

## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

#### **1. Certificate Program on Ethical Hacking**

**AURORA'S PG COLLEGE (MBA)**  
Peerzadiguda , Uppal, Hyderabad-500092



**Certificate Program on Ethical Hacking**  
Organized by Department of Computer Applications

Duration: 05.02.2024 to 17.02.2024

**Time Table**


Day	Time	Session	Topic
05.02.2024	02:00 PM – 03:00 PM	1	Module 1: Introduction to Ethical Hacking and Penetration Testing Understand the concepts, goals, and scope of ethical hacking and penetration testing.
	03:00 PM – 04:00 PM	2	Explore the ethical and legal considerations involved in these practices
	04:00 PM – 05:00 PM	3	Overview of the various types of hacking and their implications
06.02.2024	02:00 PM – 03:00 PM	4	Module 2: Setting Up a Penetration Testing Environment Learn how to set up a secure and controlled environment for penetration testing.
	03:00 PM – 04:00 PM	5	Install and configure essential penetration testing tools and software.
	04:00 PM – 05:00 PM	6	Establish best practices for maintaining a secure testing environment.
07.02.2024	02:00 PM – 03:00 PM	7	Module 3: Information Gathering and Reconnaissance Master techniques for gathering information about targets, including footprinting and scanning.
	03:00 PM – 04:00 PM	8	Utilize tools and methods for network mapping, enumeration, and identifying potential vulnerabilities.
	04:00 PM – 05:00 PM	9	Analyze gathered data to plan further testing activities.
08.02.2024	02:00 PM – 03:00 PM	10	Module 4: Vulnerability Assessment Understand the process of identifying and assessing vulnerabilities in systems and applications.
	03:00 PM – 04:00 PM	11	Use vulnerability scanning tools to detect potential security issues.
	04:00 PM – 05:00 PM	12	Interpret vulnerability scan results and prioritize remediation efforts.
09.02.2024	02:00 PM – 03:00 PM	13	Module 5: Exploitation Techniques Learn various exploitation techniques to gain unauthorized access to systems.
	03:00 PM – 04:00 PM	14	Practice using tools and scripts to exploit vulnerabilities in a controlled environment.
	04:00 PM – 05:00 PM	15	Understand how to document and report exploitation methods and their impact.


  
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12.02.2024	02:00 PM – 03:00 PM	16	Module 6: Post-Exploitation and Persistence Explore techniques for maintaining access and escalating privileges after initial exploitation.
	03:00 PM – 04:00 PM	17	Understand methods for covering tracks and avoiding detection.
	04:00 PM – 05:00 PM	18	Implement strategies for persistence and lateral movement within a compromised environment.
13.02.2024	02:00 PM – 03:00 PM	19	Module 7: Web Application Security Testing Learn the specific techniques for assessing the security of web applications.
	03:00 PM – 04:00 PM	20	Identify common web application vulnerabilities such as SQL injection, XSS, and CSRF.
	04:00 PM – 05:00 PM	21	Use tools and methodologies for web application penetration testing.
14.02.2024	02:00 PM – 03:00 PM	22	Module 8: Network Security and Wireless Testing Understand network security principles and common network vulnerabilities.
	03:00 PM – 04:00 PM	23	Perform network penetration testing and analyze network traffic for security weaknesses.
	04:00 PM – 05:00 PM	24	Test wireless networks for security issues and implement protective measures.
15.02.2024	02:00 PM – 03:00 PM	25	Module 9: Reporting and Documentation Develop skills for creating comprehensive penetration testing reports.
	03:00 PM – 04:00 PM	26	Learn to document findings, vulnerabilities, and remediation recommendations effectively.
	04:00 PM – 05:00 PM	27	Communicate results to stakeholders and provide actionable insights for improving security.
16.02.2024	02:00 PM – 03:00 PM	28	Module 10: Legal, Ethical, and Professional Issues Study the legal frameworks and ethical considerations related to ethical hacking and penetration testing.
	03:00 PM – 04:00 PM	29	Understand the responsibilities and professional conduct required in the field.
	04:00 PM – 05:00 PM	30	Explore career paths, certifications, and continuous learning opportunities in ethical hacking and cyber security.
17.02.2024	03:00 PM – 04:00 PM	31	Final Exam

  
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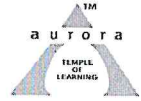
## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

## **2. Certificate Program on Financial Modeling**



**AURORA'S PG COLLEGE (MBA)**  
Peerzadiguda, Uppal, Hyderabad-500092



**Certificate Program on Financial Modeling**  
*Organized by Department of Business Administration*

Duration: 11.12.2023 to 21.12.2023

**Time Table**

Day	Time	Session	Topic
11.12.2023	02:00 PM – 03:00 PM	1	Module 1: Introduction to Financial Modeling Overview of financial modeling principles and applications
	03:00 PM – 04:00 PM	2	Key components of financial models: Inputs, calculations, outputs
	04:00 PM – 05:00 PM	3	Introduction to modeling tools and software
12.12.2023	02:00 PM – 03:00 PM	4	Module 2: Constructing Financial Statements Building and linking the Income Statement, Balance Sheet, and Cash Flow Statement
	03:00 PM – 04:00 PM	5	Understanding financial statement interrelationships
	04:00 PM – 05:00 PM	6	Ensuring accuracy and consistency in financial statements
13.12.2023	02:00 PM – 03:00 PM	7	Module 3: Revenue and Expense Forecasting Techniques for projecting revenues based on historical data and market trends
	03:00 PM – 04:00 PM	8	Methods for forecasting expenses and understanding cost structures
	04:00 PM – 05:00 PM	9	Incorporating assumptions into financial forecasts
14.12.2023	02:00 PM – 03:00 PM	10	Module 4: Valuation Models and Techniques Discounted Cash Flow (DCF) Analysis: Components and methodology
	03:00 PM – 04:00 PM	11	Comparable Company Analysis: Using market multiples for valuation
	04:00 PM – 05:00 PM	12	Precedent Transactions: Applying historical transaction data
15.12.2023	02:00 PM – 03:00 PM	13	Module 5: Scenario and Sensitivity Analysis Implementing scenario analysis to evaluate different business conditions
	03:00 PM – 04:00 PM	14	Conducting sensitivity analysis to assess the impact of changing assumptions
	04:00 PM – 05:00 PM	15	Utilizing Excel tools like data tables and Scenario Manager
16.12.2023	02:00 PM – 03:00 PM	16	Module 6: Risk Assessment and Management Identifying and assessing various financial risks
	03:00 PM – 04:00 PM	17	Incorporating risk factors into financial models
	04:00 PM – 05:00 PM	18	Techniques for stress testing and Monte Carlo simulations

