



**SAGE University, Indore**  
**Institute of Advance Computing**  
**Department of Computer Science & Technology**  
**CHOICE BASED CREDIT SYSTEM**  
**Effective from Academic Session: 2024-25**

Program:		Bachelor of Technology in Computer Science and Technology (Hon)								Program Code : B.Tech (CST)							
Semester:		I								Admission batch: 2024-25							
Course wise Distribution of Marks and corresponding Credits																	
S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted						Total Marks	Hours/week					Credits	Credits Hours
				Theory(100 Marks)			Practical (50 Marks)				L	T	P	SM	NT CC		
				End Sem	Continuous Internal Evaluation Mid Sem Test (MST)	Attendance/Quiz/Assign./Presentations	End Sem. Exam (ESE) or Practical and Viva	Continuous Internal Evaluation	Lab Work/ WPR								
1	ACTDCBCE001T	DC	Basic Computer Engineering	60	20	20	-	-	-	100	3	-	-	-	-	3	3
2	ACTDCMAT001T	DC	Engineering Mathematics-I	60	20	20	-	-	-	100	3	1	-	-	-	4	4
3	ACTDCPSP001T	DC	Problem Solving in Programming using C++	60	20	20	-	-	-	100	3	-	-	-	-	3	3
4	ACTDCBEC001T	DC	Basic Electronics	60	20	20	-	-	-	100	3	-	-	-	-	3	3
5	AECACCOS001T	AECC	Communication Skills- I: Verbal & Written	60	20	20	-	-	-	100	4	-	-	-	-	4	4
6	ACTDCBCE001P	DC	Basic Computer Engineering Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
7	ACTDCPSP001P	DC	Problem Solving in Programming using C++ Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	ACTDCBEC001T	DC	Basic Electronics Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
9	ACTDSXXX001P	DSEEC	Departmental Skill Enhancement Elective Course -I	-	-	-	30	10	10	50	-	-	4	-	-	2	4
10	TO BE SELECTED##	GE	General Elective-1	60	20	20	-	-	-	100	-	-	-	4	-	4	4
<b>Total</b>				<b>360</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>800</b>	<b>16</b>	<b>1</b>	<b>10</b>	<b>4</b>	<b>0</b>	<b>26</b>	<b>31</b>

Departmental Skill Enhancement Elective Course (DSEEC- 1)		
S.No	Course Code	Course Name
1	ACTSDTK001P	Digital Toolkit
2	ACTDSBPY001P	Basics of Python Programming

Details of GE Offered	
Course Code	Course Name
ACTGECOE001B	Computer Basics & Office Essentials

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

## Students required to opt general elective from the Courses offered by other institutes under group 1 in GE category

\*\*This subject would be offered as per availability of online MOOC course in concern semester



SAGE University, Indore  
Institute of Advance Computing  
Department of Computer Science & Technology  
**CHOICE BASED CREDIT SYSTEM**  
Effective from Academic Session: 2024-25

Program:		Bachelor of Technology in Computer Science and Technology (Hon)								Program Code : B.Tech (CST)								
Semester:		II								Admission batch: 2024-25								
Course wise Distribution of Marks and corresponding Credits																		
S. No.	Subject Code	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/Assign./Presentations	End Sem. Exam (ESE) For Practical and Viva	Continuous Internal Evaluation	L	T		P	SM			NTCC		
					Lab Work/WPR	Attendance/Assignment/viva/Lab												
1	ACTDCPHY001T	DC	Engineering Physics	60	20	20	-	-	-	100	3	-	-	-	-	3	3	
2	ACTDCCOA001T	DC	Computer Architecture	60	20	20	-	-	-	100	4	-	-	-	-	4	4	
3	ACTDCDSA001T	DC	Data Structures and Algorithms	60	20	20	-	-	-	100	3	-	-	-	-	3	3	
4	ACTDCOOP001T	DC	Object Oriented Programming Using Core Java	60	20	20	-	-	-	100	3	-	-	-	-	3	3	
5	AECACUHV001T	AECC	Universal Human Values & Professional Ethics	60	20	20				100	2					2	2	
6	ACTDCPHY001P	DC	Engineering Physics Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
7	ACTDCDSA001P	DC	Data Structures and Algorithms Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
8	ACTDCOOP001P	DC	Object Oriented Programming Using Core Java Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
9	ACTDSXXX001P	DSEEC	Departmental Skill Enhancement Elective Course -2	-	-	-	30	10	10	50	-	-	4	-	-	2	4	
10	AECACUHV001N	AECC	Universal Human Values & Professional Ethics					30	20	100					4	2	2	
11	TO BE SELECTED <sup>##</sup>	GE	General Elective-2	60	20	20	-	-	-	100	-	-	-	4	-	4	4	
12	ACTDPMIP001N	DAP	Micro Project-I	-	-	-	-	20	30	50	-	-	-	-	4	2	-	
<b>Total</b>				<b>360</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>90</b>	<b>90</b>	<b>950</b>	<b>15</b>	<b>0</b>	<b>10</b>	<b>4</b>	<b>8</b>	<b>28</b>	<b>31</b>	

