



SAGE University, Indore
 Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering
CHOICE BASED CREDIT SYSTEM
 Effective from Academic Session: 2024-25

Program: Bachelor of Technology in Computer Science and Engineering

Semester: I

Program Code : B.Tech (CSE)
Admission batch: 2024-25

Course wise Distribution of Marks and corresponding Credits

S. No.	Subject Code <12 digit>	Category	Subject Title	Maximum Marks Allotted						Total Marks	Hours/week					Credits	Credits Hours
				Theory(100 Marks)			Practical (50 Marks)				L	T	P	M/B/ SM	NTCC		
				End Sem	Continuous Internal Evaluation Mid Sem Test (MST)	Attendan ce/Quiz /Assig./Pr esentatio ns	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation									
		Lab Work / WPR	Attendance/A ssignment /viva/Lab manual														
1	EBSDCMAT001T	DC	Engineering Mathematics-I	60	20	20	-	-	-	100	3	1	-	-	-	4	4
2	AECACCOS001T	AECC	Communication Skills & Personality Development	60	20	20	-	-	-	100	3	-	-	-	-	3	3
3	EECDCBEC001T	DC	Basic Electronics	60	20	20	-	-	-	100	3	-	-	-	-	3	3
4	EBSDCPHY001T	DC	Physics	60	20	20	-	-	-	100	3	-	-	-	-	3	3
5	To be selected [§]	DE	Departmental Elective-I	60	20	20	-	-	-	100	3	-	-	-	-	3	3
6	EBSDCPHY001P	DC	Physics Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
7	AECACCOS001P	AECC	Communication Skills Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	To be selected [§]	DSEC	Departmental Skill Enhancement Elective Course-I	-	-	-	30	10	10	50	-	-	4	-	-	2	4
9	EECDCBEC001P	DC	Basic Electronics LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
10	To be selected [§]	DE	Departmental Elective-I LAB	60	20	20	-	-	-	100	3	-	-	-	-	1	2
11	TO BE SELECTED ^{##}	GE	General Elective-1	60	20	20	-	-	-	100	2	-	-	4	-	4	6
Total				420	140	140	150	50	50	950	20	1	10	4	0	26	34

SList of Departmental Skill Enhancement Elective Course - I

Course Code	Course Name
ECSDSPUC001P	Programming Using C Lab
ECSDSPYP001P	Python Programming-I Lab
SList of Departmental Elective Course - I	
Course Code	Course Name
ECSDSECE001T/P	Basic Computer Engg/Basic Computer Engg LAB
ECSDSEJS001T/P	Javascript Basics /Javascript Basics LAB

Details of GE-1 Offered

Course Code	Course Name
ECSGEFCS001B	Computer System Fundamental

Students can opt general elective from the Courses offered by other institutes under group I in GE category

Note: Industrial Internship I to be completed before start of V Semester, i.e. evaluation and credit to be added in V Semester.



SAGE University, Indore
 Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering
CHOICE BASED CREDIT SYSTEM
 Effective from Academic Session: 2024-25

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

Program Code : B.Tech (CSE)
Admission batch: 2024-25

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 Mid Sem Test (MST)	Attendance/Quiz /Assig./Presentations	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation		L	T	P	M/B/SM	NTCC			
1	EBSDCMAT002T	DC	Engineering Mathematics-II	60	20	20	-	-	-	100	3	1	-	-	-	4	4
2	EECDCDEC001T	DC	Digital Electronics & Communication	60	20	20	-	-	-	100	3	0	-	-	-	3	3
3	ECSDCOA001T	DC	Computer Architecture	60	20	20	-	-	-	100	3	0	-	-	-	3	3
4	ECSDCDSA001T	DC	Data Structures and Algorithms	60	20	20	-	-	-	100	3	0	-	-	-	3	3
5	AECACUHV001T	AECC	Universal Human Values & Professional Ethics	60	20	20				100	2	0	-	-	-	2	2
6	To be selected [§]	DSEC	Departmental Skill Enhancement Elective Course-II	-	-	-	30	10	10	50	-	-	4	-	-	2	4
7	EECDCDEC001P	DC	Digital Electronics & Communication Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	ECSDCOA001P	DC	Computer Architecture	-	-	-	30	10	10	50	-	-	2	-	-	1	2
9	ECSDCDSA001P	DC	Data Structures and Algorithms Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
10	AECACUHV001N	AECC	Universal Human Values & Professional Ethics	-	-	-	-	20	30	50	-	-	-	-	4	2	-
11	TO BE SELECTED ^{##}	GE	General Elective-2	60	20	20	-	-	-	100	2	-	-	4	-	4	6
12	ECSDPMIP001N	DAP	Micro Project-I	-	-	-	-	20	30	50	-	-	-	-	4	2	4
Total		-		360	120	120	120	80	100	900	16	1	10	0	8	28	35