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18.12.2023	02:00 PM – 03:00 PM	19	Module 7: Advanced Excel Techniques Advanced Excel functions: VLOOKUP, HLOOKUP, INDEX, MATCH, OFFSET
	03:00 PM – 04:00 PM	20	Building dynamic models with data validation and interactive features
	04:00 PM – 05:00 PM	21	Creating financial dashboards and visualizing data
19.12.2023	02:00 PM – 03:00 PM	22	Module 8: Model Structuring and Best Practices Structuring models for clarity and efficiency
	03:00 PM – 04:00 PM	23	Best practices for model design and organization
	04:00 PM – 05:00 PM	24	Documenting assumptions, formulas, and sources for transparency
20.12.2023	02:00 PM – 03:00 PM	25	Module 9: Case Studies in Financial Modeling Analyzing and building models based on real-world case studies
	03:00 PM – 04:00 PM	26	Group projects focusing on different industries and scenarios Reviewing lessons from successful and unsuccessful financial models
	04:00 PM – 05:00 PM	27	Module 10: Future Trends and Advanced Topics Emerging trends in financial modeling and technology (e.g., AI, machine learning)
21.12.2023	02:00 PM – 03:00 PM	28	Integration with ERP systems and advanced financial systems
	03:00 PM – 04:00 PM	29	Preparing for complex modeling topics such as derivative pricing and corporate financial strategy
	04:00 PM – 05:00 PM	30	Final Exam

  
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## **3. Certificate Program on Google Cloud**

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**Certificate Program on Google Cloud**  
Organized by Department of Computer Applications

Duration: 15.04.2024 to 26.04.2024

**Time Table**

Day	Time	Session	Topic
15.04.2024	02:00 PM – 03:00 PM	1	Module 1: Introduction to Google Cloud Platform Overview of Google Cloud
	03:00 PM – 04:00 PM	2	Core components and architecture
	04:00 PM – 05:00 PM	3	Navigating Google Cloud Console and CLI
16.04.2024	02:00 PM – 03:00 PM	4	Module 2: Compute Services Google Compute Engine: Virtual machines and instances
	03:00 PM – 04:00 PM	5	Google Kubernetes Engine: Managing containerized applications
	04:00 PM – 05:00 PM	6	Google App Engine: Platform-as-a-Service (PaaS) for application deployment
18.04.2024	02:00 PM – 03:00 PM	7	Module 3: Storage Solutions Google Cloud Storage: Object storage options
	03:00 PM – 04:00 PM	8	Cloud SQL and Cloud Spanner: Relational databases
	04:00 PM – 05:00 PM	9	Bigtable and Datastore: NoSQL databases
19.04.2024	02:00 PM – 03:00 PM	10	Module 4: Networking and Security Virtual Private Cloud (VPC) and networking fundamentals
	03:00 PM – 04:00 PM	11	Identity and Access Management (IAM)
	04:00 PM – 05:00 PM	12	Security best practices and compliance
20.04.2024	02:00 PM – 03:00 PM	13	Module 5: Data Analytics and Big Data Introduction to BigQuery: Data warehousing and analysis
	03:00 PM – 04:00 PM	14	Dataflow: Stream and batch processing
	04:00 PM – 05:00 PM	15	Pub/Sub: Event-driven architecture

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22.04.2024	02:00 PM – 03:00 PM	16	Module 6: Machine Learning and AI Google AI and TensorFlow integration
	03:00 PM – 04:00 PM	17	AutoML and pre-trained models
	04:00 PM – 05:00 PM	18	AI Platform: Training and deployment
23.04.2024	02:00 PM – 03:00 PM	19	Module 7: Serverless Computing Google Cloud Functions: Event-driven serverless functions
	03:00 PM – 04:00 PM	20	Cloud Run: Running containers in a serverless environment
	04:00 PM – 05:00 PM	21	App Engine: Deploying and scaling applications
24.04.2024	02:00 PM – 03:00 PM	22	Module 8: Monitoring and Management Cloud Monitoring and Logging
	03:00 PM – 04:00 PM	23	Resource management and optimization
	04:00 PM – 05:00 PM	24	Alerting and incident management
25.04.2024	02:00 PM – 03:00 PM	25	Module 9: Cost Management and Optimization Budgeting and billing
	03:00 PM – 04:00 PM	26	Cost management tools and practices
	04:00 PM – 05:00 PM	27	Optimizing resource usage and cost-saving strategies
26.04.2024	02:00 PM – 03:00 PM	28	Module 10: Preparation for Google Cloud Certification Review of key concepts and services
	03:00 PM – 04:00 PM	29	Practice exams and study resources Exam-taking strategies and tips
	04:00 PM – 05:00 PM	30	Final Exam

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## **1.2.2. Certificate/Value Added Courses**

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## **4. Certificate Program on HR Analytics**


**Certificate Program on HR Analytics**

*Organized by Department of Business Administration*

**Duration: 05.10.2020 to 16.10.2020**

**Time Table**


Day	Time	Session	Topic
05.10.2020	02:00 PM – 03:00 PM	1	Module 1: Introduction to HR Analytics Overview of HR Analytics
	03:00 PM – 04:00 PM	2	The Role and Importance of Data in HR
	04:00 PM – 05:00 PM	3	Key Concepts and Terminologies
06.10.2020	02:00 PM – 03:00 PM	4	Module 2: Data Collection and Management Sources of HR Data (Employee Records, Surveys, Performance Data)
	03:00 PM – 04:00 PM	5	Data Collection Methods and Tools
	04:00 PM – 05:00 PM	6	Data Quality, Privacy, and Security
07.10.2020	02:00 PM – 03:00 PM	7	Module 3: Descriptive Analytics in HR Techniques for Descriptive Analysis (Mean, Median, Mode, Standard Deviation)
	03:00 PM – 04:00 PM	8	Visualizing HR Data (Charts, Graphs, Dashboards) Patterns
	04:00 PM – 05:00 PM	9	Identifying and Interpreting Basic Trends and
08.10.2020	02:00 PM – 03:00 PM	10	Module 4: Predictive Analytics in HR Introduction to Predictive Analytics
	03:00 PM – 04:00 PM	11	Techniques for Predicting HR Outcomes (Regression Analysis, Forecasting)
	04:00 PM – 05:00 PM	12	Applying Predictive Models to Recruitment, Performance, and Retention
09.10.2020	02:00 PM – 03:00 PM	13	Module 5: Advanced Analytics Techniques Machine Learning and AI in HR Analytics
	03:00 PM – 04:00 PM	14	Clustering and Segmentation Techniques
	04:00 PM – 05:00 PM	15	Text Analytics and Sentiment Analysis

  
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12.10.2020	02:00 PM – 03:00 PM	16	Module 6: Recruitment Analytics Analyzing Recruitment Data and Metrics
	03:00 PM – 04:00 PM	17	Measuring Recruitment Effectiveness (Time-to-Fill, Cost-per-Hire)
	04:00 PM – 05:00 PM	18	Using Analytics to Improve Recruitment Strategies
13.10.2020	02:00 PM – 03:00 PM	19	Module 7: Performance Management Analytics Analyzing Employee Performance Data
	03:00 PM – 04:00 PM	20	Identifying Performance Trends and Insights
	04:00 PM – 05:00 PM	21	Using Analytics to Enhance Performance Management Processes
14.10.2020	02:00 PM – 03:00 PM	22	Module 8: Employee Engagement and Retention Analytics Measuring Employee Engagement and Satisfaction
	03:00 PM – 04:00 PM	23	Analyzing Turnover and Retention Data
	04:00 PM – 05:00 PM	24	Developing Strategies to Improve Employee Retention
15.10.2020	02:00 PM – 03:00 PM	25	Module 9: Workforce Planning and Analytics Forecasting Workforce Needs and Skill Gaps
	03:00 PM – 04:00 PM	26	Analyzing Workforce Trends and Utilization
	04:00 PM – 05:00 PM	27	Developing Data-Driven Workforce Planning Strategies
16.10.2020	02:00 PM – 03:00 PM	28	Module 10: Communicating HR Analytics Insights Creating Effective Reports and Dashboards
	03:00 PM – 04:00 PM	29	Presenting Data-Driven Insights to Stakeholders Using Data to Drive HR Decision-Making and Strategy
	04:00 PM – 05:00 PM	30	Final Exam