Departmental Skill Enhancement Elective Course (DSEEC- 2)		
S.No	Course Code	Course Name
1	ACTDSETK001P	Engineering Toolkit
2	ACTDSAPY001P	Advance Python Programming

Details of GE Offered	
Course Code	Course Name
ACTGEIOE002B	Introduction of ERP

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

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

\*\*This subject would be offered as per availability of online MOOC course in concern semester



**SAGE University, Indore**  
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**CHOICE BASED CREDIT SYSTEM**  
**Effective from Academic Session: 2024-25**

Program:		Bachelor of Technology in Computer Science and Technology (Hon)							Program Code : B.Tech (CST)										
Semester:		III							Admission batch: 2024-25										
Course wise Distribution of Marks and corresponding Credits																			
S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted														Credits	Credits Hours
				Theory(100 Marks)				Practical (50 Marks)				Total Marks	Hours/week						
				End Sem	Continu-ous Internal Evaluati-on Mid Sem Test (MST)	Attenda-nce/Quiz /Assig./P resentati- ons	End Sem. Exam (ESE)Fo rPractic al and Viva	Continuous Internal Evaluation		L	T		P	SM	NTC C				
								Lab Work / WPR	Attenda-nce/Assi gnment /viva/La b										
1	ACTDCADA001T	DC	Analysis and Design of Algorithms	60	20	20	-	-	-	100	3	-	-	-	-	3	3		
2	ACTDCAJV001T	DC	Advance JAVA	60	20	20	-	-	-	100	3	-	-	-	-	3	3		
3	ACTDCDBM001T	DC	Database Management System	60	20	20	-	-	-	100	3	-	-	-	-	3	3		
4	ACTDCEVS001T	DC	Environmental Science	60	20	20	-	-	-	100	4	-	-	-	-	4	4		
5	To be selected	DE	Departmental Elective-I	60	20	20	-	-	-	100	4	-	-	-	-	4	4		
6	ACTDCAJV001P	DC	Advance JAVA Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2		
7	ACTDCADA001P	DC	Analysis and Design of Algorithms- Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2		
8	ACTDCDBM001P	DC	Database Management System Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2		
9	ACTDSXXX001P	DSEEC	Departmental Skill Enhancement Elective Course - 3				30	10	10	50		-	2	-	-	2	4		
10	TO BE SELECTED <sup>##</sup>	GE	General Elective-3	60	20	20	-	-	-	100	-	-	-	4	-	4	4		
<b>Total</b>				<b>360</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>800</b>	<b>17</b>	<b>0</b>	<b>8</b>	<b>4</b>	<b>0</b>	<b>26</b>	<b>31</b>		

Departmental Elective-I	
Course Code	Course Name
ACTDELDR001T	Leadership
ACTDEENT001T	Entrepreneurship

Departmental Skill Enhancement Elective Course (DSEEC- 3)		
S.No	Course Code	Course Name
1	ACTDSPBD001P	Profile Building
2	ACTDSIPC001P	Interpersonal Communication

Details of GE Offered	
Course Code	Course Name
ACTGEISE003B	Information Security Essentials

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

## Students required to opt general elective from the Courses offered by other institutes under group 3 in GE category

\*\*This subject would be offered as per availability of online MOOC course in concern semester



SAGE University, Indore  
Institute of Advance Computing  
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**CHOICE BASED CREDIT SYSTEM**  
Effective from Academic Session: 2024-25

