

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

NEP Vocational Class 11



LAPT — London Academy of Professional Training

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AT A GLANCE

AWARD	Certificate
ASSESSMENT	3800 marks — 2280 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Accounting & Taxation

5 chapters · 30 classes 100 marks

• 1 Unit 1 — GST Registration, Returns and Compliance — 6 classes

› 1.1 Understand GST Registration Process

› 1.2 Identify GST Registration Requirements

› 1.3 Explain Types of GST Returns

› 1.4 Demonstrate How to File GST Returns

› 1.5 Analyze Common Compliance Issues in GST

› 1.6 Apply GST Compliance Best Practices

• 2 Unit 2 — Income Tax — Heads of Income and Computation — 6 classes

› 2.1 Identify the Different Heads of Income in Income Tax

› 2.2 Analyze the Components of Salary Income

› 2.3 Explore Income from House Property and Its Computation

› 2.4 Understand Profits and Gains from Business or Profession

› 2.5 Examine Capital Gains and Their Tax Implications

› 2.6 Compute Total Income and Calculate Income Tax Liability

• 3 Unit 3 — Tally ERP and Accounting Software Mastery — 6 classes

› 3.1 Explore the Tally ERP Interface and Navigation Tools

› 3.2 Configure Company Settings in Tally ERP

› 3.3 Create and Manage Ledgers in Tally ERP

› 3.4 Record Financial Transactions Using Daybook in Tally ERP

› 3.5 Generate Financial Statements and Reports in Tally ERP

› 3.6 Implement GST and Tax Compliance in Tally ERP

• 4 Unit 4 — Business Accounting — Final Accounts and Ledgers — 6 classes

› 4.1 Understand the Purpose of Final Accounts

› 4.2 Identify Components of Final Accounts

› 4.3 Analyze the Structure of a Profit and Loss Account

› 4.4 Construct a Simple Balance Sheet

› 4.5 Understand Ledger Accounts and Their Functions

› 4.6 Apply Closing Entries to Prepare Final Accounts

• 5 Unit 5 — Taxation Compliance Project and Case Studies — 6 classes

› 5.1 Understand the Basics of Taxation Compliance

› 5.2 Identify Key Tax Regulations and Their Impact

› 5.3 Analyze Case Studies in Tax Compliance Scenarios

› 5.4 Apply Tax Compliance Principles to Real-World Situations

› 5.5 Develop a Tax Compliance Project Plan

› 5.6 Evaluate the Effectiveness of Tax Compliance Strategies

• 1 Unit 1 — Machine Learning Concepts and Algorithms — 6 classes

- › 1.1 Define Key Machine Learning Concepts
- › 1.2 Explore Types of Machine Learning: Supervised vs. Unsupervised
- › 1.3 Understand the Role of Data in Machine Learning
- › 1.4 Examine Common Machine Learning Algorithms
- › 1.5 Analyze Performance Metrics for Machine Learning Models
- › 1.6 Apply Machine Learning Algorithms to Real-World Problems

• 2 Unit 2 — Neural Networks and Deep Learning Fundamentals — 6 classes

- › 2.1 Define Neural Networks and Their Components
- › 2.2 Explain the Role of Activation Functions in Neural Networks
- › 2.3 Describe the Architecture of a Simple Neural Network
- › 2.4 Analyze the Function of Backpropagation in Learning
- › 2.5 Implement a Basic Neural Network Using Python
- › 2.6 Evaluate the Performance of Neural Networks with Real-World Data

• 3 Unit 3 — AI Tools — TensorFlow Lite, Teachable Machine — 6 classes

- › 3.1 Introduction to TensorFlow Lite: Understanding Its Core Features
- › 3.2 Setting Up Your Environment for TensorFlow Lite Development
- › 3.3 Creating a Basic Model Using Teachable Machine
- › 3.4 Exporting and Importing Models Between Teachable Machine and TensorFlow Lite
- › 3.5 Implementing a Simple Application with TensorFlow Lite Models
- › 3.6 Evaluating Model Performance and Making Improvements

• 4 Unit 4 — Natural Language Processing Introduction — 6 classes

- › 4.1 Define Natural Language Processing and Its Importance
- › 4.2 Identify Key Components of Natural Language Processing Systems
- › 4.3 Explore Common NLP Applications in Everyday Life
- › 4.4 Analyze Different Techniques Used in Natural Language Processing
- › 4.5 Implement a Basic Text Analysis Project with NLP Tools
- › 4.6 Evaluate the Impact of NLP on Communication and Industry

• 5 Unit 5 — AI Real-World Project — Data to Deployment — 6 classes

- › 5.1 Identifying Project Goals and Objectives in AI
- › 5.2 Collecting and Preparing Data for AI Models
- › 5.3 Exploring AI Algorithms for Data Analysis
- › 5.4 Training Your AI Model: Best Practices and Techniques
- › 5.5 Evaluating Model Performance: Metrics and Analysis
- › 5.6 Deploying Your AI Project: Steps and Considerations

• 1 Unit 1 — Advanced Vehicle Systems — EFI, ABS, Airbags — 6 classes

- › 1.1 Understand the Principles of Electronic Fuel Injection (EFI)
- › 1.2 Explore the Components of an EFI System
- › 1.3 Examine the Functionality of Anti-lock Braking Systems (ABS)
- › 1.4 Identify the Key Components of ABS and Their Roles
- › 1.5 Analyze the Safety Features of Airbag Systems
- › 1.6 Apply Knowledge by Diagnosing Common Issues in EFI, ABS, and Airbags

• 2 Unit 2 — Vehicle Electrical and Electronic Diagnostics — 6 classes

- › 2.1 Understand Basic Electrical Concepts in Vehicles
- › 2.2 Identify Key Electrical Components and Their Functions
- › 2.3 Learn the Basics of Automotive Wiring Systems
- › 2.4 Apply Diagnostic Tools for Electrical Faults
- › 2.5 Interpret Diagnostic Trouble Codes (DTCs)
- › 2.6 Develop Troubleshooting Strategies for Electrical Issues

• 3 Unit 3 — Transmission, Suspension and Steering Systems — 6 classes

- › 3.1 Understand the Basics of Transmission Systems
- › 3.2 Explore the Types of Gearboxes and Their Functions
- › 3.3 Analyze Suspension System Components and Their Roles
- › 3.4 Investigate Steering System Mechanisms and Their Importance
- › 3.5 Compare and Contrast Different Types of Suspension Systems
- › 3.6 Apply Knowledge to Diagnose Common Issues in Transmission and Steering Systems

• 4 Unit 4 — Workshop Management and Service Protocols — 6 classes

- › 4.1 Understand Workshop Layout and Design
- › 4.2 Identify Key Workshop Equipment and Tools
- › 4.3 Develop Standard Operating Procedures for Services
- › 4.4 Implement Health and Safety Protocols in the Workshop
- › 4.5 Manage Customer Service and Communication Skills
- › 4.6 Evaluate Workshop Performance and Improvement Strategies

• 5 Unit 5 — Automotive Project — Inspect, Service and Report — 6 classes

- › 5.1 Identify Key Components of Automotive Systems
- › 5.2 Conduct a Pre-Inspection Check on Vehicles
- › 5.3 Perform Routine Maintenance Tasks Safely
- › 5.4 Analyze Common Automotive Issues and Symptoms
- › 5.5 Document Findings and Create Service Reports
- › 5.6 Present Inspection Results to Stakeholders

• 1 Unit 1 — Advanced Banking Operations and Treasury — 6 classes

- › 1.1 Explore Advanced Banking Operations and Their Importance
- › 1.2 Analyze Key Components of Treasury Management
- › 1.3 Examine Risk Management Strategies in Banking
- › 1.4 Apply Financial Instruments for Treasury Operations
- › 1.5 Implement Effective Liquidity Management Techniques
- › 1.6 Evaluate the Impact of Regulatory Frameworks on Banking Operations

• 2 Unit 2 — Financial Instruments — Bonds, Equity, Derivatives — 6 classes

- › 2.1 Define and Differentiate Between Bonds, Equity, and Derivatives
- › 2.2 Explore Types of Bonds and Their Characteristics
- › 2.3 Analyze Different Equity Instruments and Their Market Roles
- › 2.4 Investigate Derivatives: Purpose and Types
- › 2.5 Assess the Risks and Returns Associated with Financial Instruments
- › 2.6 Apply Financial Instruments to Real-world Investment Scenarios

• 3 Unit 3 — Credit Analysis and Lending Decisions — 6 classes

- › 3.1 Understanding Credit: Define and Differentiate Types of Credit
- › 3.2 Analyzing Borrower Profiles: Assessing Creditworthiness Criteria
- › 3.3 Financial Ratios: Calculating and Interpreting Key Indicators
- › 3.4 The Role of Credit Reports: Tools for Informed Lending Decisions
- › 3.5 Risk Assessment: Identifying and Mitigating Lending Risks
- › 3.6 Practical Application: Simulating a Lending Decision Case Study

• 4 Unit 4 — Risk Management and Regulatory Compliance (RBI) — 6 classes

- › 4.1 Identify Key Types of Risks in Banking
- › 4.2 Analyze the Importance of Risk Management
- › 4.3 Explore Regulatory Frameworks in Financial Services
- › 4.4 Evaluate Risk Assessment Tools and Techniques
- › 4.5 Implement Risk Mitigation Strategies in Banking
- › 4.6 Review Compliance Requirements and Best Practices

• 5 Unit 5 — Banking and Financial Services Project — 6 classes

- › 5.1 Identify Key Banking Concepts and Terminology
- › 5.2 Explore Different Types of Financial Institutions
- › 5.3 Understanding the Role of Banking in the Economy
- › 5.4 Analyze Financial Products and Services Offered by Banks
- › 5.5 Evaluate Case Studies of Banking Practices and Their Impacts
- › 5.6 Design a Simple Banking Services Project Proposal

• 1 Unit 1 — Advanced Cosmetology — Skin and Hair Science — 6 classes

- › 1.1 Understand Skin Anatomy and Physiology
- › 1.2 Identify Common Skin Types and Conditions
- › 1.3 Explore Advanced Hair Structure and Growth
- › 1.4 Analyze the Effects of Nutrition on Skin and Hair Health
- › 1.5 Demonstrate Skincare Product Selection for Different Needs
- › 1.6 Apply Hair Care Techniques for Diverse Hair Types

• 2 Unit 2 — Spa Treatments — Body Wraps, Massages and Therapies — 6 classes

- › 2.1 Explore the Benefits of Body Wraps in Spa Treatments
- › 2.2 Identify Different Types of Body Wraps and Their Ingredients
- › 2.3 Demonstrate the Steps to Prepare and Apply a Body Wrap
- › 2.4 Understand the Principles of Massage Therapies for Wellness
- › 2.5 Practice Basic Massage Techniques for Relaxation
- › 2.6 Evaluate the Effectiveness of Various Spa Therapies on Clients

• 3 Unit 3 — Make-up Artistry — Day, Evening and Bridal — 6 classes

- › 3.1 Analyze Day Make-up Techniques for Natural Looks
- › 3.2 Explore Evening Make-up Styles for Glamorous Effects
- › 3.3 Identify Key Elements of Bridal Make-up Application
- › 3.4 Demonstrate Day Make-up Application on a Model
- › 3.5 Create a Complete Evening Look: Step-by-Step Guide
- › 3.6 Assess and Perfect Bridal Make-up for Varying Skin Types

• 4 Unit 4 — Salon Business Management and Pricing — 6 classes

- › 4.1 Understand Key Concepts of Salon Business Management
- › 4.2 Identify Essential Components of a Salon Pricing Strategy
- › 4.3 Analyze Competitive Pricing Models in the Beauty Industry
- › 4.4 Develop a Pricing Structure for Salon Services
- › 4.5 Create an Effective Promotion Plan to Enhance Profitability
- › 4.6 Evaluate Customer Feedback to Adjust Pricing and Services

