



Lingaya's Lalita Devi Institute of Management and Sciences

Department of Computer Applications

Newsletter
December 2025



Hitesh Kumar
BCA(AI)
5th Semester

The Power of Small Habits

We often believe that big success requires big changes, but in reality, it is the small, consistent habits we practice each day that quietly shape our future. A simple habit like waking up ten minutes earlier, choosing healthier food, reading a few pages of a book, or writing down one positive thought daily can lead to powerful long-term results.

Small habits are easy to begin and easier to maintain. Over time, they build confidence and discipline. Just like drops of water slowly fill a bucket, tiny actions repeated over days and weeks bring meaningful change. The key is not speed, but consistency.

Habits also influence our mindset. When we commit to even a small routine, we send a strong message to ourselves: "I am capable of change." This belief builds motivation and resilience when challenges arise.

If you want to improve your life, do not wait for the perfect time. Start small. Start today. Whether your goal is better health, improved learning, stronger relationships, or personal peace, remember: every big change begins with a small, brave step.



Priyanka Shashmal
BCA(AI)
5th semester

Christmas Day

Every year on December 25, people around the world celebrate Christmas Day, a festival that marks the birth of Jesus Christ, who Christians believe is the Son of God and the Savior of humanity. Over time, Christmas has grown into a widely celebrated cultural holiday that brings people together in a spirit of love, sharing, and joy regardless of religious background.

The Meaning of Christmas For Christians, Christmas is a sacred holy day symbolizing God's love for the world, as shown through the birth of Jesus in Bethlehem. According to the Bible, Jesus was born to the Virgin Mary in a humble manger, and his arrival was announced by angels to shepherds. Wise men later followed a guiding star to honor him with precious gifts. This story is a reminder of hope, humility, and divine purpose.

Beyond its religious significance, Christmas represents important universal values such as kindness, generosity, compassion, and peace.



Pushpendra
BCA(AI)
5th Semester

Emerging Technologies

In 2025, we're witnessing a wave of technological advances that promise to reshape industries and everyday life. From ultra-fast computing to smarter devices, this year is marking a major leap in how we interact with technology

Quantum Computing – Unlike traditional computers, quantum computers use quantum mechanics to perform calculations that would take classical computers thousands of years. These machines are expected to revolutionize fields like cryptography, drug discovery, climate modeling and more.

5G Connectivity and Beyond – Rapid expansion of 5G networks (and early work on 6G) is enabling high-speed, low-latency communication. This means faster downloads, smoother streaming, and support for emerging technologies like augmented reality (AR), virtual reality (VR), Internet of Things (IoT), and smart devices everywhere.

Augmented Reality (AR) & Virtual Reality 2.0 (VR 2.0) – AR and VR technologies are becoming more powerful and accessible. With improvements in display quality, responsiveness, and comfort, these technologies are not just for gamers — they're spreading to education, healthcare, remote work, training, and design.



Shravani
BCA(AI)
5th Semester

Innovation & Sustainability

As technology rapidly evolves, many of the newest innovations are designed not just for speed or convenience — but for solving real problems: sustainability, environment, healthcare, and resilience. In 2025, several emerging technologies are proving that smarter and greener can go hand in hand

Technologies Making a Difference

Structural Battery Composites (SBCs) – These are materials that combine energy storage and structural strength. Imagine vehicles, aircraft or devices where the structure itself stores power. This could lead to lighter, more efficient, and environmentally friendly machines.

Osmotic Power Systems & Green Energy Tech – New energy-tech developments are going beyond solar and wind. Osmotic power — generating electricity by exploiting salinity differences in water — is coming back into focus. With pilot systems underway, these innovations could provide clean, steady energy and contribute to sustainable development.

Advanced Environmental & Recycling Tech – Scientists are exploring novel ways to reduce waste and reuse materials. For example, technologies like “bio-recycling,” waste-to-energy conversion, and more efficient resource usage are being refined to make industries more sustainable.

One Day Trip

The BCA Department of LLDIMS is planning an exciting one-day trip to EOD (Every Other Day) on 7th November for students and faculty members. This trip aims to provide a refreshing break from regular academic activities while strengthening teamwork and bonds among students. Participants will have the opportunity to enjoy a variety of outdoor games, adventure activities, and fun-filled experiences in a safe and enjoyable environment. It will also promote physical fitness, stress relief, and social interaction among students. The trip promises to be a memorable and enriching experience for everyone involved..



National Integration Camp

We are delighted to share that our student, Tarandeep Singh, has been selected to participate in the National Integration Camp organized by the National Service Scheme (NSS) Cell, Guru Gobind Singh Indraprastha University.

The camp will be held from 11th November to 17th November 2025, bringing together NSS volunteers from various institutions to promote unity, cultural exchange, and social responsibility.



Proud Announcement

We are delighted to share that Tarndeep, a student of the BCA Department, successfully attended the NSS National Camp held at Kurukshetra University, Haryana. Representing LLDIMS as an NSS volunteer at the national level, Tarndeep showcased exceptional talent and secured the 3rd place in the Solo Dance Competition.

Congratulations to Tarndeep for bringing pride to the institute!



