media marketing 6.5 Social computing and the associated challenges for organizations, Protecting people's privacy in the organization 6.6 Organizational guidelines for Internet usage and safe computing guidelines and computer usage policy
6.7 Incident handling 6.8 LAB Intellectual property in the cyberspace of cyber security. WORK Chapter 7: Cybercrime: Illustrations, Examples and Mini-Cases .1Real-Life Examples Mini-Cases
 Illustrations of Financial Frauds in Cyber Domain 7.4 Digital Signature-Related Crime Scenarios 7.5 Digital Forensics Case Illustrations 3 .6 Online Scams LAB WORK



BBA (CA)-- Semester: V

Teaching Plan 2021-2022

Name of Faculty: Subject: Object Oriented Software Engineering prof.amina qadri (SUBJECT CODE-502)

Sr.No.	Month	Week	Topic	
51.110.	Wolth	· · · · · · · · · · · · · · · · · · ·	Chapter 1:Introduction and basics of Software Modelling	1.1
1		_	Software Life Cycle Models (Revision of SE)	
		2	1.2 System Concepts	
			1.3 Project Organization	
			1.4 Communication in Project Management	
	OCT	3	1.5 Risk management in Project Management	LAB
			WORK Chapter 2: SRS Documentation	2.1 SRS
		4	Specification	2.1 5165
			2.2 Requirement Elicitation	
			2.3 Business Engineering LAB WORK	
			LAB WORK	
		1	DIWALI VACATION	
		-		
		2	Chapter 3 : Introduction to UML	3.1
1			Concept of UML 3.2 Advantages of UML	
			-	4 1 3375 - 4
			Chapter 4: Object Oriented Concepts and Principles is Object Orientation? - Introduction, Object,	4.1 What
			Classes and Instance , Polymorphism, Inheritance	
2	NOV	3	4.2 Object Oriented System Development- Introduction,	
			Function/Data Methods (With Visibility), Object Oriented	T 4 D
			Analysis, Object Oriented Construction WORK	LAB
			4.3 Identifying the Elements of an Object Model	
			4.4 Identifying Classes and Objects	
		4	4.5 Specifying the Attributes (With Visibility)	4.6
		-	Defining Operations 4.7 Finalizing the Object Definition	LAB
			WORK	LAD
			Chapter 5: Structural Modeling	5.1 Classes
			5.2 Relationship	
		1	5.3 Common Mechanism	
			5.4 Class Diagram (Minimum three examples should be covered)	
			should be covered)	
		2	5.5 Advanced Classes	
			5.6 Advanced Relationship	
			5.7 Interface	
			5.8 Types and Roles 5.9 Packages	
3	DEC		5.10 Object Diagram (Minimum three examples should be co	vered)
			Chapter 6: Basic Behavioural Modeling	6.1
			Interactions	
			6.2 Use Cases and Use Case Diagram with stereo types (Minimum three examples should be covered)	
		3	6.3 Interaction Diagram (Minimum two examples should be	
		4	covered)	LAB
			WORK	
			6.4 Sequence Diagram (Minimum two examples should be co	
			6.5 Activity Diagram (Minimum two examples should be covered)	
			6.6 State Chart Diagram (Minimum two examples should be	covereu)
			Chapter 7 : Architectural Modelling	7.1
	Jan-22		Component	
		1	7.2 Components Diagram (Minimum two examples should be 7.3 Deployment Diagram (Minimum two examples should be	
			7.4 Collaboration Diagram (Minimum two examples should be	
			LAB WORK	
		2	Chapter 8: Object Oriented Analysis	8.1 Iterative
			Development and the Rational Unified Process 8.2 Inception	
			8.3 Understanding Requirements	
			8.4 Use Case Model From Inception to Elaboration	
4			8.5 Elaboration	LAB
			WORK	
			Chapter 9: Object Oriented Design	9.1 The
		3	Booch Method, The Coad and Yourdon Method and	
			Jacobson Method and Raumbaugh Method 9.2 The Generic Components of the OO Design Model	9.3
			The System Design Process - Partitioning the Analysis	9.3
			Model, Concurrency and Sub System Allocation, Task	
			Management Component, The Data Management	
			Component, The Resource Management Component, Inter	TAR
			Sub System Communication WORK	LAB