  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

## **5. Certificate Program on Human Resources**

**AURORA'S PG COLLEGE (MBA)**  
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**Certificate Program on Human Resources**

*Organized by Department of Business Administration*

**Duration: 15.03.2021 to 27.03.2021**

**Time Table**

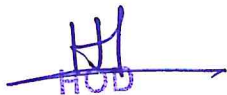
Day	Time	Session	Topic
15.03.2021	02:00 PM – 03:00 PM	1	Module 1: Introduction to Human Resources Management HR roles and responsibilities.
	03:00 PM – 04:00 PM	2	HR's strategic role in business.
	04:00 PM – 05:00 PM	3	Evolution of HR practices.
16.03.2021	02:00 PM – 03:00 PM	4	Module 2: Recruitment and Selection Recruitment strategies and sourcing candidates.
	03:00 PM – 04:00 PM	5	Selection processes and interviewing techniques.
	04:00 PM – 05:00 PM	6	On boarding and orientation programs.
17.03.2021	02:00 PM – 03:00 PM	7	Module 3: Performance Management Performance appraisal methods.
	03:00 PM – 04:00 PM	8	Setting performance goals and objectives.
	04:00 PM – 05:00 PM	9	Providing feedback and managing performance issues.
18.03.2021	02:00 PM – 03:00 PM	10	Module 4: Employee Development and Training Training needs assessment.
	03:00 PM – 04:00 PM	11	Developing and delivering training programs.
	04:00 PM – 05:00 PM	12	Career development and succession planning
19.03.2021	02:00 PM – 03:00 PM	13	Module 5: Compensation and Benefits Salary structures and pay scales.
	03:00 PM – 04:00 PM	14	Benefits administration (healthcare, retirement plans).
	04:00 PM – 05:00 PM	15	Compensation strategies and benchmarking.

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20.03.2021	02:00 PM – 03:00 PM	16	Module 6: Employment Laws and Ethics Employment laws and regulations (e.g., FMLA, ADA, EEOC).
	03:00 PM – 04:00 PM	17	Ethical considerations in HR practices.
	04:00 PM – 05:00 PM	18	Compliance and risk management.
23.03.2021	02:00 PM – 03:00 PM	19	Module 7: HR Analytics and Metrics Key HR metrics and KPIs.
	03:00 PM – 04:00 PM	20	Data collection and analysis techniques.
	04:00 PM – 05:00 PM	21	Applying analytics to improve HR practices.
24.03.2021	02:00 PM – 03:00 PM	22	Module 8: Employee Relations and Workplace Culture Conflict resolution and grievance handling.
	03:00 PM – 04:00 PM	23	Employee engagement and motivation.
	04:00 PM – 05:00 PM	24	Creating and maintaining a positive workplace culture.
25.03.2021	02:00 PM – 03:00 PM	25	Module 9: HR Policies and Procedures Policy creation and documentation.
	03:00 PM – 04:00 PM	26	Implementing and communicating HR policies.
	04:00 PM – 05:00 PM	27	Policy compliance and enforcement
26.03.2021	02:00 PM – 03:00 PM	28	Module 10: Diversity, Equity, and Inclusion (DEI) DEI principles and best practices.
	03:00 PM – 04:00 PM	29	Developing and implementing DEI programs.
	04:00 PM – 05:00 PM	30	Measuring the impact of DEI initiatives.
27.03.2021	03:00 PM – 04:00 PM	31	Final Exam

  
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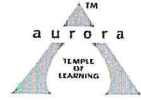
  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

## **6. Certificate Program on Leadership Development**

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**Certificate Program on Leadership Development**

*Organized by Department of Business Administration*

**Duration: 23.01.2023 to 03.02.2023**

**Time Table**

Day	Time	Session	Topic
23.01.2023	02:00 PM – 03:00 PM	1	Module 1: Introduction to Leadership Definitions and Importance of Leadership Overview of Leadership Theories (Trait, Behavioral, Transformational, Transactional)
	03:00 PM – 04:00 PM	2	Overview of Leadership Theories (Trait, Behavioral, Transformational, Transactional)
	04:00 PM – 05:00 PM	3	The Role of a Leader in Modern Organizations
24.01.2023	02:00 PM – 03:00 PM	4	Module 2: Self-Awareness and Personal Leadership Understanding Emotional Intelligence Self-Assessment Tools and Techniques (e.g., 360-Degree Feedback, MBTI) Plan
	03:00 PM – 04:00 PM	5	Self-Assessment Tools and Techniques
	04:00 PM – 05:00 PM	6	Developing a Personal Leadership Development
25.01.2023	02:00 PM – 03:00 PM	7	Module 3: Strategic Thinking and Decision Making Principles of Strategic Thinking
	03:00 PM – 04:00 PM	8	Decision-Making Models and Frameworks
	04:00 PM – 05:00 PM	9	Case Studies in Strategic Leadership
27.01.2023	02:00 PM – 03:00 PM	10	Module 4: Leadership Styles and Approaches Exploring Different Leadership Styles (Autocratic, Democratic, Laissez-Faire)
	03:00 PM – 04:00 PM	11	Adaptive Leadership and Situational Leadership
	04:00 PM – 05:00 PM	12	Applying Leadership Styles in Various Contexts
28.01.2023	02:00 PM – 03:00 PM	13	Module 5: Effective Communication and Influence Techniques for Effective Communication
	03:00 PM – 04:00 PM	14	Building Trust and Credibility
	04:00 PM – 05:00 PM	15	Strategies for Persuasion and Influence


