# People's Information Technology Programme (PITP) Phase II - Batch I (22-Sep-2025 to 14-Nov-2025) | (Monday to Friday)

**Lesson Planner** 













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1. WEB DEVELOPMENT







Week	Days	Topics
	Day 1	Overview of the Internet, Web, and Browsers
	Day 2	Understanding the Client-Server Model
	Day 3	Introduction to Web Development Tools (IDEs, Browsers, Inspect Tools)
Week 01	Day 4	Setting up a Development Environment (VS Code)
	Day 5	Structure of an HTML Document, HTML Tags
	Activities &	Build a simple HTML webpage demonstrating the use of basic HTML tags and
	Deliverables	structure.
	Day 1	Forms and Form Elements (input types, validation)
	Day 2	HTML tags (tables, list)
	Day 3	Introduction to CSS and its Types (inline, internal, external), CSS Selectors,
_	Day 3	Properties, and Specificity
Week 02	Day 4	Box Model and Layout Techniques, Styling Text, Colors, Backgrounds, and
	-	Borders
	Day 5	Positioning and Creating Simple Page Layouts
	Activities & Deliverables	Design a styled webpage using forms, tables, lists, and CSS layouts.
	Day 1	Introduction to JavaScript and Its Role in Web Development
	Day 2	Data Types, Variables, and Operators
	Day 3	Conditional Statements and Loops
Week 03	Day 4	Functions and Scope
	Day 5	Arrays and Objects
	Activities & Deliverables	Create an interactive webpage where JavaScript handles basic calculations
	Day 1	DOM Tree and Element Selection (getElementById, querySelector)
	Day 2	Event Handling and Listeners
	Day 3	Modifying DOM Elements Dynamically
Week 04	Day 4	Form Validation using JavaScript
	Day 5	Midterms
	Activities & Deliverables	Develop a simple form with JavaScript-based validation and dynamic DOM updates.
	Day 1	Concepts of Responsive Web Design
	Day 2	Transitions
	Day 3	Animations
Week 05	Day 4	Understand the role of PHP in server-side web development
	Day 5	PHP Syntax and Tags
	Activities &	Create a responsive webpage with basic CSS animations and integrate a simple
	Deliverables	PHP script.
	Day 1	Variables and Data Types
	Day 2	Operators (Arithmetic, Comparison, Logical)
	Day 3	Control Structures (if, else, switch)
Week 06	Day 4	Loops (for, while etc)
	Day 5	Write PHP scripts to handle form data and server requests using GET and POST
	Activities &	Build a contact form that sends and retrieves data using PHP GET & POST
	Deliverables	methods.





	Day 1	Introduction to Databases and Data Models
	Day 2	Connect and interact with a database using PHP (MySQL or MongoDB)
	Day 3	Performing CRUD Operations
Week 07	Day 4	Data insertion in DB using HTML form
	Day 5	Signup/Login Page
	Activities &	Develop a signup/login system connected to a MySQL database performing
	Deliverables	CRUD operations.
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
	Day 2	Soft Skills-Effective principles of oral and written communication, Listening skills – listening to the employer and clients, Feedback to the clients, and ethics
	Day 3	Soft Skills-Resume Writing- theory and practice, LinkedIn profile- importance,
Week 08		and account creation
Week 08	Day 4	Soft Skills- Employment interviews- theory, discussion, pair interview
		simulation, group simulation
	Day 5	Finals
	Activities &	Prepare a personal portfolio website, optimize it for launch, and present it as
	Deliverables	part of the final assessment.











2. E-COMMERCE





Week	Day	Topic
	Day 1	Overview of E-commerce & Business Models (B2B, B2C, C2C)
	Day 2	Benefits & Challenges of E-commerce
	Day 3	E-commerce Platforms Comparison (WooCommerce, Shopify, Magento)
Week 1	Day 4	Domain Names & Web Hosting Basics
	Day 5	Key Components of a Successful E-commerce Website
	Tasks &	Research 3 real-world E-commerce stores. Identify their business model
	Activities	(B2B/B2C/C2C), hosting, and domain provider. Present findings in class.
	Day 1	Installing WordPress & WooCommerce
	Day 2	Shopify Dashboard & Settings Overview
	Day 3	Selecting & Customizing Store Themes
Week 2	Day 4	Setting Store Information: Currency, Tax & Shipping
	Day 5	Managing Pages, Menus & Store Policies
	Tasks &	Create a demo online store (WooCommerce or Shopify) with proper currency,
	Activities	tax, and shipping settings. Share the store URL with peers.
	Day 1	Adding Simple, Variable & Digital Products
	Day 2	Product Descriptions, Images & Pricing Strategies
	Day 3	Inventory Management & Stock Keeping
Week 3	Day 4	Categories, Tags & Customer Purchase Journey
	Day 5	Order Management: Viewing, Fulfilling, Cancelling Orders
	Tasks &	Add 5 sample products with descriptions, images, pricing & categories. Simulate
	Activities	a customer order and process it.
	Day 1	Introduction to Online Payment Methods
	Day 2	Setting up PayPal & Stripe (International)
	Day 3	Setting up JazzCash & Easypaisa (Local)
Week 4	Day 4	Payment Gateway Sandbox Testing
	Day 5	Mid Term Exam
	Tasks &	Integrate one payment gateway in sandbox mode and process a test payment
	Activities	on your demo store.
	Day 1	Basics of SEO for E-commerce Sites
	Day 2	Keyword Research & On-page Optimization
	Day 3	SEO-friendly Product Titles & Descriptions
Week 5	Day 4	Social Media & Google Ads for E-commerce
	Day 5	Creating Facebook & Instagram Ads + Budgeting Campaigns
	Tasks &	Optimize 3 product pages for SEO + create 1 sample ad campaign. Present SEO
	Activities	improvements & ad designs.
	Day 1	Understanding Customer Behavior & Loyalty
	Day 2	Discount Coupons & Promotional Offers
Week 6	Day 3	Email Marketing Platforms (Mailchimp, Klaviyo)
AACCK O	Day 4	Designing Email Campaigns & Automation
	Day 5 Tasks &	Segmentation, Personalization & Customer Support  Create a discount coupon + design an email campaign in Mailchimp, Sond the
	Activities	Create a discount coupon + design an email campaign in Mailchimp. Send the email to test accounts & analyze engagement.
Week 7	Day 1	Introduction to Web Analytics (Google Analytics, Reports)
WEEK /	Day 1	introduction to web Analytics (Google Analytics, Reports)