§ List of Departmental Skill Enhancement Elective Course-II		* List of Departmental Elective-II		Details of GE-2 Offered	
Course Code	Course Name	Course Code	Course Name	Course Code	Course Name
ECSDSPIC001P	Programming in C++ Lab	ECSDECOA001T/P	Computer Architecture/Computer Architecture Lab	ECSGEIOT002B	Industry 4.0 with IoT MOOC
ECSDSAPP001P	Advanced Python Programming Lab	ECSDEWBD001T/P	Web Development/Web Development Lab		

Note: Industrial Internship I to be completed before start of V Semester, i.e. evaluation and credit to be added in V Semester.

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



SAGE University, Indore

Institute Name: Institute of Engineering and Technology

Department Name: Computer Science and Engineering

CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2024-25

Program: Bachelor of Technology in Computer Science and Engineering

Semester: III

Program Code : B.Tech (CSE)

Admission batch: 2023-24

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 Mid Sem Test (MST)	Attendance/Quiz /Assig./Presentations	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation			L	T	P	M/B/SM			NTCC
								Lab Work / WPR	Attendance/Assignment /viva/Lab								
1	ECSDCDBM001T	DC	Data Base Management System	60	20	20	-	-	-	100	3	0	-	-	-	3	3
2	ECSDCDIS001T	DC	Discrete Structures	60	20	20	-	-	-	100	3	1	-	-	-	4	4
3	To be selected*	DE	Department Elective-II	60	20	20	-	-	-	100	3	0	-	-	-	3	3
4	To be selected**	DE	Department Elective-III	60	20	20	-	-	-	100	3	0	-	-	-	3	3
5	To be selected [§]	DSEC	Departmental Skill Enhancement Elective Course-III	-	-	-	30	10	10	50	-	-	4	-	-	2	4
6	ECSDCDBM001P	DC	Data Base Management System Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
7	To be selected*	DE	Department Elective-II Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	To be selected**	DE	Department Elective-III Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
9	To be selected ^{###}	GE	General Elective-3	60	20	20	-	-	-	100	2	-	-	4	-	4	6
Total				360	100	100	120	40	40	700	14	1	10	4	0	22	29

*** List of Departmental Elective-II**

Details of GE-3 Offered

Course Code	Course Name	Course Code	Course Name
ECSDDEMP1001T/P	Microprocessor & Interfacing / Microprocessor & Interfacing Lab	ECSDGEDST003B	Data Structures MOOC
ECSDDESEP001T/P	Software Engineering & Project Management / Software Engineering & Project Management Lab		
ECSDDEERB001T/P	Es6 & React Basics/ES6 & React Basics Lab		
** List of Departmental Elective-III			
Course Code	Course Name		
ECSDDECGM001T/P	Computer Graphics & Multimedia / Computer Graphics & Multimedia Lab		
ECSDDEADA001T/P	Analysis and Design of Algorithms / Analysis and Design of Algorithms Lab		
ECSDDEDSB001T/P	DSA Beginner/DSA Beginner Lab		
§ List of Departmental Skill Enhancement Elective Course-III			
Course Code	Course Name		
ECSDSCJP001P	Core Java Programming Lab		
ECSDSWDS001P	Web Designing Lab		



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CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2024-25

Program: Bachelor of Technology in Computer Science and Engineering

Semester: III

Program Code : B.Tech (CSE)