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30.01.2023	02:00 PM – 03:00 PM	16	Module 6: Team Management and Development Principles of Team Building and Dynamics
	03:00 PM – 04:00 PM	17	Strategies for Managing and Motivating Teams
	04:00 PM – 05:00 PM	18	Conflict Resolution and Problem-Solving Techniques
31.01.2023	02:00 PM – 03:00 PM	19	Module 7: Change Management and Innovation Leading Organizational Change
	03:00 PM – 04:00 PM	20	Strategies for Managing Resistance to Change
	04:00 PM – 05:00 PM	21	Fostering a Culture of Innovation and Continuous Improvement
01.02.2023	02:00 PM – 03:00 PM	22	Module 8: Leading in Diverse and Global Environments Understanding Diversity and Inclusion
	03:00 PM – 04:00 PM	23	Leading Cross-Cultural Teams
	04:00 PM – 05:00 PM	24	Global Leadership Challenges and Strategies
02.02.2023	02:00 PM – 03:00 PM	25	Module 9: Ethical Leadership and Corporate Social Responsibility Principles of Ethical Leadership
	03:00 PM – 04:00 PM	26	Integrating Corporate Social Responsibility into Leadership Practices
	04:00 PM – 05:00 PM	27	Case Studies on Ethical Dilemmas in Leadership
03.02.2023	02:00 PM – 03:00 PM	28	Module 10: Leadership Development and Future Trends Emerging Trends in Leadership (e.g., Digital Leadership, Remote Leadership)
	03:00 PM – 04:00 PM	29	Developing Long-Term Leadership Skills Final Project: Leadership Case Study and Presentation
	04:00 PM – 05:00 PM	30	Final Exam

  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

## **7. Certificate Program on Leadership in the Digital Age**



## **Certificate Program on Leadership in the Digital Age**

*Organized by Department of Business Administration*

**Duration: 13.11.2019 to 23.11.2019**

### **Time Table**


Day	Time	Session	Topic
13.11.2019	02:00 PM – 03:00 PM	1	Module 1: Introduction to Digital Leadership Definition and importance of digital leadership
	03:00 PM – 04:00 PM	2	The impact of digital transformation on leadership roles
	04:00 PM – 05:00 PM	3	Key characteristics of effective digital leaders
14.11.2019	02:00 PM – 03:00 PM	4	Module 2: Understanding Digital Transformation Overview of digital transformation and its impact on organizations
	03:00 PM – 04:00 PM	5	Case studies of successful digital transformations
	04:00 PM – 05:00 PM	6	The role of technology in driving organizational change
15.11.2019	02:00 PM – 03:00 PM	7	Module 3: Developing Digital Leadership Skills Core competencies for digital leaders
	03:00 PM – 04:00 PM	8	Building a digital mindset and adaptability
	04:00 PM – 05:00 PM	9	Strategies for continuous learning and skill development
16.11.2019	02:00 PM – 03:00 PM	10	Module 4: Leveraging Digital Tools and Technologies Introduction to key digital tools and platforms (e.g., collaboration software, data analytics)
	03:00 PM – 04:00 PM	11	Integrating technology into leadership practices
	04:00 PM – 05:00 PM	12	Best practices for using digital tools to enhance productivity
18.11.2019	02:00 PM – 03:00 PM	13	Module 5: Strategic Decision-Making in a Digital World Utilizing data and analytics for informed decision-making
	03:00 PM – 04:00 PM	14	Digital strategies for competitive advantage
	04:00 PM – 05:00 PM	15	Case studies on data-driven decision-making

  
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19.11.2019	02:00 PM – 03:00 PM	16	Module 6: Leading Through Change and Innovation Managing digital disruption and technological change
	03:00 PM – 04:00 PM	17	Overcoming resistance to change and building a culture of innovation
	04:00 PM – 05:00 PM	18	Strategies for fostering innovation and creativity
20.11.2019	02:00 PM – 03:00 PM	19	Module 7: Enhancing Communication and Collaboration Effective digital communication strategies
	03:00 PM – 04:00 PM	20	Tools and techniques for virtual collaboration
	04:00 PM – 05:00 PM	21	Building and leading remote and hybrid teams
21.11.2019	02:00 PM – 03:00 PM	22	Module 8: Ethical Considerations and Digital Governance Ethical issues in digital leadership (e.g., data privacy, security)
	03:00 PM – 04:00 PM	23	Developing policies for digital governance
	04:00 PM – 05:00 PM	24	Ensuring responsible use of technology and data
22.11.2019	02:00 PM – 03:00 PM	25	Module 9: Analyzing Digital Trends and Challenges Emerging trends in digital technology and their implications for leadership
	03:00 PM – 04:00 PM	26	Addressing challenges related to cybersecurity, AI, and automation
	04:00 PM – 05:00 PM	27	Preparing for the future of digital leadership
23.11.2019	02:00 PM – 03:00 PM	28	Module 10: Capstone Project and Future Directions Capstone project: Develop a digital leadership strategy for a case study or real-world scenario Presentation and feedback on the capstone project
	03:00 PM – 04:00 PM	29	Reflecting on future trends and career opportunities in digital leadership
	04:00 PM – 05:00 PM	30	Final Exam

  
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## **1.2.2. Certificate/Value Added Courses**

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## **8. Certificate Program on Mobile App Development**

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**Certificate Program on Mobile App Development**

*Organized by Department of Computer Applications*

**Duration: 20.01.2022 to 31.01.2022**

**Time Table**

Day	Time	Session	Topic
20.01.2022	02:00 PM – 03:00 PM	1	Module 1: Introduction to Mobile App Development Overview of Mobile App Development
	03:00 PM – 04:00 PM	2	iOS vs. Android Development
	04:00 PM – 05:00 PM	3	Tools and Technologies: Xcode, Android Studio
21.01.2022	02:00 PM – 03:00 PM	4	Module 2: Programming Languages and Development Environments Introduction to Swift for iOS Development
	03:00 PM – 04:00 PM	5	Introduction to Kotlin/Java for Android Development
	04:00 PM – 05:00 PM	6	Setting Up Development Environments and Tools
22.01.2022	02:00 PM – 03:00 PM	7	Module 3: Mobile App Design Principles User Interface (UI) and User Experience (UX) Design
	03:00 PM – 04:00 PM	8	Platform-Specific Design Guidelines (Material Design for Android, Human Interface Guidelines for iOS)
	04:00 PM – 05:00 PM	9	Designing Responsive and Accessible UIs
24.01.2022	02:00 PM – 03:00 PM	10	Module 4: Building iOS Applications Xcode Basics and Interface Builder
	03:00 PM – 04:00 PM	11	Creating and Managing iOS Projects
	04:00 PM – 05:00 PM	12	Implementing iOS UI Components and Controls
25.01.2022	02:00 PM – 03:00 PM	13	Module 5: Building Android Applications Android Studio Basics and Layout Editor
	03:00 PM – 04:00 PM	14	Creating and Managing Android Projects
	04:00 PM – 05:00 PM	15	Implementing Android UI Components and Controls