LLDIMS Hosts Eminent Speakers for the M2E Conclave

We are honoured to share that today's M2E Conclave was graced by distinguished speakers and leaders from academia and industry. Our keynote speaker, Prof. (Dr.) R. P. Mohanty, Senior Advisor, AICTE, delivered insightful perspectives for the youth. We were privileged to host Dr. Amit Ahuja from USE, GGSIPU; Prof. (Dr.) Sachin Mangla, Vice Dean, OP Jindal Global University; Mr. Vikas Sachdeva, Executive Vice President, Zee Entertainment; and Mr. Rajeev Mishra, Digital Media Expert. Their presence and valuable contributions enriched the event and inspired the participants. Today, Prof. (Dr.) Rajendra Prasad Mohanty, Senior Advisor, ICFAI Group and AICTE Distinguished Professional, conducted an interactive session with LLDIMS faculty members. He emphasized the significant role teachers play in shaping students' lives, guiding their growth, and inspiring their future. The session was insightful and motivating, encouraging faculty to strengthen their commitment to student development.





LLDIMS Sports Achievement



On 20th November, during the 2nd day of the Sports Meet at Lady Shri Ram College, LLDIMS Judo Team delivered an outstanding performance, securing three bronze medals and one silver medal and emerging as the champions.

Medal Winners:

- 3 Nihaarika Chaudhari (BBA Department) – 40 kg, Bronze
- 2 Divya (BCA Department) – 48 kg, Silver
- 3 Nihaarika Singh (BCA Department) – 52 kg, Bronze
- 3 Monisha Singh (BBA Department) – 63 kg, Bronze
- 3 Rahul (BCA Department) 3rd position in the 100m Run.

Congratulations to the entire LLDIMS Judo Team for their remarkable achievement!



ZEST 2025

🎉 ZEST 2K25 at Lingaya's Vidyapeeth—A Grand Opening to Remember! 🎉

Lingaya's Vidyapeeth witnessed an electrifying start to Zest 2K25 as the festival was graciously inaugurated by the renowned Bollywood actor, **Sharman Joshi** ✨ ⚡

His charismatic presence, warm words, and inspiring journey added immense energy to the atmosphere, setting the perfect tone for the celebrations ahead. The audience erupted with excitement as Sharman Joshi lit up the stage—making the inauguration nothing short of spectacular! From vibrant performances to unstoppable enthusiasm, the event kicked off with overwhelming success, marking the beginning of an unforgettable cultural extravaganza. 🎭 🎪 🎵

A huge thank you to everyone who contributed to making the inauguration ceremony a grand hit. Zest 2K25 has officially begun—and it's only going to get bigger, brighter, and more thrilling from here!



ZEST 2025

LLDIMS students had a magical evening at Zest 2025 as they enjoyed the star-studded night with the sensational **Asees Kaur** ✨🎤
Her soulful voice and energetic performance lit up the stage, making it an unforgettable celebration for everyone. 🌟



ZEST 2025 WINNERS

Congratulations to our talented duet dance performers for securing the 2nd Position at Zest 2025! Your energy, coordination, and dedication truly lit up the stage. We are proud of your achievement and wish you many more victories ahead.



Our respected Secretary Ma'am interacted with all the Zest 2025 participants and winners. She appreciated their enthusiasm, dedication, and outstanding performances during the fest. Ma'am congratulated each student for their achievements and encouraged them to continue striving for excellence. Her motivating words and blessings truly inspired the students to work harder and bring more laurels to the institution in the future.



1st Semester Syllabus

3rd Semester Syllabus

5th Semester Syllabus

Subject - Web Technologies

UNIT – IV

XML: Introduction, Features, XML Naming rules, Building block of XML Document, Difference between HTML & XML, XML Parser, DTD's Using XML with HTML and CSS. Web Hosting Concepts: Concept of domain-Physical domain, virtual domain, registering a domain, need of IP addressing, Web Hosting and Publishing Concepts

Subject - Python Programming

UNIT – IV

Object Oriented Programming: Classes, Objects, Attributes and Methods, Access Specifiers, Constructors, Static Methods, Data Hiding, Encapsulation, Inheritance, Polymorphism.
NumPy Library: Introduction to NumPy, Creation of One-Dimensional Arrays, Reshaping of an Array, Element-wise Operations, Aggregate Operations.
Introduction to Matplotlib: Bar Graphs and Pie Chart

Subject - Operating System & Linux Programming

UNIT - IV

Information Management: Introduction, File Concept, Access methods, Directory and Disk structure, File Protection Linux File Security: Permission types, Examining permissions, changing permissions (symbolic method numeric method)

Subject- Mathematical Foundation For Computer Science

UNIT - IV

NUMERICAL DIFFERENTIATION: First and Second Order Derivatives at Tabular and Non-Tabular Points,
NUMERICAL INTEGRATION
:Trapezoidal Rule, Simpsons 1/3 Rule: Error in Each Formula (without proof.)