• 5 Unit 5 — Cosmetology Portfolio and Practical Exam — 6 classes

- › 5.1 Explore Portfolio Components and Structure
- › 5.2 Gather Evidence of Skills through Documentation
- › 5.3 Create a Visual Presentation of Your Work
- › 5.4 Develop a Personal Brand in Cosmetology
- › 5.5 Prepare for the Practical Exam: Techniques and Tips
- › 5.6 Conduct a Mock Practical Exam: Assessment and Feedback

• 1 Unit 1 — Cell Biology and Molecular Biology Basics — 6 classes

- › 1.1 Identify Cell Structures and Their Functions
- › 1.2 Explore the Principles of Cell Theory
- › 1.3 Examine the Composition and Functions of Biomolecules
- › 1.4 Analyze the Process of Cellular Respiration
- › 1.5 Investigate DNA Structure and Replication
- › 1.6 Apply Molecular Techniques in Biotechnology

• 2 Unit 2 — Genetic Engineering and Recombinant DNA Technology

— 6 classes

- › 2.1 Explore the Basics of Genetic Engineering
- › 2.2 Understand the Role of Recombinant DNA in Biotechnology
- › 2.3 Identify Enzymes Used in Genetic Engineering
- › 2.4 Investigate the Process of Gene Cloning
- › 2.5 Evaluate Applications of Recombinant DNA Technology
- › 2.6 Assess Ethical Considerations in Genetic Engineering

• 3 Unit 3 — Fermentation, Bioreactors and Downstream Processing

— 6 classes

- › 3.1 Explore the Basics of Fermentation Processes
- › 3.2 Identify Different Types of Fermentation Microorganisms
- › 3.3 Describe the Structure and Function of Bioreactors
- › 3.4 Analyze Factors Affecting Fermentation Efficiency
- › 3.5 Examine Downstream Processing Techniques in Biotechnology
- › 3.6 Apply Knowledge of Fermentation and Processing in Real-World Scenarios

• 4 Unit 4 — Bioinformatics — Databases, Tools and Analysis — 6 classes

- › 4.1 Explore the Basics of Bioinformatics Databases
- › 4.2 Navigate Key Bioinformatics Tools for Data Retrieval
- › 4.3 Understand Data Types and Formats in Bioinformatics
- › 4.4 Analyze Biological Data Using Bioinformatics Software
- › 4.5 Compare Different Bioinformatics Algorithms and Their Applications
- › 4.6 Evaluate Case Studies of Bioinformatics in Research and Industry

• 5 Unit 5 — Biotechnology Industry Application Project — 6 classes

- › 5.1 Explore the Role of Biotechnology in Industry
- › 5.2 Identify Key Biotech Applications in Agriculture
- › 5.3 Analyze Biotechnological Advances in Healthcare
- › 5.4 Evaluate the Environmental Impact of Biotech Industries
- › 5.5 Design a Biotech Project Proposal for a Local Issue
- › 5.6 Present and Critique Biotech Solutions in a Group Format

• 1 Unit 1 — Python for Data Science — pandas, numpy, scipy — 6 classes

- › 1.1 Explore the Basics of Python Programming for Data Science
- › 1.2 Understand and Utilize NumPy for Numerical Data Manipulation
- › 1.3 Implement Array Operations with NumPy for Data Analysis
- › 1.4 Dive into Pandas for Data Structures: Series and DataFrames
- › 1.5 Analyze Data Using Pandas: Cleaning and Transforming Datasets
- › 1.6 Apply SciPy for Advanced Data Analysis Techniques

• 2 Unit 2 — Data Wrangling and Exploratory Data Analysis — 6 classes

- › 2.1 Identify and Understand Data Sources for Wrangling
- › 2.2 Clean and Preprocess Raw Data Using Techniques
- › 2.3 Transform Data Structures for Analysis
- › 2.4 Explore Data Distributions and Patterns
- › 2.5 Visualize Data Insights with Graphical Representations
- › 2.6 Apply Data Wrangling Techniques to Real-World Scenarios

• 3 Unit 3 — Statistical Modelling and Regression — 6 classes

- › 3.1 Understand Key Concepts of Statistical Modelling
- › 3.2 Explore Types of Regression Analysis
- › 3.3 Identify Variables and Data Collection Techniques
- › 3.4 Construct a Simple Linear Regression Model
- › 3.5 Interpret Regression Outputs and Coefficients
- › 3.6 Apply Regression Analysis to Real-World Data Sets

• 4 Unit 4 — Data Visualisation — Matplotlib, Seaborn, Plotly — 6 classes

- › 4.1 Understand the Basics of Data Visualization Principles
- › 4.2 Explore Matplotlib: Creating Your First Line Plot
- › 4.3 Customize Your Matplotlib Plots with Styles and Annotations
- › 4.4 Introduction to Seaborn: Enhancing Statistical Graphics
- › 4.5 Create Interactive Visualizations Using Plotly
- › 4.6 Apply Your Knowledge: Build a Comprehensive Visual Data Story

• 5 Unit 5 — Industry Data Science Project — Full Pipeline — 6 classes

- › 5.1 Identify Data Sources for Industry Projects
- › 5.2 Collect and Clean Data for Analysis
- › 5.3 Explore and Visualize Data Patterns
- › 5.4 Select Appropriate Analytical Models
- › 5.5 Implement and Evaluate Model Performance
- › 5.6 Present Findings and Insights from the Project

• 1 Unit 1 — Advanced Design Methodology and Double Diamond —

6 classes

- › 1.1 Explore the Double Diamond Framework
- › 1.2 Identify Problem Spaces through Divergent Thinking
- › 1.3 Define User Needs with Empathy Mapping
- › 1.4 Generate Creative Solutions using Ideation Techniques
- › 1.5 Prototype Ideas for Effective Testing
- › 1.6 Evaluate and Revise Designs Based on User Feedback

• 2 Unit 2 — Human-Centred Design and Empathy Mapping —

6 classes

- › 2.1 Explore the Fundamentals of Human-Centred Design
- › 2.2 Identify Key Principles of Empathy Mapping
- › 2.3 Develop User Personas to Understand Needs
- › 2.4 Conduct Empathy Interviews for Insight Gathering
- › 2.5 Create Empathy Maps to Visualize User Experiences
- › 2.6 Apply Insights to Prototype Solutions for Real-World Problems

• 3 Unit 3 — Service Design and Business Innovation Tools —

6 classes

- › 3.1 Explore the Principles of Service Design
- › 3.2 Identify User Needs Through Empathy Mapping
- › 3.3 Develop Service Blueprints for Customer Journeys
- › 3.4 Utilize Ideation Techniques for Innovative Solutions
- › 3.5 Prototype Service Concepts Using Low-Fidelity Models
- › 3.6 Evaluate and Iterate Service Designs Based on Feedback

• 4 Unit 4 — High-Fidelity Prototyping and User Testing —

6 classes

- › 4.1 Explore High-Fidelity Prototyping Techniques
- › 4.2 Develop Effective Prototypes for User Interaction
- › 4.3 Identify Key Elements for User Testing
- › 4.4 Conduct User Testing Sessions Effectively
- › 4.5 Analyze User Feedback for Design Improvement
- › 4.6 Present Prototyping Outcomes and User Insights

• 5 Unit 5 — Innovation Project — Social or Commercial Impact —

6 classes

- › 5.1 Identify Social Issues for Innovation Projects
- › 5.2 Brainstorming Innovative Solutions for Social Impact
- › 5.3 Assessing Feasibility of Proposed Innovations
- › 5.4 Designing a Prototype for Social or Commercial Innovation
- › 5.5 Developing a Pitch for Your Innovation Project
- › 5.6 Evaluating the Impact of Innovations on Communities

• 1 Unit 1 — Microcontrollers — Arduino, Raspberry Pi Basics —

6 classes

- › 1.1 Explore the Basics of Microcontrollers
- › 1.2 Understand Arduino Architecture and Components
- › 1.3 Set Up Your First Arduino Project
- › 1.4 Introduction to Raspberry Pi Hardware and Features
- › 1.5 Create a Simple Raspberry Pi Project
- › 1.6 Compare Arduino and Raspberry Pi for Project Applications

• 2 Unit 2 — IoT Architecture, Sensors and Actuators —

6 classes

- › 2.1 Explore the Fundamentals of IoT Architecture
- › 2.2 Identify and Classify Different Types of Sensors
- › 2.3 Understand the Role of Actuators in IoT Systems
- › 2.4 Analyze the Interaction Between Sensors and Actuators
- › 2.5 Design a Basic IoT Sensor Network
- › 2.6 Implement a Simple IoT Project Using Sensors and Actuators

• 3 Unit 3 — PCB Design and Fabrication Techniques —

6 classes

- › 3.1 Understand the Basics of PCB Design Principles
- › 3.2 Identify and Utilize PCB Design Software Tools
- › 3.3 Develop a Basic PCB Layout from a Schematic Diagram
- › 3.4 Explore Different Material Types for PCB Fabrication
- › 3.5 Apply PCB Fabrication Techniques: Etching and Drilling
- › 3.6 Evaluate the Quality of a Finished PCB Prototype

• 4 Unit 4 — Embedded Systems Programming — C/MicroPython —

6 classes

- › 4.1 Understand the Basics of Embedded Systems and Their Applications
- › 4.2 Explore C Language Fundamentals for Embedded Systems
- › 4.3 Introduce MicroPython and Its Advantages in Embedded Programming
- › 4.4 Write Simple Programs in C for Microcontroller Interaction
- › 4.5 Develop Basic MicroPython Scripts for Hardware Control
- › 4.6 Integrate Sensors with Embedded Systems Using C/MicroPython

• 5 Unit 5 — IoT/Hardware Project — Build and Present —

6 classes

- › 5.1 Identify Key Components for IoT Hardware Projects
- › 5.2 Design Circuit Schematics for IoT Applications
- › 5.3 Build a Prototype of Your IoT Project
- › 5.4 Program Microcontrollers for IoT Integration
- › 5.5 Test and Troubleshoot Your IoT Hardware Setup
- › 5.6 Present Your IoT Project Effectively to an Audience

• 1 Unit 1 — Fashion History, Trends and Forecasting — 6 classes

- › 1.1 Explore the Origins of Fashion: A Historical Overview
- › 1.2 Identify Key Fashion Movements: From Rococo to Streetwear
- › 1.3 Analyze Cultural Influences on Fashion Trends
- › 1.4 Examine the Role of Technology in Fashion Evolution
- › 1.5 Forecasting Fashion Trends: Methods and Tools
- › 1.6 Apply Trend Analysis to Create a Mini Fashion Collection

• 2 Unit 2 — Textile Science — Fibres, Fabrics and Finishes — 6 classes

- › 2.1 Identify Different Types of Fibres: Natural vs. Synthetic
- › 2.2 Explore the Properties of Key Fibres Used in Fashion
- › 2.3 Investigate Fabric Construction Techniques: Weaving vs. Knitting
- › 2.4 Examine the Role of Fabric Finishes in Enhancing Textile Performance
- › 2.5 Compare the Environmental Impact of Various Fibres and Fabrics
- › 2.6 Apply Knowledge of Fibres and Fabrics in Fashion Design Projects

• 3 Unit 3 — Pattern Drafting — Basic and Advanced Blocks — 6 classes

- › 3.1 Understand the Fundamentals of Pattern Drafting
- › 3.2 Identify Tools and Materials for Pattern Drafting
- › 3.3 Create Basic Blocks for Apparel Design
- › 3.4 Explore Advanced Block Techniques in Pattern Drafting
- › 3.5 Adjust Basic Blocks to Fit Different Body Types
- › 3.6 Apply Pattern Drafting Skills in a Mini Fashion Project