Admission batch: 2024-25

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 Mid Sem Test (MST)	Attendance/Quiz /Assig./Presentations	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation		L		T	P	M/B/SM			NTCC	
								Lab Work / WPR	Attendance/Assignment /viva/Lab manual									
1	ECSDCDBM001T	DC	Data Base Management System	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
2	ECSDCDIS001T	DC	Discrete Structures	60	20	20	-	-	-	100	3	1	-	-	-	4	4	
3	To be selected*	DE	Department Elective-II	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
4	To be selected**	DE	Department Elective-III	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
5	AECACEVS001T	AECC	Environmental Science & Disaster Management	60	20	20	-	-	-	100	3	-	-	-	-	3	3	
6	To be selected [§]	DSEC	Departmental Skill Enhancement Elective Course-III	-	-	-	30	10	10	50	-	-	4	-	-	2	4	
7	ECSDCDBM001P	DC	Data Base Management System Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
8	To be selected*	DE	Department Elective-II Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
9	To be selected**	DE	Department Elective-III Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
10	AECACEVS001N	AECC	Environmental Science & Disaster Management	-	-	-	-	20	30	50	-	-	-	-	2	1	-	
11	To be selected ^{###}	GE	General Elective-3	60	20	20	-	-	-	100	2	-	-	4	-	4	6	
Total				360	120	120	120	60	70	850	17	1	10	4	2	26	32	

* List of Departmental Elective-II		Details of GE-3 Offered	
Course Code	Course Name	Course Code	Course Name
ECSDDEMPI001T/P	Microprocessor & Interfacing / Microprocessor & Interfacing Lab	ECSDGEDST003B	Data Structures MOOC
ECSDSESEP001T/P	Software Engineering & Project Management / Software Engineering & Project Management Lab		
ECSDDERB001T/P	Es6 & React Basics/ES6 & React Basics Lab		
** List of Departmental Elective-III		§ List of Departmental Skill Enhancement Elective Course-III	
Course Code	Course Name	Course Code	Course Name
ECSDECGM001T/P	Computer Graphics & Multimedia / Computer Graphics & Multimedia Lab	ECSDSCJP00	Core Java Programming Lab
ECSDEADA001T/P	Analysis and Design of Algorithms / Analysis and Design of Algorithms Lab	ECSDSWDS0	Web Designing Lab
ECSDEDSB001T/P	DSA Beginner/DSA Beginner Lab		



SAGE University, Indore

Institute Name: Institute of Engineering and Technology

Department Name: Computer Science and Engineering

CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2024-25

Program: Bachelor of Technology in Computer Science and Engineering

Semester: IV

Program Code : B.Tech (CSE)
Admission batch: 2024-25
Admission batch: 2023-24

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 Mid Sem Test (MST)	Attendance/Quiz /Assig./Presentations	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation		L		T	P	M/B/SM			NTCC	
								Lab Work / WPR	Attendance/Assignment /viva/Lab manual									
1	ECSDCCON001T	DC	Computer Networks	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
2	ECSDCOPS001T	DC	Operating System	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
3	To be selected*	DE	Department Elective-IV	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
4	To be selected**	DE	Department Elective-V	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
5	To be selected	DSEC	Departmental Skill Enhancement Elective Course-IV	-	-	-	30	10	10	50	-	-	4	-	-	2	4	
6	ECSDCCON001P	DC	Computer Networks Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
7	ECSDCOPS001P	DC	Operating System Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
8	To be selected*	DE	Department Elective-IV Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
9	To be selected**	DE	Department Elective-V Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
10	To be selected###	GE	General Elective-4	60	20	20	-	-	-	100	2	-	-	4	-	4	6	
11	ECSDPMCP001N	DAP	Micro Project-II	-	-	-	-	20	30	50	-	-	-	-	4	2	-	
Total				300	100	100	150	70	80	800	14	0	12	4	4	24	30	

* List of Departmental Elective-IV		Details of GE-4 Offered	
Course Code	Course Name	Course Code	Course Name
ECSDDEMW001T/P	Data Mining & Warehousing / Data Mining & Warehousing Lab	ECSGEUP004B	Computing using Python MOOC
ECSDDEHPC001T/P	High Performance Computing / High Performance Computing Lab		
ECSDDEADR001T/P	Advance React/Advance React Lab		
** List of Departmental Elective-V			
Course Code	Course Name		
ECSDDEOAD001T/P	Object Oriented Analysis and Design - Unified Modeling Language/ Object Oriented Analysis and Design - Unified Modeling Language Lab		
ECSDDESAM001T/P	Simulation & Modeling / Simulation & Modeling Lab		
§ List of Departmental Skill Enhancement Elective Course-IV			
Course Code	Course Name		
ECSDSJPR001P	Advance Java Programming I Lab		
ECSDSWDP001P	Web Development Using PHP Lab		