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27.01.2022	02:00 PM – 03:00 PM	16	Module 6: Mobile App Navigation and Architecture Navigation Patterns and Techniques (Tab Bars, Navigation Drawers)
	03:00 PM – 04:00 PM	17	Implementing Navigation in iOS and Android
	04:00 PM – 05:00 PM	18	App Architecture Patterns (MVC, MVVM)
28.01.2022	02:00 PM – 03:00 PM	19	Module 7: Data Storage and Persistence Local Data Storage Options (Core Data for iOS, Room for Android)
	03:00 PM – 04:00 PM	20	Using SQLite and Shared Preferences
	04:00 PM – 05:00 PM	21	Handling Data Synchronization and Offline Access
29.01.2022	02:00 PM – 03:00 PM	22	Module 8: Integration with APIs and Web Services Consuming RESTful APIs and Web Services
	03:00 PM – 04:00 PM	23	Handling JSON Data and Network Requests
	04:00 PM – 05:00 PM	24	Implementing Authentication and Authorization
30.01.2022	02:00 PM – 03:00 PM	25	Module 9: Testing and Debugging Testing Strategies for Mobile Apps (Unit Testing, UI Testing)
	03:00 PM – 04:00 PM	26	Debugging Tools and Techniques
	04:00 PM – 05:00 PM	27	Performance Optimization and Profiling
31.01.2022	02:00 PM – 03:00 PM	28	Module 10: Deployment and Maintenance Preparing Apps for App Store Submission (iOS App Store, Google Play Store)
	03:00 PM – 04:00 PM	29	Managing App Updates and Versions Post-Deployment Maintenance and User Feedback
	04:00 PM – 05:00 PM	30	Final Exam

  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

#### **9. Certificate Program on Natural Language Processing (NLP)**

**Certificate Program on Natural Language Processing (NLP)**

*Organized by Department of Computer Applications*

**Duration: 16.12.2019 to 28.12.2019**

**Time Table**

Day	Time	Session	Topic
16.12.2019	02:00 PM – 03:00 PM	1	Module 1: Introduction to Natural Language Processing Overview of NLP and its significance
	03:00 PM – 04:00 PM	2	Historical context and evolution of NLP
	04:00 PM – 05:00 PM	3	Key applications and use cases of NLP
17.12.2019	02:00 PM – 03:00 PM	4	Module 2: Text Processing and Representation Tokenization and text normalization
	03:00 PM – 04:00 PM	5	Text representation methods (bag-of-words, TF-IDF, word embeddings)
	04:00 PM – 05:00 PM	6	Handling and preprocessing text data
18.12.2019	02:00 PM – 03:00 PM	7	Module 3: Syntax and Parsing Introduction to syntactic analysis
	03:00 PM – 04:00 PM	8	Part-of-speech tagging
	04:00 PM – 05:00 PM	9	Parsing techniques and dependency parsing
19.12.2019	02:00 PM – 03:00 PM	10	Module 4: Semantic Analysis Understanding semantics in NLP
	03:00 PM – 04:00 PM	11	Named entity recognition (NER) Word sense disambiguation
	04:00 PM – 05:00 PM	12	Coreference resolution
20.12.2019	02:00 PM – 03:00 PM	13	Module 5: Sentiment Analysis and Text Classification Techniques for sentiment analysis
	03:00 PM – 04:00 PM	14	Building text classification models
	04:00 PM – 05:00 PM	15	Evaluation metrics for classification tasks





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21.12.2019	02:00 PM – 03:00 PM	16	Module 6: Machine Translation and Language Generation Overview of machine translation techniques
	03:00 PM – 04:00 PM	17	Introduction to sequence-to-sequence models
	04:00 PM – 05:00 PM	18	Language generation and text summarization
23.12.2019	02:00 PM – 03:00 PM	19	Module 7: Advanced NLP Models Introduction to deep learning in NLP
	03:00 PM – 04:00 PM	20	Working with embeddings (Word2Vec, GloVe)
	04:00 PM – 05:00 PM	21	Transformer models and attention mechanisms
24.12.2019	02:00 PM – 03:00 PM	22	Module 8: NLP Tools and Libraries Hands-on with NLTK, spaCy, and other NLP libraries
	03:00 PM – 04:00 PM	23	Using Hugging Face Transformers for state-of-the-art NLP models
	04:00 PM – 05:00 PM	24	Practical exercises and examples
27.12.2019	02:00 PM – 03:00 PM	25	Module 9: Real-World NLP Applications Applications of NLP in search engines, chatbots, and virtual assistants
	03:00 PM – 04:00 PM	26	Case studies of successful NLP implementations
	04:00 PM – 05:00 PM	27	Ethical considerations and challenges in NLP applications
28.12.2019	02:00 PM – 03:00 PM	28	Module 10: Capstone Project and Future Directions Capstone project: Develop and present an NLP solution for a real-world problem
	03:00 PM – 04:00 PM	29	Discussion on future trends and advancements in NLP Course review and reflections on career opportunities in NLP
	04:00 PM – 05:00 PM	30	Final Exam

  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

#### **10. Certificate Program on Quantum Computing and Quantum Programming**

**AURORA'S PG COLLEGE (MBA)**  
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**Certificate Program on Quantum Computing and Quantum Programming**  
Organized by Department of Computer Applications

Duration: 01.12.2020 to 11.12.2020


**Time Table**


Day	Time	Session	Topic
01.12.2020	02:00 PM – 03:00 PM	1	Module 1: Introduction to Quantum Computing Overview of Quantum Computing
	03:00 PM – 04:00 PM	2	Key Concepts in Quantum Mechanics
	04:00 PM – 05:00 PM	3	Quantum vs. Classical Computing
02.12.2020	02:00 PM – 03:00 PM	4	Module 2: Quantum Bits (Qubits) and Quantum Gates Understanding Qubits and Superposition
	03:00 PM – 04:00 PM	5	Quantum Entanglement and Measurement
	04:00 PM – 05:00 PM	6	Basic Quantum Gates and Operations
03.12.2020	02:00 PM – 03:00 PM	7	Module 3: Quantum Algorithms Basics Introduction to Quantum Algorithms
	03:00 PM – 04:00 PM	8	Quantum Speedup and Algorithmic Advantages
	04:00 PM – 05:00 PM	9	Overview of Key Quantum Algorithms
04.12.2020	02:00 PM – 03:00 PM	10	Module 4: Grover's Algorithm Concept and Theory Behind Grover's Algorithm
	03:00 PM – 04:00 PM	11	Implementing Grover's Algorithm
	04:00 PM – 05:00 PM	12	Applications and Performance Analysis
05.12.2020	02:00 PM – 03:00 PM	13	Module 5: Shor's Algorithm Concept and Theory Behind Shor's Algorithm
	03:00 PM – 04:00 PM	14	Implementing Shor's Algorithm
	04:00 PM – 05:00 PM	15	Applications and Performance Analysis

  
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07.12.2020	02:00 PM – 03:00 PM	16	Module 6: Quantum Programming Languages and Tools Introduction to Quantum Programming Languages (Qiskit, Q#, QuTiP)
	03:00 PM – 04:00 PM	17	Setting Up Development Environments
	04:00 PM – 05:00 PM	18	Basic Quantum Programming Constructs and Syntax
08.12.2020	02:00 PM – 03:00 PM	19	Module 7: Designing Quantum Circuits Building Quantum Circuits for Basic Algorithms
	03:00 PM – 04:00 PM	20	Simulating Quantum Circuits
	04:00 PM – 05:00 PM	21	Debugging and Optimizing Quantum Circuits
09.12.2020	02:00 PM – 03:00 PM	22	Module 8: Advanced Quantum Algorithms Quantum Fourier Transform
	03:00 PM – 04:00 PM	23	Quantum Machine Learning Algorithms
	04:00 PM – 05:00 PM	24	Quantum Error Correction
10.12.2020	02:00 PM – 03:00 PM	25	Module 9: Quantum Computing Applications Applications of Quantum Computing in Cryptography, Optimization, and Simulation
	03:00 PM – 04:00 PM	26	Case Studies of Quantum Computing Use Cases
	04:00 PM – 05:00 PM	27	Future Trends and Emerging Applications
11.12.2020	02:00 PM – 03:00 PM	28	Module 10: Challenges and Future Directions Current Challenges in Quantum Computing (Scalability, Error Rates)
	03:00 PM – 04:00 PM	29	Quantum Computing Hardware and Architectures The Future of Quantum Computing and Research Directions
	04:00 PM – 05:00 PM	30	Final Exam