Program:		Bachelor of Technology in Computer Science and Technology (Hon)							Program Code : B.Tech (CST)										
Semester:		III							Admission batch: 2023-24										
Course wise Distribution of Marks and corresponding Credits																			
S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted											Credits	Credits Hours			
				Theory(100 Marks)				Practical (50 Marks)				Total Marks	Hours/week						
				End Sem	Continu ous Internal Evaluati on Mid Sem Test (MST)	Attenda nce/Quiz /Assig./P resentati ons	End Sem. Exam (ESE)Fo rPractic al and Viva	Continuous Internal Evaluation		L	T		P	SM			NTC C		
								Lab Work / WPR	Attenda nce/Assi gnment /viva/La b										
1	ACTDCADA001T	DC	Analysis and Design of Algorithms	60	20	20	-	-	-	100	3	-	-	-	-	3	3		
2	ACTDCAJV001T	DC	Advance JAVA	60	20	20	-	-	-	100	3	-	-	-	-	3	3		
3	ACTDCDBM001T	DC	Database Management System	60	20	20	-	-	-	100	3	-	-	-	-	3	3		
4	To be selected	DE	Departmental Elective-1	60	20	20	-	-	-	100	4	-	-	-	-	4	4		
5	ACTDCAJV001P	DC	Advance JAVA Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2		
6	ACTDCADA001P	DC	Analysis and Design of Algorithms- Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2		
7	ACTDCDBM001P	DC	Database Management System Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2		
8	ACTDSXXX001P	DSEEC	Departmental Skill Enhancement Elective Course - 3				30	10	10	50		-	2	-	-	2	4		
9	TO BE SELECTED <sup>##</sup>	GE	General Elective-3	60	20	20	-	-	-	100	-	-	-	4	-	4	3		
<b>Total</b>				<b>300</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>700</b>	<b>13</b>	<b>0</b>	<b>8</b>	<b>4</b>	<b>0</b>	<b>22</b>	<b>26</b>		

Departmental Elective-I	
Course Code	Course Name
ACTDELDRO01T	Leadership
ACTDEENT001T	Entrepreneurship

Departmental Skill Enhancement Elective Course (DSEEC- 3)		
S.No	Course Code	Course Name
1	ACTDSPBD001P	Profile Building
2	ACTDSIPC001P	Interpersonal Communication

Details of GE Offered	
Course Code	Course Name
ACTGEISE003B	Information Security Essentials

Note: Industrial Internship I to be completed before start of V Semester, i.e. evaluation and credit to be added in V Semester.  
 ## Students required to opt general elective from the Courses offered by other institutes under group 3 in GE category  
 \*\*This subject would be offered as per availability of online MOOC course in concern semester



**SAGE University, Indore**  
**Institute of Advance Computing**  
**Department of Computer Science & Technology**  
**CHOICE BASED CREDIT SYSTEM**

Effective from Academic Session: 2024-25

<b>Program:</b>		<b>Bachelor of Technology in Computer Science and Technology (Hon)</b>								<b>Program Code : B.Tech (CST)</b>							
<b>Semester:</b>		<b>IV</b>								<b>Admission batch: 2023-24 and 2024-25</b>							
Course wise Distribution of Marks and corresponding Credits																	
S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted												Credits	Credits Hours
				Theory(100 Marks)			Practical (50 Marks)			Total Marks	Hours/week						
				End Sem	Continu-ous Internal Evaluati-on Mid Sem Test (MST)	Attenda-nce/Quiz /Assig./P resentati- ons	End Sem. Exam (ESE)Fo rPractic al and Viva	Continu-ous Internal Evaluation	Attenda-nce/Assig-nment /viva/Lab manual		L	T	P	SM	NTC C		
1	ACTDCMDB001T	DC	Mongo DB Using No SQL	60	20	20	-	-	-	100	3	-	-	-	-	3	3
2	ACTDCFED001T	DC	Front End Development with React	60	20	20	-	-	-	100	3	-	-	-	-	3	3
3	To be Selected	DE	Departmental Elective - II	60	20	20	-	-	-	100	3	-	-	-	-	3	3
4	To be Selected	DE	Departmental Elective - III	60	20	20	-	-	-	100	4	-	-	-	-	4	4
5	ACTDCMDB001P	DC	Mongo DB Using No SQL LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
6	ACTDCFED001P	DE	Front End Development with React -Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
7	To be Selected	DE	Departmental Elective - II Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	ACTDSXXX001P	DSEEC	Departmental Skill Enhancement Elective Course - 4				30	10	10	50		-	2	-	-	2	4
9	TO BE SELECTED <sup>##</sup>	GE	General Elective-4	60	20	20	-	-	-	100	2	-	-	4	-	4	6
10	ACTDPMCP001N	DAP	Micro Project-II	-	-	-	-	20	30	50	-	-	-	-	4	2	-
<b>Total</b>				<b>300</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>60</b>	<b>70</b>	<b>750</b>	<b>15</b>	<b>0</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>24</b>	<b>29</b>

