



Lingaya's Lalita Devi Institute of Management and Sciences

Department of Computer Applications

Newsletter
November 2025



Hitesh Kumar
BCA(AI)
5th Semester

Guru Nanak Dev Jayanti

Guru Nanak Dev Jayanti, also known as **Gurpurab**, is one of the most sacred festivals in Sikhism. In **2025**, it will be celebrated on **Wednesday, 5th November**. This day marks the **birth anniversary of Guru Nanak Dev Ji**, the founder of Sikhism and the first of the ten Sikh Gurus.

Guru Nanak Dev Ji was born in **1469** at **Talwandi (now Nankana Sahib in Pakistan)**. His teachings emphasized the importance of **truth, equality, humility, and devotion to God**. He spread the message of peace, love, and service to humanity, believing that all people, regardless of caste or creed, are equal in the eyes of God.

On this auspicious day, **Gurdwaras** across the world are beautifully decorated. **Prabhat Pheris** (early morning processions) and **Nagar Kirtans** (religious marches) are organized, where devotees sing hymns and chant prayers. The **Guru Granth Sahib**, the holy scripture of Sikhs, is read continuously for 48 hours in a ritual called **Akhand Path**. The celebration also includes **Langar**, a community meal that symbolizes unity and equality among all.



Priyanka Shashmal
BCA(AI)
5th semester

Children's Day

Children's Day, also known as **Bal Diwas**, is celebrated every year on **14th November** in India. This day marks the **birth anniversary of Pandit Jawaharlal Nehru**, the first Prime Minister of independent India. Pandit Nehru was very fond of children, and they lovingly called him "**Chacha Nehru.**"

He believed that children are the **future of the nation** and that they must be given proper love, care, and education to grow into responsible citizens. On this special day, schools across the country organize **fun activities, games, cultural programs, and competitions** for children. Teachers and parents also encourage children to express their talents and creativity.

Children's Day is a reminder to protect the **rights, happiness, and well-being of every child**, and to nurture them with love and guidance so they can build a bright future for our nation.



Pushpendra
BCA(AI)
5th Semester



GSAT-7R (CMS-03) satellite

GSAT-7R (designated CMS-03) is a next-generation Indian military communication satellite developed by the Indian Space Research Organisation (ISRO) for the Indian Navy. It is designed to provide secure, high-capacity voice, data, and video links for naval assets (ships, submarines, aircraft) and coastal/Maritime Operations Centres across the Indian Ocean Region (IOR).

Key Technical Details

- **Launch mass:** ~4,410 kg, making it the heaviest communication satellite yet launched from Indian soil into a geosynchronous transfer orbit (GTO).
- **Launch date:** 2 November 2025 (India Standard Time) via ISRO's heavy-lift launch vehicle LVM3-M5 from Satish Dhawan Space Centre, Sriharikota.
- **Orbit:** Initially placed in a sub-GTO by LVM3, to manoeuvre into its final geostationary or near-geosynchronous orbit via onboard propulsion.
- **Mission life:** Planned for about 15 years.
- **Payload bands:** Multi-band transponders operating across UHF, S-band, C-band, Ku-band (and extended C), enabling varied communication links (voice, data, video) across multiple platforms.



Shravani
BCA(AI)
5th Semester



Virtual Reality (VR) & Augmented Reality (AR)

Augmented Reality (AR) overlays digital content (graphics, information, audio) onto the *real* world. For example, using your smartphone camera you see your immediate surroundings plus added virtual elements.

• **Virtual Reality (VR)** replaces your surroundings with a fully *virtual* environment. You typically wear a headset that immerses you in a digital world, isolating you from the physical world.

• A helpful distinction: AR keeps the real world central and *adds* digital layers; VR moves you into a separate digital space.

• These fall under the broader umbrella of **Extended Reality (XR)**, which includes AR, VR, Mixed Reality (MR) and other immersive-technologies.

• Both AR and VR are increasingly used beyond just entertainment. Here are some major domains:

• **Education & Training:** VR enables virtual field trips, simulations of hazardous scenarios (firefighters, pilots), while AR can overlay instructions in real-time for students or workers.