	Day 2	Tracking Traffic, Conversions & Sales Funnel
	Day 3	Identifying High-performing Products & Pages
	Day 4	A/B Testing, Speed & Mobile Optimization
	Day 5	Cart Abandonment & Recovery Strategies + Final Project
	Tasks & Activities	Launch a fully functional mini E-commerce store with products, payment gateway, SEO, ads, and email campaign.
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
	Day 2	Effective principles of oral and written communication, Listening skills, ethics
	Day 3	Resume Writing- theory and practice, LinkedIn profile- importance, and account creation
Week 8	Day 4	Employment interviews- theory, discussion, pair interview simulation, group simulation
	Day 5	Final Examination
	Tasks & Activities	Submit <b>project</b> . Final <b>presentation</b> of project and Final Examination











3. DIGITAL MARKETING



Week	Days	Topics
		Digital Marketing Definition
	Day 1	What is Digital Marketing? Scope and Career Opportunities
		4 Ps of Digital Marketing
		Marketing Funnel
		Traditional Marketing vs. Digital Marketing
		Key Components of a Digital Marketing Strategy
	Day 2	Understanding Target Audience, Buyer Personas and Customer Journey
		Keyword Analysis & Research
		SWOT Analysis
\A/FFI/ 1	Day 2	Competitor Analysis
WEEK 1	Day 3	Overview of Digital Channels (SEO, SEM, Social Media, Email, Content)
		• Introduction to Tools: Google Workspace, Canva, ChatGPT, Buffer, etc.
		Meta Ads Library
	Day 4	What is Branding?
	Day 4	Branding vs Marketing
		Types of Logos
	Day 5	Chat GPT for content generation, keyword research and content writing.
	Day 3	Prompt Engineering, how to write prompt?
	Activities &	Class tasks to find target audience, do competitor research, SWOT analysis
	Deliverables	and to a Branding for a brand.
		Overview of Platforms: Facebook, Instagram, LinkedIn, Twitter, TikTok
		Creating Business Profiles and Pages
	Day 1	Concept of Page vs Account
		Meta Business Suite
		Facebook vs Meta: Difference
	Day 2	Content Planning and Calendar Creation
		How to Make Social Media Strategies
		Paid Advertising on Facebook & Instagram (Meta Ads Manager)
		Meta Ads Objectives
WEEK 2	Day 3	Audience Creation
		Budget Strategies
	Day 4	Targeting and Retargeting Strategies
	Day 4	Organic Growth vs. Paid Growth     Gasial Madia Taplas Haptsvita, Buffan
		Social Media Tools: Hootsuite, Buffer
	Day 5	Social Media Posts Size & Design
	•	Post Designing on Canva
	Activities &	Class tasks to Create a content calendar, create meta audience for Ads and to
	Deliverables	practice for post designing on Canva
		Introduction to Paid Advertising and Google Ads Ecosystem
	Day 1	Creating a Google Ads Account and Campaign Types (Search, Display,
		Video)
WEEK 3	Day 2	Understanding Ad Auction, Quality Score, and Bidding
	Day 2	Creating Effective Ads (Headlines, Descriptions, CTAs)
	Day 3	Keyword Match Types and Negative Keywords
		Tracking Conversions and ROI
[	<u> </u>	soming conversions and not





		Importance of Content in Digital Marketing
	Day 4	Types of Content: Blogs, Videos, Infographics, Reels, Case Studies
		Creating Engaging & SEO-Friendly Content
	Day 5	Content Planning and Scheduling Tools (Trello, Notion, Google
		Calendar)
	Activities & Deliverables	Create a Demo Basic Google Ads Campaign
	Day 1	<ul> <li>Introduction to Email Marketing Platforms (Mailchimp, Brevo)</li> <li>Building Email Lists and Designing Campaigns</li> </ul>
	Day 2	<ul> <li>Segmentation, Personalization, and Automated Drip Campaigns</li> <li>Email Marketing KPIs and Best Practices</li> </ul>
WEEK 4	Day 3	<ul> <li>Introduction to Influencer Marketing</li> <li>Identifying the Right Influencers for a Brand</li> </ul>
	Day 4	<ul> <li>Outreach, Collaboration, and ROI Measurement</li> <li>Legal and Ethical Aspects of Influencer Marketing</li> </ul>
	Day 5	Mid Term Examination
	Activities & Deliverables	Create a Basic email Template
	Day 1	<ul> <li>Basics of Affiliate Marketing and Key Platforms (Amazon, Daraz, Impact)</li> <li>Creating and Managing Affiliate Campaigns</li> <li>Tracking Sales, Commission Models, and Reporting</li> </ul>
	Day 2	<ul> <li>Mailchimp Introduction</li> <li>How to create a email template</li> <li>Audience on mailchimp</li> </ul>
WEEK 5	Day 3	<ul><li>Setting up the email campaign</li><li>Newsletter section on website</li></ul>
	Day 4	<ul><li>Concept of Website</li><li>Domain Names &amp; Web hostings</li></ul>
	Day 5	<ul> <li>Concept of cloud and servers</li> <li>Wordpress installations and plugins</li> </ul>
	Activities & Deliverables	Create and Launch a Simple Affiliate Marketing Email Campaign for a Website
	Day 1	<ul> <li>Importance of Data in Digital Marketing</li> <li>Setting Up and Understanding Google Analytics</li> <li>Key Metrics: Traffic Sources, Bounce Rate, Time on Page, Goals</li> </ul>
WEEK 6	Day 2	<ul> <li>Google Search Console Setup</li> <li>Using Google Tag Manager for Conversion Tracking</li> <li>Setting Up Custom Dashboards and Reports</li> <li>Using Insights from Analytics to Improve Campaigns</li> <li>Introduction to UTM Parameters and Campaign Tracking</li> <li>Measuring ROI and Preparing Performance Reports</li> </ul>
	Day 3	<ul> <li>Search Intent</li> <li>Google EEAT Algorithms</li> <li>How Search Engine Works</li> <li>Concept of Crawlers</li> <li>Crawling in SEO</li> </ul>