Departmental Elective-II	
Course Code	Course Name
ACTDECMN001T/P	Computer Network / Computer Network Lab
ACTDEIOT001T/P	IOT / IOT Lab

Departmental Elective- III	
Course Code	Course Name
ACTDEAMT001T	Applied Modern Technologies
ACTDEBAW001T	Business Awareness

Details of GE Offered	
Course Code	Course Name
ACTGECAO004B	Computer Architecture & Organization

Departmental Skill Enhancement Elective Course (DSEEC- 4)	
Course Code	Course Name
ACTDSWPP001P	Web Programming Using PHP
ACTDSNET001P	Basic Of .Net Programming

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

<sup>##</sup> Students required to opt general elective from the Courses offered by other institutes under group 4 in GE category

<sup>\*\*</sup>This subject would be offered as per availability of online MOOC course in concern semester



SAGE University, Indore  
Institute of Advance Computing  
Department of Computer Science & Technology  
**CHOICE BASED CREDIT SYSTEM**  
Effective from Academic Session: 2024-25

<b>Program:</b>	Bachelor of Technology in Computer Science and Technology (Hon)	<b>Program Code :</b> B.Tech (CST)															
<b>Semester:</b>	V	<b>Admission batch:</b> 2023-24 and 2024-25															
<b>Course wise Distribution of Marks and corresponding Credits</b>																	
S. No.	Subject Code	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)ForPractical and Viva	Continuous Internal Evaluation	Lab Work / WPR		Attendance/Assignment /viva/Lab manual	L	T	P	SM		
1	ACTDCSEP001T	DC	Software Engineering and Project Management	60	20	20	-	-	-	100	3	-	-	-	-	3	3
2	ACTDCBED001T	DC	Back End Development with Node Js	60	20	20	-	-	-	100	3	-	-	-	-	3	3
3	ACTDCAND001T	DC	Android Development using Java/Kotlin	60	20	20	-	-	-	100	3	-	-	-	-	3	3
4	To be Selected	DE	Department Elective-IV	60	20	20	-	-	-	100	3	-	-	-	-	3	3
5	To be Selected	DE	Department Elective - V	60	20	20	-	-	-	100	4	-	-	-	-	4	4
6	ACTDCSEP001P	DC	Software Engineering and Project Management Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
7	ACTDCBED001P	DC	Back End Development with Node Js LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	ACTDCAND001P	DC	Android Development using Java/Kotlin	-	-	-	30	10	10	50	-	-	2	-	-	1	2
9	To be Selected	DE	Department Elective IV Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
10	ACTDSXXX001P	DSEEC	Departmental Skill Enhancement Elective Course - 5				30	10	10	50			2	-	-	2	4
11	To be selected <sup>SS</sup>	DSEC	Internship-I					20	30	50					4	2	-
<b>Total</b>				<b>300</b>	<b>100</b>	<b>100</b>	<b>150</b>	<b>70</b>	<b>80</b>	<b>800</b>	<b>16</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>4</b>	<b>24</b>	<b>28</b>
<b>Departmental Elective- IV</b>																	
<b>Department Elective - V</b>																	
<b>Course Code</b>	<b>Course Name</b>						ACTDECOV001T/P	Computer Vision (NPTEL COURSES)									
ACTDEOSM001T/P	Operating System / Operating System Lab						ACTDEGTA001T/P	Introduction to Game Theory (NPTEL COURSES)									
ACTDEBDT001T/P	Big Data / Big Data Lab																

Departmental Skill Enhancement Elective Course (DSEEC - 5)		
1	ACTDSAWP001P	Advance Web Programming Using PHP
2	ACTDSNET002P	Advance of .Net Programming

SS Internship-I	
<b>Course Code</b>	<b>Course Name</b>
ACTDSIIN001N	Industrial Internship-I



**SAGE University, Indore**  
 Institute Name: Institute of Advance Computing  
 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: 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	Continuo us Internal Evaluation n 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	Attendan ce/Assign ment /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-VII	60	20	20	-	-	-	100	3	0	-	-	-	3	3
4	To be selected**	DE	Department Elective-VIII	60	20	20	-	-	-	100	3	0	-	-	-	3	3
5	To be selected***	DE	Department Elective-IX	60	20	20	-	-	-	100	3	0	-	-	-	3	3
6	To be selected****	DE	Department Elective-X	60	20	20	-	-	-	100	3	0	-	-	-	3	3
7	To be selected <sup>5</sup>	DSEC	Departmental Skill Enhancement Elective Course-	-	-	-	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-VII Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
10	To be selected**	DE	Department Elective-VIII Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
11	To be selected***	DE	Department Elective-IX Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
12	To be selected****	DE	Department Elective-X	60	20	20	-	-	-	100	3	0	-	-	-	1	2
13	To be selected <sup>55</sup>	DSEC	Internship-I	-	-	-	-	20	30	50	-	-	-	-	20	2	-
<b>Total</b>				<b>420</b>	<b>140</b>	<b>140</b>	<b>150</b>	<b>70</b>	<b>80</b>	<b>1000</b>	<b>22</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>20</b>	<b>28</b>	<b>33</b>