• **Healthcare:** AR assists surgeons by overlaying vital data or visuals onto the patient. VR can provide pain-management, therapy, surgical training. (There are news examples of AR/VR being used in surgeries in India)

Cleanliness Drive On Gandhi Jayanti

Cleanliness Drive on the Occasion of Gandhi Jayanti (2nd October 2025)

Organized by the NSS Cell, LLDIMS

On the auspicious occasion of **Gandhi Jayanti**, celebrated every year on **2nd October**, the **NSS Cell of LLDIMS** is proud to organize a **Cleanliness Drive** within the **college campus** and in the **surrounding localities**. This initiative is a humble tribute to the Father of the Nation, **Mahatma Gandhi**, whose life and teachings continue to inspire millions across the world. Gandhi Ji firmly believed that “Cleanliness is next to godliness,” and he tirelessly worked to instill the importance of hygiene, sanitation, and civic responsibility among the citizens of India.

This cleanliness campaign aims not only to beautify our environment but also to spread awareness about the importance of maintaining cleanliness as a way of life. As responsible citizens, it is our collective duty to protect and preserve our surroundings. Through this drive, we wish to encourage every individual—students, faculty, and staff alike—to actively take part and understand that small actions, when combined, can bring about significant change. A clean environment reflects a healthy mind, a disciplined society, and a progressive nation.

The event will commence in the morning with an address by the **Principal of LLDIMS**, followed by a short motivational session highlighting the relevance of Gandhi Ji’s ideals in the modern era.

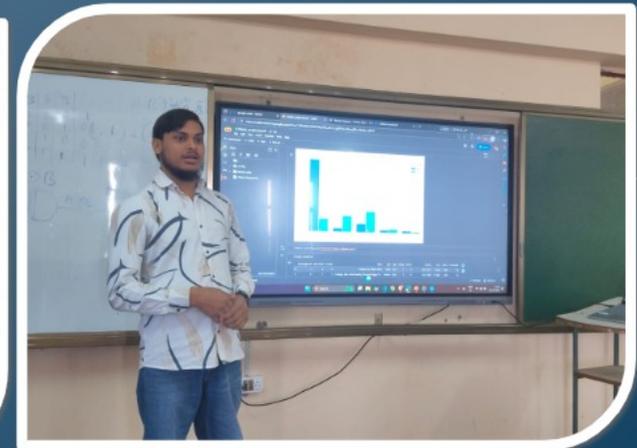
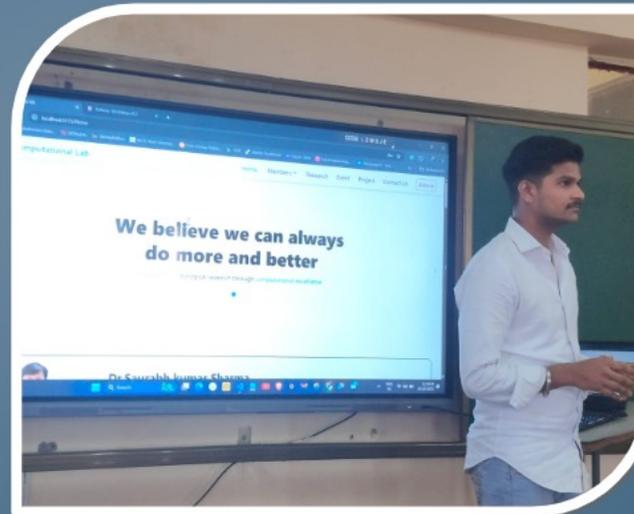


Project Presentation

The BCA Department of LLDIMS successfully organized a Project Presentation event, showcasing the creativity, technical skills, and innovative thinking of the students. The presentation was conducted by the BCA 3rd Year students, who demonstrated their final-year projects with great enthusiasm and professionalism. The participating students — **Pushpenda, Anoop, Siddharth, Amit Kumar, Naiyar Shubhani, and Shruti** — presented their projects on various emerging topics in computer applications, reflecting their hard work and understanding of real-world technological solutions. The event provided a valuable platform for students to exhibit their knowledge, enhance their presentation skills, and receive constructive feedback from faculty members.



New Delhi, Delhi, India
Auditorium, Lingaya's Lalita Devi Institute Of Management,
Mandi, New Delhi, Delhi 110047, India
Lat: 28.444032° Long: 77.144677°



Diwali Utsav 2025

The LLDIMS organized a grand Diwali Utsav 2025 bringing together students, faculty, and staff to celebrate the spirit of joy, unity, and festivity. The college campus was beautifully decorated with lights, rangoli, and colorful decorations, creating a vibrant and cheerful atmosphere. Students enthusiastically set up various stalls, showcasing their creativity and entrepreneurial skills through food corners, games, handmade crafts, and decorative items. The event not only provided entertainment but also encouraged teamwork, innovation, and cultural participation among students. Traditional music, dance performances, and fun activities added charm to the celebration, making it a memorable day for everyone. The Diwali Utsav truly reflected the essence of the festival — spreading happiness, togetherness, and the light of knowledge and positivity across the LLDIMS family.