BBA(CA) -- Semester: V

Teaching Plan 2021-2022

Name of Faculty: Subject: Core Java

prof.sunita kanadikar (SUBJECT CODE-503)

		1	
Sr.No.	Month	Week	Topic Chapter 1: Java Fundamentals 1.1
			Introduction to Java.
			1.1 Features of Java
		2	1.2 Basics of Java: - Data types, variable, expression, operators, constant.
			1.3 Structure of Java Program LAB
			WORK
			1.4 Execution Process of java Program. 1.5 JDK Tools.
			1.6 Command Line Arguments.
1	ост	3	1.7 Array and String:
			1.7.1 Single Array & Multidimensional Array
			1.7.2 String, String Buffer 1.8 Built In Packages and Classes :
			1.8.1 java.util:- Scanner, Date, Math etc.
			1.8.2 java.lang LAI
			WORK
			Chapter 2: Classes, Objects and Methods 2.1 Class and Object
		4	2.2 Object reference
			2.3 Constructor: Constructor Overloading
		1	DIWALI VACATION
			2.4 Method: Method Overloading, Recursion, Passing and
			Returning object form Method 2.5 new operator, this and static keyword, finalize() method
		2	2.6 Nested class, Inner class, and Anonymous inner class LAB
			WORK
			Chapter 3 : Inheritance, Package and Collection 3.1
			Overview of Inheritance 3.2
			inheritance in constructor 3.3 Inheriting Data members and Methods,
2	NOV	3	3.4 Multilevel Inheritance – method overriding Handle
			multilevel constructors LAB
			WORK
			3.5 Use of super and final keyword 3.6 Interface:
			3.7 Creation and Implementation of an interface, Interface
			reference
		4	3.8 Interface inheritance 3.9 Dynamic method dispatch
		,	3.10 Abstract class
			3.11 Comparison between Abstract Class and interface
			3.12 Access control LAI WORK
			3.13 Packages
		1	3.13.1 Packages Concept
			3.13.2 Creating user defined packages
			3.13.3 Java Built inpackages 3.13.4 Import statement, Static import
			3.14 Collection
			3.14.1 CollectionFramework.
		2	3.14.2 Interfaces: Collection, List, Set
		_	3.14.3 Navigation: Enumeration, Iterator, ListIterator 3.14.4 Classes: LinkedList, ArrayList, Vector, HashSet
			LAB WORK
3	DEC		Chapter 4: File and Exception Handling Exception
			4.1 Exception and Error
		3	4.2 Use of try, catch, throw, throws and finally 4.3 Built in Exception
		3	4.4 Custom exception
			4.5 Throwable Class
			File Handling
			4.6 Overview of Different Stream (Byte Stream, Character
		4	stream) 4.7 Readers and Writers class
			4.7 Readers and Writers class 4.8 File Class LAB
			WORK
			4.9 File Input Stream , File Output Stream
			4.10 Input Stream Reader and Output Stream Writer class
		1	4.11 FileReader and FileWriter class
			4.12 Buffered Reader class.
			LAB WORK
		2	Chapter 5: Applet, AWT, Event and Swing Programming Applet
4	Jan-22		5.1 Introduction 5.2 Typesapplet
			5.3 Applet Lifecycle
			5.3.1 Creatingapplet 5.3.2 Applet tag 5.4 AppletClasses 5.4.1 Color 5.4.2 Graphics 5.4.3 Font
		3	AWT
			5.5 Components and container used in AWT 5.6 Layoutmanagers
			5.7 Listeners and Adapterclasses
			5.8 Event Delegationmodel Swing
			5.9 Introduction to Swing Componentand Container Classes
			5.10Exploring Swing Controls- JLabel and Image Icon, JText Field, The Swing Buttons JButton, JToggle
		4	Button, JCheck Box, JRadio Button, JTabbed Pane,
			JScroll Pane, JList, JTable, JComboBox, Swing
			Menus, Dialogs, JFileOpen, JColorChooser. LAB
			WORK
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BBA (CA)-- Semester: V