	Day 4	<ul> <li>ON Page SEO</li> <li>Alt Tags</li> <li>HTML Heading form H1 to H6</li> <li>Meta Data tags</li> <li>Internal Linking</li> </ul>
	Day 5	<ul> <li>Schema Markup</li> <li>Permalink</li> <li>Canonical tags</li> <li>SSL &amp; Website Security</li> </ul>
	Activities & Deliverables	Do Keyword Research and setup Yoast SEO Plugin
	Day 1	<ul> <li>Breadcrumb navigation</li> <li>Robot.txt</li> <li>XML sitemap</li> <li>404 page optimization</li> <li>Pagination</li> </ul>
WEEK 7	Day 2	<ul> <li>Off page SEO</li> <li>Back Linking</li> <li>Guest Posting</li> <li>Blog Writing</li> </ul>
	Day 3	<ul><li>Technical SEO</li><li>Local SEO</li></ul>
	Day 4	<ul><li>Google Business Profile Setup</li><li>Pin your business to map</li></ul>
	Day 5	SEO Auditing and Tools (Google Search Console, Ahrefs, SEMrush Basics)
	Activities & Deliverables	keyword Analysis for blogs, and website content
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
	Day 2	Effective principles of oral and written communication, Listening skills – listening to the employer and clients, Feedback to the clients, and ethics
WEEK 8	Day 3	Resume Writing- theory and practice, LinkedIn profile- importance, and account creation
	Day 4	Employment interviews- theory, discussion, pair interview simulation, group simulation
	Day 5	Final Examination
	Activities & Deliverables	Softskills training, Final Examination and Presentation









4. SOCIAL MEDIA MANAGEMENT







Week	Day	Topic
	Day 1	Introduction to Social Media & Its Evolution
		Overview of Major Platforms: Facebook, Instagram, LinkedIn, X, TikTok,
	Day 2	YouTube
	Day 3	Platform-Specific Audiences & Content Formats
Week 1	Day 4	Current Trends: Reels, Shorts, Stories, Hashtags
		Platform Algorithms, Branding (Personal vs. Business), Target Audiences &
	Day 5	Competitor Analysis
	Tasks &	Research 3 competitors on Instagram/Facebook. Identify their target
	Activities	audience, type of content, and engagement level. Prepare a short
	Day 1	comparison report.
	Day 1	Basics of Digital Branding (Logo, Colors, Fonts, Brand Voice)
	Day 2	Types of Content: Images, Videos, Carousels, Stories, Live Sessions
	Day 3	Tools for Content Creation (Canva, CapCut, Adobe Express)
Week 2	Day 4	Writing Captions & Crafting CTAs
	Day 5	Content Calendars, Scheduling, Storytelling & Feed Aesthetics
	Tasks &	Design a mini content kit (logo, color palette, 3 branded posts). Create one
	Activities	carousel + one story using Canva or CapCut.
	Day 1	Introduction to Paid Advertising
	Day 2	Setting Up Business Accounts & Ad Managers
	Day 3	Types of Ads (Image, Video, Carousel, Story Ads)
Week 3	Day 4	Audience Targeting: Interests, Demographics, Custom & Lookalike
	Day 5	Budgeting, Campaign Objectives & Optimization
	Tasks &	Create a mock ad campaign (choose an objective, audience, and format).
	Activities	Prepare ad visuals and write ad copy.
	Day 1	Building & Nurturing Online Communities
	Day 2	Engagement: Comments, Messages, Polls
	Day 3	Managing Feedback & Responding Professionally
Week 4	Day 4	Handling Trolls, Negative Comments & Crises
	Day 5	Community Guidelines, Social Listening & Case Studies
	Tasks &	Draft a community engagement plan. Role-play handling a negative
	Activities	comment/troll. Write 3 sample professional responses.
	Day 1	Platform Insights (Meta, LinkedIn, TikTok, YouTube)
	Day 2	Key Metrics: Reach, Impressions, Engagement, CTR
	Day 3	Analyzing Post & Campaign Performance
Week 5	Day 4	Identifying High-Performing Content & Replication Strategy
	Day 5	Reports, SMART Goals & Growth Approaches
	Tasks &	Analyze insights of any Instagram/Facebook page. Create a short report with
	Activities	best-performing post, engagement trends, and 2 recommendations for growth.
	Day 1	Scheduling Tools (Meta Business Suite, Buffer, Hootsuite, Later)
	Day 1	Automating Tasks & Publishing
	Day 2 Day 3	Al Tools for Captions, Hashtags & Content Ideas
Week 6	Day 4	
VVCCR 0	-	Social Media CRM & Comment Management  Collaboration, Workflows & Post Practices
	Day 5 Tasks &	Collaboration, Workflows & Best Practices  Use a free scheduling tool to plan 1 week of posts. Generate 5 captions with





	Day 1	Ads, Sponsorships & Collaborations
	Day 2	Affiliate Marketing & Product Endorsements
	Day 3	Creating & Selling Digital Products/Services
Week 7	Day 4	Instagram Shops, Marketplace, Paid Communities
	Day 5	Influencer Partnerships + Legal & Financial Considerations
	Tasks &	Create a monetization plan for a chosen niche. Suggest 2 collaboration
	Activities	ideas, 1 product to sell, and 1 influencer to partner with.
	Day 36	Explore freelancing basics, top marketplaces like Upwork & Fiver
	Day 37	Effective principles of oral and written communication, Listening skills, ethics
	Day 38	Resume Writing- theory and practice, LinkedIn profile- importance, and account creation
Week 8	Day 39	Employment interviews- theory, discussion, pair interview simulation, group simulation,
	Day 40	Final Examination
	Tasks & Activities	Final <b>presentation</b> of project and Final Examination