Subject - Dynamic Web Designing

UNIT - IV

PHP Database Connectivity: Using PHP to Access a Database, Relational Databases and SQL, PHP Data Objects, MySQLi Object Interface
Introduction to MYSQL, Creating database and other operations on database, Querying a MySQL database with PHP database, connecting to a database, Parsing of the query results, Database querying using prepared statements, Checking data errors.
PHP with Ajax: Introduction, Create an PHP Ajax application.

Subject - Computer Graphics

UNIT – IV

Three Dimensional Viewing: Introduction, Representation of Three-dimensional objects, Projections, Parallel projections: Orthographic Projections, Oblique Projections. Perspective Projection, Hidden Surface Removal: Depth-Buffer (z-buffer) method, Depth-sorting Method (Painter's algorithm)

Subject - Writing Skills

UNIT – IV

Preparing for Job Application, Components of a Formal Application Letter, Formats and Types of official, employment, Resume vs Bio Data, Profile, CV and others, Types of resume, Writing effective resume for employment, Model Letter of Application (Cover Letter) with Resume, Emails, Blog Writing, Memos (Types of Memos) and other recent communication types

Subject - Computer Organization and Architecture

UNIT – IV

Input-Output Organization: Peripheral Devices, Input-Output Interfaces, Asynchronous Data Transfer, Modes of Transfer, Priority Interrupt, Direct Memory Access (DMA).
Memory Organization: Main Memory, Auxiliary Memory, Associative Memory, Cache Memory, Virtual Memory.

Subject : Cloud Computing

UNIT – IV

Virtualization: Introduction - Characteristics of virtualized environments - Taxonomy of virtualization techniques - Virtualization and cloud computing - Pros and cons of virtualization - Technology example: VMware: full virtualization, Types of hardware virtualization: Full virtualization - partial virtualization - para virtualization

Subject - Understanding India

UNIT – IV

The Making of Contemporary India The struggle for Independence (1885-1947) Basic features of Indian constitution: Basic Structure, Doctrine, Fundamental rights, and duties, Directive principles, Federal Structure, Independence of Judiciary and the Parliamentary system

Subject - Discrete Mathematics

UNIT - IV

GRAPHS: Introduction, undirected graph, directed graph, Degree of a vertex, isolated vertex, pendent vertex, in degree, out-degree, Handshaking Theorem
Types of Graphs- Simple graph, null graph, complete graph, regular graph, bipartite graph (complete), Sub graph, Isomorphic graphs, complement of a graph, Matrix representation of a graph: adjacent and incidence matrices.

Subject - Machine Learning with Python

UNIT – IV

Unsupervised learning algorithms: Introduction to Clustering, K-means Clustering, Hierarchical Clustering, Kohonen Self-Organizing Maps. Implementation of Unsupervised algorithms. Feature selection and Dimensionality reduction, Principal Component Analysis.

Subject - Programming for Problem Solving Using C

UNIT - IV

Standard library functions from stdio.h, stdlib.h, conio.h, ctype.h, math.h, string.h, process.h., Usage of command line arguments.

Subject – Principles of Management & Organizational Behaviour

UNIT - IV

Managing People: Meaning and Need of Understanding Human Behaviour in Organization; Models of OB; Major Concepts in OB (elementary) - Personality, Learning, Perception, Attitude and Leadership; Leadership Styles

Subject : Web Security

UNIT – IV

Web services overview, Honeytoken, XML security, AJAX attack trends and common attacks, REST security, Content Security Policy Serialization security, Clickjacking, DNS rebinding, HTML5 security, Logging collection and analysis for web apps, Security testing, IPv6 impact on web security

Subject- fundamental of Information Technology

UNIT - IV

Computer Network & Internet: Basic elements of a communication system, Data transmission modes, Data Transmission speed, Data transmission media, Digital and Analog Transmission, Network Types (LAN, WAN and MAN), Overview of Network devices Hub, Switch, Router, Gateway, Firewall

Subject – Human Value and Ethics

UNIT -IV

Indian Ethos in Organizational Culture and Practice: Ethos of Vedanta; Application of Indian Ethos in Organizations; Relevance of Ethics and Values in organizations in current times; Case Studies and Role-Playing Exercises for inculcating values in personal and professional life.

Subject - Web Development with Java & JSP

UNIT – IV

Java Beans, Java Web Frameworks: Spring MVC: Java Beans, Spring Introduction, Spring Architecture, Spring MVC Module, Bean life cycle, Spring API. Hibernate and Struts: Java Beans, Introduction to Hibernate, Hibernate Architecture, Hibernate Mapping Types, Introduction to Struts, core components, architecture, Interceptors, validation. Advance Networking: Networking Basics, Introduction of Socket, Types of Socket, Socket API, TCP/IP client sockets, URL, TCP/IP server sockets, Datagrams, java.net package Socket, ServerSocket, InetAddress, URL, URLConnection.

2025 December



Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
① External Practical	② External Practical	3	4	5	6	7
8	9	10	11	12	13	14
⑮ Exam Started	16	17	18	19	20	21
22	23	24	⑳ Christmas Day	26	27	28
29	30	31				

Mrs. Madhvi Jha
Newsletter Coordinator

Mr. Atul Sharma
HoD BCA

Dr. Pranav Mishra
Director LLDIMS