LLDIMS Sports Achievement



LLDIMS Volleyball Team Triumphs Again at GGSIPU Sports Meet 2025! 🏐 🏆

On 30th October 2025, during Day 2 of the Guru Gobind Singh Indraprastha University Sports Meet, the LLDIMS Volleyball Team once again showcased their exceptional talent and determination by securing another remarkable victory. This win marks the continuation of their impressive winning streak, reflecting their dedication, teamwork, and sportsmanship.

Each player demonstrated extraordinary skill, coordination, and perseverance on the court, making every set a thrilling display of competitive spirit and unity. The team's consistent performance has brought immense pride and joy to the entire LLDIMS fraternity, serving as an inspiration for fellow students to pursue excellence both in academics and co-curricular activities.

The college management and faculty members extend their heartiest congratulations to the entire volleyball team and their coach for this well-deserved achievement. Their success is a testament to rigorous practice, strong discipline, and an unwavering passion for the sport.

May the team continue to rise higher and bring further glory to LLDIMS in the upcoming matches and tournaments! 🎉 🙌





LLDIMS Sports Achievement



Congratulations to **Rahul Kumar** for Winning Silver in Judo! 🏆 🙌

We are delighted to announce that **Rahul Kumar**, a talented student of BCA Department **LLDIMS**, has made the college proud by winning the **Silver Medal in Judo** at the **Guru Gobind Singh Indraprastha University Sports Meet 2025**. His remarkable performance, discipline, and determination truly reflect the spirit of sportsmanship and perseverance. Competing against strong opponents, Rahul showcased exceptional skill, focus, and courage throughout the event. The entire **LLDIMS family** congratulates him on this outstanding achievement and wishes him continued success in his sporting journey ahead. His accomplishment serves as an inspiration for all students to strive for excellence both on and off the field. 🏆 🌟

Rahul's journey to this achievement has been one of consistent hard work, regular practice, and an unwavering passion for Judo. His dedication towards mastering the art of this martial sport has truly paid off, making both his mentors and peers proud. This remarkable success stands as a testament to the efforts of our sports department and coaches, who continuously guide and motivate students to bring out their best on the field.



1st Semester Syllabus

3rd Semester Syllabus

5th Semester Syllabus

Subject - Web Technologies

UNIT – III

Introduction to Java Script: Data Types, Control Statements, operators, dialog boxes, Built in and User Defined Functions, Objects in Java Script, Handling Events, basic validations, Document Object Model, Browser Object Model.

Subject - Python Programming

UNIT – III

Concept of Functions: Functions: Defining, Calling and Types of Functions, Arguments and Return Values, Formal vs. Actual Arguments, Scope and Lifetime, Keyword Arguments, Default Arguments, Recursion and Modules
File handling: Types of Files (Text file, Binary Files, CSV files), Creation, writing, appending, Insertion, deletion, updating, modification of Data in into the files.

Subject - Operating System & Linux Programming

UNIT - III

Memory Management: Background, Logical versus Physical Address space, swapping, Contiguous allocation, Segmentation, Paging
Virtual Memory: Demand Paging, Performance of Demand Paging, Page Replacement, Page replacement Algorithms, Allocation of Frames, Thrashing
Deadlocks: System Model, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock

Subject- Mathematical Foundation For Computer Science

UNIT - III

SOLUTION OF LINEAR SIMULTANEOUS EQUATIONS: Gaussian Elimination Method with and without Row Interchange: LU Decomposition: Gauss - Jacobi and Gauss-Seidel Method; Gauss – Jordan Method and to find Inverse of a Matrix by this Method. 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 - III

Working with Files: Opening and Closing Files, creating directories and files, Reading and Writing to Files, file inclusion, file uploading and downloading, Getting Information on Files.
Object Oriented Features: Classes and Objects, Building Classes, Access Modifiers, Reusability, Constructors, Destructor, Inheritance, Overloading, Overriding, Abstract Class, Final Class, Interfaces
Exception Handling: Try, catch and throw, Creating custom Exception class

Subject - Computer Graphics

UNIT – III

Representing Introduction to Polygon Meshes and its types, Parametric Cubic Curves: parametric and geometric continuity, Hermite, Bezier & B-Spline. Surfaces Surface rendering- Basic Illumination, Effect of ambient lighting and distances, Shading models- Gourard Shading, phong model.