# **5. PYTHON DEVELOPMENT**





Week	Day	Topic
	Day 1	Overview of programming, Python's role, and setting up Python with
	Day 1	IDLE and VS Code.
	Day 2	Writing and Executing Python Scripts
Week 01	Day 3	Understanding Python Syntax and Code Structure
WCCK 01	Day 4	Introduction to IDEs, Code Editors, and Debugging Tools
	Day 5	Comments and Code Readability Best Practices
	Activities &	
	Deliverables	Practice Problems
	Day 1	Working with Basic Data Types: int, float, string, bool
	Day 2	Type conversion and casting, along with variables and naming
		conventions.
Week 02	Day 3	Arithmetic, Assignment, Comparison, Logical, and Bitwise Operators
	Day 4	Working with Strings: Methods, Formatting, and Slicing
	Day 5	Introduction to Lists, Tuples, Sets, and Dictionaries
	Activities & Deliverables	Practice Problems based on Lists, Tuples and Strings
	Day 1	Conditional Statements (if, elif, else)
	Day 2	Loops: for and while Loops with Range and Iterables
	Day 3	Introduction to Functions: Defining and Calling Functions
Week 03	Day 4	Parameters, Arguments, and Return Values
	Day 5	Lambda Functions and Recursion
	Activities &	Editional Fallocions and Recalision
	Deliverables	Practice Problems based on Loops and Functions
	5. 4	Introduction to OOP Concepts: Class, Object, Inheritance,
	Day 1	Polymorphism
	Day 2	Defining Classes and Creating Objects
Week 04	Day 3	Instance vs Class Variables and Methods
week 04	Day 4	Method Overriding and Super Function
	Day 5	Mid Term
	Activities & Deliverables	Practice Problems based on Classes
	Day 1	Reading from and Writing to Text and CSV Files
	Day 2	File Modes and File Pointer Methods
	Day 3	Working with JSON Files
Week 05	Day 4	Introduction to Databases and SQL
WCCR 03	Day 5	Executing CRUD Operations using Python
	Activities & Deliverables	Practice Problems based on dealing with CSV files
	Day 1	Introduction to Web Scraping and Ethical Considerations
	Day 2	Using requests and BeautifulSoup Libraries
Week 06	Day 3	Extracting Data from Static Web Pages
TTCCK 00	Day 4	Introduction to APIs and JSON Format
	Day 5	
	Day 5	Making API requests





	Activities & Deliverables	Practice Problems based on Web Scrapping tasks
	Day 1	Making API Requests using requests Module
	Day 2	Parsing and Using API Data
	Day 3	Authentication and security basics for APIs in Python
Week 07	Day 4	Data Analysis with Pandas
	Day 5	Data Analysis with Matplotlib
	Activities & Deliverables	Creating Charts and Graphs to Analyze Trends
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
	Day 2	Effective principles of oral and written communication, Listening skills  – listening to the employer and clients, Feedback to the clients, and ethics
Week 08	Day 3	Resume Writing- theory and practice, LinkedIn profile- importance and account creation
	Day 4	Employment interviews- theory, discussion, pair interview simulation, group simulation
	Day 5	Final Project Presentation & Wrap-up
	Activities & Deliverables	Final Project Presentation & Wrap-up









6. GRAPHIC DESIGNING AND UI/UX DESIGN







Week	Day	Topic
	Day 1	Introduction to Graphic & UI/UX Design
	Day 2	Overview of Design Disciplines: Print, Digital, UI/UX
	Day 3	Principles of Design: Balance, Contrast, Alignment, Hierarchy
Week 1	Day 4	Introduction to Industry Tools: Photoshop, Illustrator, Figma
VVCCK 1	Day 5	File Types, Resolution, Design Thinking & Creative Process
	Tasks &	Students discuss the role of designers in groups and share examples of
	Activities	good/bad designs, Collect 3 examples of each design discipline, analyze
	Activities	posters/flyers for design principles.
	Day 1	Photoshop Interface & Workspace Customization
	Day 2	Working with Layers
	Day 3	Masks & Blending Modes
Week 2	Day 4	Photo Editing & Retouching
	Day 5	Color Correction & Adjustment Layers
	Tasks &	Submit edited photo with retouching, Create a poster using at least 3 layers
	Activities	and blending modes, Share before/after image color correction.
	Day 1	Background Removal Techniques
	Day 2	Creating Banners
	Day 3	Poster Design
Week 3	Day 4	Mockup Creation
	Day 5	Exporting for Web, Print, Social Media
	Tasks &	Submit banner design for a product/brand, Submit event poster design,
	Activities	Export mockup files for review.
	Day 1	Vector vs Raster Graphics
	Day 2	Working with Shapes & Paths
_	Day 3	Using Pen Tool & Anchor Points
Week 4	Day 4	Designing Icons & Infographics, Artboards, Symbols, Exporting
	Day 5	Mid Term Examination
	Tasks &	Submit icon set (3–5 icons), Complete pen tool tracing exercise, Create a
	Activities	simple infographic with vector graphics.
	Day 1	Importance of Typography, Font Families
	Day 2	Font Pairing, Spacing, Readability
	Day 3	Introduction to Color Theory
Week 5	Day 4	Color Schemes & Psychology
	Day 5	Brand Identity: Logos, Business Cards, Letterheads
	Tasks &	Submit typography poster, Complete color wheel & schemes exercise,
	Activities	Begin <b>branding kit</b> with logo + letterhead, Create a sample text poster with
	D: 4	paired fonts, Start mini-branding project: logo + stationery.
	Day 1	Logo Design Process (sketching to execution)
	Day 2	Brand Guidelines & Usage Rules
West C	Day 3	Social Media Graphics: Facebook & Instagram
Week 6	Day 4	YouTube & LinkedIn Graphics
	Day 5	Canva for Quick Design Projects
	Tasks &	Submit <b>logo design,</b> Submit <b>social media kit</b> (post, story, banner,
\A/! =	Activities	thumbnail), Submit brand guideline sheet.
Week 7	Day 1	Flyers & Posters + Brochures & Packaging



	Day 2	Print Considerations: Bleed, CMYK, DPI + Exporting Print Files
	Day 3	Basics of UI Design (Layout, Grids)
	Day 4	UX Fundamentals: User Flow & Wireframing + Prototyping in Figma/Adobe XD
	Day 5	UI Components: Buttons, Menus, Forms + Mini App/Web Layout + Portfolio Development & Final Presentation
	Tasks & Activities	Submit flyer + brochure in print-ready format, Create a wireframe for a mobile app, Compile full design portfolio
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
	Day 2	Effective principles of oral and written communication, Listening skills, ethics
	Day 3	Resume Writing- theory and practice, LinkedIn profile- importance, and account creation
Week 8	Day 4	Employment interviews- theory, discussion, pair interview simulation, group simulation,
	Day 5	Final Examination
	Tasks & Activities	Submit <b>UI project</b> . Final <b>presentation</b> of project and Final Examination











