



# Lingaya's Lalita Devi Institute of Management and Sciences

Department of Computer Applications

**Newsletter**  
**February 2026**



**Neiyar Subhani**

**BCA**

**6<sup>th</sup> Semester**

### **Ramadan: A Month of Reflection and Devotion**

Ramzan, also called Ramadan, is one of the most sacred months in Islam. It is observed by Muslims all over the world with deep faith and devotion. During this holy month, Muslims fast from dawn to sunset, avoiding food, drink, and negative behavior. Fasting helps in developing self-discipline, patience, and gratitude.

Ramzan is not only about fasting but also about prayer, charity, and self-reflection. Muslims offer special prayers, read the Holy Quran, and seek forgiveness. Acts of kindness and helping the poor are highly encouraged during this month. Families and communities gather together at sunset to break their fast, known as iftar, which strengthens unity and brotherhood.

The month of Ramzan teaches values such as compassion, honesty, and humility. It reminds people to purify their hearts, strengthen their faith, and spread peace and harmony in society.



**Kunal Singh**

**BCA**

**6<sup>th</sup> Semester**

### **Mahashivratri: The Great Night of Shiva**

Mahashivratri is a sacred Hindu festival dedicated to Lord Shiva, celebrated with deep devotion across India. It marks the night of Shiva's cosmic dance and his divine marriage to Goddess Parvati.

Unlike other festivals, Mahashivratri is observed through fasting, meditation, and overnight vigils. Devotees visit temples to offer milk, water, and Bel leaves to the Shiva Lingam. It is a powerful time for spiritual reflection, symbolizing the overcoming of darkness and ignorance in one's life through discipline and prayer.

Would you like me to help you practice explaining this festival in English, or should I write a few lines about the rituals specifically?

This is too much festival for all Hindu religion.



**Piyush Aggrawal**

**BCA**

**6<sup>th</sup> Semester**

### **The Impact of Social Media on Society**

Social media has become an important part of modern society. Platforms like Facebook, Instagram, and X have changed the way people communicate, share information, and express their opinions. Social media helps people stay connected with friends and family, even across long distances. It is also a powerful tool for education, business promotion, and spreading awareness about social issues.

However, social media also has negative effects on society. Excessive use can lead to addiction, loss of productivity, and mental health problems such as stress and anxiety. Fake news and misinformation spread quickly, creating confusion and conflict among people. Social media can also affect personal relationships by reducing face-to-face communication. Despite these challenges, social media can be beneficial if used responsibly. People should limit screen time, verify information before sharing, and use social media for positive purposes. When balanced properly, social media can support communication, learning, and social development in society.



**Saloni Bhatt**

**BCA**

**6<sup>th</sup> Semester**

### **The Role of Technology in Modern Education**

Technology plays a vital role in modern education and has transformed the way students learn and teachers teach. Digital tools such as computers, smart boards, tablets, and the internet have made education more interactive and accessible. Online classes, e-learning platforms, and educational apps allow students to learn anytime and anywhere, breaking the limits of traditional classrooms.

Technology also helps teachers explain complex concepts through videos, animations, and presentations, making learning more interesting and effective. Students can access online libraries, digital notes, and global resources with just a few clicks. It encourages self-learning, creativity, and critical thinking among learners.

However, excessive dependence on technology may cause distractions and reduce face-to-face interaction. Therefore, technology should be used wisely and in balance with traditional teaching methods.

# ANUGOONJ

Guru Gobind Singh Indraprastha University has officially announced the suspension of regular classes on the occasion of its annual cultural festival, Anugoonj-2026. As per the notice issued by the Office of the Director (Academic Affairs), the university will be hosting Anugoonj-2026 from **4th February to 6th February 2026** at the Dwarka Campus, Sector-16C, New Delhi.

In view of the large-scale participation and arrangements required for the successful conduct of the event, all academic activities and classes will remain suspended during this period. The decision has been taken to ensure smooth organization of the festival and to allow students, faculty members, and staff to actively participate in the cultural celebrations.

The notice has been circulated to all concerned authorities, affiliated colleges, and stakeholders for necessary information and compliance. Regular classes are expected to resume after the conclusion of the event. Students are advised to plan their academic schedules accordingly and stay updated through official university communications.



## 2<sup>nd</sup> Semester Syllabus

Subject: Applied Mathematics

### Unit-I

**PROBABILITY:** Introduction, Axiomatic definition of Probability, Addition Theorem, Multiplication theorem, Conditional Probability, Baye's Theorem and its applications.