* List of Departmental Elective-VII		***List of Departmental Elective-IX	
Course Code	Course Name	Course Code	Course Name
ECSDDEDOS001T/P	Distributed Operating System / Distributed Operating System Lab	ECSDDEGEC001T/P	Grid & Egde Computing / Grid & Egde Computing Lab
ECSDDEAML001T/P	Artificial Intelligence & Machine Learning / Artificial Intelligence & Machine Learning Lab	ECSDDECCO001T/P	Cloud Computing / Cloud Computing Lab
ECSDDENMB001T/P	Node, Express & MongoDB Basics/Node, Express & MongoDB Basics Lab		
** List of Departmental Elective-VIII		**** List of Departmental Elective-X	
Course Code	Course Name	Course Code	Course Name
ECSDDECYS001T/P	Cyber Security / Cyber security Lab		
ECSDDENMS001T/P	Network Management & Security / Network Management & Security Lab	ECSDDERPA001T/P	Robot Process Automation / Robot Process Automation Lab
ECSDDEDE001T/P	DSA Expert/DSA Expert Lab	ECSDDEEMS001T/P	Embedded Systems / Embedded Systems Lab
SS Internship-I		S List of Departmental Skill Enhancement Elective Course-V	
Course Code	Course Name	Course Code	Course Name
ECSDSIIN001N	Industrial Internship-I	ECSDSULP001P	Unix/Linux Programming Lab
		ECSDSJPS001P	Advance Java Programming II Lab



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**CHOICE BASED CREDIT SYSTEM**

Effective from Academic Session: 2024-25

<b>Program:</b>	Bachelor of Technology in Computer Science and Technology (Hon)	<b>Program Code :</b> B.Tech (CST)															
<b>Semester:</b>	VI	<b>Admission batch:</b> 2023-24 and 2024-25															
<b>Course wise Distribution of Marks and corresponding Credits</b>																	
S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted						Credits	Credits Hours						
				Theory(100 Marks)			Practical (50 Marks)					Hours/week					
				End Sem	Conti nuous Intern al Evalu ation Mid Sem Test (MST )	Attend ance/Q uiz /Assig./ Presen tations	End Sem. Exam (ESE)ForPra ctical and Viva	Continuous Internal Evaluation	Total Marks			L	T	P	SM	NTCC	
1	ACTDCTOC001T	DC	Theory of Computation	60	20	20	-	-	-	100	4	-	-	-	-	4	4
2	ACTDCCLD001T	DC	Cloud Engineering (Hosting & Deployment)	60	20	20	-	-	-	100	3	-	-	-	-	3	3
3	To be Selected	DE	Department Elective- VI	60	20	20	-	-	-	100	3	-	-	-	-	3	3
4	ACTSECSK003T	DC	Communication Skills- III (Placement Prep)	60	20	20	-	-	-	100	4	-	-	-	-	4	4
5	ACTESLRA001T	DC	Logical Reasoning & Aptitude	60	20	20	-	-	-	100	4	-	-	-	-	4	4
6	ACTDCCLD001P	DC	Cloud Engineering (Hosting & Deployment) LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
7	To be Selected	DE	Department Elective- VI Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	ACTDPINS003N	DAP	Minor Project	-	-	-	-	40	60	100	-	-	-	-	12	6	-
9	ACTDSXXX001P	DSEEC	Departmental Skill Enhancement Elective Course - 6				30	10	10	50		-	2	-	-	2	4
Total				<b>300</b>	<b>100</b>	<b>100</b>	<b>90</b>	<b>70</b>	<b>90</b>	<b>750</b>	<b>18</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>12</b>	<b>28</b>	<b>26</b>

Departmental Elective VI	
Course Code	Course Name
ACTDESOC001T/P	Soft Computing / Soft Computing Lab
ACTDEDTM001T/P	Data Mining / Data Mining Lab

Departmental Skill Enhancement Elective Course (DSEEC- 6)		
S.No	Course Code	Course Name
1	ACTDSRPR001P	R Programming Lab
2	ACTDSULP001P	Unix/Linux Programming

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.