  
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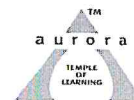
  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

## **11. Certificate Program on Start-Up Marketing**

**AURORA'S PG COLLEGE (MBA)**  
Peerzadiguda, Uppal, Hyderabad-500092



**Certificate Program on Start-Up Marketing**  
Organized by Department of Business Administration

Duration: 22.01.2024 to 31.01.2024

**Time Table**

Day	Time	Session	Topic
22.01.2024	02:00 PM – 03:00 PM	1	Module 1: Introduction to Start-Up Marketing and Sales Understand the unique challenges and opportunities in marketing and sales for start-ups.
	03:00 PM – 04:00 PM	2	Overview of fundamental marketing and sales concepts relevant to start-ups. Explore the roles and responsibilities of marketing and sales professionals in start-ups
	04:00 PM – 05:00 PM	3	Module 2: Market Research and Analysis Learn techniques for conducting market research and analyzing market trends.
23.01.2024	02:00 PM – 03:00 PM	4	Identify target audiences and understand customer needs and preferences.
	03:00 PM – 04:00 PM	5	Use market analysis to inform marketing and sales strategies.
	04:00 PM – 05:00 PM	6	Module 3: Developing a Marketing Plan Create a detailed marketing plan including goals, strategies, and tactics.
24.01.2024	02:00 PM – 03:00 PM	7	Develop a value proposition and positioning strategy for the start-up. Establish a marketing budget and resource allocation plan.
	03:00 PM – 04:00 PM	8	Module 4: Sales Strategies and Techniques Develop and implement a sales process from lead generation to closing.
	04:00 PM – 05:00 PM	9	Explore various sales techniques, including consultative selling and solution-based selling.
25.01.2024	02:00 PM – 03:00 PM	10	Use CRM tools and technologies to manage customer relationships and track sales performance.
	03:00 PM – 04:00 PM	11	Module 5: Digital Marketing Fundamentals Understand key digital marketing channels such as social media, SEO, and content marketing.
	04:00 PM – 05:00 PM	12	Implement digital marketing strategies to increase online visibility and engagement. Analyze digital marketing metrics and adjust strategies based on performance.
27.01.2024	02:00 PM – 03:00 PM	13	Module 6: Branding and Positioning Develop a brand identity including brand name, logo, and messaging.
	03:00 PM – 04:00 PM	14	Create and maintain a consistent brand image across all marketing and sales channels. Position the brand effectively in the market to differentiate from competitors.
	04:00 PM – 05:00 PM	15	Module 7: Content Marketing and Social Media Create engaging content that attracts and retains customers.


  
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29.01.2024	02:00 PM – 03:00 PM	16	Develop and execute a social media strategy to enhance brand presence and customer engagement. Measure and optimize content marketing and social media performance.
	03:00 PM – 04:00 PM	17	Module 8: Sales and Marketing Integration Align sales and marketing efforts to create a cohesive approach to customer acquisition and retention.
	04:00 PM – 05:00 PM	18	Develop strategies for cross-departmental collaboration and communication. Implement integrated marketing and sales campaigns to drive growth.
30.01.2024	02:00 PM – 03:00 PM	19	Module 9: Evaluating Marketing Campaigns Set key performance indicators (KPIs) to measure the effectiveness of marketing campaigns.
	03:00 PM – 04:00 PM	20	Analyze campaign results and ROI to determine success and areas for improvement.
	04:00 PM – 05:00 PM	21	Adjust strategies based on campaign performance data.
31.01.2024	02:00 PM – 03:00 PM	22	Module 10: Scaling and Growth Strategies Develop strategies for scaling marketing and sales efforts as the start-up grows.
	03:00 PM – 04:00 PM	23	Explore advanced marketing techniques and tools to support growth. Plan for long-term sustainability and expansion in the market.
	04:00 PM – 05:00 PM	24	Final Exam

  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

## **12. Certificate Program on Video Analytics**



**AURORA'S PG COLLEGE (MBA)**  
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**Certificate Program on Video Analytics**  
Organized by Department of Business Administration

Duration: 14.11.2022 to 22.11.2022

**Time Table**

Day	Time	Session	Topic
14.11.2022	02:00 PM – 03:00 PM	1	Module 1: Introduction to Video Analytics Overview of Video Analytics
	03:00 PM – 04:00 PM	2	Key Concepts and Terminology Applications and Use Cases
	04:00 PM – 05:00 PM	3	Module 2: Video Data Acquisition and Preprocessing Video Capture Technologies
15.11.2022	02:00 PM – 03:00 PM	4	Data Formats and Storage Preprocessing Techniques (Normalization, Noise Reduction)
	03:00 PM – 04:00 PM	5	Module 3: Object Detection Techniques Introduction to Object Detection
	04:00 PM – 05:00 PM	6	Techniques and Algorithms (YOLO, SSD, Faster R-CNN) Practical Applications and Challenges
16.11.2022	02:00 PM – 03:00 PM	7	Module 4: Object Tracking Algorithms Basics of Object Tracking
	03:00 PM – 04:00 PM	8	Tracking Methods (Kalman Filter, SORT, DeepSORT) Tracking Challenges and Solutions
	04:00 PM – 05:00 PM	9	Module 5: Behavior and Activity Analysis Behavior Analysis Techniques
17.11.2022	02:00 PM – 03:00 PM	10	Activity Recognition Methods (Temporal Models, RNNs)
	03:00 PM – 04:00 PM	11	Case Studies and Applications
	04:00 PM – 05:00 PM	12	Module 6: Facial Recognition Technologies Principles of Facial Recognition
18.11.2022	02:00 PM – 03:00 PM	13	Key Techniques (Face Detection, Feature Extraction, Matching)
	03:00 PM – 04:00 PM	14	Applications and Ethical Considerations
	04:00 PM – 05:00 PM	15	Module 7: Integration and Deployment Designing Video Analytics Systems

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19.11.2022	02:00 PM – 03:00 PM	16	System Integration with Existing Infrastructure Deployment Considerations and Best Practices
	03:00 PM – 04:00 PM	17	Module 8: Performance Evaluation and Metrics Evaluating Accuracy and Performance
	04:00 PM – 05:00 PM	18	Metrics (Precision, Recall, F1 Score) Benchmarking and Testing
21.11.2022	02:00 PM – 03:00 PM	19	Module 9: Advanced Topics in Video Analytics Deep Learning Approaches in Video Analytics
	03:00 PM – 04:00 PM	20	Real-Time Video Analytics Emerging Trends and Technologies
	04:00 PM – 05:00 PM	21	Module 10: Real-World Applications and Case Studies Security and Surveillance
22.11.2022	02:00 PM – 03:00 PM	22	Retail and Customer Behavior Analysis
	03:00 PM – 04:00 PM	23	Traffic Management and Smart Cities
	04:00 PM – 05:00 PM	24	Final Exam