**PROBABILITY DISTRIBUTIONS:** Random Variable, Probability Mass function, Probability density function, Mathematical Expectations of a Random Variable, Binomial Distribution, Poisson distribution, Normal Distribution.

## 4<sup>th</sup> Semester Syllabus

Subject: Operating Systems

### Unit-I

**Introduction:** What is an Operating System, Functions of Operating System, Simple Batch Systems; Multi programmed Batch systems, Time-Sharing Systems, Personal-computer systems, Parallel systems, Distributed Systems, Real-Time Systems.

**Introduction to Linux:** Architecture of Linux OS, Basic directory structure of Linux, Basic commands of Linux:- man, info, help, what is, apropos, basic directory navigation commands like cat, mkdir, rmdir, cd, mv, cp, rm, ,file, pwd, date, cal, echo, bc, ls, who, whoami, hostname, uname, tty,

## 6<sup>th</sup> Semester Syllabus

Subject: Data Ware Housing and Data Mining

### Unit-I

**Introduction to Data Warehousing:** Overview, Difference between Database System and Data Warehouse, The Compelling Need for data warehousing, Data warehouse – The building Blocks: Defining Features, data warehouses and data marts, overview of the components, three tier architecture, Metadata in the data warehouse. ETL tools: - Defining the business requirements: Dimensional analysis, information packages – a new concept, requirements gathering methods, requirements definition: scope and content

Subject: Web Based Programming

### Unit-I

Introduction to web applications, Client Side Scripting Vs Server Side Scripting, Web Servers : Local Servers and Remote Servers, Installation Process - WAMP, LAMP, XAMPP & MAMP Server, Static website vs Dynamic website development. Introduction to PHP: Data types, Variables, Super Global Variables, Constants, Comments, Operators and Expressions, Regular Expression, Advantages of PHP Control statements: Conditional Statement -if else, if elseif else, nested if, switch case, PHP Loops – for, while, do while and foreach loop. Arrays: Indexed Array, Associate Array, Multi-dimensional Array,

Subject: **Software Testing**

### Unit-I

**Introduction:** What is software testing and why it is so hard? Goals of Testing, Principles of Software Testing, Error, Fault, Failure, Incident, Error and Fault Taxonomies, Test Cases, Software Testing Life Cycle, Verification and Validation: - V-testing Life cycle, Limitations of Testing, Static and Dynamic Testing, Static: Inspection, Walkthrough, Technical Review

Subject: E-Commerce

### Unit-I

**Introduction:** Definition of Electronic Commerce, Evolution of e-commerce, E-Commerce & E Business, Unique features of e-commerce, applications of E-Commerce, advantages and disadvantages of E-commerce, Types of e-commerce: B2B, B2C, C2C, M-commerce, Social Commerce E-commerce infrastructure: Technological building blocks: Internet, web and mobile applications

Subject: Data Structure & Algorithm Using 'C'

Unit-I

Linear Data Structures: Static: Introduction to Algorithms- Attributes, Design Techniques, Time Space Trade Off, Data Structures, Classification and Operations of Data Structures. Growth of functions, Masters Theorem Arrays: Single Dimension, Two-Dimension and Introduction to Multi Dimensions, Memory Representation, Address Calculation, Sparse Matrices- Types, Representation. Introduction: Dynamic Memory Allocation, Dynamic Memory versus Static Memory Allocation. Linked List Types: Singly Linked List, Doubly Linked List, Header Linked List, Circular Linked List. Operations: Creation, Insertion, Deletion, Modification, Searching, Sorting,

Subject: : **Introduction to Logic and Critical Thinking**

Unit-I

**Introduction to Logical and Critical Thinking:** Definition of logical and critical thinking, Basic concepts

of critical thinking, reasoning, logic and language, issues, claims, arguments, explanations, conclusions,

fact and opinion, Importance of logical and critical thinking in academia and professional life.

Subject: Internet of Things

Unit-I

Internet of Things (IoT): Vision, Definition, Conceptual framework, Architectural view, Technology behind IoT, Sources of the IoT, M2M Communication, IoT examples. Design Principles for Connected Devices: IoT/M2M systems layers and design standardization, Communication technologies, Data enrichment and consolidation, Ease of designing and affordability.

Subject: Database Management System

Unit-I

Introduction: An overview of database management system, Characteristics of database approach, DBMS architecture, client/server, data Models, Introduction to Distributed Data processing, schema and instances, data independence. Data Modelling using Entity Relationship Model: Basic introduction about the terminologies like Entity, Entity types, entity set, notation for ER diagram, attributes and keys, Types of attributes (composite, derived and multivalued attributes) and keys (Super Key, candidate key, primary key), relationships, relation types, weak entities, enhanced ER, specialization and generalization.