• 4 Unit 4 — Garment Construction — Tailoring and Couture Techniques — 6 classes

- › 4.1 Explore Essential Tailoring Tools and Materials
- › 4.2 Demonstrate Basic Hand Sewing Techniques for Tailoring
- › 4.3 Construct and Fit a Basic Tailored Sleeve
- › 4.4 Master Couture Stitching Techniques for Quality Finishing
- › 4.5 Create a Simple Tailored Garment Using Couture Principles
- › 4.6 Evaluate and Present Finished Tailored Garments Professionally

• 5 Unit 5 — Fashion Collection Project and Portfolio — 6 classes

- › 5.1 Research Fashion Trends and Influences
- › 5.2 Define Target Audience for Fashion Collection
- › 5.3 Develop a Concept Mood Board
- › 5.4 Create Initial Sketches of Design Ideas
- › 5.5 Compile a Collection Portfolio
- › 5.6 Present and Critique Fashion Collection

• 1 Unit 1 — Investment Planning — Equity, Debt, Real Estate — 6 classes

- › 1.1 Define and Differentiate Investment Types: Equity, Debt, and Real Estate
- › 1.2 Analyze Risk and Return Profiles of Equity Investments
- › 1.3 Examine the Benefits and Drawbacks of Debt Investments
- › 1.4 Explore Real Estate as an Investment Option: Key Factors to Consider
- › 1.5 Create a Basic Investment Portfolio Using Equity, Debt, and Real Estate
- › 1.6 Reflect on Personal Investment Goals and Prepare a Customized Investment Plan

• 2 Unit 2 — Tax Planning — 80C Deductions and Tax Saving — 6 classes

- › 2.1 Understand the Concept of 80C Deductions
- › 2.2 Identify Eligible Investments for 80C Deductions
- › 2.3 Calculate Potential Tax Savings through 80C Deductions
- › 2.4 Explore Long-term vs Short-term Benefits of 80C Investments
- › 2.5 Create a Personal Tax Savings Plan Using 80C Deductions
- › 2.6 Review Common Mistakes in Claiming 80C Deductions

• 3 Unit 3 — Insurance — Life, Health, Term and ULIP — 6 classes

- › 3.1 Define and Differentiate Life and Health Insurance
- › 3.2 Explore the Types of Life Insurance: Term vs. ULIP
- › 3.3 Understand the Benefits of Health Insurance Coverage
- › 3.4 Analyze the Importance of Insurance in Financial Planning
- › 3.5 Calculate Insurance Needs and Coverage Amounts
- › 3.6 Evaluate Real-life Scenarios for Choosing the Right Insurance

• 4 Unit 4 — Retirement Planning — NPS, PPF and Pension — 6 classes

- › 4.1 Understand the Importance of Retirement Planning
- › 4.2 Explore the National Pension System (NPS) Features
- › 4.3 Analyze Public Provident Fund (PPF) Benefits and Limitations
- › 4.4 Compare NPS and PPF for Retirement Savings
- › 4.5 Evaluate Different Pension Plans Available in the UK
- › 4.6 Create a Personalized Retirement Savings Strategy

• 5 Unit 5 — Personal Wealth Management Plan and Presentation — 6 classes

- › 5.1 Define Personal Wealth Management and Its Importance
- › 5.2 Identify Key Components of a Personal Wealth Management Plan
- › 5.3 Assess Individual Financial Goals and Risk Tolerance
- › 5.4 Explore Different Investment Vehicles and Strategies
- › 5.5 Develop a Personal Wealth Management Plan Template
- › 5.6 Present and Review Personal Wealth Management Plans

• 1 Unit 1 — Advanced Culinary Techniques — French, Italian, Indian

— 6 classes

- › 1.1 Mastering French Knife Skills and Classic Cuts
- › 1.2 Exploring Italian Pasta Types and Their Uses
- › 1.3 Understanding Indian Spices and Flavor Profiles
- › 1.4 Preparing French Sauces: Techniques and Applications
- › 1.5 Crafting Authentic Italian Risotto: Method and Tips
- › 1.6 Creating Signature Indian Curries: Balancing Flavors

• 2 Unit 2 — Bakery and Patisserie — Artisan Breads, Cakes, Pastries

— 6 classes

- › 2.1 Explore the Fundamentals of Artisan Bread Making
- › 2.2 Identify Key Ingredients and Their Roles in Bread Production
- › 2.3 Master Essential Techniques for Kneading and Shaping Dough
- › 2.4 Understand Rising and Fermentation Processes in Baking
- › 2.5 Create a Variety of Artisan Breads: From Sourdough to Focaccia
- › 2.6 Design and Present Artisan Bread Platters for Service

• 3 Unit 3 — Kitchen Management — Planning, Costing and Staffing

— 6 classes

- › 3.1 Identify Key Principles of Kitchen Management
- › 3.2 Analyze Kitchen Layouts for Efficient Workflow
- › 3.3 Develop a Basic Food Production Costing Sheet
- › 3.4 Evaluate Staffing Needs for Different Kitchen Operations
- › 3.5 Create a Staff Scheduling Plan for a Busy Kitchen
- › 3.6 Implement Cost Control Strategies in Food Production

• 4 Unit 4 — Food Safety Systems — HACCP, ISO 22000

— 6 classes

- › 4.1 Define HACCP Principles and Their Importance in Food Safety
- › 4.2 Identify the Seven Steps of HACCP Implementation
- › 4.3 Explore ISO 22000 Standards and Their Role in Food Safety Management
- › 4.4 Distinguish Between HACCP and ISO 22000: Key Differences and Similarities
- › 4.5 Analyze Case Studies of Successful HACCP and ISO 22000 Implementations
- › 4.6 Develop a Simple HACCP Plan for a Food Production Scenario

• 5 Unit 5 — Culinary Project — Design Menu and Cook for Panel

— 6 classes

- › 5.1 Research Culinary Trends and Themes for Menu Design
- › 5.2 Identify and Select Ingredients for Menu Items
- › 5.3 Create a Balanced Menu with Nutritional Considerations
- › 5.4 Develop Cooking Techniques for Selected Dishes
- › 5.5 Prepare and Present Dishes for Panel Evaluation
- › 5.6 Receive and Reflect on Feedback from Panel Presentation

• 1 Unit 1 — Advanced Front Office Systems — PMS, GDS, OTA

— 6 classes

- › 1.1 Explore the Features and Benefits of Property Management Systems (PMS)
- › 1.2 Analyze the Role of Global Distribution Systems (GDS) in Hotel Bookings
- › 1.3 Investigate the Functionality of Online Travel Agencies (OTA)
- › 1.4 Compare and Contrast PMS, GDS, and OTA: Tools for Front Office Success
- › 1.5 Demonstrate the Use of PMS for Efficient Front Office Operations
- › 1.6 Implement Strategies to Enhance Collaborations with GDS and OTA Platforms

• 2 Unit 2 — Revenue Management and Yield Management

— 6 classes

- › 2.1 Define Key Concepts of Revenue Management
- › 2.2 Analyze the Importance of Yield Management in Hospitality
- › 2.3 Examine Different Revenue Management Strategies
- › 2.4 Explore Tools and Technologies for Yield Management
- › 2.5 Apply Revenue Management Techniques to Case Studies
- › 2.6 Evaluate the Effectiveness of Revenue Management Practices

• 3 Unit 3 — Night Audit Procedures and Financial Reporting

— 6 classes

- › 3.1 Understand the Purpose of Night Audit Procedures
- › 3.2 Identify Key Components of the Night Audit Process
- › 3.3 Explore Common Tools Used in Night Auditing
- › 3.4 Analyze Financial Reporting Standards in Hospitality
- › 3.5 Execute a Sample Night Audit Procedure
- › 3.6 Evaluate Financial Reports and Discuss Best Practices

• 4 Unit 4 — Front Office Leadership and Team Management

— 6 classes

- › 4.1 Define Leadership Styles in Front Office Operations
- › 4.2 Explore the Role of Effective Communication in Team Management
- › 4.3 Identify Key Characteristics of Successful Front Office Teams
- › 4.4 Develop Strategies for Conflict Resolution in Team Settings
- › 4.5 Implement Team Building Activities for Enhanced Collaboration
- › 4.6 Assess Team Performance and Provide Constructive Feedback

• 5 Unit 5 — Hotel Operations Project and Management Report

— 6 classes

- › 5.1 Analyze Hotel Operation Fundamentals
- › 5.2 Identify Key Components of a Hotel Management Report
- › 5.3 Explore Effective Guest Service Techniques
- › 5.4 Implement Solutions for Common Front Office Challenges
- › 5.5 Design a Comprehensive Hotel Operations Project Plan
- › 5.6 Present a Hotel Management Report to Stakeholders

• 1 Unit 1 — GIS Fundamentals — Coordinate Systems and Projections — 6 classes

- › 1.1 Define and Differentiate Between Coordinate Systems
- › 1.2 Explore Types of Coordinate Systems: Geographic vs. Projected
- › 1.3 Understand the Importance of Projection in GIS
- › 1.4 Identify Common Map Projections and Their Uses
- › 1.5 Analyze the Impact of Distortion in Map Projections
- › 1.6 Apply Coordinate Systems and Projections to Real-World Scenarios

• 2 Unit 2 — Remote Sensing — Satellite Imagery and Interpretation — 6 classes

- › 2.1 Explore the Basics of Remote Sensing Technology
- › 2.2 Identify Different Types of Satellite Imagery
- › 2.3 Analyze the Spectral Bands Used in Satellite Imagery
- › 2.4 Understand the Process of Image Acquisition and Processing
- › 2.5 Interpret Satellite Images: Recognizing Features and Patterns
- › 2.6 Apply Remote Sensing Techniques to Real-World Scenarios

• 3 Unit 3 — QGIS Software — Data Entry, Analysis and Mapping — 6 classes

- › 3.1 Exploring QGIS Interface: Navigating Tools and Menus
- › 3.2 Importing Spatial Data: Formats and Techniques
- › 3.3 Creating and Editing Vector Layers: Practical Workflow
- › 3.4 Conducting Spatial Analysis: Basic Operations in QGIS
- › 3.5 Visualizing Data: Creating Effective Maps in QGIS
- › 3.6 Exporting and Sharing Maps: Best Practices in QGIS

• 4 Unit 4 — Spatial Data Analysis and Geospatial Applications — 6 classes

- › 4.1 Analyze and Interpret Spatial Data Patterns
- › 4.2 Examine Data Sources for Geospatial Applications
- › 4.3 Employ GIS Tools for Spatial Analysis
- › 4.4 Compare Different Spatial Data Formats
- › 4.5 Demonstrate the Use of Map Projections in Analysis
- › 4.6 Develop a Geospatial Project Using Real-World Data

• 5 Unit 5 — Geospatial Project — Map and Analyse a Local Issue — 6 classes

- › 5.1 Identify a Local Issue for Geospatial Analysis
- › 5.2 Gather Geospatial Data Relevant to the Local Issue
- › 5.3 Create a Basic Map Using Collected Data
- › 5.4 Analyze Geospatial Data to Understand Patterns
- › 5.5 Interpret Findings and Draw Conclusions from the Analysis
- › 5.6 Present the Geospatial Project to the Community

• 1 Unit 1 — 2D Animation — Principles, Timing and Motion — 6 classes

- › 1.1 Define and Explain the Key Principles of 2D Animation
- › 1.2 Explore Timing: Understanding Frames and Timing in Animation
- › 1.3 Analyze Motion: The Importance of Motion in 2D Animation
- › 1.4 Illustrate the Twelve Principles of Animation with Examples
- › 1.5 Develop a Simple Animation Using Basic Timing Techniques
- › 1.6 Evaluate and Refine Your Animation for Fluidity and Motion

• 2 Unit 2 — 3D Modelling and Animation — Blender/Maya Introduction — 6 classes

- › 2.1 Explore Blender and Maya Interfaces
- › 2.2 Understand 3D Modeling Basics
- › 2.3 Create Basic Shapes in Blender
- › 2.4 Construct Objects with Maya Tools
- › 2.5 Apply Textures and Materials to Models
- › 2.6 Animate Basic Movements in Blender