# SAGE University, Indore

Institute Name: Institute of Advance Computing

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: 2022-23

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	Continuo us Internal Evaluatio n 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		Attendan ce/Assign ment /viva/Lab manual	L	T	P			M/B/SM	NTCC
1	ECSDCCMD001T	DC	Compiler Design	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
2	To be selected <sup>†</sup>	DE	Department Elective-XI	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
3	To be selected <sup>**</sup>	DE	Department Elective-XII	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
4	To be selected <sup>***</sup>	DE	Department Elective-XIII	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
5	To be selected <sup>****</sup>	DE	Department Elective-XIV	60	20	20	-	-	-	100	3	0	-	-	-	3	3	
6	To be selected <sup>5</sup>	DSEC	Departmental Skill Enhancement Elective	-	-	-	30	10	10	50	-	-	4	-	-	2	4	
7	ECSDCCMD001P	DC	Compiler Design lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
8	To be selected <sup>†</sup>	DE	Department Elective-XI	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
9	To be selected <sup>**</sup>	DE	Department Elective-XII	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
10	To be selected <sup>***</sup>	DE	Department Elective-XIII	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
11	To be selected <sup>****</sup>	DE	Department Elective-XIV	-	-	-	30	10	10	50	-	-	2	-	-	1	2	
12	ECSDFMNP001N	DAP	Minor Project	-	-	-	-	40	60	100	-	-	-	-	12	6	-	
<b>Total</b>				<b>300</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>100</b>	<b>120</b>	<b>900</b>	<b>15</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>12</b>	<b>28</b>	<b>29</b>	

* List of Departmental Elective-XI		**** List of Departmental Elective-XIV	
Course Code	Course Name	Course Code	Course Name
ECSDESQA001T/P	Software Testing & Quality Assurance / Software Testing & Quality Assurance Lab	ECSDEBDH001T/P	Big Data / Big Data Lab
ECSDEEIT001T/P	Entrepreneurship for Information Technology / Entrepreneurship for Information Technology Lab	ECSDEDESE001T/P	Data Science / Data Science Lab
		ECSDEDESM001T/P	DSA Master/DSA Master Lab
** List of Departmental Elective-XII		\$ 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-XIII			
Course Code	Course Name		
ECSDECSA001T/P	Cloud Skills with Amazon Web Services / Cloud Skills with Amazon Web Services		
ECSDEEHK001T/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.



**SAGE University, Indore**  
 Institute Name: Institute of Advance Computing  
 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	Continuo us Internal Evaluation in Mid Sem Test	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 /
1	ACTDCNLP001T	DC	Natural Language Processing	60	20	20	-	-	-	100	3	0	-	-	-	3	3
2	To be selected <sup>†</sup>	DE	Department Elective-XIII	60	20	20	-	-	-	100	3	0	-	-	-	3	3
3	To be selected <sup>**</sup>	DE	Department Elective-XIV	60	20	20	-	-	-	100	3	0	-	-	-	3	3
4	To be selected <sup>***</sup>	DE	Department Elective-XV	60	20	20	-	-	-	100	3	0	-	-	-	3	3
5	To be selected <sup>§</sup>	DSEC	Departmental Skill Enhancement Elective Course-VII	-	-	-	30	10	10	50	-	-	4	-	-	2	4
6	To be selected <sup>§</sup>	DSEC	Departmental Skill Enhancement Elective Course-VIII	-	-	-	30	10	10	50	-	-	4	-	-	2	4
7	To be selected <sup>§</sup>	DSEC	Departmental Skill Enhancement Elective Course-IX	-	-	-	30	10	10	50	-	-	4	-	-	2	4
8	ACTDCNLP001P	DC	Natural Language Processing LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
9	To be selected <sup>†</sup>	DE	Department Elective-XIII LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
10	To be selected <sup>**</sup>	DE	Department Elective-XIV LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
11	To be selected <sup>***</sup>	DE	Department Elective-XV LAB	-	-	-	30	10	10	50	-	-	2	-	-	1	2
12	To be selected <sup>§§§</sup>	DSEC	Internship-II	-	-	-	-	20	30	50	-	-	-	-	20	4	-
<b>Total</b>				<b>240</b>	<b>80</b>	<b>80</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>750</b>	<b>12</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>32</b>