7. MOBILE APP DEVELOPMENT







Week	Day	Торіс
	Day 1	Understanding Mobile Application Development and Its Significance
	Day 2	History of Mobile Application development and its evolution
	Day 3	Applications of Mobile Applications in various fields & Ites Job Market
Week 01	Day 4	Introduction to Mobile Application Development, Overview of Mobile Application, Why Choose Mobile Application Development
	Day 5	Definitions and Key Concepts
	Activities & Deliverables	Prepare a timeline highlighting the key milestones in the evolution of mobile application development.
	Day 1	Native vs Hybrid vs Cross-Platform Apps
	Day 2	Understanding Mobile App Architecture
	Day 3	Tools and IDEs: Android Studio, Xcode, VS Code
Week 02	Day 4	iOS vs. Android
	Day 5	Basics of User Interface (UI) and User Experience (UX)
	Activities & Deliverables	Install any one IDE (Android Studio, Xcode, or VS Code) and create a basic "Hello World" mobile app.
	Day 1	Mobile Design Guidelines for Android & iOS
	Day 2	Designing Wireframes and Prototypes (Figma/Adobe XD)
	Day 3	Responsive Layouts and Device Compatibility
Week 03	Day 4	Accessibility and Usability Standards + Design-to-Code Workflow
	Day 5	Setting Up Android Studio and Emulator
	Activities & Deliverables	Design a simple app layout that automatically adjusts to multiple screen sizes and test it on at least two different emulators.
	Day 1	Activity Lifecycle and Intents
	Day 2	Layouts, Views, and UI Components
	Day 3	Event Handling and User Input
Week 04	Day 4	Navigation and Fragment Management
	Day 5	Data Storage: Shared Preferences
	Activities & Deliverables	Develop a simple Android app that takes user input from a text field and displays it on the screen when a button is clicked.
	Day 1	SQLite Database Integration
	Day 2	Simple Project 1 – Calculator App & Simple Project 2 – To-Do List App
	Day 3	Introduction to Xcode and Swift Language
Week 05	Day 4	Creating Simple iOS Interfaces
	Day 5	Views, Controllers, and Storyboards
	Activities & Deliverables	Develop a basic calculator app for performing arithmetic operations and a to-do list app to add, edit, and delete tasks.
	Day 1	Sample iOS App Development
	Day 2	Introduction to Cross-Platform Frameworks
Week 06	Day 3	Setting Up Flutter with Dart / React Native with JS
	Day 4	Creating UI Components and Layouts
	Day 5	State Management and Navigation





	Activities & Deliverables	Develop a basic iOS app using Swift in Xcode that displays a welcome message on the home screen.
	Day 1	Platform Integration (Camera, Location, etc.)
	Day 2	REST APIs and JSON – Understanding & Fetching Data
	Day 3	Displaying Dynamic Data in Apps
Week 07	Day 4	Firebase Integration (Realtime DB / Firestore)
	Day 5	Authentication and Session Handling (Firebase Auth)
	Activities & Deliverables	Develop an app that fetches live weather data from a public API in JSON format and displays it on the screen.
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
Week 08	Day 2	Effective principles of oral and written communication, Listening skills – listening to the employer and clients, Feedback to the clients, and ethics
	Day 3	Resume Writing- theory and practice, LinkedIn profile- importance and account creation
	Day 4	Employment interviews- theory, discussion, pair interview simulation & group simulation
	Day 5	Final Project Presentation & Wrap-up
	Activities & Deliverables	Final Project Presentation & Wrap-up







# 8. DATABASE MANAGEMENT







Week	Day	Topic
	Day 1	Database Concepts & Models
	Day 2	Introduction to Databases and Their Importance
	Day 3	Types of Databases: Relational vs Non-Relational
Week 01	Day 4	Overview of DBMS vs RDBMS
	Day 5	Data Models: Hierarchical, Network, Relational, Object-Oriented
	Activities &	Lab: Create a report on databases' importance, classify databases, Draw an
	Deliverables	ER diagram
	Day 1	SQL Fundamentals (CRUD Operations)
	Day 2	Introduction to SQL and Database Tools (MySQL, SQL Server)
	Day 3	Creating Databases and Tables
Week 02	Day 4	Inserting, Updating, and Deleting Records (CRUD)
	Day 5	Retrieving Data using SELECT Statements
	Activities &	Lab: Install a database tool, Create database and tables, Perform CRUD
	Deliverables	operations
	Day 1	Relational Database Design & Normalization
	Day 2	Primary Keys, Foreign Keys, and Indexes
	Day 3	Relationships: One-to-One, One-to-Many, Many-to-Many
Week 03	Day 4	Designing Efficient Database Schemas
	Day 5	Functional Dependencies and Data Anomalies
	Activities & Deliverables	Lab: Normalize dataset up to 3NF, Create ER diagram, Explain relationships
	Day 1	Advanced SQL Queries & Joins
	Day 2	Aggregate Functions (SUM, AVG, COUNT, MAX, MIN)
Week 04	Day 3	Grouping and Filtering with GROUP BY and HAVING, Subqueries: Correlated and Non-Correlated
week 04	Day 4	Inner Joins, Left/Right Joins, Full Joins, Self Joins
	Day 5	MID TERM
	Activities & Deliverables	Lab: Write queries using aggregate functions, JOINs, and subqueries
	Day 1	Stored Procedures & Triggers
	Day 2	Introduction to Stored Procedures and Functions
	Day 3	Writing and Executing Stored Procedures with Parameters
Week 05	Day 4	Creating and Using Triggers: BEFORE, AFTER Events
	Day 5	Implementing Business Logic at Database Level
	Activities & Deliverables	Lab: Create a stored procedure, Implement a trigger, Submit SQL scripts
	Day 1	Database Security & Performance Optimization
	Day 2	User Roles, Privileges, and Access Controls
	Day 3	Data Backup and Recovery Strategies
Week 06	Day 4	Protecting Against SQL Injection and Other Threats
	Day 5	Query Optimization Techniques
	Activities & Deliverables	Lab: Set user roles, Perform backup/restore, Demonstrate SQL injection prevention
Week 07	Day 1	Data Warehousing & BI Tools, Distributed Data Stores
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	Day 3	Schemas (Star, Snowflake), Fact & Dimension Tables
	Day 4	OLAP & Data Cube, SQL Server Integration Services (SSIS)
	Day 5	SQL Server Analysis Services (SSAS), SQL Server Reporting Services (SSRS)
	Activities & Deliverables	Lab: Design star schema, Create ETL pipeline, Build SSRS report
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
Week 08	Day 2	Effective principles of oral and written communication, Listening skills – listening to the employer and clients, Feedback to the clients, and ethics
	Day 3	Resume Writing- theory and practice, LinkedIn profile- importance, and account creation
	Day 4	Employment interviews- theory, discussion, pair interview simulation, group simulation
	Day 5	Final Project Presentation & Wrap-up
	Activities & Deliverables	Final Project Presentation & Wrap-up