• 3 Unit 3 — Adobe Suite — Illustrator, After Effects, Premiere — 6 classes

- › 3.1 Explore Adobe Illustrator Interface and Tools
- › 3.2 Create Basic Shapes and Paths in Illustrator
- › 3.3 Integrate Text and Graphics in Adobe Illustrator
- › 3.4 Introduction to Animation Principles in After Effects
- › 3.5 Animate a Simple Graphic in After Effects
- › 3.6 Edit and Compile a Short Video in Adobe Premiere

• 4 Unit 4 — Visual Effects (VFX) and Motion Graphics Basics — 6 classes

- › 4.1 Explore the Fundamentals of Visual Effects
- › 4.2 Identify Key Techniques in Motion Graphics
- › 4.3 Analyze the Role of Compositing in VFX
- › 4.4 Demonstrate Basic Animation Principles
- › 4.5 Create Simple Motion Graphics Using Software Tools
- › 4.6 Evaluate and Present a Short VFX Project

• 5 Unit 5 — Animation Portfolio Project — Short Film or Ad — 6 classes

- › 5.1 Brainstorming Ideas for a Short Film or Ad
- › 5.2 Developing a Storyboard for Your Animation
- › 5.3 Creating Characters and Environments for Animation
- › 5.4 Incorporating Sound and Music into Your Project
- › 5.5 Editing and Finalizing Your Animation Portfolio
- › 5.6 Presenting Your Short Film or Ad to an Audience

• 1 Unit 1 — Advanced Anatomy and Physiology — Systems Review

— 6 classes

- › 1.1 Explore the Major Body Systems and Their Functions
- › 1.2 Examine the Structure and Function of the Cardiovascular System
- › 1.3 Investigate the Respiratory System: Anatomy and Physiology
- › 1.4 Analyze the Digestive System: Key Components and Processes
- › 1.5 Assess the Nervous System: Structure and Signal Transmission
- › 1.6 Apply Knowledge of Body Systems to Real-World Health Scenarios

• 2 Unit 2 — Clinical Skills — Vitals, Blood Pressure, Dressing — 6

classes

- › 2.1 Measuring Vital Signs: Understanding Temperature, Pulse, and Respiration
- › 2.2 Assessing Blood Pressure: Techniques and Equipment Overview
- › 2.3 Interpreting Blood Pressure Readings: Normal vs. Abnormal Values
- › 2.4 Demonstrating Accurate Blood Pressure Measurement Techniques
- › 2.5 Wound Care Fundamentals: Principles of Dressing and Infection Control
- › 2.6 Applying Dressings: Practical Skills for Safe and Effective Application

• 3 Unit 3 — Medical Records and Health Information Systems — 6

classes

- › 3.1 Understand the Importance of Medical Records in Healthcare
- › 3.2 Identify Types of Medical Records Used in Health Care
- › 3.3 Explore Health Information Systems and Their Functions
- › 3.4 Learn Data Privacy and Security in Medical Records Management
- › 3.5 Analyze the Role of Electronic Health Records (EHRs) in Patient Care
- › 3.6 Apply Knowledge of Medical Records through a Case Study Exercise

• 4 Unit 4 — Community Health and Preventive Healthcare — 6 classes

- › 4.1 Understand the Importance of Community Health
- › 4.2 Identify Key Components of Preventive Healthcare
- › 4.3 Explore Common Community Health Issues
- › 4.4 Evaluate Strategies for Health Promotion
- › 4.5 Analyze the Role of Healthcare Workers in Communities
- › 4.6 Develop a Community Health Improvement Plan

• 5 Unit 5 — Healthcare Field Visit Report and Case Study — 6 classes

- › 5.1 Explore the Importance of Field Visits in Healthcare
- › 5.2 Identify Key Elements of a Healthcare Field Visit Report
- › 5.3 Analyze a Case Study: Observations and Findings
- › 5.4 Develop Effective Communication in Healthcare Reporting
- › 5.5 Create a Sample Healthcare Field Visit Report
- › 5.6 Present a Case Study Findings: Skills and Techniques

• 1 Unit 1 — Human Development and Family Studies — 6 classes

- › 1.1 Explore Key Concepts of Human Development
- › 1.2 Analyze Stages of Human Growth Across the Lifespan
- › 1.3 Investigate Factors Influencing Family Dynamics
- › 1.4 Assess the Role of Culture in Family Structures
- › 1.5 Develop Strategies for Effective Communication in Families
- › 1.6 Apply Knowledge of Developmental Theories to Real-Life Scenarios

• 2 Unit 2 — Nutrition Science — Macros, Micros and Meal Planning

— 6 classes

- › 2.1 Understand Macronutrients and Their Functions
- › 2.2 Explore Micronutrients and Their Role in Health
- › 2.3 Analyze Daily Nutritional Requirements for Different Age Groups
- › 2.4 Identify Food Sources for Essential Nutrients
- › 2.5 Create a Balanced Meal Plan Incorporating Macros and Micros
- › 2.6 Evaluate Meal Plans for Nutritional Adequacy and Diversity

• 3 Unit 3 — Textiles and Apparel — Consumer Selection and Care —

6 classes

- › 3.1 Identify Key Factors in Textile Selection
- › 3.2 Analyze Fabric Properties and Their Care Requirements
- › 3.3 Evaluate Sustainable and Ethical Apparel Choices
- › 3.4 Compare Different Laundry Techniques for Delicate Fabrics
- › 3.5 Demonstrate Proper Storage Methods for Textiles
- › 3.6 Create a Care Label for a Chosen Garment

• 4 Unit 4 — Consumer Education, Rights and Resource Management — 6 classes

- › 4.1 Understand Consumer Rights and Responsibilities
- › 4.2 Identify Types of Consumer Goods and Services
- › 4.3 Analyze Advertising Techniques and Consumer Influence
- › 4.4 Evaluate Product Labels and Quality Indicators
- › 4.5 Develop Effective Budgeting Skills for Consumer Purchases
- › 4.6 Practice Consumer Strategies for Smart Shopping

• 5 Unit 5 — Applied Home Science Project — 6 classes

- › 5.1 Identify and Define a Home Science Project Topic
- › 5.2 Conduct a Literature Review for Home Science Applications
- › 5.3 Develop a Research Proposal for a Home Science Project
- › 5.4 Implement Data Collection Methods for Home Science Research
- › 5.5 Analyze and Interpret Data in Home Science Projects
- › 5.6 Present Findings and Recommendations from Home Science Research

• 1 Unit 1 — Plant Propagation — Seeds, Cuttings, Grafting — 6

classes

- › 1.1 Explore the Basics of Seed Structure and Germination
- › 1.2 Identify Different Types of Seeds and Their Germination Requirements
- › 1.3 Demonstrate the Techniques for Sowing Seeds Effectively
- › 1.4 Understand the Principles of Plant Cuttings and Their Uses
- › 1.5 Practice Taking and Preparing Cuttings for Propagation
- › 1.6 Apply Grafting Techniques to Propagate Desired Plant Varieties

• 2 Unit 2 — Floriculture — Flower Cultivation and Arrangement — 6

classes

- › 2.1 Identify Common Flower Types and Their Characteristics
- › 2.2 Understand Soil Requirements and Preparation for Flower Cultivation
- › 2.3 Explore Cultivation Techniques for Healthy Flower Growth
- › 2.4 Learn the Principles of Flower Arrangement and Design
- › 2.5 Practice Creating Simple Flower Arrangements for Different Occasions
- › 2.6 Evaluate and Care for Flower Arrangements to Extend Their Lifespan

• 3 Unit 3 — Landscape Design — Principles and Garden Planning — 6

classes

- › 3.1 Explore the Principles of Landscape Design
- › 3.2 Identify Key Elements of Garden Planning
- › 3.3 Analyze Different Garden Styles and Themes
- › 3.4 Assess Site Conditions for Effective Garden Layout
- › 3.5 Create a Conceptual Garden Design Plan
- › 3.6 Present and Evaluate Garden Design Proposals

• 4 Unit 4 — Nursery Management — Production and Marketing — 6

classes

- › 4.1 Identify Key Components of Nursery Management
- › 4.2 Analyze Plant Production Techniques in Nurseries
- › 4.3 Evaluate Soil and Environmental Requirements for Nursery Plants
- › 4.4 Develop Effective Marketing Strategies for Nursery Products
- › 4.5 Assess Economic Considerations in Nursery Operations
- › 4.6 Create a Simple Business Plan for a Nursery Venture

• 5 Unit 5 — Horticulture Project — Design and Maintain a Garden — 6

classes

- › 5.1 Analyze Site Conditions for Garden Design
- › 5.2 Select Appropriate Plants for Diverse Environments
- › 5.3 Create a Garden Layout Using Design Principles
- › 5.4 Develop a Planting Schedule for Seasonal Gardening
- › 5.5 Implement Maintenance Techniques for Healthy Growth
- › 5.6 Evaluate Garden Success and Plan for Future Improvements

• 1 Unit 1 — Hospital Organisation, Structure and Departments — 6

classes

- › 1.1 Identify Key Components of Hospital Organisation
- › 1.2 Describe the Structure of a Typical Hospital
- › 1.3 Explain the Roles and Responsibilities of Hospital Departments
- › 1.4 Analyze the Interconnections Between Departments
- › 1.5 Evaluate the Importance of Effective Communication in Hospitals
- › 1.6 Apply Knowledge to Simulate a Hospital Organisational Chart

• 2 Unit 2 — Patient Admission, Discharge and Medical Records — 6

classes

- › 2.1 Understand the Patient Admission Process
- › 2.2 Identify Key Documentation Required for Admission
- › 2.3 Explore Roles and Responsibilities during Patient Admissions
- › 2.4 Learn Effective Discharge Planning Strategies
- › 2.5 Implementing Accurate Medical Record Keeping
- › 2.6 Evaluate Ethical Considerations in Patient Admissions and Discharges

• 3 Unit 3 — Healthcare Quality Management and Accreditation — 6

classes

- › 3.1 Understand the Importance of Healthcare Quality Management in Clinical Settings
- › 3.2 Identify Key Components of Quality Management Systems in Healthcare
- › 3.3 Explore Common Healthcare Accreditation Standards and Frameworks
- › 3.4 Analyze Case Studies of Successful Quality Management Implementation
- › 3.5 Evaluate the Role of Stakeholders in Achieving Healthcare Quality
- › 3.6 Develop a Quality Improvement Plan for a Healthcare Facility

• 4 Unit 4 — Healthcare Laws, Ethics and Patient Rights — 6

classes

- › 4.1 Understand Key Healthcare Laws Affecting Patient Care
- › 4.2 Explore the Ethical Principles in Healthcare Delivery
- › 4.3 Identify Patient Rights and Responsibilities in Clinical Settings
- › 4.4 Analyze Case Studies of Ethical Dilemmas in Healthcare
- › 4.5 Discuss the Role of Consent and Confidentiality in Patient Care
- › 4.6 Apply Knowledge of Healthcare Laws to Real-World Scenarios

• 5 Unit 5 — Hospital Administration Project and Field Visit — 6

classes

- › 5.1 Analyze the Role of Hospital Administration in Healthcare Delivery
- › 5.2 Explore Key Components of a Successful Hospital Management Project
- › 5.3 Identify Stakeholders Involved in Hospital Administration
- › 5.4 Develop a Project Proposal for a Hospital Administration Initiative
- › 5.5 Conduct a Field Visit to Evaluate Hospital Administration Practices
- › 5.6 Present Findings and Recommendations from Field Visit Observations

• 1 Unit 1 — Human Rights Frameworks — Universal Declaration, Indian Constitution — 6 classes