Teaching Plan 2021-2022

Name of Faculty: Subject: Mongo DB prof.sunita kanadikar

(SUBJECT CODE-504)

Sr.No.	Month	Week	Topic	
1	ост	2	Chapter 1: Introduction to NoSQL Databases Introduction to NoSQL Databases 1.2 Difference between NoSQL and RDBMS 1.3 Need of NoSQL Databases	1.1
		3	1.4 Application of NoSQL Databases 1.5 Types of NoSQL Databases 1.6 What is MongoDB? 1.7 Features of MongoDB LAB WORK	
		4	Chapter 2 : MongoDB Basics Installing MongoDB 2.2 MongoDB Server and Database, MongoDB tools 2.3 Collection, Documents and Key-Values	2.1
		1	DIWALI VACATION	
2	NOV	2	2.4 Data Modeling Concepts 2.4.1 Why Data Modeling? Data Modeling Approach 2.4.2 Analogy between RDBMS & MongoDB Data Model, MongoD 2.4.3 Model (Embedding & Linking) 2.4.4 Challenges for Data Modeling in MongoDB 2.4.5 Data Model Examples and Patterns WORK	DB Data
		3	2.5 Mongo shell Commands to create, delete database, collection & documents 2.6 MongoDB Datatypes 2.7 Inserting and saving documents 2.7.1 Batch Insert 2.7.2 Insert Validation 2.8 MongoDB GUI like compass WORK	LAB
		4	Chapter 3: MongoDB CRUD Operations MongoDB Development Architecture 3.2 MongoDB Production Architecture 3.3 MongoDB CRUD Introduction, MongoDB CRUD Concepts 3.4 MongoDB CRUD Concerns (Read & Write Operations)	3.1
3	DEC	1	3.5 Concern Levels, Journaling 3.6 Cursor Query Optimizations, Query behaviour in MongoDB 3.7 Distributed Read & Write Queries 3.8 MongoDB CRUD Syntax & Queries WORK	LAB
		2	Chapter 4:MongoDB Index and Aggregation Introduction, Index Concepts, Index Types, Index Properties 4.2 Index Creation and Indexing Reference 4.3 Introduction to Aggregation	4.1 Index
		3	4.4 Approach to Aggregation 4.5 Types of Aggregation (Pipeline, MapReduce & Single Purpose) 4.6 Performance Tuning	
			LAB WORK	
4	Jan-22	1	Chapter 5: MongoDB Administration Administration concepts in MongoDB 5.2 Monitoring issues related to Database 5.3 Monitoring at Server, Database, Collection level, and various Monitoring tools related to MongoDB	5.1
		2	5.4 Database Profiling, Locks, Memory Usage, No of connections, page fault 5.5 Backup and Recovery Methods for MongoDB 5.6 Export and Import of Data to and from MongoDB	
		3	5.7 Run time configuration of MongoDB 5.8 Production notes/ best practices 5.9 Data Managements in MongoDB (Capped Collections/ Expired data from TTL), Hands on Administrative Tasks. WORK	LAB



BBA (CA) -- Semester: V

Teaching Plan 2021-2022

Name of Faculty: Subject: Python

prof.sunita kanadikar

(SUBJECT CODE-504)

