



SAGE University, Indore
Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering
National Education Framework
Effective from Academic Session: 2025-26

Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering
 Semester: I

Course wise Distribution of Marks and corresponding Credits

| S. No. | Subject Code <12 digit> | Category | Subject Title | Maximum Marks Allotted | | | | | | Credits | Credits Hours | | | | | | | |
|--------------|----------------------------|----------|--|------------------------|--------------------------------------|--|---|--------------------------------|--|------------|---------------|------------|-----------|----------|----------|-----------|-----------|---|
| | | | | Theory (100 Marks) | | Practical (50 Marks) | | Total Marks | | | | Hours/week | | | | | | |
| | | | | End Sem | Continuous Internal Evaluation (MST) | Attendance / Assg./Pr / Essential Test (MST) | End Sem Exam (ESE) For Practical and Viva | Continuous Internal Evaluation | Lab Work / Attendance/Assignment / viva / Lab manual | | | L | T | P | M/B/ SM | N/C | | |
| 1 | ECBSNEM101T | BSC | Engineering Mathematics-I | 60 | 20 | 20 | - | - | - | 100 | 3 | 1 | - | - | - | 4 | 4 | |
| 2 | ECBSNDT102T | HSS | Design Thinking | 60 | 20 | 20 | - | - | - | 100 | 3 | - | - | - | - | - | 3 | 3 |
| 3 | ECSENBC103T | ESC | Basic Computer Engineering | 60 | 20 | 20 | - | - | - | 100 | 3 | - | - | - | - | - | 3 | 3 |
| 4 | ECBSNPH104T | BSC | Physics | 60 | 20 | 20 | - | - | - | 100 | 3 | - | - | - | - | - | 3 | 3 |
| 5 | ECBSNES105T | HSS | Essential Skills Development I | 60 | 20 | 20 | - | - | - | 100 | 2 | - | - | - | - | - | 2 | 2 |
| 6 | To be selected | ESC | Departmental Skill Enhancement Elective Course-I | - | - | - | 30 | 10 | 10 | 50 | - | - | 4 | - | - | - | 2 | 4 |
| 7 | ECBSNDT102P | HSS | Design Thinking Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | - | 1 | 2 |
| 8 | ECSENBC103P | ESC | Basic Computer Engineering Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | - | 1 | 2 |
| 9 | ECBSNPH104P | BSC | Physics Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | - | 1 | 2 |
| 10 | ECBSNES105P | HSS | Essential Skills Development I LAB | - | - | - | 30 | 10 | 10 | 50 | - | - | 4 | - | - | - | 2 | 4 |
| 11 | TO BE SELECTED* | OEC | Open Elective-I | 60 | 20 | 20 | - | - | - | 100 | 3 | - | - | - | - | - | 3 | 5 |
| Total | | | | 360 | 120 | 120 | 150 | 50 | 50 | 850 | 17 | 1 | 14 | 2 | 0 | 25 | 34 | |

| Course Code | | Course Name |
|-------------|------------|-----------------------------|
| ECSENC110B | ECSENC110B | Computer System Fundamental |

| SList of Departmental Skill Enhancement Elective | |
|--|--------------------------|
| Course Code | Course Name |
| ECSENPC106P | Programming Using C Lab |
| ECSESNPP107P | Python Programming-I Lab |

* Students can opt open elective from the Courses offered by other institutes under group 1 in OE category

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SAGE University, Indore
Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering
National Education Framework
Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering
 Semester: II

Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Course wise Distribution of Marks and corresponding Credits

| S. No. | Subject Code <12 digit> | Category | Subject Title | Maximum Marks Allotted | | | | | | | | | | Credits | Hours | | | | |
|--------------|----------------------------|----------|---|------------------------|--------------------------------|----------------------------|--|----------------------|--------------------------------|---|-------------|----------|-----------|----------|----------|------------|-----------|-----|--|
| | | | | Theory(100 Marks) | | | | Practical (50 Marks) | | | Total Marks | | | | | Hours/week | | | |
| | | | | End Sem | Continuous Internal Evaluation | Attendance/Quiz/Assignment | End Sem. Exam (ESE) For Practical and Viva | Lab Work/WPR | Continuous Internal Evaluation | Attendance / Assignment / viva / Lab manual | Total | L | T | | | P | M/B/SM | NTC | |
| 1 | ECBSNEM201T | BSC | Engineering Mathematics-II | 60 | 20 | 20 | - | - | - | 100 | 3 | 1 | - | - | - | 4 | 4 | | |
| 2 | ECSPNCA202T | PCC | Computer Architecture | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 | | |
| 3 | ECSESNDE03T | ESC | Digital Electronics & Communication | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 | | |
| 4 | To be selected | ESC | Departmental Skill Enhancement Elective Course-II | - | - | - | 30 | 10 | 10 | 50 | - | 4 | - | - | - | 2 | 4 | | |
| 5 | ECSPNCA202P | PCC | Computer Architecture Lab | - | - | - | 30 | 10 | 10 | 50 | - | 2 | - | - | - | 1 | 2 | | |
| 6 | ECSESNDE03P | ESC | Digital Electronics & Communication Lab | - | - | - | 30 | 10 | 10 | 50 | - | 2 | - | - | - | 1 | 2 | | |
| 7 | ECSHSNES20SP | HSS | Essential Skills Development 2 Lab | - | - | - | 30 | 10 | 10 | 50 | - | 4 | - | - | - | 2 | 4 | | |
| 8 | ECSPWVNP204N | PW | Micro Project-I | - | - | - | - | 20 | 30 | 50 | - | - | - | - | - | 4 | 2 | | |
| 9 | ECSESNUIE08N | NC | Universal Human Values & Professional Ethics | - | - | - | - | 20 | 30 | 50 | - | - | - | - | - | 4 | 2 | | |
| Total | | | | 180 | 60 | 60 | 120 | 80 | 100 | 600 | 9 | 1 | 12 | 0 | 8 | 18 | 28 | | |

Signature

| S List of Departmental Skill Enhancement Elective Course-II | |
|---|---------------------------------|
| Course Code | Course Name |
| ECSESNPC06P | Programming in C++ Lab |
| ECSESNPP207P | Advanced Python Programming Lab |



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SAGE University, Indore
Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering
National Education Framework
Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering
 Semester: III

Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Course wise Distribution of Marks and corresponding Credits

| S. No. | Subject Code <12 digit> | Category | Subject Title | Maximum Marks Allotted | | | | | | Credits | Credits Hours | | | | | | |
|--------------|----------------------------|----------|--|------------------------|--------------------------------|--|---------------|--|---------------|------------|---------------|--|-----------|----------|----------|-----------|-----------|
| | | | | Theory (100 Marks) | | Practical (50 Marks) | | Total Marks | | | | Hours/week | | | | | |
| | | | | End Sem | Continuous Internal Evaluation | End Sem. Exam (ESE) For Practical and Viva | Lab Work/ WPR | Attendance/ Assignment/ viva/ Lab manual | Lab Work/ WPR | | | Attendance/ Assignment/ viva/ Lab manual | L | T | P | M/B/ SM | NTC C |
| 1 | ECSEBNSDS301T | BSC | Discrete Structures | 60 | 20 | 20 | - | - | - | 100 | 3 | 1 | - | - | - | 4 | 4 |
| 2 | ECSPCNDB302T | PCC | Data Base Management System | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 3 | ECSESNSE303T | ESC | Software Engineering & Project Management | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 4 | ECSPCNDS304T | PCC | Data Structures and Algorithms | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 5 | To be selected | ESC | Departmental Skill Enhancement Elective Course-III | - | - | - | 30 | 10 | 10 | 50 | - | - | 4 | - | - | 2 | 4 |
| 6 | ECSPCNDB302P | PCC | Data Base Management System Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 7 | ECSESNSE303P | ESC | Software Engineering & Project Management Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 8 | ECSPCNDS304P | PCC | Data Structures and Algorithms Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 9 | ECSESNSE305P | HSS | Essential Skills Development 3 | - | - | - | - | 20 | 30 | 50 | - | - | 4 | - | - | 2 | 4 |
| 10 | ECSESNSE308N | NC | Environmental Science & Disaster Management | - | - | - | - | 20 | 30 | 50 | - | - | 4 | - | - | 2 | 4 |
| 11 | TO BE SELECTED* | OEC | Open Elective-2 | 60 | 20 | 20 | - | - | - | 100 | 3 | - | - | - | - | 3 | 5 |
| Total | | | | 300 | 100 | 100 | 120 | 80 | 100 | 800 | 15 | 1 | 14 | 2 | 4 | 23 | 24 |