- › 1.1 Explore the Universal Declaration of Human Rights: Key Principles and Articles
- › 1.2 Analyze the Historical Context and Impact of the Universal Declaration
- › 1.3 Examine the Indian Constitution: Fundamental Rights and Duties
- › 1.4 Compare the Universal Declaration with the Indian Constitution
- › 1.5 Discuss the Role of Human Rights in Everyday Life
- › 1.6 Apply Human Rights Frameworks to Current Social Issues in India

• 2 Unit 2 — Gender Studies — Concepts, Stereotypes and Equality — 6 classes

- › 2.1 Define and Differentiate Key Concepts in Gender Studies
- › 2.2 Analyze Historical Contexts of Gender Roles and Stereotypes
- › 2.3 Examine Media Representations of Gender: Impact and Implications
- › 2.4 Identify and Challenge Common Gender Stereotypes in Society
- › 2.5 Explore the Intersectionality of Gender with Other Social Identities
- › 2.6 Develop Strategies for Promoting Gender Equality in Everyday Life

• 3 Unit 3 — Social Justice, Discrimination and Legal Remedies — 6 classes

- › 3.1 Define Social Justice and Its Importance in Society
- › 3.2 Identify Forms of Discrimination in Different Contexts
- › 3.3 Explore Historical Cases of Discrimination and Their Impact
- › 3.4 Understand Legal Frameworks for Addressing Discrimination
- › 3.5 Analyze the Role of Institutions in Promoting Social Justice
- › 3.6 Develop Action Plans for Advocating Legal Remedies for Discrimination

• 4 Unit 4 — Civic Engagement, Advocacy and Rights Movements — 6 classes

- › 4.1 Explore the Concept of Civic Engagement and Its Importance
- › 4.2 Identify Key Advocacy Strategies Used in Rights Movements
- › 4.3 Analyze Historical Case Studies of Successful Rights Movements
- › 4.4 Discuss the Role of Social Media in Modern Advocacy
- › 4.5 Develop a Personal Advocacy Plan for a Social Issue
- › 4.6 Present and Reflect on Advocacy Plans in Peer Groups

• 5 Unit 5 — Human Rights Research Project and Presentation — 6 classes

- › 5.1 Identify and Define Key Human Rights Concepts
- › 5.2 Explore Case Studies in Human Rights Violations
- › 5.3 Conducting Effective Research on Gender Rights Issues
- › 5.4 Analyze and Interpret Data for Human Rights Reports
- › 5.5 Develop a Persuasive Presentation on Human Rights Topics
- › 5.6 Reflect and Critique Peer Presentations on Gender Studies

• 1 Unit 1 — Advanced Networking — TCP/IP, DNS, DHCP, Firewalls — 6 classes

- › 1.1 Explore the TCP/IP Model and Its Layers
- › 1.2 Understand the Role of DNS in Networking
- › 1.3 Configure DHCP for Dynamic IP Addressing
- › 1.4 Investigate Different Types of Firewalls and Their Functions
- › 1.5 Analyze Network Security Protocols and Best Practices
- › 1.6 Implement a Small Network Using TCP/IP, DNS, and DHCP

• 2 Unit 2 — Cybersecurity — Threats, Encryption and Ethical Hacking Basics — 6 classes

- › 2.1 Identify Common Cybersecurity Threats and Vulnerabilities
- › 2.2 Explore the Impact of Cyber Attacks on Organizations
- › 2.3 Understand the Fundamentals of Encryption and Its Types
- › 2.4 Demonstrate the Use of Basic Encryption Techniques
- › 2.5 Introduction to Ethical Hacking and Its Importance
- › 2.6 Apply Ethical Hacking Tools to Identify System Weaknesses

• 3 Unit 3 — Database Management — MySQL, RDBMS, SQL Queries — 6 classes

- › 3.1 Define and Explain RDBMS Concepts and Terminology
- › 3.2 Install and Configure MySQL: A Step-by-Step Guide
- › 3.3 Create Your First Database and Tables in MySQL
- › 3.4 Understand and Write Basic SQL Queries for Data Retrieval
- › 3.5 Manipulate Data: Insert, Update, and Delete with SQL Commands
- › 3.6 Apply Joins and Subqueries to Enhance Data Retrieval Techniques

• 4 Unit 4 — Web Technologies — HTML5, CSS3, JavaScript Basics — 6 classes

- › 4.1 Explore the Structure of HTML5 Documents
- › 4.2 Implement Basic HTML5 Elements and Attributes
- › 4.3 Style Web Pages Using CSS3 Fundamentals
- › 4.4 Create Responsive Designs with CSS3 Layout Techniques
- › 4.5 Understand JavaScript Basics and Syntax
- › 4.6 Integrate JavaScript for Dynamic Web Interactions

• 5 Unit 5 — IT Industry Project — Network or Web Application — 6 classes

- › 5.1 Identify Key Components of Network and Web Applications
- › 5.2 Analyze the Requirements for IT Industry Projects
- › 5.3 Design User Interface Prototypes for Applications
- › 5.4 Develop a Basic Network Architecture Diagram
- › 5.5 Implement Testing Strategies for Network and Web Applications
- › 5.6 Present and Evaluate IT Project Outcomes

• 1 Unit 1 — Insurance Industry Structure and Regulatory Bodies (IRDA) — 6 classes

- › 1.1 Explore the Concept of Insurance: Understanding Basic Terminology
- › 1.2 Identify Key Components of the Insurance Industry Structure
- › 1.3 Examine the Role of Regulatory Bodies in the Insurance Sector
- › 1.4 Analyze the Functions and Powers of IRDA in India
- › 1.5 Discuss the Importance of Compliance with Insurance Regulations
- › 1.6 Apply Knowledge of Regulatory Guidelines to Real-world Scenarios

• 2 Unit 2 — Underwriting Principles and Risk Evaluation — 6 classes

- › 2.1 Define Underwriting and Its Importance in Insurance
- › 2.2 Identify Key Risks in Underwriting Processes
- › 2.3 Analyze the Role of Risk Assessment Tools
- › 2.4 Explore Different Types of Insurance Underwriting
- › 2.5 Evaluate Case Studies in Underwriting Decisions
- › 2.6 Apply Underwriting Principles to Real-World Scenarios

• 3 Unit 3 — Claims Management — Process, Documentation, Settlement — 6 classes

- › 3.1 Understand the Claims Management Process and its Importance
- › 3.2 Identify Key Documentation Required for Insurance Claims
- › 3.3 Explore Types of Insurance Claims and Their Unique Requirements
- › 3.4 Analyze the Steps in Filing an Insurance Claim Effectively
- › 3.5 Evaluate Common Challenges in Claims Settlement and How to Overcome Them
- › 3.6 Apply Best Practices for Successful Claims Management in Real Scenarios

• 4 Unit 4 — Reinsurance, Coinsurance and Treaty Basics — 6 classes

- › 4.1 Understand the Fundamentals of Reinsurance
- › 4.2 Explore the Concepts of Coinsurance
- › 4.3 Differentiate Between Types of Reinsurance
- › 4.4 Analyze the Mechanics of Treaty Reinsurance
- › 4.5 Discuss the Advantages and Disadvantages of Coinsurance
- › 4.6 Apply Reinsurance Concepts to Real-World Scenarios

• 5 Unit 5 — Insurance Risk Management Project — 6 classes

- › 5.1 Identify Key Concepts in Insurance Risk Management
- › 5.2 Analyze Different Types of Insurance Policies
- › 5.3 Assess Potential Risks within a Business Context
- › 5.4 Evaluate Risk Management Strategies in Insurance
- › 5.5 Develop a Risk Management Plan for a Case Study
- › 5.6 Present and Justify Risk Management Recommendations

• 1 Unit 1 — Hardware Diagnosis — Motherboard, RAM, PSU, Drives — 6 classes

- › 1.1 Identify Key Components of a Motherboard
- › 1.2 Diagnose Common Motherboard Issues
- › 1.3 Understand RAM Functionality and Types
- › 1.4 Test and Troubleshoot RAM Problems
- › 1.5 Evaluate Power Supply Unit (PSU) Performance
- › 1.6 Analyze Storage Drive Failures and Solutions

• 2 Unit 2 — Operating System Installation, Configuration and Troubleshooting — 6 classes

- › 2.1 Understand Operating System Fundamentals
- › 2.2 Identify System Requirements for OS Installation
- › 2.3 Execute a Step-by-Step OS Installation Process
- › 2.4 Configure Basic OS Settings Post-Installation
- › 2.5 Explore Common Troubleshooting Techniques for OS Issues
- › 2.6 Assess and Implement OS Maintenance Best Practices

• 3 Unit 3 — Network Administration — LAN Setup, Wi-Fi, VPN — 6 classes

- › 3.1 Identify Components of a Local Area Network (LAN)
- › 3.2 Configure Basic LAN Settings Using Router Interfaces
- › 3.3 Set Up and Secure a Wi-Fi Network
- › 3.4 Troubleshoot Common LAN Connection Issues
- › 3.5 Understand the Purpose and Functionality of VPNs
- › 3.6 Implement a VPN for Secure Remote Access

• 4 Unit 4 — IT Support Ticketing, SLA and Help Desk Management — 6 classes

- › 4.1 Define IT Support Ticketing Systems and Their Purpose
- › 4.2 Explore Common Types of IT Support Tickets
- › 4.3 Understand Service Level Agreements (SLA) in IT Support
- › 4.4 Examine Key Performance Indicators (KPIs) for Help Desk Management
- › 4.5 Implement Effective Help Desk Communication Techniques
- › 4.6 Analyze Real-World Scenarios for Efficient Ticket Resolution

• 5 Unit 5 — Enterprise IT Maintenance Project — 6 classes

- › 5.1 Analyze Current IT Infrastructure for Maintenance Needs
- › 5.2 Identify Common Issues in Enterprise IT Systems
- › 5.3 Develop a Maintenance Schedule for IT Components
- › 5.4 Implement Troubleshooting Techniques for IT Systems
- › 5.5 Evaluate Maintenance Tools and Software for Efficiency
- › 5.6 Create a Report on Maintenance Outcomes and Improvements

• 1 Unit 1 — Indian Legal System — Sources, Hierarchy and Courts

— 6 classes

- › 1.1 Identify the Sources of Law in the Indian Legal System
- › 1.2 Analyze the Hierarchy of Laws in India
- › 1.3 Explore the Role of the Constitution as the Supreme Law
- › 1.4 Differentiate Between Statutory and Non-Statutory Laws
- › 1.5 Examine the Structure and Function of Indian Courts
- › 1.6 Apply Knowledge of Legal Sources in Real Case Scenarios

• 2 Unit 2 — Constitutional Law — Fundamental Rights and Duties —

6 classes

- › 2.1 Explore the Historical Evolution of Fundamental Rights in India
- › 2.2 Identify Key Fundamental Rights Enshrined in the Constitution
- › 2.3 Examine the Significance of Fundamental Duties in Shaping Citizenship
- › 2.4 Analyze Landmark Supreme Court Cases Related to Fundamental Rights
- › 2.5 Discuss the Balance Between Fundamental Rights and Responsibilities
- › 2.6 Apply Fundamental Rights to Case Studies and Real-Life Scenarios

• 3 Unit 3 — Civil Procedure — Suits, Trials and Decrees — 6 classes

- › 3.1 Identify and Understand Key Terminology in Civil Procedure
- › 3.2 Explore the Stages of a Civil Suit: From Pleadings to Judgments
- › 3.3 Analyze the Role of the Plaintiff and Defendant in Civil Litigation
- › 3.4 Examine the Process of Evidence Submission in Trials
- › 3.5 Differentiate Between Decrees and Judgments in Civil Cases
- › 3.6 Apply Civil Procedure Principles to Hypothetical Case Scenarios