Students can opt general elective from the Courses offered by other institutes under group 4 in GE category



SAGE University, Indore

Institute Name: Institute of Engineering and Technology

Department Name: Computer Science and Engineering

CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2024-25

Program: Bachelor of Technology in Computer Science and Engineering

Semester: V

Program Code : B.Tech (CSE)

Admission batch:2021-22

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 Mid Sem Test (MST)	Attendan ce/Quiz /Assig./Pr esentatio ns	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation		L		T	P	M/B/ SM			NTCC	
1	ECSDCTOC001T	DC	Theory of Computation	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
2	To be selected*	DE	Department Elective-VII	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
3	To be selected**	DE	Department Elective-VIII	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
4	To be selected***	DE	Department Elective-IX	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
5	To be selected****	DE	Department Elective-X	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
6	To be selected ⁵	DSEC	Departmental Skill Enhancement Elective Course-V	-	-	-	30	10	10	50	-	-	4	-	-	2	4	
7	ECSDCTOC001P	DC	Theory of Computation Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
8	To be selected*	DE	Department Elective-VII Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
9	To be selected**	DE	Department Elective-VIII Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
10	To be selected***	DE	Department Elective-IX Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
11	To be selected****	DE	Department Elective-X	60	20	20	-	-	-	100	3	0	-	-	-	1	2	
12	To be selected ⁵⁵	DSEC	Internship-I	-	-	-	-	20	30	50	-	-	-	-	20	2	-	
Total				360	120	120	150	70	80	900	18	0	12	0	20	24	29	

* List of Departmental Elective-VII				***List of Departmental Elective-IX			
Course Code	Course Name	Course Code	Course Name				
ECSDDOS001T/P	Distributed Operating System / Distributed Operating System Lab	ECSDEGEC001T/P	Grid & Egde Computing / Grid & Egde Computing Lab				
ECSDEAML001T/P	Artificial Intelligence & Machine Learning / Artificial Intelligence & Machine Learning Lab	ECSDECCO001T/P	Cloud Computing / Cloud Computing Lab				
ECSDENMB001T/P	Node, Express & MongoDB Basics/Node, Express & MongoDB Basics Lab	**** List of Departmental Elective-X					
** List of Departmental Elective-VIII							
Course Code	Course Name	Course Code	Course Name				
ECSDECYS001T/P	Cyber Security / Cyber security Lab	ECSDERPA001T/P	Robot Process Automation / Robot Process Automation Lab				
ECSDENMS001T/P	Network Management & Security / Network Management & Security Lab	ECSDEEMS001T/P	Embedded Systems / Embedded Systems Lab				
\$ List of Departmental Skill Enhancement Elective Course-V							
Course Code	Course Name	Course Code	Course Name				
SS Internship-I							
ECSDSULP001P	Unix/Linux Programming Lab	ECSDSJPS001P	Advance Java Programming II Lab				
ECSDSIIN001N	Industrial Internship-I						

SAGE University, Indore

Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering
 CHOICE BASED CREDIT SYSTEM
 Effective from Academic Session: 2024-25

Program: Bachelor of Technology in Computer Science and Engineering

Program Code : B.Tech (CSE)
Admission batch: 2024-25
Admission batch: 2023-24
Admission batch: 2022-23