  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

## **13. Training Program on Data Analytics**

**AURORA'S PG COLLEGE (MBA)**  
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**Training Program on Data Analytics**  
*Organized by Department of Business Administration  
In association with YBI Foundation*

**Duration: 15.04.2024 to 26.04.2024**

**Time Table**

Day	Time	Session	Topic
15.04.2024	02:00 PM – 03:00 PM	1	Module 1: Introduction to Data Analytics Overview of data analytics and its importance
	03:00 PM – 04:00 PM	2	Key concepts: Data types, data sources, and data life cycle
	04:00 PM – 05:00 PM	3	Introduction to data analytics tools and software
16.04.2024	02:00 PM – 03:00 PM	4	Module 2: Data Collection and Preparation Techniques for data collection and data sources
	03:00 PM – 04:00 PM	5	Data cleaning: Handling missing values, outliers, and inconsistencies
	04:00 PM – 05:00 PM	6	Data transformation: Normalization, aggregation, and feature engineering
18.04.2024	02:00 PM – 03:00 PM	7	Module 3: Descriptive Statistics and Exploratory Data Analysis (EDA) Measures of central tendency and dispersion
	03:00 PM – 04:00 PM	8	Visualizing data distributions: Histograms, box plots, and scatter plots
	04:00 PM – 05:00 PM	9	Identifying patterns and trends through EDA
19.04.2024	02:00 PM – 03:00 PM	10	Module 4: Introduction to Data Visualization Principles of effective data visualization
	03:00 PM – 04:00 PM	11	Tools and techniques for creating visualizations (e.g., Excel, Tableau)
	04:00 PM – 05:00 PM	12	Designing interactive dashboards and reports
20.04.2024	02:00 PM – 03:00 PM	13	Module 5: Statistical Inference and Hypothesis Testing Concepts of statistical inference and hypothesis testing
	03:00 PM – 04:00 PM	14	Common tests: t-tests, chi-square tests, ANOVA
	04:00 PM – 05:00 PM	15	Interpreting test results and drawing conclusions
22.04.2024	02:00 PM – 03:00 PM	16	Module 6: Regression Analysis Introduction to linear regression and its applications
	03:00 PM – 04:00 PM	17	Building and evaluating regression models
	04:00 PM – 05:00 PM	18	Understanding assumptions and diagnosing model issues


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23.04.2024	02:00 PM – 03:00 PM	19	Module 7: Predictive Analytics and Machine Learning Basics Overview of predictive analytics and machine learning
	03:00 PM – 04:00 PM	20	Supervised learning techniques: Classification and regression
	04:00 PM – 05:00 PM	21	Introduction to algorithms: Decision trees, k-nearest neighbors, and support vector machines
24.04.2024	02:00 PM – 03:00 PM	22	Module 8: Clustering and Unsupervised Learning Concepts of clustering and unsupervised learning
	03:00 PM – 04:00 PM	23	Common algorithms: k-means, hierarchical clustering, and PCA
	04:00 PM – 05:00 PM	24	Applications and evaluation of clustering results
25.04.2024	02:00 PM – 03:00 PM	25	Module 9: Advanced Data Analytics Techniques Time series analysis and forecasting
	03:00 PM – 04:00 PM	26	Text analytics and natural language processing (NLP)
	04:00 PM – 05:00 PM	27	Introduction to big data and distributed computing
26.04.2024	02:00 PM – 03:00 PM	28	Module 10: Case Studies and Practical Applications Analyzing real-world case studies and industry applications
	03:00 PM – 04:00 PM	29	Group projects involving data analytics solutions for business problems Presenting findings and recommendations to stakeholders
	04:00 PM – 05:00 PM	30	Final Exam

  
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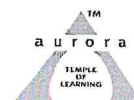


## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

#### **14. Training Program on Chatbots**

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**Training Program on Chatbots**  
*Organized by Department of Computer Applications  
In association with IFocus*

Duration: 14.02.2022 to 25.02.2022

**Time Table**


Day	Time	Session	Topic
14.02.2022	02:00 PM – 03:00 PM	1	Module 1: Introduction to Chatbots Overview of chatbots and their applications
	03:00 PM – 04:00 PM	2	Historical development and future trends
	04:00 PM – 05:00 PM	3	Key terminology and concepts
15.02.2022	02:00 PM – 03:00 PM	4	Module 2: Fundamentals of Natural Language Processing (NLP) Basics of NLP and its role in chatbots
	03:00 PM – 04:00 PM	5	Key NLP techniques and algorithms
	04:00 PM – 05:00 PM	6	Introduction to tokenization, entity recognition, and sentiment analysis
16.02.2022	02:00 PM – 03:00 PM	7	Module 3: Conversational Design Principles Designing effective conversational interfaces
	03:00 PM – 04:00 PM	8	Creating engaging and natural dialogue flows
	04:00 PM – 05:00 PM	9	Understanding user intent and context
17.02.2022	02:00 PM – 03:00 PM	10	Module 4: Chatbot Development Frameworks
	03:00 PM – 04:00 PM	11	Overview of popular chatbot frameworks: Dialogflow, Microsoft Bot Framework, Rasa
	04:00 PM – 05:00 PM	12	Hands-on session: Building a simple chatbot with one framework
18.02.2022	02:00 PM – 03:00 PM	13	Module 5: Integrating Chatbots with Messaging Platforms Introduction to messaging platforms: Facebook Messenger, Slack, WhatsApp
	03:00 PM – 04:00 PM	14	Techniques for integrating chatbots with these platforms
	04:00 PM – 05:00 PM	15	Hands-on session: Deploying a chatbot on a messaging platform

  
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19.02.2022	02:00 PM – 03:00 PM	16	Module 6: Advanced Conversational Design Designing for complex interactions and multi-turn conversations
	03:00 PM – 04:00 PM	17	Handling ambiguity and user errors
	04:00 PM – 05:00 PM	18	Personalization and contextual understanding
21.02.2022	02:00 PM – 03:00 PM	19	Module 7: Chatbot Testing and Optimization Methods for testing chatbot performance
	03:00 PM – 04:00 PM	20	Analyzing user interactions and feedback
	04:00 PM – 05:00 PM	21	Strategies for continuous improvement and optimization
22.02.2022	02:00 PM – 03:00 PM	22	Module 8: Security and Privacy in Chatbots Understanding potential security risks
	03:00 PM – 04:00 PM	23	Implementing privacy measures and data protection
	04:00 PM – 05:00 PM	24	Best practices for secure chatbot development
23.02.2022	02:00 PM – 03:00 PM	25	Module 9: Case Studies and Real-World Applications Analyzing successful chatbot implementations across different industries
	03:00 PM – 04:00 PM	26	Discussion of case studies and their impact
	04:00 PM – 05:00 PM	27	Lessons learned and best practices
24.02.2022	02:00 PM – 03:00 PM	28	Module 10: Future Trends and Emerging Technologies Exploring advancements in AI and chatbot technology
	03:00 PM – 04:00 PM	29	The role of chatbots in emerging fields like AR/VR and IoT
	04:00 PM – 05:00 PM	30	Preparing for future developments and innovations in conversational AI
25.02.2022	03:00 PM – 04:00 PM	31	Final Exam