• 4 Unit 4 — Criminal Procedure — FIR, Investigation, Trial — 6 classes

- › 4.1 Understand the Importance of the FIR in Criminal Procedure
- › 4.2 Identify the Key Elements Required in a First Information Report
- › 4.3 Outline the Process of Criminal Investigation Following an FIR
- › 4.4 Analyze the Roles of Law Enforcement and Investigators in Criminal Cases
- › 4.5 Explore the Steps Involved in a Criminal Trial
- › 4.6 Apply Knowledge of FIR and Investigation Process to Real-Life Scenarios

• 5 Unit 5 — Moot Court Exercise and Legal Research Project — 6

classes

- › 5.1 Understanding the Fundamentals of Moot Court Simulations
- › 5.2 Developing Legal Arguments and Case Strategies
- › 5.3 Conducting Effective Legal Research Techniques
- › 5.4 Drafting Persuasive Court Documents and Briefs
- › 5.5 Presenting Legal Arguments in a Structured Moot Court Setting
- › 5.6 Reflecting on Performance and Feedback in Moot Court Exercises

• 1 Unit 1 — Library Classification — Dewey, Colon Classification — 6 classes

- › 1.1 Explore the Fundamentals of Library Classification
- › 1.2 Understand the Dewey Decimal System: Key Principles
- › 1.3 Analyze the Structure of Dewey Decimal Numbers
- › 1.4 Introduce Colon Classification: Basic Concepts
- › 1.5 Compare and Contrast Dewey and Colon Classification Systems
- › 1.6 Apply Classification Techniques to Organize a Mini Library

• 2 Unit 2 — Cataloguing — AACR2, MARC Records and OPAC — 6 classes

- › 2.1 Understand the Principles of AACR2 in Cataloguing
- › 2.2 Explore the Components of MARC Records
- › 2.3 Analyze the Structure and Function of an OPAC
- › 2.4 Apply AACR2 Standards to Create Sample Catalog Records
- › 2.5 Evaluate the Accuracy of MARC Records in a Library Database
- › 2.6 Design an OPAC Search Strategy for Specific Information Needs

• 3 Unit 3 — Information Retrieval — Databases, Search Engines — 6 classes

- › 3.1 Understanding Databases: Types and Structures
- › 3.2 Exploring Search Engines: How They Work
- › 3.3 Constructing Effective Search Queries
- › 3.4 Evaluating Information Sources: Credibility and Accuracy
- › 3.5 Utilizing Advanced Search Techniques
- › 3.6 Practical Application: Conducting a Research Task Using Databases

• 4 Unit 4 — Digital Libraries — E-Resources and Knowledge Portals — 6 classes

- › 4.1 Explore the Definition and Importance of Digital Libraries
- › 4.2 Identify Key E-Resources Used in Digital Libraries
- › 4.3 Analyze Different Types of Knowledge Portals
- › 4.4 Evaluate the Benefits and Challenges of Digital Libraries
- › 4.5 Demonstrate How to Access and Navigate E-Resources
- › 4.6 Create a Personal Knowledge Portal Using Available E-Resources

• 5 Unit 5 — Library Digitisation Project — 6 classes

- › 5.1 Understand the Importance of Library Digitisation
- › 5.2 Explore Digitisation Technologies and Tools
- › 5.3 Identify Steps in Planning a Digitisation Project
- › 5.4 Assess Metadata Standards for Digital Libraries
- › 5.5 Implementing Quality Control in Digitisation Processes
- › 5.6 Present and Evaluate a Sample Digitisation Project

• 1 Unit 1 — Supply Chain Management — Procurement to Delivery

— 6 classes

- › 1.1 Identify Key Components of Supply Chain Management
- › 1.2 Understand the Procurement Process and its Importance
- › 1.3 Explore Supplier Relationship Management Strategies
- › 1.4 Analyze Inventory Management Techniques in Supply Chains
- › 1.5 Evaluate Logistics Strategies for Efficient Delivery
- › 1.6 Apply Supply Chain Concepts to a Real-World Scenario

• 2 Unit 2 — Warehousing Operations — Layout, Handling and Inventory

— 6 classes

- › 2.1 Analyze Warehouse Layout Designs for Efficiency
- › 2.2 Explore Different Material Handling Techniques
- › 2.3 Identify Key Inventory Management Strategies
- › 2.4 Evaluate the Impact of Technology on Warehouse Operations
- › 2.5 Implement Best Practices for Inventory Control
- › 2.6 Design a Warehouse Workflow for Optimal Performance

• 3 Unit 3 — Transportation and Logistics — Modes and Route Planning

— 6 classes

- › 3.1 Identify Different Modes of Transportation in Logistics
- › 3.2 Analyze Advantages and Disadvantages of Each Transportation Mode
- › 3.3 Understand Key Concepts in Route Planning
- › 3.4 Utilize Technology for Efficient Route Optimization
- › 3.5 Assess Real-World Case Studies of Logistics Route Planning
- › 3.6 Design a Transportation Plan for a Supply Chain Scenario

• 4 Unit 4 — Freight Documentation — Bill of Lading, Airway Bill — 6

classes

- › 4.1 Understand the Purpose of Freight Documentation
- › 4.2 Explore the Components of a Bill of Lading
- › 4.3 Analyze Different Types of Bills of Lading
- › 4.4 Examine the Structure and Uses of an Airway Bill
- › 4.5 Compare and Contrast Bill of Lading and Airway Bill
- › 4.6 Apply Knowledge by Creating Sample Freight Documents

• 5 Unit 5 — Supply Chain Project — Map and Optimise a Process —

6 classes

- › 5.1 Identify Key Components of a Supply Chain
- › 5.2 Map the Current Supply Chain Process
- › 5.3 Analyze Inefficiencies in the Supply Chain
- › 5.4 Develop Optimization Strategies for the Supply Chain
- › 5.5 Create a Visual Representation of an Optimized Supply Chain
- › 5.6 Present and Evaluate the Optimized Supply Chain Process

• 1 Unit 1 — Advanced Marketing Strategy and 4Ps/7Ps — 6 classes

- › 1.1 Analyze the Foundations of Advanced Marketing Strategy
- › 1.2 Explore the 4Ps of Marketing: Product, Price, Place, Promotion
- › 1.3 Examine the Expanded 7Ps Framework in Marketing
- › 1.4 Evaluate Market Segmentation and Targeting Strategies
- › 1.5 Design a Marketing Mix for a New Product Launch
- › 1.6 Implement KPI Measurement for Marketing Strategy Success

• 2 Unit 2 — Digital Marketing — SEO, SEM, Social Media and Analytics

— 6 classes

- › 2.1 Understand the Basics of SEO and Its Importance in Digital Marketing
- › 2.2 Explore Key On-Page SEO Techniques for Enhanced Visibility
- › 2.3 Analyze Off-Page SEO Strategies and Their Impact on Rankings
- › 2.4 Discover Effective SEM Campaigns: Google Ads Basics
- › 2.5 Leverage Social Media Platforms for Targeted Marketing
- › 2.6 Utilize Analytics Tools to Measure and Optimize Digital Marketing Efforts

• 3 Unit 3 — Brand Management — Identity, Equity and Repositioning

— 6 classes

- › 3.1 Explore Brand Identity: Understanding Key Components
- › 3.2 Assessing Brand Equity: Measuring Value and Perception
- › 3.3 Analyze Successful Brand Repositioning Strategies
- › 3.4 Develop a Brand Identity Profile for a Product
- › 3.5 Create a Brand Equity Measurement Framework
- › 3.6 Design a Brand Repositioning Plan for a Real-World Brand

• 4 Unit 4 — Sales Analytics, CRM and Performance Metrics — 6

classes

- › 4.1 Understand Sales Analytics Fundamentals
- › 4.2 Explore Key Performance Metrics in Sales
- › 4.3 Analyze Data for Effective Customer Relationship Management (CRM)
- › 4.4 Implement CRM Tools for Sales Optimization
- › 4.5 Evaluate Sales Performance Using Analytics
- › 4.6 Apply Sales Analytics to Real-World Scenarios

• 5 Unit 5 — Marketing Campaign Project — Plan and Execute — 6

classes

- › 5.1 Define Your Marketing Campaign Objectives
- › 5.2 Conduct Market Research to Identify Target Audience
- › 5.3 Develop Creative Concepts for Your Marketing Campaign
- › 5.4 Choose the Right Marketing Channels for Execution
- › 5.5 Create a Timeline and Budget for Your Campaign
- › 5.6 Evaluate Campaign Performance and Gather Feedback

• 1 Unit 1 — Media Theory — Mass Communication Models — 6

classes

- › 1.1 Identify Key Concepts in Mass Communication Models
- › 1.2 Explore Linear Communication Models and Their Applications
- › 1.3 Analyze Interactive Communication Models in Modern Media
- › 1.4 Evaluate the Role of Audience in Mass Communication Models
- › 1.5 Compare and Contrast Traditional and Digital Media Models
- › 1.6 Create a Multimedia Presentation of a Selected Mass Communication Model

• 2 Unit 2 — Print Journalism — Reporting, Writing and Editing — 6

classes

- › 2.1 Identify the Key Elements of News Reporting
- › 2.2 Analyze Various Types of News Articles
- › 2.3 Develop Strong Interviewing Techniques for Journalists
- › 2.4 Practice Writing Clear and Concise News Leads
- › 2.5 Explore the Editing Process: From First Draft to Final Copy
- › 2.6 Evaluate Ethical Considerations in Print Journalism

• 3 Unit 3 — Broadcast Media — Radio, TV Production Basics — 6

classes

- › 3.1 Explore the History and Evolution of Radio Broadcast
- › 3.2 Understand the Components of a Radio Studio
- › 3.3 Identify Key Roles in Radio Production
- › 3.4 Analyze the Fundamentals of Television Production
- › 3.5 Create a Basic Script for a Radio or TV Segment
- › 3.6 Present and Evaluate a Short Radio or TV Production

• 4 Unit 4 — Digital Media — Blogging, Podcasting, Social Journalism — 6 classes

- › 4.1 Explore the Evolution of Digital Media: From Blogs to Podcasts
- › 4.2 Identify Key Features and Functions of Blogging Platforms
- › 4.3 Develop Engaging Content: Writing for Blogs and Podcasts
- › 4.4 Investigate the Role of Social Journalism in Modern Reporting
- › 4.5 Create a Podcast Episode: Planning and Recording Techniques
- › 4.6 Analyze the Impact of Social Media on Digital Journalism

• 5 Unit 5 — Media Project — Produce a News Package or Feature —

6 classes

- › 5.1 Identify Key Components of a News Package
- › 5.2 Research Current News Stories for Relevance
- › 5.3 Develop a Story Outline and Script Structure
- › 5.4 Select and Utilize Appropriate Media Tools
- › 5.5 Create a Visual and Audio Storyboard
- › 5.6 Present and Critique Your News Package

• 1 Unit 1 — Advanced HTML5 and CSS3 — Responsive Web Design

— 6 classes

- › 1.1 Understand the Fundamentals of Responsive Web Design
- › 1.2 Explore Flexible Layouts Using CSS Grid
- › 1.3 Implement Media Queries for Dynamic Content Adaptation
- › 1.4 Optimize Images for Responsive Design
- › 1.5 Create a Responsive Navigation Menu with HTML5 and CSS3
- › 1.6 Test and Troubleshoot Responsive Design Across Devices

• 2 Unit 2 — JavaScript Fundamentals — DOM, Events, AJAX — 6

classes

- › 2.1 Explore the Document Object Model (DOM) Structure
- › 2.2 Manipulate DOM Elements with JavaScript
- › 2.3 Implement Event Handling in JavaScript
- › 2.4 Create Interactive Web Pages Using Events
- › 2.5 Understand AJAX and Its Role in Web Development
- › 2.6 Build a Simple AJAX Application to Fetch Data

• 3 Unit 3 — Web Design Tools — Figma, Adobe XD, Wireframing — 6

classes

- › 3.1 Explore Figma Interface and Tools
- › 3.2 Create a Basic Layout in Figma
- › 3.3 Introduction to Adobe XD Features
- › 3.4 Design a Simple User Interface in Adobe XD
- › 3.5 Understanding Wireframing Principles
- › 3.6 Develop a Wireframe for a Website Prototype