Semester: V

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 Mid Sem Test (MST)	Attendan ce/Quiz /Assig./Pr esentatio ns	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation		L	T	P		M/B/ SM	NTCC					
								Lab Work / WPR	Attendance/A ssignment /viva/Lab manual											
1	ECSDCTOC001T	DC	Theory of Computation	60	20	20	-	-	-	100	3	0	-	-	-	3	3			
2	ECSDCPPL001T	DC	Principles of Programming Languages	60	20	20	-	-	-	100	4	-	-	-	-	4	4			
3	To be selected*	DE	Department Elective-VI	60	20	20	-	-	-	100	3	0	-	-	-	3	3			
4	To be selected**	DE	Department Elective-VII	60	20	20	-	-	-	100	3	0	-	-	-	3	3			
5	To be selected***	DE	Department Elective-VIII	60	20	20	-	-	-	100	3	0	-	-	-	3	3			
6	To be selected****	DE	Department Elective-IX	60	20	20	-	-	-	100	3	0	-	-	-	3	3			
7	To be selected ^S	DSEC	Departmental Skill Enhancement Elective Course-V	-	-	-	30	10	10	50	-	-	4	-	-	2	4			
8	ECSDCTOC001P	DC	Theory of Computation Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2			
9	To be selected*	DE	Department Elective-VI LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2			
10	To be selected**	DE	Department Elective-VII LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2			
11	To be selected***	DE	Department Elective-VIII LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2			
12	To be selected****	DE	Department Elective-IX LAB	60	20	20	-	-	-	100	3	0	-	-	-	1	2			
13	To be selected ^{SS}	DSEC	Internship-I	-	-	-	-	20	30	50	-	-	-	-	20	2	-			
Total				420	140	140	150	70	80	1000	22	0	12	0	20	28	33			

* List of Departmental Elective-VI			***List of Departmental Elective-VIII		
Course Code	Course Name		Course Code	Course Name	
ECSDDOS001T/P	Distributed Operating System / Distributed Operating System Lab		ECSDEGEC001T/P	Grid & Egde Computing / Grid & Egde Computing Lab	
ECSDEAML001T/P	Artificial Intelligence & Machine Learning / Artificial Intelligence & Machine Learning Lab		ECSDECCO001T/P	Cloud Computing / Cloud Computing Lab	
** List of Departmental Elective-VII			**** List of Departmental Elective-IX		
Course Code	Course Name		Course Code	Course Name	
ECSDECYS001T/P	Cyber Security / Cyber security Lab		ECSDERPA001T/P	Robot Process Automation / Robot Process Automation Lab	
ECSDENMS001T/P	Network Management & Security / Network Management & Security Lab		ECSDEEMS001T/P	Embedded Systems / Embedded Systems Lab	
Departmental Skill Enhancement Elective Course Internship-I			\$ List of Departmental Skill Enhancement Elective Course-V		
Course Code	Course Name		Course Code	Course Name	
ECSDSIN001N	Industrial Internship-I		ECSDSULP001P	Unix/Linux Programming Lab	
			ECSDSJPS001P	Advance Java Programming II Lab	



SAGE University, Indore

Institute Name: Institute of Engineering and Technology

Department Name: Computer Science and Engineering
CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2024-25

Program: Bachelor of Technology in Computer Science and Engineering

Program Code : B.Tech (CSE)
Admission batch: 2024-25
Admission batch: 2023-24
Admission batch: 2022-23
Admission batch: 2021-22

Semester: VI

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 Mid Sem Test (MST)	Attendan ce/Quiz /Assig./Pr esentatio ns	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation		L		T	P	M/B/ SM			NTCC	
1	ECSDCCMD001T	DC	Compiler Design	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
2	To be selected [†]	DE	Department Elective-X	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
3	To be selected ^{**}	DE	Department Elective-XI	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
4	To be selected ^{***}	DE	Department Elective-XII	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
5	To be selected ^{****}	DE	Department Elective-XIII	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
6	To be selected [§]	DSEC	Departmental Skill Enhancement Elective Course-VI	-	-	-	30	10	10	50	-	-	4	-	-	2	4	
7	ECSDCCMD001P	DC	Compiler Design lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
8	To be selected [†]	DE	Department Elective-X LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
9	To be selected ^{**}	DE	Department Elective-XI LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
10	To be selected ^{***}	DE	Department Elective-XII LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
11	To be selected ^{****}	DE	Department Elective-XIII LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
12	ECSDPMNP001N	DAP	Minor Project	-	-	-	-	40	60	100	-	-	-	-	12	6	-	
Total				300	100	100	180	100	120	900	15	0	14	0	12	28	29	

