

LAMRIN TECH SKILLS UNIVERSITY PUNJAB
University School of Engineering and Technology (USET)
STUDY SCHEME | B.Tech Computer Science and Engineering

PROGRAMME DETAILS	
Programme Name	B.Tech Computer Science and Engineering
Industry Partner	Powered by L&T (Larsen & Toubro)
School	University School of Engineering and Technology (USET)
Batch	2025-28 (Lateral Entry)
Duration	3 Years (6 Semesters)
Admission Year	2025

Semester III — Second Year			
S.No.	UGC Code	Subject Code	Course Name
1	DC	UGCC-202	Computer System Organization and Architecture
2	DC	UGCC-203	Operating Systems
3	DM	UGCC-XXX	Elective-I
4	DC	UGCC-204	Principle of Modern Software Engineering
5	DC	UGCC-209	Front-End UI/UX Development
6	DC	UGCC-209A	Front-End UI/UX Development Lab
7	SEC	UGPD-101	Personality Development Workshop-I
8	SI	UGST-201	Summer Training (With Project)
9	SEC	UGOE-XXX	Open Elective-III (Online Certification Course through MOOC, SWAYAM, EDX etc.)
			Total: 27 Hrs

Semester IV — Second Year			
S.No.	UGC Code	Subject Code	Course Name
1	DC	UGCC-201	System Programming
2	DC	UGCC-201A	System Programming Lab
3	DC	UGCC-231	Server-Side Development & Database
4	DC	UGCC-231A	Server-Side Development & Database Lab
5	DM	UGCC-304	Design Thinking
6	DM	UGCC-304A	Design Thinking Lab
7	DM	UGCS-XXX	Elective-II
8	DM	UGCC-224	Automata Theory & Computability
9	SEC	UGOE-XXX	Certification with Minor Project (45 Hrs.)
10	VAC	UGHF-101	Health & Fitness
			Total: 34 Hrs

□ After Completion of 2nd Year — Diploma in Computer Science and Engineering

LAMRIN TECH SKILLS UNIVERSITY PUNJAB
 University School of Engineering and Technology (USET)
STUDY SCHEME | B.Tech Computer Science and Engineering

Semester V — Third Year			
S.No.	UGC Code	Subject Code	Course Name
1	DC	UGCC-310	Backend Frameworks and API
2	DC	UGCC-310A	Backend Frameworks and API Lab
3	DC	UGCC-303	Data Communication and Computer Networks
4	DC	UGCC-303A	Data Communication and Computer Networks Lab
5	DC	UGCC-321	Compiler Design
6	DC	UGCC-321A	Compiler Design Lab
7	DM	UGCC-XXX	Elective-III
8	SEC	UGPD-102	Personality Development Workshop-II
9	SI	UGIT-301	Institutional Training with Project
10	SEC	UGOE-XXX	Open Elective-IV (Online Certification Course through MOOC, SWAYAM, EDX etc.)
			Total: 33 Hrs

Semester VI — Third Year			
S.No.	UGC Code	Subject Code	Course Name
1	DC	UGCC-322	Cloud Computing Technology
2	DC	UGCC-322A	Cloud Computing Lab
3	DC	UGCC-325	Advanced JavaScript Frameworks
4	DC	UGCC-325A	Advanced JavaScript Frameworks Lab
5	DM	UGCC-324	Open Source Software and Open Standards
6	DC	UGCC-326	Testing and Deployment
7	DC	UGCC-326A	Testing and Deployment Lab
8	DM	UGCC-XXX	Elective-IV
9	SEC	UGOE-XXX	Certification with Major Project
			Total: 34 Hrs

After Completion of 3rd Year — B.Sc. in Computer Science and Engineering

Semester VII — Fourth Year			
S.No.	UGC Code	Subject Code	Course Name
1	RP	UGOJD-401	On Job Deployment

LAMRIN TECH SKILLS UNIVERSITY PUNJAB
 University School of Engineering and Technology (USET)
STUDY SCHEME | B.Tech Computer Science and Engineering

Semester VIII — Fourth Year

S.No.	UGC Code	Subject Code	Course Name
1	RP	UGOJD-402	On Job Deployment

□ After Completion of 4th Year — B.Tech Degree in Computer Science and Engineering

ELECTIVES — COURSE OPTIONS

Elective-I (Semester III)

S.No.	Subject Code	Course Name
1	UGCC-206	IT Infrastructure Landscape Overview
2	UGCC-207	Machine Learning
3	UGCC-208	Computer Graphics
4	UGCC-113	Introduction to AI
5	UGCC-225	Linux Administration

Elective-II (Semester IV)

S.No.	Subject Code	Course Name
1	UGCC-227	Predictive Analytics
2	UGCC-228	Descriptive Analytics
3	UGCC-229	Data Wrangling & Data Visualisation
4	UGCC-230	Software Project Management
5	UGCC-205	Introduction to Data Analytics

Elective-III (Semester V)

S.No.	Subject Code	Course Name
1	UGCC-305	Importance of Cyber Security in Industries
2	UGCC-306	Social & Web Analytics
3	UGCC-307	Advanced Computer Graphics, Computer Animation Algorithm and Techniques
4	UGCC-308	Digital Image Processing
5	UGCC-309	Big Data Analytics

LAMRIN TECH SKILLS UNIVERSITY PUNJAB
University School of Engineering and Technology (USET)
STUDY SCHEME | B.Tech Computer Science and Engineering

Elective-IV (Semester VI)

S.No.	Subject Code	Course Name
1	UGCC-330	Introduction to IoT
2	UGCC-331	Introduction to Blockchain Technology
3	UGCC-332	Machine Learning
4	UGCC-333	Ethical Hacking & Penetration Testing
5	UGCC-334	Introduction to IT Security

PROGRAMME EXIT MILESTONES

- ◆ After Year 2 (Semesters III & IV) → Diploma in Computer Science and Engineering
- ◆ After Year 3 (Semesters V & VI) → B.Sc. in Computer Science and Engineering
- ◆ After Year 4 (Semesters VII & VIII) → B.Tech Degree in Computer Science and Engineering

Lamrin Tech Skills University Punjab | www.itsu.ac.in | info@itsu.ac.in