• 4 Unit 4 — Multimedia Content — Infographics, Video, Animation —

6 classes

- › 4.1 Explore the Elements of Effective Infographics
- › 4.2 Design Compelling Infographics using Data Visualization Tools
- › 4.3 Understand the Principles of Video Production
- › 4.4 Create Engaging Video Content with Basic Editing Techniques
- › 4.5 Discover Animation Techniques for Multimedia Presentations
- › 4.6 Integrate Infographics, Video, and Animation into a Cohesive Project

• 5 Unit 5 — Web Project — Design and Deploy a Multi-Page Site — 6

classes

- › 5.1 Analyze the Purpose and Goals of a Multi-Page Website
- › 5.2 Create a Sitemap to Organize Site Structure
- › 5.3 Design Wireframes for Key Web Pages
- › 5.4 Develop Page Layouts Using HTML and CSS
- › 5.5 Integrate Multimedia Elements for Enhanced User Experience
- › 5.6 Deploy the Multi-Page Site and Test Functionality

• 1 Unit 1 — Exercise Physiology — Cardio, Strength, Flexibility — 6

classes

- › 1.1 Explore the Basics of Cardiovascular Exercise
- › 1.2 Understand the Anatomy of Strength Training
- › 1.3 Investigate the Benefits of Flexibility in Fitness
- › 1.4 Apply Cardiovascular Principles in Workout Design
- › 1.5 Create a Strength Training Plan for Beginners
- › 1.6 Develop a Flexibility Routine for Improved Performance

• 2 Unit 2 — Sports Nutrition — Macros, Hydration and Supplements — 6 classes

- › 2.1 Identify Key Macronutrients and Their Functions in Athletic Performance
- › 2.2 Analyze Daily Macronutrient Needs for Different Types of Athletes
- › 2.3 Explore Hydration Strategies for Optimal Performance and Recovery
- › 2.4 Evaluate the Impact of Dehydration on Physical Performance
- › 2.5 Investigate Common Sports Supplements and Their Benefits and Risks
- › 2.6 Create a Personalized Nutrition and Hydration Plan for Athletes

• 3 Unit 3 — Coaching Methodology — Planning and Periodisation — 6 classes

- › 3.1 Define Coaching Methodology and Its Importance in Physical Training
- › 3.2 Explore Key Concepts of Planning in Coaching Methodology
- › 3.3 Identify Different Models of Periodisation in Training
- › 3.4 Develop a Weekly Training Plan Incorporating Periodisation Principles
- › 3.5 Evaluate the Impact of Various Coaching Methodologies on Athlete Performance
- › 3.6 Apply Coaching Methodologies to Create a Tailored Training Session

• 4 Unit 4 — Fitness Assessment — VO2 Max, BMI, Flexibility Tests — 6 classes

- › 4.1 Understand VO2 Max: Definition and Importance
- › 4.2 Measure VO2 Max: Techniques and Equipment
- › 4.3 Calculate and Interpret BMI: Understanding Body Composition
- › 4.4 Explore Flexibility: Benefits and Key Exercises
- › 4.5 Administer Flexibility Tests: Methods and Assessment
- › 4.6 Create Personalized Fitness Assessment Plans

• 5 Unit 5 — Personal Training Portfolio and Assessment Plan — 6 classes

- › 5.1 Define Personal Training Goals for Clients
- › 5.2 Create Nutritional Guidelines for Personal Training
- › 5.3 Design a Comprehensive Fitness Assessment Plan
- › 5.4 Develop Tailored Personal Training Programmes
- › 5.5 Implement Strategies for Client Motivation and Retention
- › 5.6 Evaluate and Adjust Personal Training Plans Based on Feedback

• 1 Unit 1 — Python Programming — OOP, Modules and Libraries — 6 classes

- › 1.1 Understand Object-Oriented Programming Concepts in Python
- › 1.2 Create Classes and Objects in Python
- › 1.3 Implement Inheritance and Polymorphism in Python
- › 1.4 Explore Python Modules: Importing and Utilizing Libraries
- › 1.5 Develop a Simple Project Using Custom Modules
- › 1.6 Apply Data Visualization Techniques with Python Libraries

• 2 Unit 2 — Data Structures — Lists, Dicts, DataFrames (pandas) — 6 classes

- › 2.1 Understand the Basics of Lists in Python
- › 2.2 Manipulate Lists: Adding, Removing, and Sorting Elements
- › 2.3 Introduction to Dictionaries: Key-Value Pairs in Python
- › 2.4 Explore and Modify Dictionaries: Accessing and Updating Values
- › 2.5 Introduction to DataFrames using pandas Library
- › 2.6 Data Analysis with DataFrames: Filtering and Visualizing Data

• 3 Unit 3 — Data Visualisation — Matplotlib, Seaborn, Plotly — 6 classes

- › 3.1 Understand the Basics of Data Visualization with Matplotlib
- › 3.2 Create Your First Line Plot Using Matplotlib
- › 3.3 Explore Data Distribution with Seaborn's Histogram and Box Plot
- › 3.4 Enhance Visual Appeal with Seaborn Themes and Color Palettes
- › 3.5 Build Interactive Visualizations Using Plotly
- › 3.6 Apply Data Visualization Techniques to Real-World Data Sets

• 4 Unit 4 — Statistical Analysis and Hypothesis Testing in Python — 6 classes

- › 4.1 Understand Key Statistical Concepts in Python
- › 4.2 Explore Descriptive Statistics Using Python Libraries
- › 4.3 Visualize Data Distributions with Histograms and Boxplots
- › 4.4 Formulate Hypotheses for Statistical Testing
- › 4.5 Conduct Hypothesis Tests Using SciPy in Python
- › 4.6 Interpret and Report Statistical Findings Effectively

• 5 Unit 5 — Data Visualisation Project — Dashboard and Storytelling — 6 classes

- › 5.1 Understand the Principles of Effective Data Visualization
- › 5.2 Explore Python Libraries for Data Visualization
- › 5.3 Design an Interactive Dashboard Layout
- › 5.4 Implement Data Source Connections in Python
- › 5.5 Craft a Narrative Using Visual Storytelling Techniques
- › 5.6 Present and Evaluate Your Data Visualization Project

• 1 Unit 1 — Retail Strategy — Formats, Positioning and Value Proposition — 6 classes

- › 1.1 Define Retail Formats and Their Importance
- › 1.2 Analyze Different Retail Positioning Strategies
- › 1.3 Explore the Concept of Value Proposition in Retail
- › 1.4 Evaluate the Impact of Retail Formats on Customer Experience
- › 1.5 Develop a Retail Positioning Statement for a Sample Brand
- › 1.6 Create a Value Proposition Canvas for a Chosen Retail Format

• 2 Unit 2 — Merchandise Planning and Category Management — 6 classes

- › 2.1 Define Merchandise Planning and Its Importance in Retail
- › 2.2 Identify Key Components of Category Management
- › 2.3 Analyze Merchandise Planning Techniques and Strategies
- › 2.4 Explore Consumer Behavior and Its Impact on Category Management
- › 2.5 Develop a Merchandise Plan for a Retail Store Scenario
- › 2.6 Evaluate the Success of Category Management Initiatives

• 3 Unit 3 — Supply Chain in Retail — Vendors, DC and Last Mile — 6 classes

- › 3.1 Identify Key Components of the Retail Supply Chain
- › 3.2 Analyze the Role of Vendors in Supply Chain Management
- › 3.3 Explore Distribution Centres: Functions and Importance
- › 3.4 Understand Last Mile Delivery Challenges and Solutions
- › 3.5 Evaluate Supply Chain Strategies for Retail Efficiency
- › 3.6 Implement a Basic Supply Chain Model for a Retail Scenario

• 4 Unit 4 — E-commerce and Omnichannel Retail Strategies — 6 classes

- › 4.1 Define E-commerce and Its Importance in Retail
- › 4.2 Explore Key Components of Omnichannel Retail Strategies
- › 4.3 Analyze Customer Journey in E-commerce Experiences
- › 4.4 Examine Technology's Role in Enhancing Omnichannel Retail
- › 4.5 Implement Best Practices for E-commerce Website Design
- › 4.6 Develop a Strategic Plan for Integrating Omnichannel Retail

• 5 Unit 5 — Retail Business Plan and Analytics Project — 6 classes

- › 5.1 Analyze Market Trends for Your Retail Business Plan
- › 5.2 Identify Target Customer Segments for Retail Success
- › 5.3 Develop Financial Projections for Retail Operations
- › 5.4 Create a Marketing Strategy to Attract Customers
- › 5.5 Outline Key Performance Indicators for Retail Analytics
- › 5.6 Present and Evaluate Your Retail Business Plan Effectively

• 1 Unit 1 — Agripreneurship — Starting a Farm-Based Enterprise — 6 classes

- › 1.1 Identify Market Opportunities for Farm-Based Enterprises
- › 1.2 Assess Resources and Inputs Needed for Starting a Farm
- › 1.3 Develop a Business Plan for a Farm-Based Startup
- › 1.4 Explore Sustainable Agricultural Practices in Agripreneurship
- › 1.5 Evaluate Financial Management Strategies for Farm Operations
- › 1.6 Implement Marketing Techniques for Farm Products

• 2 Unit 2 — Rural Markets — Value Chains, FPOs and Cooperatives — 6 classes

- › 2.1 Analyze the Importance of Rural Markets in Agricultural Innovation
- › 2.2 Identify Key Components of Value Chains in Agriculture
- › 2.3 Explore the Role of Farmer Producer Organizations (FPOs) in Rural Development
- › 2.4 Evaluate the Benefits of Cooperatives for Smallholder Farmers
- › 2.5 Assess the Challenges Faced by FPOs and Cooperatives in Rural Markets
- › 2.6 Design a Value Chain Strategy for a Local Agricultural Product

• 3 Unit 3 — Organic Farming — Certification, Methods and Marketing — 6 classes

- › 3.1 Explore the Principles of Organic Farming
- › 3.2 Identify Certification Standards for Organic Products
- › 3.3 Investigate Sustainable Organic Farming Methods
- › 3.4 Demonstrate Organic Pest Management Techniques
- › 3.5 Analyze the Market Trends for Organic Products
- › 3.6 Develop a Marketing Plan for Organic Produce

• 4 Unit 4 — Government Agricultural Schemes — PM-KISAN, eNAM, MNREGA — 6 classes

- › 4.1 Explore the Objectives of PM-KISAN Scheme
- › 4.2 Analyze the Benefits of the eNAM Platform
- › 4.3 Investigate MNREGA's Role in Rural Employment
- › 4.4 Compare the Impact of PM-KISAN and MNREGA on Farmers
- › 4.5 Demonstrate How to Register on eNAM for Farmers
- › 4.6 Propose Improvements for Government Agricultural Schemes

• 5 Unit 5 — Rural Innovation Project — Idea to Prototype — 6 classes

- › 5.1 Identify and Explore Rural Challenges for Innovation
- › 5.2 Brainstorm Innovative Solutions for Agricultural Issues
- › 5.3 Research and Validate Ideas with Stakeholder Input
- › 5.4 Develop a Clear Prototype Plan and Design
- › 5.5 Create a Functional Prototype for Agricultural Innovation
- › 5.6 Present and Evaluate Your Prototype in Real-World Context

• 1 Unit 1 — Advanced Shorthand — Pitman/Gregg Speed Practice —

6 classes

- › 1.1 Mastering Basic Pitman Strokes
- › 1.2 Advanced Gregg Symbols Recognition
- › 1.3 Speed Drills for Pitman Shorthand
- › 1.4 Gregg Shorthand Practice Sentences
- › 1.5 Real-time Dictation Exercises
- › 1.6 Assessing and Improving Shorthand Speed