Subject: **Health and Wellness, Yoga Education and sports & Fitness**

Unit-I

**Health Vs Fitness an overview:** Definition of health & fitness, Nutrition pyramids, Definition of Nutrition and components of health

**Lifestyle disorders:** Diabetes, obesity, PCOS, Metabolic syndrome

**Calorie and energy balance:** Calorie deficit, calorie surplus, calorie maintenance and overview

**Macro nutrients and Micro nutrients:** Proteins, Carbohydrates, fats, vitamins, and minerals and their overview.

Introduction to quantified nutrition:

Subject: Data Visualization & Analytics

Unit-I

Analytics: Basic Nomenclature, Analytics Process Model, Analytics part in different profiles, Analytical Model Requirements. Data Sources for data collection, Sampling and Sampling distribution, Types of data elements, Missing Values, Outlier Detection and Treatment, Standardization using Min/max and z-score, categorization, Segmentation.

Subject: Environment Studies

Unit-I

Introduction to Environmental Studies: • Multidisciplinary nature of environmental studies; components of environment: atmosphere, hydrosphere, lithosphere, and biosphere. • Scope and importance; Concept of sustainability and sustainable development. • Emergence of environmental issues: Climate change, Global warming, Ozone layer depletion, Acid rain etc. • International agreements and programmes: Earth Summit, UNFCCC, Montreal and Kyoto protocols, Convention on Biological Diversity(CBD), Ramsar convention, The Chemical Weapons Convention (CWC), UNEP, CITES, etc.

Subject: **Introduction to Data Science**

Unit-I

**Introduction to data Science:** Evolution of Data Science, Data Science Roles, Stages in a Data science Project, Applications of Data Science In various fields, Data security Issues.

Data Collection Strategies, Data Pre-processing overview- Data Cleaning- Data Integration and transformation- Data Reduction- Data Discretization.

Subject: Deep Learning with Python

Unit-I

Introduction – Overview of Machine Learning, Introduction to Artificial Neural Network (ANN), Perceptron, Training a Neural Network, Activation Functions, Loss Function, Hyperparameters, Gradient Descent, Stochastic Gradient Descent, Backpropagation and regularization, Batch normalization, Building an ANN in Python, Frameworks-TensorFlow, Keras.

Subject: Front End Design Tool VB. Net Lab

Unit-I

Introduction to Visual Basic .Net Framework - .Net Architecture, Features of .Net, Advantages of .Net, .Net Framework, CLR, CTS, CLS, Assemblies, Memory management issues – Garbage Collector and collection process. Introduction to Visual Basic.Net IDE: Creating a project, Types of project in .Net, Exploring and coding a project, Solution explorer, toolbox, properties window, Output window, Object Browser. Programming Basics: Variable, Data Types, Conditional Constructs, Loop Statements, Creating Console Application.

Subject: **Introduction to Security, Acts and Cyber Laws and Cyber Security**

Unit-I

**CYBER ETHICS:** Cyber ethics and its types, Significance of cyber ethics, Need for cyber ethics.

**CYBER CRIME AND CYBER TERRORISM:** Introduction and Overview of Cyber Crime and Cyber Terrorism, Cyber Terrorism and Hackers, Sophisticated Cyber Criminal Organizations.

Subject: IT Act and Cyber

LawsIntroduction to the Cyber World and Cyber Law: Cyber World: An Overview, The internet and online resources, Introduction to Computer Crimes and Cyber Crimes, Distinction between cybercrimes and conventional crimes, Reasons for commission of cyber-crime, Cyber forensic. Classification of cyber-crimes: Cyber criminals and their objectives, Planning of attacks. Types of cybercrimes: Cyber Stalking; Forgery and Fraud, Social engineering attacks, Phishing, DoS and DDoS attacks, Identity Theft, Salami Attack, Net Extortion. Introduction to Cyberspace: Cybercrime, Threats to the virtual world, Cyber Crimes & Social Media attacks, Cyber Squatting,

# 2026 February

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12 Bootcamp	13 IIT Kanpur	14
15	16 Master class on Data Science	17 Artificial Intelligent	18 Cyber Security	19 By istep mentors	20 Coding competition	21
22	23	24	25	26	27	28

**Mrs. Madhvi Jha**

**Newsletter Coordinator**

**Mr. Gyanendra Shukla**

**BCA HOD**

**Mr. Pranav Mishra**

**Director**