Subject - Writing Skills

UNIT – III

Special Technical Documents Writing: Project synopsis and report writing, Scientific Article and Research Paper writing, Dissertation writing: Features, Preparation and Elements Technical Proposal Writing: Purpose, Types, characteristics and structure

Subject - Computer Organization and Architecture

UNIT – III

Data Transfer Operations: Register Transfer, Bus and Memory Transfer, Registers and micro-operations.
Basic Computer Organizations and Design: Instruction Codes, Computer Registers, Instruction Cycle, General Register Organization, Stack Organization, Instruction Formats, Addressing Modes,

Subject : Cloud Computing

UNIT – III

Principles of Parallel and Distributed Computing: Parallel vs. distributed computing - Elements of parallel computing - Hardware architectures for parallel processing, Approaches to parallel programming - Laws of caution.

Subject - Understanding India

UNIT – III

The Indian Economy :Features of the Indian economy from past to present (agriculture, industry and trade)

Subject - Discrete Mathematics

UNIT - III

PARTIAL ORDER RELATIONS AND LATTICES: Partial Order Sets, Totally ordered sets, Representation of POSETS using Hasse diagram, Chains, Maximal and Minimal elements, Greatest lower bound, least upper bound, Lattices and Algebraic Structure, Principle of Duality, Elementary Properties of Lattices, Atoms. Sub lattices, Bounded lattice, Distributed & Complemented Lattices, Isomorphic lattices.

Subject - Machine Learning with Python

UNIT – III

Artificial Neural Networks, HebbNet, Perceptron, Adaline, Multilayer Neural Network, Architecture, Activation Functions, Loss Function, Hyper parameters, Gradient Descent, Backpropagation, Variants of Backpropagation, Avoiding overfitting through Regularization, Applications of Neural Networks.

Subject - Programming for Problem Solving Using C

UNIT - III

Structures: Structures, unions, Enumeration, passing structure to functions, arrays and structures, typed of, difference between structure and union, self-referential structure, bit fields. File handling [text (ASCII), binary]: file input output operations, file access modes, file pointers, file Positioning functions (fseek, ftell, rewind etc.)

Subject – Principles of Management & Organizational Behaviour

UNIT - III

Organizational Behavior: Concept and Nature of Organizational Behaviour; Importance and Opportunities of Organizational Behaviour; Challenges of OB in the 21st Century; Organizational Culture: Meaning, Importance and Characteristics of Organizational Culture; Motivation: Concept & Theories of Motivation (Maslow's Need Hierarchy, Herzberg Two Factor, McGregor's Theory X & Y, and Alderfer's ERG Theory)

Subject : Web Security

UNIT – III

Wireless Network Security: Components, Security issues, Securing a Wireless Network, Mobile Security
Management: Disaster Recovery, Ethical Hacking, Penetration Testing, Computer Forensics, Cyber laws and crime, Security Audit and Investigation, Cyber Security Solutions

Subject- fundamental of Information Technology

UNIT - III

Computer Number System: Positional and Non-positional number systems, Binary, Decimal, Octal and Hexadecimal Number Systems and their inter-conversion. Binary Arithmetic: Addition, subtraction, multiplication and division. Use of complement method to represent negative binary numbers, 1's complement, 2's complement, subtraction using 1's complement and 2's complement. Introduction to Binary Coded Decimal (BCD), ASCII Codes, EBCDIC codes.

Subject – Human Value and Ethics

UNIT -III

Character, Values and Ethics in Professional Practice: Effects of Thoughts on Character; Core Values for Professional Excellence, Ethics and Profession; Building Trusting Relationships; Respecting the competence of other professions; Ethics at the workplace - cybercrime, plagiarism, sexual misconduct, fraudulent use of institutional resources etc.

Subject - Web Development with Java & JSP

UNIT – III

Java Server Pages: Introduction to JSP, Comparison with Servlet, JSP Architecture, JSP Life Cycle, JSP Directives, JSP Action, JSP Standard Tag Libraries, JSP Session Management. Develop Web Applications with JSF: JavaServer Faces (JSF) framework, architecture of JSF web applications, development view of a JSF application.

2025 November



Note

short trip to EOD
Technical Quiz Competition
practical exam

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 Mid-term	4 Mid-term	5 Mid-term	6 Mid-term	7 Short trip to EOD	8
9	10	11	12	13	14 Technical Quiz Competition	15
16	17	18	19	20	21 Practical Exam	22
23	24	25	26	27	28	29
30						

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