#Details of OE-2 Offered

| Course Code | Course Name |
|--------------|----------------------------|
| ECSE0ENT310B | Industry 4.0 with IoT MOOC |

* List of Departmental Skill Enhancement Elective Course-III

| Course Code | Course Name |
|--------------|---------------------------|
| ECSESNCEJ06P | Core Java Programming Lab |
| ECSESNWD307P | Web Designing Lab |

Students can opt open elective from the Courses offered by other institutes under group 2 in OE category



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Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering
National Education Framework
Effective from Academic Session: 2025-26

Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering
 Semester: IV

Course wise Distribution of Marks and corresponding Credits

| S. No. | Subject Code <12 digit> | Category | Subject Title | Maximum Marks Allotted | | | | | | Credits | Credits Hours | | | | | | |
|--------------|-----------------------------|----------|---|------------------------|---|--|---------------|--|--------------------------------|------------|---------------|----------|-----------|----------|----------|-----------|-----------|
| | | | | Theory (100 Marks) | | Practical (50 Marks) | | Total Marks | | | | | | | | | |
| | | | | End Sem | Continuous Internal Evaluation / Assign/Pr (ESE)/For Mid Sem Test (MST) | Attendance/ Assignment / Viva / Lab manual | Lab Work/ WPR | End Sem. Exam (ESE)/For Practical and Viva | Continuous Internal Evaluation | | | L | T | P | M/B/ SM | NTC C | |
| 1 | ECSBSPS401T | BSC | Probability & Statistics | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 2 | ECSPCNCN402T | PCC | Computer Networks | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 3 | ECSPCNOS403T | PCC | Operating System | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 4 | ECSPCNAI404T | PCC | Artificial Intelligence | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 5 | ECSPCNAD408T | PCC | Analysis and Design of Algorithms | 60 | 20 | 20 | - | - | - | 100 | 3 | - | - | - | - | 3 | 3 |
| 6 | To be selected ⁵ | ESC | Departmental Skill Enhancement Elective Course-IV | - | - | - | 30 | 10 | 10 | 50 | - | - | 4 | - | - | 2 | 4 |
| 7 | ECSBSPS401P | BSC | Probability & Statistics Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 8 | ECSPCNCN402P | PCC | Computer Networks Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 9 | ECSPCNOS403P | PCC | Operating System Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 10 | ECSPCNAI404P | PCC | Artificial Intelligence Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 11 | ECSPCNAD408P | PCC | Analysis and Design of Algorithms Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 12 | ECSHSPS405P | HSS | Essential Skills Development | - | - | - | - | 20 | 30 | 50 | - | - | 4 | - | - | 2 | 4 |
| 13 | ECSPPWNP409N | PW | Micro Project-II | - | - | - | - | 20 | 30 | 50 | - | - | - | - | 4 | 2 | - |
| Total | | | | 300 | 100 | 100 | 180 | 100 | 120 | 900 | 15 | 0 | 18 | 0 | 4 | 26 | 33 |

5 List of Departmental Skill Enhancement Elective Course-IV

| Course Code | Course Name |
|--------------|--------------------------------|
| ECSSENAJ406P | Advance Java Programming I Lab |
| ECSSENDW407P | Web Development Using PHP Lab |

Note: Industrial Internship II to be completed after VI semester and before start of VII Semester, i.e. evaluation and credit to be added in VII Semester.



