



PROGRAMME DETAILS

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| Programme Name | B.Tech CSE (Full Stack Development and Testing with AI & ML) |
| Industry Partner | Powered by QSpiders Eduversity |
| School | University School of Engineering and Technology (USET) |
| Batch | 2026-2030 |
| Duration | 4 Years (8 Semesters) |
| Admission Year | 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 | Relational Database Management System (RDBMS) |
| 6 | Software Development Life Cycle |
| 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 | Data Structure-I |
| 6 | API Development-I |
| 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



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-II |
| 6 | API Development-II |
| 7 | Micro Services-I |
| 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 | Micro Services-II |
| 6 | Prompt Engineering |
| 7 | Critical Thinking & Problem Solving |
| 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 (Full Stack)

Semester V — Third Year

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



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|----|---|
| 7 | Generative AI |
| 8 | Yoga Education |
| 9 | Summer Internship — Aptitude-II |
| 10 | Skill Enhancement — Minor 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 (Full Stack)

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 (Full Stack Dev & Testing with AI & ML)



PROGRAMME EXIT MILESTONES

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

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