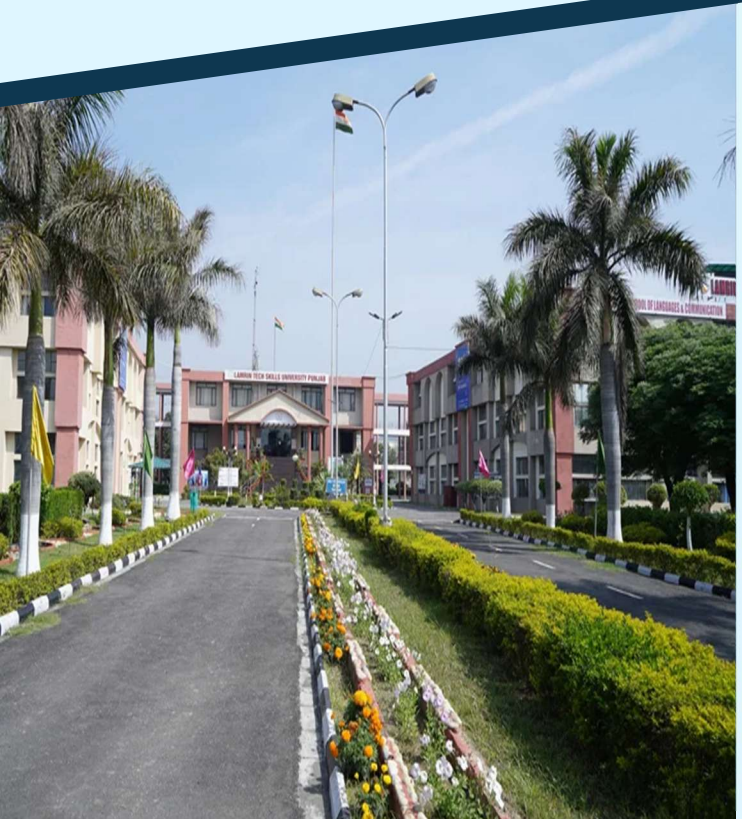
"Every line of code you write builds the future; every vulnerability you secure protects it. You aren't just learning to navigate the digital world—you are learning to defend it."



Shape the Future with Computer Applications

"From logic to algorithms, from databases to AI—decode your future with a Bachelor of Computer Applications."

Address- Lamrin Tech Skills University Punjab

Chandigarh- Jalandhar National Highway (NH344A)

Postal Code-144533

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Contact us- +91 98554 28846, +91 83602 50986

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Email- office.usoc@ltsu.ac.in

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Website- https://www.ltsu.ac.in/university-school-of-computing



Lamrin Tech Skills University Punjab

BCA Regular

Study Scheme

University School of Computing

Batch 2026

Contact Here for admission-
+91 98554 28846, +91 83602 50986

OBJECTIVES

Develop proficiency in programming languages such as C, C++, Java, or Python.

Understand core programming concepts like algorithms, data structures, and problem- solving techniques.

Acquire knowledge in designing and developing web applications.

Learn HTML, CSS, JavaScript, and possibly server-side scripting languages.

Learn about network configuration and management.

Apply mathematical concepts to solve computing problems.

Course Curriculum Overview: Year I

Welcome to our comprehensive curriculum designed to transform aspiring tech enthusiasts into industry-ready professionals. This program blends foundational computer science principles, practical software development, and cutting-edge technologies like Artificial Intelligence and Cyber Security.

Through a mix of rigorous theory and hands-on laboratory work, you will master problem-solving, system design, and data management using industry-standard tools.

"This is where theory becomes impact."

Semester- I

- Introduction to Programming and Problem-Solving using C++ & Lab
- Mathematics for Computing
- Operating System
- English Communication & Lab
- Environmental Science
- Computer Fundamentals & Lab
- Introduction to Cyber Security and Data Protection.

Semester- II

- Data Structure and Algorithms using C++ Lab
- Problem Solving using Python PBL & Lab
- Data Base Management System & Lab
- Computer Organization and Architecture
- NextGen Publishing
- Introduction to Artificial Intelligence.



PROGRAMME OUTCOMES

- Advanced Technical Proficiency
- Mathematical Optimization and Problem-Solving:
- Network Infrastructure & Protocols.
- Modern Web Paradigms.
- Proficiently design and develop robust software applications using high-level languages like C, C++, Java, and Python.
- Oversee the entire software engineering lifecycle, including systematic design, continuous testing, and application maintenance.
- Analyze computer architecture components to optimize hardware performance and functional engineering efficiency.
- Manage operating system resources, focusing on process scheduling, memory allocation, and hardware abstraction layers.
- Architect scalable relational databases utilizing data normalization techniques to ensure system integrity.
- Author complex Structured Query Language (SQL) statements for optimized data retrieval and manipulation.

Course Curriculum Overview: Year II

Take your technical expertise to the next level. This phase of the curriculum shifts focuses toward full-stack development, modern networking, data intelligence, and the cognitive skills required by today's leading tech employers.

Through intensive Project-Based Learning (PBL), hands-on lab experiments, and professional certifications, you will transition from a student to an industry-ready engineer capable of designing complex digital solutions.



Semester- III

- Web Technologies PBL & Lab
- AI Prompting & Output Design & Lab
- Professional Ethics and Civic Moral
- Software Engineering
- Electronics Essentials for IT & Lab
- Design Thinking
- MOOC Certification/ Summer Internship

Semester- IV

- Java Programming PBL & Lab
- Network Security Fundamentals & Lab
- Computer Networks
- Data Warehouse and Mining
- Advance Excel & Lab
- Internet of Things
- Financial Accounting for IT Professionals
- Employability & Soft Skills



INDUSTRY & SKILLING PARTNERS

Course Curriculum Overview: Year III

This final phase represents the peak of your academic journey. It is designed to transition you from the classroom directly into the global tech workforce or advanced research.

Rather than standard lectures, this period focuses entirely on independent execution, real-world corporate experience, and thought leadership. You will apply everything you have learned—programming, system architecture, security, and design thinking—into concrete deliverables that prove your readiness to the industry.



Semester- V

- Project Work
- MOOC Certification/ Summer Internship
- Seminar
- Internship

Semester- VI

- Capstone Project
- Seminar
- Internship