• 2 Unit 2 — Advanced Typing — Speed, Accuracy and Special Characters —

6 classes

- › 2.1 Enhance Typing Speed through Timed Drills
- › 2.2 Master Accuracy Techniques for Typing
- › 2.3 Identify and Use Special Characters Effectively
- › 2.4 Implement Touch Typing Strategies for Efficiency
- › 2.5 Analyze Common Typing Errors and How to Avoid Them
- › 2.6 Evaluate Personal Progress in Speed and Accuracy

• 3 Unit 3 — Office Automation — MS Office Advanced and Google Workspace —

6 classes

- › 3.1 Explore Advanced Features of MS Word for Document Formatting
- › 3.2 Utilize Excel for Data Analysis and Visualization Techniques
- › 3.3 Create Professional Presentations Using Advanced PowerPoint Tools
- › 3.4 Implement Google Docs Collaboration Tools for Team Projects
- › 3.5 Organize and Manage Tasks with Google Workspace Applications
- › 3.6 Integrate MS Office and Google Workspace for Enhanced Office Productivity

• 4 Unit 4 — Secretarial Practices — Minutes, Agenda, Office Management —

6 classes

- › 4.1 Identify Key Elements in Meeting Agendas
- › 4.2 Draft Effective Meeting Agendas
- › 4.3 Understand the Importance of Meeting Minutes
- › 4.4 Record Accurate Meeting Minutes
- › 4.5 Review and Revise Meeting Minutes
- › 4.6 Implement Efficient Office Management Techniques

• 5 Unit 5 — Stenography and Office Administration Project —

6 classes

- › 5.1 Overview of Stenography Techniques and Tools
- › 5.2 Mastering Shorthand Symbols and Their Applications
- › 5.3 Practicing Stenographic Notation Through Exercises
- › 5.4 Integrating Stenography with Office Administration Tasks
- › 5.5 Developing Effective Document Formatting Skills
- › 5.6 Creating and Presenting a Stenography Project

• 1 Unit 1 — Tourism Management — Planning, Operations and Policy —

6 classes

- › 1.1 Define Key Concepts in Tourism Management
- › 1.2 Analyze the Components of a Successful Tourism Plan
- › 1.3 Explore the Role of Stakeholders in Tourism Operations
- › 1.4 Assess Local and Global Trends Impacting Tourism Policy
- › 1.5 Develop Strategies for Effective Tourism Marketing
- › 1.6 Create an Action Plan for Sustainable Tourism Practices

• 2 Unit 2 — Hospitality Operations — Front Office, F&B, Housekeeping —

6 classes

- › 2.1 Understand Front Office Operations and Guest Services
- › 2.2 Explore Food and Beverage Service Techniques
- › 2.3 Identify Key Roles in Housekeeping Management
- › 2.4 Analyze Customer Service Standards in Hospitality
- › 2.5 Evaluate Health and Safety Regulations in Hotels
- › 2.6 Apply Front Office Software for Booking Management

• 3 Unit 3 — Event Management — Conferences, MICE and Weddings —

6 classes

- › 3.1 Identify Key Components of Conference Planning
- › 3.2 Explore MICE Industry Trends and Opportunities
- › 3.3 Analyze the Role of Technology in Event Management
- › 3.4 Develop a Budget for a Successful Event
- › 3.5 Create a Timeline for Wedding Planning
- › 3.6 Evaluate Case Studies of Successful MICE Events

• 4 Unit 4 — Tourism Marketing and Digital Promotion —

6 classes

- › 4.1 Analyze Target Audiences for Tourism Marketing
- › 4.2 Explore Digital Marketing Channels in Tourism
- › 4.3 Create Compelling Marketing Messages for Tourist Attractions
- › 4.4 Implement Social Media Strategies for Destination Promotion
- › 4.5 Assess the Impact of User-Generated Content on Tourism
- › 4.6 Develop a Digital Marketing Campaign for a Local Tourism Initiative

• 5 Unit 5 — Tourism and Hospitality Project — Event Plan —

6 classes

- › 5.1 Define Event Objectives and Target Audience
- › 5.2 Research and Select Event Venue Criteria
- › 5.3 Develop a Detailed Event Budget and Funding Sources
- › 5.4 Create a Comprehensive Event Schedule and Timeline
- › 5.5 Design and Implement Marketing Strategies for the Event
- › 5.6 Evaluate Event Success and Gather Feedback for Future Improvements

• 1 Unit 1 — Travel Agency Operations — IATA, GDS and Ticketing —

6 classes

- › 1.1 Understand the Role of Travel Agencies in Modern Tourism
- › 1.2 Explore the IATA Structure and Its Significance
- › 1.3 Learn About Global Distribution Systems (GDS) in Travel
- › 1.4 Navigate Different GDS Platforms Used by Travel Agencies
- › 1.5 Master Ticketing Processes and Regulations in Travel
- › 1.6 Apply GDS Tools to Create a Sample Travel Itinerary

• 2 Unit 2 — Tour Packaging — FIT, GIT and Specialty Tours —

6 classes

- › 2.1 Define and Differentiate Between FIT and GIT Tours
- › 2.2 Explore the Key Components of Tour Packages
- › 2.3 Identify the Benefits of Specialty Tours for Diverse Travelers
- › 2.4 Analyze Customer Preferences in Tour Packaging
- › 2.5 Develop a Sample Itinerary for a Specialty Tour
- › 2.6 Present and Market a Customized Tour Package Effectively

• 3 Unit 3 — Destination Management — Geography and Visa Procedures —

6 classes

- › 3.1 Identify Key Geographic Features of Popular Travel Destinations
- › 3.2 Explore Cultural and Historical Significance of Selected Destinations
- › 3.3 Examine the Role of Climate in Destination Selection
- › 3.4 Understand Visa Requirements for International Travel
- › 3.5 Analyze Case Studies of Visa Application Processes
- › 3.6 Create a Destination Management Plan Incorporating Geography and Visa Considerations

• 4 Unit 4 — Customer Relationship Management in Travel —

6 classes

- › 4.1 Understand the Importance of Customer Relationship Management in Travel
- › 4.2 Identify Key Components of Effective Customer Relationship Strategies
- › 4.3 Explore Tools and Technologies for Managing Customer Relationships
- › 4.4 Analyze Customer Feedback and Its Role in Service Improvement
- › 4.5 Develop Customer Segmentation Techniques for Targeted Marketing
- › 4.6 Create an Action Plan for Enhancing Customer Relationships in Travel

• 5 Unit 5 — Travel Agency Simulation — Book, Package and Sell —

6 classes

- › 5.1 Identify Tourist Demographics and Preferences
- › 5.2 Research and Select Travel Destinations
- › 5.3 Create Attractive Travel Packages
- › 5.4 Develop Essential Booking Procedures
- › 5.5 Implement Effective Sales Techniques
- › 5.6 Simulate Real-World Travel Agency Operations

• 1 Unit 1 — Frontend Development — HTML, CSS, JavaScript (Advanced) —

6 classes

- › 1.1 Structure a Web Page with Semantic HTML Elements
- › 1.2 Style Web Pages Using Advanced CSS Techniques
- › 1.3 Implement Responsive Design with CSS Grid and Flexbox
- › 1.4 Enhance User Experience with CSS Animations and Transitions
- › 1.5 Add Interactivity Using JavaScript Events and Functions
- › 1.6 Create a Dynamic Web Application Using APIs and JavaScript

• 2 Unit 2 — Backend Basics — PHP/Python and MySQL Integration —

6 classes

- › 2.1 Understand PHP and Python: Key Differences and Use Cases
- › 2.2 Setting Up the Development Environment for PHP and MySQL
- › 2.3 Exploring Python with MySQL: Introduction to Libraries and Drivers
- › 2.4 Connecting PHP to MySQL: Writing Your First Database Query
- › 2.5 Building a Simple Web Application: CRUD Operations with Python and MySQL
- › 2.6 Debugging and Troubleshooting: Common Issues in PHP/Python and MySQL Integration

• 3 Unit 3 — React or Vue Introduction — Components and State —

6 classes

- › 3.1 Explore the Basics of React and Vue Frameworks
- › 3.2 Identify the Structure and Purpose of Components
- › 3.3 Create Your First Component in React
- › 3.4 Develop a Simple Vue Component
- › 3.5 Understand State Management in React
- › 3.6 Implement State Features in Vue Applications

• 4 Unit 4 — Database Design — ER Diagrams, Normalisation, Queries —

6 classes

- › 4.1 Identify Components of ER Diagrams
- › 4.2 Construct Basic ER Diagrams from Requirements
- › 4.3 Apply Normalisation Principles to Database Designs
- › 4.4 Transform ER Diagrams into Relational Schemas
- › 4.5 Formulate SQL Queries for Data Retrieval
- › 4.6 Evaluate Query Performance and Optimisation Strategies

• 5 Unit 5 — Full-Stack Web Application Project — Build and Deploy —

6 classes

- › 5.1 Identify Key Components of a Full-Stack Application
- › 5.2 Design User Interface Wireframes for Web Applications
- › 5.3 Develop Back-End Functionality Using Node.js
- › 5.4 Implement Front-End Features with HTML, CSS, and JavaScript
- › 5.5 Connect Front-End and Back-End with RESTful APIs
- › 5.6 Deploy a Full-Stack Application to Cloud Platforms

• 1 Unit 1 — Advanced Yoga Asanas — Backbends, Inversions, Twists — 6 classes

- › 1.1 Explore the Basics of Backbends
- › 1.2 Mastering Key Backbend Asanas
- › 1.3 Introduction to Inversions: Finding Your Balance
- › 1.4 Practicing Inversion Techniques Safely
- › 1.5 Understanding and Executing Twists
- › 1.6 Combining Asanas: Creating a Backbend and Inversion Flow

• 2 Unit 2 — Therapeutic Yoga — Managing Stress, Diabetes, Back Pain — 6 classes

- › 2.1 Understand the Connection Between Stress and Physical Health
- › 2.2 Explore Breathing Techniques for Stress Management
- › 2.3 Analyze Yoga Poses that Alleviate Back Pain
- › 2.4 Learn Dietary Practices to Manage Diabetes
- › 2.5 Develop a Personalized Therapeutic Yoga Routine
- › 2.6 Evaluate the Impact of Therapeutic Yoga on Well-being

• 3 Unit 3 — Pranayama Mastery — Kapalbhathi, Anulom Vilom, Bhramari — 6 classes

- › 3.1 Understand the Basics of Pranayama and Its Benefits
- › 3.2 Learn the Steps and Techniques of Kapalbhathi
- › 3.3 Practice Kapalbhathi: Rhythm and Breath Control
- › 3.4 Explore Anulom Vilom: Foundation and Methodology
- › 3.5 Engage in Guided Anulom Vilom Practice for Balance
- › 3.6 Integrate Bhramari for Stress Relief and Relaxation

• 4 Unit 4 — Yoga Philosophy — Patanjali, Hatha and Nidra — 6 classes

- › 4.1 Explore the Philosophy of Patanjali's Yoga Sutras
- › 4.2 Understand the Eight Limbs of Yoga
- › 4.3 Examine Hatha Yoga: History and Physical Practices
- › 4.4 Analyze the Benefits of Hatha Yoga for Mind and Body
- › 4.5 Discover the Principles and Techniques of Yoga Nidra
- › 4.6 Apply Yoga Philosophy to Daily Life and Wellness Practices

• 5 Unit 5 — Yoga Instructor Basics — Class Structuring and Cueing — 6 classes

- › 5.1 Define the Role of a Yoga Instructor in Class Structuring
- › 5.2 Identify Essential Components of a Yoga Class Plan
- › 5.3 Develop Effective Warm-Up Sequences for Yoga Classes
- › 5.4 Practice Clear and Effective Cueing Techniques
- › 5.5 Create a Balanced Yoga Class Flow with Asanas
- › 5.6 Evaluate and Adapt Class Structures Based on Student Needs