

BBA(CA) -- Semester: VI

Teaching Plan 2020-2021

Name of Faculty:

Subject: Recent Trends in Information Technology

Prof. Shilpa Thakur

(SUBJECT CODE-601)

Sr.No.	Month	Week	Topic
		2	Chapter 1: Introduction to recent trends 1.1 Artificial Intelligence 1.2 Data Warehouse 1.3 Data Mining 1.4 Spark WORK LAB
1	JAN	3	Chapter 2: Artificial Intelligence 2.1 Introduction& Concept of AI 2.2 Applications of AI 2.3 Artificial Intelligence, Intelligent Systems, Knowledge –based Systems, AI Techniques
		4	 2.4 Early work in AI & related fields. 2.5 Defining AI problems as a State Space Search 2.6 Search and Control Strategies 2.7 Problem Characteristics 2.8 AI Problem: Water Jug Problem, Tower of Hanoi, Missionaries & Cannibal Problem LAB WORK
		1	Chapter 3:AI Search Techniques 3.1 Blind Search Techniques: BFS, DFS, DLS, Iterative deepening Search, Bidirectional Search, and Uniform cost Search
		2	3.2 Heuristic search techniques: Generate and test, Hill Climbing, Best First search, Constraint Satisfaction, Mean-End Analysis, A*, AO* LAB WORK
2	FEB	3	Chapter 4: Data Warehousing 4.1 Introduction to Data warehouse 4.2 Structure of Data Warehouse 4.3 Advantages & uses of Data Warehouse 4.4 Architecture of Data Warehouse 4.5 Multidimensional data model
		4	 4.6 OLAP Vs. OLTP 4.7 OLAP Operations 4.8 Types of OLAP Servers: ROLAP versus MOLAP versus HOLAP LAB WORK
		1	Chapter 5: Data Mining 5.1 Introduction to Data Mining 5.2 Data mining Task 5.3 Data mining issues 5.4 Data Mining versus Knowledge Discovery in Databases 5.5 Data Mining Verification vs. Discovery

5	MAY	4 1	Online University Examination Started	
		4	Online Viva Conducted	
		3	6.8 Introduction to Kafka for Spark Streaming WORK	LAB
4	APRIL	2	6.7 Spark SQL and Data Frames	
			6.6 RDD Operations: Transformation & Actions	
		1	6.5 Spark RDDs	
			6.4 Components of Spark	
			6.3 Apache Spark Architecture	
			6.2 Spark Installation	
			6.1 Introduction to Apache Spark	
			Chapter 6: Spark	
			LAB WORK	
			Mining	mig, remporur
			5.12 Introduction to Text Mining, Web Mining, Spatial Min	ning Temporal
			data mining	ons of
			5.11 Software for data mining: R, Weka, Sample application	one of
3	MARCH	2	algorithm, FP tree algorithm 5.10 Graph Mining: Frequent sub-graph mining	
2	MADCII		5.9 Frequent item-sets and Association rule mining: Aprior	
			5.8 Data Mining Techniques	
			matrix, cross-validation, bootstrap	
			5.7 Accuracy Measures: Precision, recall, F-measure, confu	sion
			Transformation, Data Reduction	
			5.6 Data Pre-processing – Need, Data Cleaning, Data Integral	ration &



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Name of Faculty: Prof. Amina Qadri

Subject: Software Testing

(SUBJECT CODE-602)

Sr.No.	Month	Week	Topic	
			Chapter 1: Introduction	
			1.1 Introduction, Nature of errors,	
			1.2 Testing Objectives	
			1.3 Testing principles	
		2	1.4 Testing fundamentals,	
		_	1.5 Software reviews, Formal Technical reviews,	
			1.6 Inspection and walkthrough	
1	JAN	3	1.7 Testing Life Cycle	LAB
			WORK	
			Chapter 2: Approaches to Testing –Testing Methods	
			2.1 White Box Testing and types of white box testing	
			2.2 Test Case Design	
		4	2.3 Black Box Testing and types of black box testing	
			2.4 Gray Box Testing	
			LAB WORK	
			Chapter 3: Software Testing Strategies & Software metric	es
			3.1 Software Testing Process	
		1	3.2 Unit Testing	
			3.3 Integration- Top-down ,Bottom up	
			3.4 System Testing	
			3.6 Validation and Verification	
			3.7 Big Bang Approach	
			3.8 Sandwich approach	
		_	3.9 Performance Testing	
		2	3.10 Regression Testing	
2	FEB		3.11 Smoke Testing	
			3.13 Load Testing	LAB
			WORK	
			Chapter 4: Software metrics	
			4.1 Introduction	
		_	4.2 Basic Metrics -size-oriented metric, Function -oriented	
		3	metric	
			4.3 Cyclometic Complexity Metrics	
			Examples on Cyclometic Complexity	
		4	LAB WORK	
			Chapter 5: Testing for Specialized Environments	
			5.1 Testing GUI's	
			5.2 Testing of Client/Server Architectures	
		1	5.3 Testing Documentation and Help Facilities	
			5.4 Testing for Real-Time Systems	LAB
			WORK	