* List of Departmental Elective-XIII		*** List of Departmental Elective-XV	
Course Code	Course Name	Course Code	Course Name
ACTDEWMC001T/P	Wireless & Mobile Computing / Wireless & Mobile Computing Lab	ACTDEBCC001T/P	Blockchain Technology /Blockchain Technology Lab
ACTDEMAN001T/P	Mobile Adhoc Networks / Mobile Adhoc Networks Lab	ACTDEIOT001T/P	Internet of Things / Internet of Things Lab

** List of Departmental Elective-XIV		§§§ Internship-II	
Course Code	Course Name	Course Code	Course Name
ACTDECOI001T/P	Computational Intelligence / Computational Intelligence Lab	ACTDSIN002N	Industrial Internship-II
ACTDEASD001T/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-VIII	
Course Code	Course Name	Course Code	Course Name
ACTDSMOS001P	Mobile Operating Systems Lab	ACTDSA DR001P	Advance React Lab
ACTDSMDB001P	MongoDB Lab	TDSDSI00	DSA Intermediate/DSA Intermediate Lab

§ List of Departmental Skill Enhancement Elective Course-IX	
Course Code	Course Name
ACTDSSDP001P	Software Design Patterns
ACTDSAPD001P	Application Development



**SAGE University, Indore**  
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 Effective from Academic Session: 2024-25

**Program:** Bachelor of Technology in Computer Science and Engineering

Program Code : B.Tech (CSE)
<b>Admission batch: 2022-23</b>

**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	Continuo us Internal Evaluatio n 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	Attendan ce/Assign ment /viva/Lab manual								
1	ECSDCNLP001T	DC	Natural Language	60	20	20	-	-	-	100	3	0	-	-	-	3	3
2	To be selected <sup>*</sup>	DE	Department Elective-	60	20	20	-	-	-	100	3	0	-	-	-	3	3
3	To be selected <sup>**</sup>	DE	Department Elective-	60	20	20	-	-	-	100	3	0	-	-	-	3	3
4	To be selected <sup>***</sup>	DE	Department Elective-	60	20	20	-	-	-	100	3	0	-	-	-	3	3
6	To be selected <sup>§</sup>	DSEC	Departmental Skill	-	-	-	30	10	10	50	-	-	4	-	-	2	4
7	ECSDCNLP001P	DC	Natural Language	-	-	-	30	10	10	50	-	-	2	-	-	1	2
8	To be selected <sup>*</sup>	DE	Department Elective-	-	-	-	30	10	10	50	-	-	2	-	-	1	2
9	To be selected <sup>**</sup>	DE	Department Elective-	-	-	-	30	10	10	50	-	-	2	-	-	1	2
10	To be selected <sup>***</sup>	DE	Department Elective-	-	-	-	30	10	10	50	-	-	2	-	-	1	2
12	To be selected <sup>§§§</sup>	DSEC	Internship-II	-	-	-	-	20	30	50	-	-	-	-	20	4	-
<b>Total</b>				<b>240</b>	<b>80</b>	<b>80</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>650</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>24</b>

* List of Departmental Elective-XV		*** List of Departmental Elective-XVII	
Course Code	Course Name	Course Code	Course Name
ECSDDEWMC001T/P	Wireless & Mobile Computing / Wireless & Mobile Computing Lab	ECSDEBCC001T/P	Blockchain Technology /Blockchain Technology Lab
ECSDDEMAN001T/P	Mobile Adhoc Networks / Mobile Adhoc Networks Lab	ECSDEIOT001T/P	Internet of Things / Internet of Things Lab
ECSDDEDS001T/P	DSA Pioneer/DSA Pioneer Lab		
** List of Departmental Elective-XVI		§§§ Internship-II	
Course Code	Course Name	Course Code	Course Name
ECSDDECOI001T/P	Computational Intelligence / Computational Intelligence Lab	ECSDSIIN002N	Industrial Internship-II
ECSDDEASD001T/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 of Advance Computing**  
**Department of Computer Science & Technology**  
**CHOICE BASED CREDIT SYSTEM**  
**Effective from Academic Session: 2024-25**