9. JAVA DEVELOPMENT







Week	Day	Topic
	Day 1	What is Java? A deep dive into the core components: the JVM (Java Virtual Machine), JRE (Java Runtime Environment), and JDK (Java Development Kit).
	Day 2	Setting Up Your Environment: A practical guide to installing the JDK and configuring a popular IDE like IntelliJ IDEA or Eclipse.
Week 01	Day 3	Basic Syntax, Data Types, and Variables: Understanding the fundamental building blocks of a Java program, including primitive data types and variable declaration.
	Day 4	Operators and Expressions: Learning to use arithmetic, relational, logical, and bitwise operators to perform operations.
	Day 5	Control Flow Statements: Mastering if-else, switch, and ternary operators to control the flow of execution in your code.
	Activities & Deliverables	Write and compile a "Hello, World!" program. Deliverable: A working .java file that prints a simple message to the console.
	Day 1	Classes and Objects: The core of Java's OOP paradigm. Understanding how to define a class and instantiate objects from it.
	Day 2	Constructors and Methods: Exploring how constructors initialize objects and how methods define object behavior.
	Day 3	Encapsulation: Learning about access modifiers (public, private, protected) to hide data and protect your objects.
Week 02	Day 4	Inheritance and Polymorphism: Understanding how to create a hierarchy of classes and how objects can take on many forms.
	Day 5	super and this Keywords: A closer look at these essential keywords for referring to a parent class and the current object.
	Activities & Deliverables	Create a simple Car class with properties (e.g., color, make) and methods (e.g., startEngine(), accelerate()).  Deliverable: A .java file with the Car class and a main method that creates and uses two Car objects.
	Day 1	Abstract Classes and Interfaces: Differentiating between abstract classes and interfaces and learning when to use each for more flexible and maintainable code.
	Day 2	The final Keyword: Understanding the various uses of final with variables, methods, and classes.
	Day 3	Introduction to Java Collections Framework: An overview of the standardized data structures for storing and manipulating groups of objects.
Week 03	Day 4	ArrayList and LinkedList: A detailed look at these two list implementations, their differences, and use cases.
	Day 5	HashSet and HashMap: Exploring the Set and Map interfaces and how to use hash-based implementations for efficient data storage.
	Activities & Deliverables	Build a simple program that manages a to-do list using an ArrayList and a contact list using a HashMap.  Deliverable: A .java file that demonstrates adding, removing, and retrieving data from both an ArrayList and a HashMap.
Week 04	Day 1	Understanding Exceptions: What are exceptions and why is it important to handle them? Learning the try-catch-finally block.
Week 04	Day 2	Checked vs. Unchecked Exceptions: Differentiating between the two types of exceptions and how they are handled by the compiler.







	Day 3	File I/O Basics: Introduction to reading from and writing to files using Java's I/O streams.
	Day 4	Reading and Writing Files: Practical examples of using FileInputStream, FileOutputStream, BufferedReader, and BufferedWriter.
	Day 5	Midterm Examination
	Activities & Deliverables	Write a program that reads a list of names from a text file, sorts them alphabetically, and writes the sorted list to a new file.  Deliverable: Two .txt files (one for input, one for output) and a .java file that successfully performs the read/sort/write operation.
	Day 1	What is a Thread? Understanding the concept of a thread and how to create one using the Thread class or Runnable interface.
	Day 2	Creating and Managing Threads: Learning how to start, stop, and manage the lifecycle of threads.
	Day 3	Thread Synchronization: Addressing the challenge of multiple threads accessing shared resources simultaneously using synchronized methods and blocks.
Week 05	Day 4	volatile and synchronized Keywords: A deeper dive into these keywords for managing visibility and mutual exclusion in concurrent applications.
	Day 5	ExecutorService and Callable: Exploring more advanced concurrency tools for managing thread pools and returning values from a thread's execution.
	Activities & Deliverables	Create a multithreaded application where two threads increment a shared counter, demonstrating the need for synchronization.  Deliverable: A .java file that shows a race condition without synchronization and then a corrected version with proper locking.
	Day 1	Introduction to Databases and SQL: A primer on relational databases and the basics of Structured Query Language (SQL).
	Day 2	JDBC (Java Database Connectivity) Architecture: Understanding the architecture and drivers that allow Java applications to connect to databases.
	Day 3	Connecting to a Database: A step-by-step guide to establishing a connection to a MySQL or PostgreSQL database.
Week 06	Day 4	Executing SQL Queries: Learning to use JDBC to perform CRUD (Create, Read, Update, Delete) operations.
	Day 5	PreparedStatement and ResultSet: Using PreparedStatement to prevent SQL injection and processing query results with ResultSet.
	Activities & Deliverables	Develop a simple console application that connects to a database, inserts a new user record, and then retrieves and prints all user records.  Deliverable: A .java file that demonstrates successful database connectivity and CRUD operations.
	Day 1	Introduction to Unit Testing with JUnit: Learning the importance of unit testing and writing your first test cases with JUnit.
	Day 2	Test Setup and Assertions: Using @Before, @After, and assertion methods to create robust and reliable tests.
Week 07	Day 3	Software Design Patterns: An introduction to common design patterns like Singleton, Factory, and Observer, and how to apply them to create more robust and scalable applications.
	Day 4	Introduction to Dependency Management: Understanding the concept of external libraries and how to manage them manually or with a simple tool.