Sr.No.	Month	Week	Topic	
51.110.	Month	Week	Chapter 1: Introduction to Python 1.1	
	1	1	History, feature of Python, setting up path, working with python	
		2	Interpreter, basic	
		_	syntax, variable and data types, operators 1.2 Conditional statements-If, If-Else, nested if-else, Examples.	
			1.2 Conditional statements-ir, ir-Eise, nested ir-eise, Examples. 1.3 Looping-For, While, Nested loops, Examples	
			1.4 Control Statements-Break, Continue, Pass.	
			1.5 String Manipulation-Accessing String, Basic Operations, Stri	ing
			Slices,	
	ост	3	Function and Methods, Examples.	
			1.6 Lists-Introduction, accessing list, operations, working with list function &	sts,
1			methods. LAB WORK	
			1.7 Tuple-Introduction, Accessing tuples, operations working,	
			function & methods,	
			Examples.	
			1.8 Dictionaries-Introduction, Accessing values in dictionaries,	
		4	working with	
			dictionaries, properties, function, Examples. 1.9 Functions-Defining a function, calling a function, types of	
			function, function	
	1		arguments, anonymous function, global & local variable, Example	les.
			LAB WORK	
		1	DIWALI VACATION	
			Chapter 2 : Modules and Packages 2.1Bu	uilt in
			Modules Modules	1111 111
	1		2.1.1 Importing modules in python program	
_	NOV	2	2.1.2 Working with Random Modules.	
2	NOV	1	2.1.3 E.g built-ins, time, date time, calendar, sys, etc 2.2 User Defined functions	
	1			
	1	1	2.2.1Structure of Python Modules 2.3 Packages	
	1	3	2.3.1 Predefined Packages	
			2.3.2User defined Packages	
		4	LAB WORK	
		1	Chapter 3: Classes ,Objects and Inheritance 3.1	
	1	1	Classes and Objects 3.1.1 Classes as User Defined Data Type	
		1	3.1.2 Objects as Instances of Classes	
			3.1.3 Creating Class and Objects	
	1	1	3.1.4 Creating Objects By Passing Values	
			3.1.5 Variables & Methods in a Class	
	1	1	3.2 Inheritance	
	1	1	3.2.1 Single Inheritance	
			3.2.2 Multilevel Inheritance 3.2.3	
1			Multiple Inheritance	i
1		2	Multiple Inheritance 3.2.4 Hybrid Inheritance	ł
3	DEC	2	3.2.4 Hybrid Inheritance 3.2.5 Hierarchical Inheritance	
3	DEC	2	3.2.4 Hybrid Inheritance 3.2.5 Hierarchical Inheritance 3.2.6 IS-A Relationship and HAS-A Relationship	AB
3	DEC	2	3.2.4 Hybrid Inheritance 3.2.5 Hierarchical Inheritance	
3	DEC	2	3.2.4 Hybrid Inheritance 3.2.5 Hierarchical Inheritance 3.2.6 IS-A Relationship and HAS-A Relationship	
3	DEC		3.2.4 Hybrid Inheritance 3.2.5 Hierarchical Inheritance 3.2.6 IS-A Relationship and HAS-A Relationship WORK Chapter 4: Exception Handling Python Exception	
3	DEC	3	3.2.4 Hybrid Inheritance 3.2.5 Hierarchical Inheritance 3.2.6 IS-A Relationship and HAS-A Relationship WORK Chapter 4: Exception Handling Python Exception 4.2 Common Exception	
3	DEC		3.2.4 Hybrid Inheritance 3.2.5 Hierarchical Inheritance 3.2.6 IS-A Relationship and HAS-A Relationship WORK Chapter 4: Exception Handling Python Exception	
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		3 4	3.2.4 Hybrid Inheritance 3.2.5 Hierarchical Inheritance 3.2.5 Hierarchical Inheritance 3.2.6 IS-A Relationship and HAS-A Relationship WORK Chapter 4: Exception Handling Python Exception 4.2 Common Exception 4.2 Common Exception 4.3 Exception handling in Python (try-except-else) 4.4 The except statement with no exception 4.5 Multiple Exception 4.6 The try-finally clause 4.7 Custom Exception and assert statement WORK Chapter 5: GUI Programming 5.1 Introduction 5.2 Tkinter programming 5.4 Tkinter widgets 5.5 Frame 5.6 Button 5.7 Label 5.8 Entry WORK Chapter 6: Python Libraries 6.1 Statistical Analysis- NumPy, SciPy, Pandas, StatsModels 6.2 Data Visualization-Matplotlib, Seaborn, Plotly 6.3 Data Modelling and Machine Learning- Scikit-learn, XGBoor Eli5	AB B