* List of Departmental Elective-X		**** List of Departmental Elective-XIII	
Course Code	Course Name	Course Code	Course Name
ECSDSEQA001T/P	Software Testing & Quality Assurance / Software Testing & Quality Assurance Lab	ECSDDEBDH001T/P	Big Data / Big Data Lab
ECSDDEIT001T/P	Entrepreneurship for Information Technology / Entrepreneurship for Information Technology Lab	ECSDDESE001T/P	Data Science / Data Science Lab
** List of Departmental Elective-XI		§ List of Departmental Skill Enhancement Elective Course-VI	
Course Code	Course Name	Course Code	Course Name
ACTDECYL001T/P	CYBER LAWS/ CYBER LAWS LAB	ECSDSRPR001P	R Programming Lab
ECSDEEMC001T/P	Electronics and Mobile Commerce / Electronics and Mobile Commerce Lab	ECSDSMTL001P	Scilab Lab
ECSDENMA001T/P	Node, Express & MongoDB Advanced/Node, Express & MongoDB Advanced Lab		
*** List of Departmental Elective-XII			
Course Code	Course Name		
ECSDECSA001T/P	Cloud Skills with Amazon Web Services / Cloud Skills with Amazon Web Services Lab		
ECSDEEHK001T/P	Ethical Hacking / Ethical Hacking Lab		

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



SAGE University, Indore

Institute Name: Institute of Engineering and Technology

Department Name: Computer Science and Engineering

CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2024-25

Program: Bachelor of Technology in Computer Science and Engineering

Program Code : B.Tech (CSE)

Admission batch: 2021-22

Semester: VII

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 Mid Sem Test (MST)	Attendance/Quiz /Assig./Presentations	End Sem. Exam (ESE)For Practical	Continuous Internal Evaluation		L		T	P	M/B/SM			NTCC	
1	ECSDCNLP001T	DC	Natural Language Processing	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
2	To be selected*	DE	Department Elective-XIII	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
3	To be selected**	DE	Department Elective-XIV	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
4	To be selected***	DE	Department Elective-XV	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
5	To be selected \$	DSEC	Departmental Skill Enhancement Elective Course-VII	-	-	-	30	10	10	50	-	-	4	-	-	2	4	
6	To be selected \$	DSEC	Departmental Skill Enhancement Elective Course-VIII	-	-	-	30	10	10	50	-	-	4	-	-	2	4	
7	To be selected \$	DSEC	Departmental Skill Enhancement Elective Course-IX	-	-	-	30	10	10	50	-	-	4	-	-	2	4	
8	ECSDCNLP001P	DC	Natural Language Processing LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
9	To be selected*	DE	Department Elective-XIII LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
10	To be selected**	DE	Department Elective-XIV LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
11	To be selected***	DE	Department Elective-XV LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
12	To be selected \$\$\$	DSEC	Internship-II	-	-	-	-	20	30	50	-	-	-	-	20	4	-	
Total				240	80	80	180	60	60	800	12	0	20	0	0	26	32	

* List of Departmental Elective-XIII		*** List of Departmental Elective-XV	
Course Code	Course Name	Course Code	Course Name
ECSDWMC001T/P	Wireless & Mobile Computing / Wireless & Mobile Computing Lab	ECSDWBCC001T/P	Blockchain Technology /Blockchain Technology Lab
ECSDMAN001T/P	Mobile Adhoc Networks / Mobile Adhoc Networks Lab	ECSDIOT001T/P	Internet of Things / Internet of Things Lab
** List of Departmental Elective-XIV		\$\$\$ Internship-II	
Course Code	Course Name	Course Code	Course Name
ECSDCOI001T/P	Computational Intelligence / Computational Intelligence Lab	ECSDSIIN002N	Industrial Internship-II
ECSDASD001T/P	Agile Software Development & DevOps / Agile Software Development & DevOps Lab		
\$ List of Departmental Skill Enhancement Elective Course-VII		§ List of Departmental Skill Enhancement Elective Course-	
Course Code	Course Name	Course Code	Course Name
ECSDSMOS001P	Mobile Operating Systems Lab	ECSDSADR001P	Advance React Lab
ECSDSMDB001P	MongoDB Lab	ECSDSDSI001P	DSA Intermediate/DSA Intermediate Lab

§ List of Departmental Skill Enhancement Elective Course-IX	
Course Code	Course Name
ECSDSSDP001P	Software Design Patterns
ECSDSAPD001P	Application Development



SAGE University, Indore
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 Department Name: Computer Science and Engineering