	Day 5	Introduction to Git and Version Control: Learning the fundamentals of Git for collaborative development and version management.
	Activities & Deliverables	Write JUnit tests for the Car class created in Week 2, covering methods like startEngine() and accelerate().  Deliverable: A project that includes the Car class code and a test class with at least three passing unit tests, demonstrating proper project structure.
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
Week 08	Day 2	Effective principles of oral and written communication, Listening skills – listening to the employer and clients, Feedback to the clients, and ethics
	Day 3	Resume Writing- theory and practice, LinkedIn profile- importance, and account creation
	Day 4	Employment interviews- theory, discussion, pair interview simulation, group simulation
	Day 5	Final Project Presentation & Wrap-up
	Activities & Deliverables	Final Project Presentation & Wrap-up











**10. DATA SCIENCE** 





Week	Days	Topics
	Day 1	Introduction to Data Science: Scope, Applications, and Trends
	Day 2	AI & ML Basics, Roles & Responsibilities of a Data Scientist
	Day 3	Data Science Workflow & Project Lifecycle
	Day 4	Tools & Technologies: Jupyter, Python
Week 01	Day 5	Pandas, Scikit-Learn
	•	Hands-on: Explore datasets using Python
	Activities &	Assignment 1: Report on 3 real-world applications of Data Science
	Deliverables	Quiz 1: Core concepts of data science
	Day 1	Setting up Python Environment (Anaconda, Jupyter)
	Day 2	Python Basics: Variables, Data Types, Operators
	Day 3	Control Structures: if-else, loops, and functions
W 1- 02	Day 4	Data Structures: Lists, Tuples, Dictionaries, Sets
Week 02	Day 5	NumPy for numerical operations & Pandas basics
	-	Lab: Manipulate datasets using Pandas & NumPy
	Activities &	Assignment 2: Analyze a CSV dataset
	Deliverables	Quiz 2: Python syntax & Pandas operations
	Day 1	Sources of Data: APIs, Web Scraping, Databases, CSV/Excel
	Day 2	Handling Missing Data & Duplicates
	Day 3	Data Cleaning: Outliers, Normalization, Encoding
Week 03	Day 4	Feature Engineering & Selection
week 03	Day 5	Scaling & Transformation of Data
	Activities &	Lab: Clean and preprocess a dataset
	Deliverables	Assignment 3: Feature engineering on given data
	Deliverables	Quiz 3: Data collection & preprocessing concepts
	Day 1	Understanding Data Types & Distributions
	Day 2	Descriptive Statistics and Summary Functions
	Day 3	Identifying Trends, Patterns & Correlations
Week 04	Day 4	Pandas Profiling and Seaborn for Insights
Week 04	Day 5	Mid Term Exam
	Activities &	Lab: Perform EDA on a dataset
	Deliverables	Assignment 4: Create an EDA report with charts
	Deliverables	Quiz 4: EDA techniques & visualization
	Day 1	Introduction to Machine Learning Concepts
	Day 2	Types of ML: Supervised vs Unsupervised
	Day 3	Building Regression & Classification Models
Week 05	Day 4	Model Training, Testing & Validation
I TOOK OF	Day 5	Overfitting, Underfitting & Cross-Validation
	Activities &	Lab: Train simple regression & classification models
	Deliverables	Assignment 5: Evaluate model performance
	Deliverables	Quiz 5: ML basics & model validation
	Day 1	Importance of Data Visualization in Storytelling
	Day 2	Charts & Graphs with Matplotlib
	Day 3	Visualizations with Seaborn
Week 06	Day 4	Interactive Dashboards: Intro to Plotly/Power BI
110000	Day 5	Visualization Best Practices & Presenting Insights
	Activities &	Lab: Build visualizations & dashboards
	Deliverables	Assignment 6: Create a project insights report
	Deliver ables	Quiz 6: Visualization techniques & dashboarding





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	Day 1	Big Data Concepts
	Day 2	Structured vs Unstructured Data
	Day 3	Intro to Cloud Platforms: AWS, GCP, Azure
Week 07	Day 4	Google Colab & Kaggle for Cloud Analysis
WEER 07	Day 5	Cloud-Based Tools & Real-World Case Studies
	Activities &	Lab: Cloud-based analysis using Colab
		Assignment 7: Compare cloud platforms & big data tools
	Deliverables	Quiz 7: Big data & cloud integration concepts
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
	Day 2	Effective principles of oral and written communication,
		Listening skills – listening to the employer and clients,
		Feedback to the clients, and ethics
	Day 3	Resume Writing- theory and practice,
Week 08		LinkedIn profile- importance,
week oo		and account creation
	Day 4	Employment interviews- theory, discussion,
		pair interview simulation, group simulation
	Day 5	Final Exam
	Activities &	Final Project: Implement MNIST Classification
	Deliverables	Model using Kaggle Dataset