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SAGE University, Indore
Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering
National Education Framework
Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering
 Semester: V

Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Course wise Distribution of Marks and corresponding Credits

| S. No. | Subject Code <12 digit> | Category | Subject Title | Maximum Marks Allotted | | | | | | Credits | | | | |
|--------------|-----------------------------|----------|--|------------------------|--------------------------------|--------------------|--|--|------------|-----------|-------------|-----------|----------|-----------|
| | | | | Theory (100 Marks) | | | Practical (50 Marks) | | | | Total Marks | | | |
| | | | | End Sem | Continuous Internal Evaluation | Mid Sem Test (MST) | Attendance/Assignments/viva/Lab manual | End Sem. Exam (ESE)/Practical and Viva | WPR | | | | | |
| 1 | ECSPCNEIS01T | PCC | Entrepreneurship for Information Technology | 60 | 20 | 20 | - | 100 | 3 | 0 | - | - | 3 | |
| 2 | ECSPCNTCS02T | PCC | Theory of Computation | 60 | 20 | 20 | - | 100 | 3 | 0 | - | - | 3 | |
| 3 | ECSPCNCC503T | PCC | Cloud Computing | 60 | 20 | 20 | - | 100 | 3 | 0 | - | - | 3 | |
| 4 | To be selected | PEC | Elective-I | 60 | 20 | 20 | - | 100 | 3 | 0 | - | - | 3 | |
| 5 | To be selected ⁵ | ESC | Departmental Skill Enhancement Elective Course-V | - | - | - | 30 | 10 | 50 | - | 4 | - | 2 | |
| 6 | ECSPCNEIS01P | PCC | Entrepreneurship for Information Technology Lab | - | - | - | 30 | 10 | 50 | - | 2 | - | 1 | |
| 7 | ECSPCNCC503P | PCC | Cloud Computing Lab | - | - | - | 30 | 10 | 50 | - | 2 | - | 1 | |
| 8 | To be selected | PEC | Elective-I Lab | - | - | - | 30 | 10 | 50 | - | 2 | - | 1 | |
| 9 | To be selected | PEC | Elective-II Lab | 60 | 20 | 20 | - | 100 | 3 | 0 | - | - | 3 | |
| 10 | TO BE SELECTED [#] | OEC | Open Elective-3 | 60 | 20 | 20 | - | 100 | 3 | 0 | - | 2 | 3 | |
| 11 | ECSPPWINS06N | PW | Internship-I | - | - | - | 20 | 30 | 50 | - | - | - | 4 | |
| Total | | | | 360 | 120 | 120 | 120 | 70 | 850 | 18 | 0 | 10 | 2 | 23 |

| Elective-I | | Elective-II | |
|--|--|--------------|--------------------------------------|
| Course Code | Course Name | Course Code | Course Name |
| ECSPENIMS11TP | Network Management & Security /Network Management & Security Lab | ECSPENGES13P | Grid & Edge Computing Lab |
| ECSPENDOS12TP | Distributed Operating System/ Distributed Operating System Lab | ECSPENNES14P | Node, Express & MongoDB Advanced Lab |
| 5 List of Departmental Skill Enhancement Elective Course-V | | | |
| Course Code | Course Name | Course Code | Course Name |
| ECISOENTES10B | Technical Elective | ECSESNCS506P | Unix/Linux Programming Lab |
| | | ECSESNJ507P | Advance Java Programming II Lab |

Students can opt open elective from the Courses offered by other institutes under group 3 in OE category



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SAGE University, Indore
Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering
National Education Framework
Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering
 Semester: VI

Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Course wise Distribution of Marks and corresponding Credits

| S. No. | Subject Code <12 digit> | Category | Subject Title | Maximum Marks Allotted | | | | | | | | | | Credits | Hours/week | Credits Hours | | |
|--------------|-----------------------------|----------|---|------------------------|---|--|---|-------------------|--|-----|-------------|---|-------|---------|------------|---------------|------|-----|
| | | | | Theory(100 Marks) | | | Practical (50 Marks) | | | | Total Marks | | | | | | | |
| | | | | End Sem | Continuous Internal Evaluation Mid Sem Test (MST) | Attendance/Quiz Exam (ESE)/For Practical and Viva | End Sem. Exam (ESE)For Practical and Viva | Lab Work / WPR | Attendance/Assignment / Viva/Lab manual | L | T | P | M/ SM | | | | N/ C | |
| | | | | | | | | | | | | | | | | | | 100 |
| 1 | ECSPCNST601T | PCC | Software Testing & Quality Assurance | 60 | 20 | 20 | - | - | - | - | 100 | 3 | 0 | - | - | 3 | 3 | |
| 2 | ECSPCNC602T | PCC | Compiler Design | 60 | 20 | 20 | - | - | - | - | 100 | 3 | 0 | - | - | 3 | 3 | |
| 3 | ECSPCNCS603T | PCC | Cyber Security | 60 | 20 | 20 | - | - | - | - | 100 | 3 | 0 | - | - | 3 | 3 | |
| 4 | ECSPCNAS604T | PCC | Agile Software Development & DevOps | 60 | 20 | 20 | - | - | - | - | 100 | 3 | 0 | - | - | 3 | 3 | |
| 5 | To be selected*** | PEC | Elective-III | 60 | 20 | 20 | - | - | - | - | 100 | 3 | 0 | - | - | 3 | 3 | |
| 6 | To be selected ^s | ESC | Departmental Skill Enhancement Elective Course-VI | - | - | - | 30 | 10 | 10 | 10 | 50 | - | - | 4 | - | - | 2 | 4 |
| 7 | ECSPCNST601P | PCC | Software Testing & Quality Assurance Lab | - | - | - | 30 | 10 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 8 | ECSPCNC602P | PCC | Compiler Design Lab | - | - | - | 30 | 10 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 9 | ECSPCNCS603P | PCC | Cyber Security Lab | - | - | - | 30 | 10 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 10 | To be selected*** | PEC | Elective-III Lab | - | - | - | 30 | 10 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 11 | ECSPCNAS604P | PCC | Agile Software Development & DevOps Lab | - | - | - | 30 | 10 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 12 | ECSPWNSM609N | PW | Minor Project | - | - | - | - | - | - | 40 | 60 | - | - | - | - | - | 12 | 4 |
| Total | | | | 300 | 100 | 100 | 180 | 100 | 120 | 900 | 15 | 0 | 14 | 0 | 12 | 26 | 29 | |

\$ List of Departmental Skill Enhancement Elective Course-VI

| Course Code | Course Name |
|----------------|---|
| ECSPENCS605T/P | Cloud Skills with Amazon Web Services / Cloud Skills with Amazon Web Services Lab |
| ECSPENEH606T/P | Ethical Hacking / Ethical Hacking Lab |



Note: Industrial Internship II to be completed after VI semester and before start of VII Semester, i.e. evaluation and credit to be added in VII Semester.

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SAGE University, Indore
Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering
National Education Framework
Effective from Academic Session: 2025-26



Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering
 Semester: VII

Course wise Distribution of Marks and corresponding Credits

| S. No. | Subject Code <12 digit> | Category | Subject Title | Maximum Marks Allotted | | | | | | Hours/week | | | | Credits | Credits Hours | | |
|--------------|----------------------------|----------|---------------------------------|------------------------|--|-------------------------------|--|--------------------------------|--|--|--|--|--|---------|---------------|--|----|
| | | | | Theory(100 Marks) | | Practical (50 Marks) | | Total Marks | | L | T | P | M/B/SM | | | N/C | |
| | | | | End Sem | Continuous Internal Evaluation (ESE)/Practical Test (MST) | Attendance/Assignments WPR | End Sem. Exam (ESE)/Practical and Viva | Continuous Internal Evaluation | Lab Work / Attendance/Assignments WPR | Lab Work / Attendance/Assignments WPR | Lab Work / Attendance/Assignments WPR | Lab Work / Attendance/Assignments WPR | Lab Work / Attendance/Assignments WPR | | | Lab Work / Attendance/Assignments WPR | |
| 1 | ECSPCNL701T | PCC | Natural Language Processing | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 2 | ECSPCNM702T | PCC | Wireless & Mobile Computing | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 3 | To be selected*** | PEC | Elective-IV | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 4 | To be selected* | PEC | Elective-V | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 5 | ECSPCNCI703T | PCC | Computational Intelligence | 60 | 20 | 20 | - | - | - | 100 | 3 | 0 | - | - | - | 3 | 3 |
| 6 | ECSPCNL701P | PCC | Natural Language Processing LAB | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 7 | ECSPCNM702P | PCC | Wireless & Mobile Computing Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 8 | To be selected*** | PEC | Elective-IV Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 9 | To be selected* | PEC | Elective-V Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 10 | ECSPCNCI710P | PCC | Computational Intelligence Lab | - | - | - | 30 | 10 | 10 | 50 | - | - | 2 | - | - | 1 | 2 |
| 11 | ECSPWN709N | PW | Internship- II | 300 | 100 | 100 | 150 | 70 | 80 | 800 | 15 | 0 | 10 | 0 | 12 | 26 | 25 |
| Total | | | | | | | | Elective-IV | | | | | | | | | |

| Course Code | Course Name |
|----------------|--|
| ECSPENBS7087/P | Blockchain Technology /Blockchain Technology Lab |
| ECSPENIT7057/P | Internet of Things / Internet of Things Lab |

| Course Code | Course Name |
|----------------|---------------------------------|
| ECSPENBD7067/P | Big Data / Big Data Lab |
| ECSPENDS7077/P | Data Science / Data Science Lab |



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 I.E., SAGE University, Indore

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SAGE University, Indore
Institute Name: Institute of Engineering and Technology
Department Name: Computer Science and Engineering
National Education Framework
Effective from Academic Session: 2025-26

Program: Bachelor of Technology in Computer Science and Engineering (Hons.)
 Semester: VIII

Program Code : B.Tech (CSE)
 Admission batch: 2025-26

Course wise Distribution of Marks and corresponding Credits

| S. No. | Course Code <12 digit> | Category | Course Title | Theory(100 Marks) | | | | | Maximum Marks Allotted | | | | Credits | | | | |
|--------------|---------------------------|----------|---|-------------------|--------------------------------|----------------------|--|-----|---|-----|------------|---|---------|-----|----|-------|----|
| | | | | Theory(100 Marks) | | Practical (50 Marks) | | | Total Marks | | Hours/week | | Credits | | | | |
| | | | | End Sem | Continuous Internal Evaluation | Attendance/Quiz/Exam | End Sem. Exam (ESE) For Practical and Viva | WPR | Lab Work / Attendance/Assignments / Viva/Lab manual | L | T | P | M/B/SM | NTC | C | Hours | |
| 1 | ECSWNNP801N | PW | Major Project/Startup/Industrial Internship | - | - | - | - | 40 | 60 | 100 | 0 | 0 | 0 | 0 | 24 | 12 | 24 |
| Total | | | | - | - | - | - | 40 | 60 | 100 | 0 | 0 | 0 | 0 | 24 | 12 | 24 |

| Offered Credit Summary | |
|------------------------|-----------------------|
| Semester | B.Tech. CSE (Honours) |
| I | 25 |
| II | 18 |
| III | 23 |
| IV | 26 |
| V | 23 |
| VI | 26 |
| VII | 26 |
| VIII | 12 |
| Total | 179 |

| Legends | | |
|-----------------------------------|-------------|-------------|
| L= Lecture | 1 Hr | 1 CR |
| T= Tutorial | 1 Hr | 1 CR |
| P= Practical | 2 Hr | 1 CR |
| S= Studio | 1 Hr | 1.5 CR |
| NTCC = Non Teaching Credit Course | NA | NA |
| M= MOOC | SWAYAM/NPTE | Certificate |
| BM = Blended MOOC | 1 Hr | 1 CR |



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