<b>Program:</b>	Bachelor of Technology in Computer Science and Technology (Hon)	<b>Program Code :</b> B.Tech (CST)															
<b>Semester:</b>	VII	<b>Admission batch:</b> 2023-24 and 2024-25															
<b>Course wise Distribution of Marks and corresponding Credits</b>																	
S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted											Credits	Credits Hours	
				Theory(100 Marks)			Practical (50 Marks)			Total Marks	Hours/week						
				End Sem	Continuou s Internal Evaluation Mid Sem Test (MST)	Attendanc e/Quiz /Assig./Pre sentations	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation	L		T	P	SM	NTCC			
			Lab Work / WPR	Attendance/Assi gnment /viva/Lab manual													
1	To be selected	DE	Specialization Electives-I	60	20	20	-	-	-	100	3	-	-	-	-	3	3
2	To be selected	DE	Specialization Electives-II	60	20	20	-	-	-	100	3	-	-	-	-	3	3
3	To be Selected	DE	Departmental Elective - VII	60	20	20	-	-	-	100	3	-	-	-	-	3	3
4	To be Selected	DE	Departmental Elective - VIII	60	20	20	-	-	-	100	3	-	-	-	-	3	3
5	To be Selected	DE	Departmental Elective - VII Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
6	To be Selected	DE	Departmental Elective - VIII Lab	-	-	-	30	10	10	50	-	-	2	-	-	1	2
7	To be selected	DE	Specialization Electives-I Lab	-	-	-	30	10	10	50	-		2	-	-	1	2
8	To be selected	DE	Specialization Electives-II Lab	-	-	-	30	10	10	50			2	-	-	1	2
9	ACTDSXXX001P	DSEEC	Departmental Skill Enhancement Elective Course 7				30	10	10	50		-	2	-	-	2	4
10	ACTDSIIN002N	DSEEC	Internship II					20	30	50	-	-	-	-	2	4	-
<b>Total</b>				<b>240</b>	<b>80</b>	<b>80</b>	<b>150</b>	<b>70</b>	<b>80</b>	<b>700</b>	<b>12</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>2</b>	<b>22</b>	<b>24</b>

SPECIALIZATION ELECTIVE-I & II Part I	
Course Code	Course Name
ACTDCCWA001T/P	Blockchain - Cryptography & Web Application Security/Blockchain - Cryptography & Web Application Security Lab
ACTDCCES001T/P	Cloud Computing - Cloud Essentials/Cloud Computing - Cloud Essentials Lab
ACTDCCSE001T/P	Cyber Security - Cyber Security Essentials/ Cyber Security - Cyber Security Essentials Lab
ACTDCDAS001T/P	Data Science - Data Analytics/ Data Science - Data Analytics Lab
ACTDCMLG001T/P	Machine Learning & Artificial Intelligence - Machine Learning/ Machine Learning & Artificial Intelligence - Machine Learning Lab

SS Internship-II	
Course Code	Course Name
ACTDSIIN002N	Industrial Internship-II

Departmental Elective - VII	
Course Code	Course Name
ACTDEROB001T/P	Robotics / Robotics Lab
ACTDECOM001T/P	Compiler Design / Compiler Design Lab

Departmental Skill Enhancement Elective Course (DSEEC- 7)		
S.No	Course Code	Course Name
1	ACTDSMOS001P	Mobile Operating Systems Lab
2	ACTDSMTL001P	Scilab Lab

Departmental Elective - VIII	
Course Code	Course Name
ACTDEASD001T/P	Agile Software Development / Agile Software Development Lab
ACTDECOI001T/P	Computational Intelligence / Computational Intelligence Lab



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

Effective for : ACADEMIC SESSION : 2024-25

Program: BTech (Computer Science & Engineering)  
 Semester: VIII

Program Code : B.Tech. (CSE)

Admission Batch: 2021-22

**Subject wise Distribution of Marks and corresponding Credits**

S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted							Hours/week					Credits	Hours	
				Theory(100 Marks)			Practical/Studio (50 Marks)				Total Marks	L	T	P	SM			NTCC
				End Sem. Exam	Continuous Internal Evaluation Mid Sem Test (MST)	Attendance/Quiz/Assignments/Presentations	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation										
								Lab Work/WORK	Attendance/Assignment/viva/Lab									
1	ACTDPMJP001N	DAP	Major Project	-	-	-	-	40	60	100	-	-	-	-	24	12	24	
<b>Total</b>				-	-	-	-	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
<b>Total</b>	<b>194</b>

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



**SAGE University, Indore**  
 Institute Name: Institute of Advance Computing  
 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: 2022-23

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	Continuo us Internal Evaluatio n Mid Sem Test (MST)	Attendan ce/Quiz /Assig./P resentati ons	End Sem. Exam (ESE)For Practical and Viva	Continuous Internal Evaluation		L	T	P	M/B/SM	NTCC			
								Lab Work / WPR									Attendan ce/Assign ment /viva/Lab manual
1	ECSDPMJP001N	DAP	Major Project	-	-	-	-	40	60	100	-	-	-	-	24	12	24
<b>Total</b>				-	-	-	-	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
<b>Total</b>	<b>194</b>

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