### 11. CYBER SECURITY AND ETHICAL HACKING







Week	Days	Topics
	Day 1	Cyber Security Landscape & Threat Types
	Day 2	Principles of Ethical Hacking & Legal Frameworks
	Day 3	Types of Hackers: White Hat, Black Hat, Grey Hat
Week 01	Day 4	Cyber Attack Vectors & Real-World Case Studies
Week 01	Day 5	Phases of Ethical Hacking & Intro to Security Tools
	Activities &	Lab: Explore attack vectors using Kali Linux
	Deliverables	Assignment 1: Analyze a real-world cyberattack
	Deliverables	Quiz 1: Cyber threats & hacker types
	Day 1	Basics of Computer Networks & OSI Model
	Day 2	IP Addressing, Subnetting & Protocols (TCP/IP, UDP)
	Day 3	DNS, DHCP, and Common Network Services
Week 02	Day 4	Network Security Concepts: Firewalls, IDS/IPS, VPNs
WEER UZ	Day 5	Wi-Fi Security & Secure Protocols (HTTPS, SSL/TLS, SSH)
	Activities &	Lab: Configure firewall & secure Wi-Fi
	Deliverables	Assignment 2: Document secure network configurations
	Deliverables	Quiz 2: Networking fundamentals & security protocols
	Day 1	Web Application Architecture & Security Principles
	Day 2	OWASP Top 10 Security Vulnerabilities
	Day 3	Cross-Site Scripting (XSS) & CSRF
Week 03	Day 4	SQL Injection Variants & Session Hijacking
Week 00	Day 5	Hands-on with DVWA / bWAPP
	Activities &	Lab: Exploit DVWA for XSS & SQLi
	Deliverables	Assignment 3: Document OWASP Top 10 mitigations
		Quiz 3: OWASP vulnerabilities & SQLi concepts
	Day 1	Types of Malware: Virus, Worms, Trojans, Ransomware
	Day 2	Malware Behavior Analysis Techniques
	Day 3	Static vs Dynamic Malware Analysis Tools
Week 04	Day 4	Reverse Engineering Basics (Ghidra, OllyDbg)
	Day 5	Mid Term Exam
	Activities &	Lab: Analyze malware in a sandbox
	Deliverables	Assignment 4: Reverse-engineer a binary
		Quiz 4: Malware types & analysis techniques
	Day 1	Basics of Cryptography: Symmetric vs Asymmetric
	Day 2	Encryption Algorithms: AES, RSA, DES
	Day 3	Hashing Functions: MD5, SHA1, SHA256
Week 05	Day 4	Digital Signatures, Certificates & Key Exchange
	Day 5	Best Practices for Data Protection (Transit & Rest)
	Activities &	Lab: Implement AES & RSA in Python
	Deliverables	Assignment 5: Compare symmetric & asymmetric encryption
	David.	Quiz 5: Cryptography & data security concepts
	Day 1	Penetration Testing Methodologies & Phases
	Day 2	Footprinting, Scanning & Enumeration Techniques
	Day 3	Exploitation & Post-Exploitation Strategies
Week 06	Day 4	Social Engineering Attacks & Countermeasures
	Day 5	Tools Overview: Metasploit, Nmap, Nessus, Nikto, OpenVAS
	Activities &	Lab: Perform a simulated penetration test
	Deliverables	Assignment 6: Document pen-test phases
		Quiz 6: Pen-testing methodologies & tools





Week 07	Day 1	IT Security Policies & Procedures
	Day 2	Conducting Security Audits & Risk Assessments
	Day 3	Compliance Standards: ISO 27001, GDPR, PCI-DSS
	Day 4	Logging, Monitoring & Incident Response Planning
	Day 5	Cybersecurity Career Roadmap & Certifications
	Activities & Deliverables	Lab: Simulate a risk assessment
		Assignment 7: Prepare a compliance audit report
		Quiz 7: Security auditing & compliance standards
Week 08	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
	Day 2	Effective principles of oral and written communication, Listening skills –
		listening to the employer and clients, Feedback to the clients, and ethics
	Day 3	Resume Writing- theory and practice, LinkedIn profile- importance, and account
		creation
	Day 4	Employment interviews- theory, discussion, pair interview simulation, group
		simulation
	Day 5	Final Exam
	Activities & Deliverables	Final Project: End-to-end penetration testing simulation









12. CLOUD COMPUTING







Week	Days	Topics
Week 01	Day 1	Overview of Cloud Computing and Its Evolution
	Day 2	Benefits and Challenges of Cloud Adoption
	Day 3	Virtual Machines vs Containers
	Day 4	Introduction to Hypervisors and Virtualization Technologies
	Day 5	Cloud Deployment Models: Public, Private, Hybrid, Community
	Activities &	Report: Explore Real-World Use Cases of Cloud Solutions, Public and Private
	Deliverables	Cloud Solutions
	Day 1	Understanding IaaS, PaaS, SaaS with Examples
	Day 2	Comparing Traditional IT vs Cloud Models
	Day 3	Use Cases and Selection Criteria for Service Models
Week 02	Day 4	Key Vendors and Offerings in Each Model
	Day 5	Service-Level Agreements (SLAs) and Pricing Models
	Activities &	Lab: Explore the Service-Level Agreements (SLAs) of AWS and Perform
	Deliverables	Estimation using AWS Pricing Models
	Day 1	Introduction to Amazon Web Services (AWS)
	Day 2	Creating and Managing Accounts and Resources
	Day 3	AWS Global Infrastructure, Zone, Region, POP
Week 03	Day 4	Common Services: Compute (EC2, VM), Storage (S3, Blob), Networking
	Day 5	Cloud Console Navigation and CLI Basics
	Activities & Deliverables	Lab: AWS Cloud Console Navigation and CLI Basics
	Day 1	OpenStack Introduction, OpenStack landscape
	Day 2	OpenStack Conceptual Architecture
	Day 3	3-node vs 2-node Architecture of OpenStack
Week 04	Day 4	OpenStack case studies
	Day 5	Mid Term Exam
	Activities &	Lab: Signup on OpenStack Public Cloud Trial and perform basic Cloud Console
	Deliverables	Navigation
	Day 1	Local Dev Environment: Devstack
	Day 2	Devstack installation
	Day 3	OpenStack services, Compute, Storage, Networking
Week 05	Day 4	OpenStack Client tools
	Day 5	OpenStack services Identity, Image services
	Activities & Deliverables	Lab: Deployment of Devstack and access its console for different basic operations.
	Day 1	Types of Cloud Storage: Object, Block
	Day 2	Data Backup, Archiving, and Lifecycle Management
	Day 3	Introduction to Cloud Databases: Trove, RDS
Week 06	Day 4	Configuring and Managing Databases in Cloud Platforms
	Day 5	High Availability and Scalability Considerations
	Activities & Deliverables	Lab: Build simple Cloud Storage on OpenStack/AWS
Week 07	Day 1	Understanding Cloud Security Shared Responsibility Model



	Day 2	Identity & Access Management (IAM) Basics, Managing Permissions and Security Groups
	Day 3	Data Encryption at Rest and in Transit
	Day 4	Introduction to Compliance Frameworks: GDPR
	Day 5	Tools for Monitoring and Threat Detection
	Activities & Deliverables	Lab: OpenStack Cloud Monitoring using Telemetry (Ceilometer ), Alram Services.
	Day 1	Explore freelancing basics, top marketplaces like Upwork & Fiver
	Day 2	Effective principles of oral and written communication, Listening skills – listening to the employer and clients, Feedback to the clients, and ethics
Week 08	Day 3	Resume Writing- theory and practice, LinkedIn profile- importance, and account creation
week US	Day 4	Employment interviews- theory, discussion, pair interview simulation, group simulation
	Day 5	Final Exam
	Activities & Deliverables	Final Project: Simple Web Application Deployment on Cloud Platform