CHOICE BASED CREDIT SYSTEM
 Effective from Academic Session: 2024-25

Program: Bachelor of Technology in Computer Science and Engineering

Semester: VII

Course wise Distribution of Marks and corresponding Credits

Program Code : B.Tech (CSE)
Admission batch: 2024-25
Admission batch: 2023-24
Admission batch: 2022-23

S. No.	Subject Code <12 digit>	Category	Subject Title	Maximum Marks Allotted						Total Marks	Hours/week					Credits	Credits Hours
				Theory(100 Marks)			Practical (50 Marks)				L	T	P	M/B/ SM	NTCC		
				End Sem	Continuous Internal Evaluation Mid Sem Test (MST)	Attendan ce/Quiz /Assig./Pr esentatio ns	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation	Lab Work / WPR								
1	ECSDCNLP001T	DC	Natural Language Processing	60	20	20	-	-	-	100	3	0	-	-	-	3	3
2	To be selected*	DE	Department Elective-XIV	60	20	20	-	-	-	100	3	0	-	-	-	3	3
3	To be selected**	DE	Department Elective-XV	60	20	20	-	-	-	100	3	0	-	-	-	3	3
4	To be selected***	DE	Department Elective-XVI	60	20	20	-	-	-	100	3	0	-	-	-	3	3
5	To be selected [§]	DSEC	Departmental Skill Enhancement Elective Course-VII	-	-	-	30	10	10	50	-	-	4	-	-	2	4
6	ECSDCNLP001P	DC	Natural Language Processing LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
7	To be selected*	DE	Department Elective-XIV LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	To be selected**	DE	Department Elective-XV LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
9	To be selected***	DE	Department Elective-XVI LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
10	To be selected ^{§§§}	DSEC	Internship-II	-	-	-	-	20	30	50	-	-	-	-	20	4	-
Total				240	80	80	180	60	60	700	12	0	12	0	0	22	24

* List of Departmental Elective-XIV		*** List of Departmental Elective-XVI	
Course Code	Course Name	Course Code	Course Name
ECSDWMC001T/P	Wireless & Mobile Computing / Wireless & Mobile Computing Lab	ECSDWMC001T/P	Blockchain Technology /Blockchain Technology Lab
ECSDMAN001T/P	Mobile Adhoc Networks / Mobile Adhoc Networks Lab	ECSDIOT001T/P	Internet of Things / Internet of Things Lab
ECSDDSP001T/P	DSA Pioneer/DSA Pioneer Lab		
** List of Departmental Elective-XV		§§§ Internship-II	
Course Code	Course Name	Course Code	Course Name
ECSDCOI001T/P	Computational Intelligence / Computational Intelligence Lab	ECSDIIN002N	Industrial Internship-II
ECSDASD001T/P	Agile Software Development & DevOps / Agile Software Development & DevOps Lab		
§ List of Departmental Skill Enhancement Elective Course-VII			
Course Code	Course Name		
ECSDSMOS001P	Mobile Operating Systems Lab		
ECSDSMDB001P	MongoDB Lab		



SAGE University, Indore
 Institute Name: Institute of Engineering and Technology
 Department Name: Computer Science and Engineering
CHOICE BASED CREDIT SYSTEM

Effective from Academic Session: 2024-25

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

Semester: VIII

Program Code : B.Tech (CSE)
Admission batch: 2024-25
Admission batch: 2023-24
Admission batch: 2022-23
Admission batch: 2021-22

Course wise Distribution of Marks and corresponding Credits

S. No.	Course Code <12 digit>	Category	Course Title	Maximum Marks Allotted											Credits	Credits Hours	
				Theory(100 Marks)			Practical (50 Marks)		Total Marks	Hours/week							
				End Sem	Continuous Internal Evaluation Mid Sem Test (MST)	Attendance/Quiz /Assig./Presentations	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation		L	T	P	M/B/SM	NTCC			
								Lab Work / WPR									Attendance/Assignment /viva/Lab manual
1	ECSDPMJP001N	DAP	Major Project	-	-	-	-	40	60	100	-	-	-	-	24	12	24
Total				-	-	-	-	40	60	100	0	0	0	0	24	12	24

Offered Credit Summary	
Semester	B.Tech. CSE (Honours)
I	26
II	28
III	26
IV	24
V	28
VI	28
VII	22
VIII	12
Total	194

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/NPTEL	Certificate
BM = Blended MOOC	1 Hr	1 CR