3	MARCH	2	Chapter 6: Testing Tools& Software Quality Assurance (Introduction) 6.1 JUnit, Apache JMeter, Win runner 6.2 Load runner, Rational Robot 6.3 Quality Concepts, Quality Movement, Background Issues, SQA activities
			6.4 Formal approaches to SQA6.5 Statistical Quality Assurance6.6 Software Reliability
		1	6.7 The ISO 9000 Quality Standards6.8 SQA Plan
4	APRIL	2	6.9 Six sigma 6.10 Informal Reviews
		3	LAB WORK
		4	Online Viva Conducted
5	MAY	1	Online University Examination Started



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Teaching Plan 2020-2021

N. 650 1			Teaching Plan 2020-2021	
Name of Facul			Prof. Sunita Kadnikar	
Subject: Advance			(SUBJECT CODE- 603)	
Sr.No.	Month	Week	Topic	
			Chapter 1: JDBC	
			1.1 Introduction	
			1.2 JDBC Architecture.	
			1.3 JDBC Process	
		2	1.4 Working with ResultSet Interface.	
		3	LAB WORK	
1	JAN		Chapter 2: Multithreading:	
			2.1 Introduction to Multithreading.	
			2.2 Thread creation: Thread Class, Runnable Interface.	
		4	2.3 Life cycle of Thread.	
			2.4 Thread Priority.	
			2.5 Execution of Thread Application.	
			2.6 Synchronization and Interthread communication.	
		1	LAB WORK	
			Chapter 3: Networking:	
			3.1 Overview of Networking.	
		2	3.2 Networking Basics: Port Number, Protocols and classes.	
			3.3 Sockets, Reading from and Writing to a Socket.	
		2	I AD WODY	
2	FEB	3	LAB WORK	
			Chapter 4: Servlet and JSP 4.1 Introduction to Servlet	
			4.1 Introduction to Serviet 4.2 Types of Servlet: Generic Servlet and Http Servlet	
		4	4.3 Life cycle of servlet	
		7	4.4 Session Tracking.	
			4.5 Servlet with database	
			no service man damonso	
			JSP	
			4.6 Introduction to JSP.	
			4.7 JSP Life Cycle.	
		1	4.8 Components of JSP.	
				LAB
			WORK	
3	MARCH		Chapter 5: Spring & Hibernate	
		_	Spring:	
		2	5.1 Introduction	
			5.2 Applications and Benefits of spring	
			5.3 Architecture and Environment Setup	
			5.4 Hello World Example	
			5.5 Come Carriage LoC Containing Spains Boon Definition Spains	
		1	5.5 Core Spring- IoC Containers, Spring Bean Definition, Scope,	
			Lifecycle Hibernate	
		_	5.6 Architecture and Environment	
4	APRIL	2	5.7 Configuration, Sessions, Persistent Class	
		3	5.8 Mapping Files, Mapping Types	
		J	5.9 Examples	
		4	Online Viva Conducted	
5	MAY	1	Online University Examination Started	



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Teaching Plan 2020-2021

Name of Faculty:Prof. Sunita KadnikarSubject: Android Programming(SUBJECT CODE-604)

Sr.No.	Month	Week	Topic Chapter 1: INTRODUCTION TO Android Programm 1.1 What is Android? 1.2 History and Versions 1.3 Android Architecture 1.4 Basic Building Blocks 1.5 Android API Levels 1.6 Application Structure 1.7 First Hello World Program WORK Chapter 2: ACTIVITY, INTENT AND LAYOUT 2.1 Introduction to Activity	ning LAB
1	JAN	3	2.2 Activity life cycle2.3 Introduction to Intent2.4 Types of Intent(Implicit and Explicit Intent)	
		4	2.5 Layout Manager 2.5.1 View and View Group 2.5.2 Linear Layout 2.5.3 Relative Layout 2.5.4 Table Layout 2.5.5 Grid Layout 2.5.6 Constraint Layout 2.5.7 Frame Layout 2.5.8 Scroll Layout WORK	LAB
		1	Chapter 3: BASIC UI DESIGN 3.1 Button(Push Button, Check Box, Radio Button, Toggle Button, Image Button) 3.2 Text Fields 3.3 Spinner 3.4 List View 3.5 Toast 3.6 Scroll View 3.6 ProgressBar View WORK	LAB
		2	3.7 Auto Complete Text View 3.8 Dialog Box ☐ 3.8.1 Alert Dialog. ☐ 3.8.2 DatePicker Dialog. ☐ 3.8.3 TimePicker Dialog. ☐ 3.8.4 Custom Dialog	

