



# LAMRIN TECH SKILLS UNIVERSITY PUNJAB

University School of Engineering and Technology (USET)

**STUDY SCHEME** | B.Tech CSE — Robotic Process Automation with AI & ML (QSpiders)

## PROGRAMME DETAILS

<b>Programme Name</b>	B.Tech CSE (Robotic Process Automation with AI & ML)
<b>Industry Partner</b>	Powered by QSpiders
<b>School</b>	University School of Engineering and Technology (USET)
<b>Batch</b>	2026-2030
<b>Duration</b>	4 Years (8 Semesters)
<b>Admission Year</b>	2026

### Semester I — First Year

S.No.	Course Name
1	Core Java-I
2	Core Java-I Lab
3	Web Technologies-I
4	Web Technologies-I Lab
5	Process Automation using AI
6	Business Process Management
7	AI Web Automation
8	Mathematics-I

### Semester II — First Year

S.No.	Course Name
1	Core Java-II
2	Core Java-II Lab
3	Web Technologies-II
4	Web Technologies-II Lab
5	Process Automation Engineering
6	Mobile App Process Automation
7	AI Mobile Automation
8	Mathematics-II

**Note:** Summer Internship — Aptitude-I: to be completed after Semester II.

**After Completion of 1st Year — Certificate in Computer Science and Engineering**



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## Semester III — Second Year

S.No.	Course Name
1	Advanced Java-I
2	Advanced Java-I Lab
3	Web Technologies-III
4	Web Technologies-III Lab
5	Data Structure
6	API Development
7	AI API Automation
8	English Communication
9	Summer Internship — Aptitude-I
10	Open Elective-I (Online Certification Course through MOOC, SWAYAM, EDX etc.)

## Semester IV — Second Year

S.No.	Course Name
1	Advanced Java-II
2	Advanced Java-II Lab
3	Programming Best Practices
4	Programming Best Practices Lab
5	Enterprise Application Process Automation
6	Software Quality Assurance
7	Prompt Engineering
8	Nutrition for Health and Fitness

**Note:** Summer Internship — Aptitude-II: to be completed after Semester IV.

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

## Semester V — Third Year

S.No.	Course Name
1	DevOps
2	DevOps Lab
3	Python-I
4	Python-I Lab
5	Cloud Technologies-I
6	No-SQL Database Management System



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7	Generative AI
8	Yoga Education
9	Summer Internship — Aptitude-II
10	Skill Enhancement — Mini Project-I
11	Open Elective-II (Online Certification Course through MOOC, SWAYAM, EDX etc.)

## Semester VI — Third Year

S.No.	Course Name
1	Python-II
2	Python-II Lab
3	Machine Learning
4	Machine Learning Lab
5	Artificial Intelligence and Deep Learning
6	Natural Language Processing
7	Data Science
8	Environmental Science
9	Skill Enhancement — Minor Project-II

**Note:** Summer Internship — Industry Trending Technology: to be completed after Semester VI.

**After Completion of 3rd Year — B.Sc. in Computer Science and Engineering (RPA)**

## Semester VII — Fourth Year

S.No.	Course Name
1	Projects
2	Seminar
3	Internship

## Semester VIII — Fourth Year

S.No.	Course Name
1	Projects
2	Seminar
3	Internship

**After Completion of 4th Year — B.Tech Degree in Computer Science and Engineering (RPA with AI & ML)**



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## PROGRAMME EXIT MILESTONES

- ◆ After Year 1 → Certificate in CSE (RPA)
- ◆ After Year 2 → Diploma in CSE (RPA with AI & ML)
- ◆ After Year 3 → B.Sc. in CSE (RPA with AI & ML)
- ◆ After Year 4 → B.Tech Degree in CSE (RPA with AI & ML)

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