  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

## **15. Training Program on DataScience with Python**

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**Training Program on DataScience with Python**

*Organized by Department of Computer Applications*

**Duration: 02.01.2020 to 10.01.2020**

**Time Table**

Day	Time	Session	Topic
02.01.2020	02:00 PM – 03:00 PM	1	Module 1: Introduction to Python for Data Science Basics of Python programming
	03:00 PM – 04:00 PM	2	Essential libraries: NumPy, Pandas Python environment setup and tools
	04:00 PM – 05:00 PM	3	Module 2: Data Collection and Acquisition Techniques for data gathering (APIs, web scraping)
03.01.2020	02:00 PM – 03:00 PM	4	Handling different data formats (CSV, JSON, Excel)
	03:00 PM – 04:00 PM	5	Introduction to data sources and data pipelines
	04:00 PM – 05:00 PM	6	Module 3: Data Cleaning and Preprocessing Data wrangling with Pandas
04.01.2020	02:00 PM – 03:00 PM	7	Handling missing values, outliers, and inconsistencies Data transformation and feature engineering
	03:00 PM – 04:00 PM	8	Module 4: Exploratory Data Analysis (EDA) Descriptive statistics and data summary
	04:00 PM – 05:00 PM	9	Data visualization with Matplotlib and Seaborn Identifying patterns, trends, and insights
06.01.2020	02:00 PM – 03:00 PM	10	Module 5: Statistical Analysis and Hypothesis Testing Probability distributions and statistical inference
	03:00 PM – 04:00 PM	11	Regression analysis (linear and logistic) Hypothesis testing and interpretation
	04:00 PM – 05:00 PM	12	Module 6: Introduction to Machine Learning Overview of machine learning concepts
07.01.2020	02:00 PM – 03:00 PM	13	Supervised learning algorithms (classification and regression) Model evaluation metrics and techniques
	03:00 PM – 04:00 PM	14	Module 7: Advanced Machine Learning Techniques Ensemble methods (e.g., random forests, gradient boosting)
	04:00 PM – 05:00 PM	15	Introduction to deep learning and neural networks Implementing models with TensorFlow or Keras


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08.01.2020	02:00 PM – 03:00 PM	16	Module 8: Big Data and Database Management SQL fundamentals and database querying
	03:00 PM – 04:00 PM	17	Working with big data tools (e.g., PySpark) Data extraction, manipulation, and integration
	04:00 PM – 05:00 PM	18	Module 9: Data Science Workflows and Automation
09.01.2020	02:00 PM – 03:00 PM	19	Automating data processing and analysis tasks Tools for workflow management (e.g., Apache Airflow)
	03:00 PM – 04:00 PM	20	Building and managing end-to-end data science workflows
	04:00 PM – 05:00 PM	21	Module 10: Ethics, Privacy, and Capstone Project Ethical considerations and data privacy issues
10.01.2020	02:00 PM – 03:00 PM	22	Best practices for responsible data use
	03:00 PM – 04:00 PM	23	Capstone project: Applying course knowledge to a real-world data problem, including project planning, execution, and presentation
	04:00 PM – 05:00 PM	24	Final Exam

  
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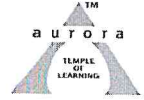
  
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## **1.2.2. Certificate/Value Added Courses**

### **Timetables**

## **16. Training Program on IT Fundamentals**

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**Peerzadiguda, Uppal, Hyderabad-500092**



**Training Program on IT Fundamentals**  
 Organized by Department of Business Administration  
 In association with NRich

**Duration: 01.02.2023 to 10.02.2023**

**Time Table**

Day	Time	Session	Topic
01.02.2023	02:00 PM – 03:00 PM	1	Module 1: Introduction to Information Technology Overview of IT
	03:00 PM – 04:00 PM	2	Key Concepts and Terminology
	04:00 PM – 05:00 PM	3	The Role of IT in Modern Organizations
02.02.2023	02:00 PM – 03:00 PM	4	Module 2: Computer Hardware Basics Components of a Computer System (CPU, RAM, Storage, Peripherals)
	03:00 PM – 04:00 PM	5	Function and Purpose of Each Component Hardware Installation and Maintenance
	04:00 PM – 05:00 PM	6	Module 3: Operating Systems Introduction to Operating Systems (Windows, macOS, Linux)
03.02.2023	02:00 PM – 03:00 PM	7	Basic Functions and Features File Management and System Configuration
	03:00 PM – 04:00 PM	8	Module 4: Software Applications Common Software Applications (Productivity Tools, Web Browsers)
	04:00 PM – 05:00 PM	9	Installation and Management of Software
04.02.2023	02:00 PM – 03:00 PM	10	Understanding Software Licenses and Updates
	03:00 PM – 04:00 PM	11	Module 5: Networking Fundamentals Basics of Networking (LAN, WAN, Internet)
	04:00 PM – 05:00 PM	12	Common Network Components (Routers, Switches, Modems)
06.02.2023	02:00 PM – 03:00 PM	13	Introduction to Networking Protocols (TCP/IP, HTTP, FTP)
	03:00 PM – 04:00 PM	14	Module 6: Cybersecurity Basics Fundamental Cybersecurity Concepts
	04:00 PM – 05:00 PM	15	Common Threats and Vulnerabilities


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07.02.2023	02:00 PM – 03:00 PM	16	Basic Security Measures (Firewalls, Antivirus Software, Password Management)
	03:00 PM – 04:00 PM	17	Module 7: Troubleshooting Techniques Systematic Troubleshooting Approach
	04:00 PM – 05:00 PM	18	Diagnosing Common Hardware and Software Issues Using Diagnostic Tools and Utilities
08.02.2023	02:00 PM – 03:00 PM	19	Module 8: IT Support and Services Understanding IT Support Roles and Responsibilities
	03:00 PM – 04:00 PM	20	Service Desk Operations and Best Practices Common IT Support Scenarios and Solutions
	04:00 PM – 05:00 PM	21	Module 9: Emerging Technologies and Trends Introduction to Emerging Technologies (Cloud Computing, IoT)
09.02.2023	02:00 PM – 03:00 PM	22	Current IT Trends and Innovations
	03:00 PM – 04:00 PM	23	Impact of Emerging Technologies on the IT Field
	04:00 PM – 05:00 PM	24	Module 10: Review and Practical Applications Recap of Key Concepts
10.02.2023	02:00 PM – 03:00 PM	25	Practical Exercises and Case Studies Preparing for Further IT Studies and Certifications
	03:00 PM – 04:00 PM	26	Final Exam

  
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