5	MAY	4 1	Online Viva Conducted Online University Examination Sta	rted
		3	LAB WORK	
4	APRIL	2	7.2. Getting Location Data Monitoring a Location	7.3.
		1	7.1.8 Getting the location that was touched Geocoding and Reverse Geocoding	7.1.9
			7.1.5 Changing Views 7.1.6 Navigating to a specific location 7.1.7 Adding	Markers
		2	Chapter 7: LOCATION BASED SERVICES AND 7.1 Display Google Map 7.1.1 Creating the project 7 Maps API Key 7.1.3 Displaying the Map 7.1.4 Displaying the Zoom Control	
3	MARCH	1	Chapter 6: CONTENT PROVIDER 6.1Content Providers 6.2 SQLite Programming 6.3 SQLiteOpenHelper 6.4 SQLiteDatabse 6.5 Cursor 6.6 Searching for content 6.7 Adding, changing, and removing content 6.8 Building and executing queries 6.9 Android JSON WORK	LAB
		4	Chapter 5: THREADS AND NOTIFICATION 5.1 Worker thread 5.2 Handlers & Runnable 5.3 AsynTask (in detail) 5.4 Broadcast Receiver 5.5 Services 5.5.1Service life Cycle 5.5.2 Bounded Service 5.5.2 Unbounded Service 5.6 Notification 5.7 Alarm 5.8 Accessing Phone services(Call,SMS) WORK	LAB
2	FEB	3	Chapter 4: ADAPTER AND MENU Adapter 4.2 Array Adapter 4.3 ListView using Adapter 4.4GridView using Adapter 4.5Photo Gallery using Adapter Using Menu with Views 4.6.1 Option Menu 4.5.2 Context Menu 4.5.3 Popup Menu WORK	4.1 Base 4.6 LAB



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Teaching Plan 2020-2021

Name of Faculty: Subject: Dot Net Framework Prof. Amina Qadri

(SUBJECT CODE-604)

Sr.No.	Month	Week	Торіс
			Chapter 1: Introduction to DOT NET FRAMEWORK
			1.1 What is Framework? 1.2 Architecture of Dot Net Framework
			1.2 Architecture of Dot Net Framework 1.2.1 Common Language Runtime
			1.2.2 Common Type System(CTS)
			1.2.3 Common Language Specification(CLS)
			1.2.3 JIT Compilers
			1.2.3 Base Class Library
1	JAN		1.3 IDE (Integrated Development Environment)
		2	1.4 Event Driven Programming
		3	LAB WORK
		•	Chapter 2: Introduction to VB.Net
			2.1 Basics of VB.Net
		4	2.1.1 Operators
		•	2.1.2 Data Types
			2.1.3 Control Structures
			2.2Build Windows Applications
			2.2.1 Controls: Form, TextBox, Button, Label, CheckBox, ListBox,
			ComboBox, RadioButton, DateTimePicker, MonthCalender,
			Timer, Progressbar, Scrollbar, PictureBox, ImageBox, ImageList,
		1	TreeView, ListView, Toolbar, StatusBar, Datagridview
			2.2.2 Menus and PopUp Menu2.2.3 Predefined Dialog controls: Color, Save, File, Open, Font
			2.2.4 DialogBox - InputBox(), MessageBox, MsgBox()
			LAB WORK
			Chapter 3: Introduction to C#
			3.1 Language Fundamenta 3.1.1 Data type and Control Constructs 3.1.2 Value and Reference Types,Boxing
		2 3.1.3 Arrays 3.1.4 String class and its va 3.1.5 Functions 3.2 Object Oriented Con	3.1.3 Arrays 3.1.4 String class and its various operations
			3.1.5 Functions 3.2 Object Oriented Concepts
2	FEB		3.2.1 Defining classes and Objects
			3.2.2 Access modifiers 3.2.3 Constructors
			3.2.4 Inheritance 3.2.5 Interface
		3	3.2.6 Abstract Class 3.2.7 Method Overloading and Overriding
			3.2.8 Delegates
			LAB WORK
			Chapter 4: Introduction to ASP.NET
			4.1 What is ASP.NET?
			4.2 ASP.NET Page Life Cycle 4.3 Architecture of ASP.NET
		_	4.4 Forms, WebPages, HTML forms,
		4	4.5 Request & Response in Non-ASP.NET pages
			4.6 Using ASP.NET Server Controls
			4.7 Overview of Control structures
			4.8 Functions

		1	4.9 HTML events4.9.1 ASP.NET Web control events4.9.2 Event driven programming and postback
3	MARCH	2	4.10 Introduction to Web forms 4.10.1 Web Controls 4.10.2 Server Controls 4.10.3 Client Controls 4.10.4 Navigation Controls 4.10.5 Validations 4.10.6 Master Page 4.10.7 State Management Techniques LAB WORK
		1	Chapter 5: Architecture of Ado.Net 5.1 Basics of Ado.net 5.1.1Connection Object 5.1.3Dataset 5.1.4Data Table 5.1.5Data Reader Object
4	APRIL	2	5.1.6Data Adapter Object5.2 Datagridview& Data Binding: Insert, Update, Delete records5.3 Navigation Using Data Source
		3	LAB WORK
		4	Online Viva Conducted
5	MAY	1	Online University Examination Started