



SAGE University, Indore
SAGAR INSTITUTE OF RESEARCH & TECHNOLOGY
Computer Science & Engineering
CHOICE BASED CREDIT SYSTEM
PROGRAM STRUCTURE FOR BATCH 2022 - 2024
Effective from Academic Session: 2022-23

Program: Mtech
Semester: I

Subject wise Distribution of Marks and corresponding Credits

S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted										Credits	Credits Hours			
				Theory(100 Marks)			Practical/Studio (50 Marks)				Total Marks	Hours/week						
				End Sem	Continuous Internal Evaluation Mid Sem Test (MST)	Attendance/ Quiz /Assign./Presentations	End Sem. Exam (ESE)ForPractical and Viva	Continuous Internal Evaluation		L		T	P			S (only for design)	M/B	NTCC
								Lab Work / WPR	Attendance/Assignment /viva/Lab manual									
1	ECSDCAOS001T	DC	Advance Operating System	60	20	20	-	-	-	100	3	0	0				3	3
2	ECSDCADS001T	DC	Advance Data Structure	60	20	20	-	-	-	100	3	0	0				3	3
3	ECSDCADM001T	DC	Advance Database Management System	60	20	20	-	-	-	100	3	0	0				3	3
4	To be Offered **	DE	Departmental Elective-I	60	20	20	-	-	-	100	3	0	0				3	3
5	To be Offered **	DE	Departmental Elective-II	60	20	20	-	-	-	100	4	0	0				4	4
6	ECSDCODS001P	DC	Advance Operating System Lab+Advanced Data Structure Lab	-			30	10	10	50	0	0	2				2	4
7	ECSDCADE001P	DC	Advance Data base Management System Lab+ Elective-I Lab	-			30	10	10	50	0	0	2				2	4
8	To be Offered ^S	DSEEC	Departmental Skill Enhancement Elective Course - I	-			30	10	10	50	0	0	2				2	4
Total				300	100	100	90	30	30	650	16		6				22	28

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		
M= MOOC	SWAYAM/NPTEL	Certificate
BM = Blended MOOC	1 Hr	1 CR

NOTE :	GE to be selected from the university list
	WPR is for NTCC
	Assignment / VIVA for NTCC
	Assignment / VIVA / Lab manual for P
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List of Departmental Elective-I	
Sub. Code	Sub. Name
ECSDDEOS001T/ ECSDDEOS001P	Object Oriented Software Engineering
ECSDCND001T/ ECSDCND001P	Computer Network & Distributed Computing

S List of Departmental Skill Enhancement Elective Course - I	
Sub code	Sub. Name
ECSDSAJP001P	Advance Java Programming Lab
ECSDSLIP001P	Linux Programming Lab

List of Departmental Elective-II	
Sub code	Sub. Name
ECSDENLP001T	Natural Language Processing
ECSDACM001T	Advance Computational Mathematics



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PROGRAM STRUCTURE FOR BATCH 2023 - 2025
Effective from Academic Session: 2023-24

Program: Mtech
 Semester: II

Subject wise Distribution of Marks and corresponding Credits

S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted													Credits	Credits Hours
				Theory(100 Marks)			Practical/Studio (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	S (only for design)	M/B		
1	ECSDCAWT001T	DC	Advance Web Technologies	60	20	20	-	-	-	100	3	0	0	-	-	-	3	3
2	ECSDCSQT001T	DC	Software Quality & Testing	60	20	20	-	-	-	100	3	0	0	-	-	-	3	3
3	ECSGENCS001T	DC	Network and Cyber security	60	20	20	-	-	-	100	4	0	0	-	-	-	4	4
4	To be Offered **	DE	Departmental Elective-I	60	20	20	-	-	-	100	3	0	0	-	-	-	3	3
5	To be Offered **	DE	Departmental Elective-II	60	20	20	-	-	-	100	3	0	0	-	-	-	3	3
6	ECSDCAWT001P	DC	Advance Web Technologies Lab	-	-	-	30	10	10	50	0	0	2	-	-	-	2	2
7	ECSDCSQT001P	DC	Software Quality & Testing Lab	-	-	-	30	10	10	50	0	0	2	-	-	-	2	2
8	To be Offered ⁵	DSEEC	Departmental Skill Enhancement Elective Course - I	-	-	-	30	10	10	50	0	0	2	-	-	-	2	4
Total				300	100	100	90	30	30	650	16	0	6	-	-	-	22	24

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		
M= MOOC	SWAYAM/NPTEL	Certificate
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List of Departmental Elective-I	
Sub. Code	Sub. Name
ECSDDEAR1001T	Artificial Intelligence
ECSDDEACA001T	Advanced Computer Architecture

§ List of Departmental Skill Enhancement Elective Course - I	
Sub code	Sub. Name
ECSDSPYP001P	Python Programming Lab
ECSDSCLC001P	Cloud Computing Lab

** List of Departmental Elective-II	
Sub. Code	Sub. Name
ECSDDEMWC001T	Mobile and Wireless computing
ECSDDEDMW001T	Data Mining & Warehousing



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Program: Mtech
Semester: III

Subject wise Distribution of Marks and corresponding Credits

S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted										Credits	Credits Hours			
				Theory(100 Marks)			Practical/Studio (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	S (only for design)	M/B
1	ECSDCDSC001T	DC	Data Science	60	20	20	-	-	-	100	4	0	0				4	4
2	ECSDCRM001T	DC	Research Methodology	60	20	20	-	-	-	100	4	0	0				4	4
3	To be Offered *	DE	Departmental Elective-I	60	20	20	-	-	-	100	4	0	0				4	4
4	To be Offered **	DE	Departmental Elective-II	60	20	20	-	-	-	100	4	0	0				4	4
5	To be Offered ⁵	DSEEC	Departmental Skill Enhancement Elective Course - I	-	-	-	30	10	10	50	0	0	2				2	4
6	ECSDPDIS001N	DSEEC	Dissertation Phase -I	-	-	-		40	60	100	-	-	6				6	
Total				240	80	80	30	50	70	550	16		8				24	20

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		
M= MOOC	SWAYAM/NPTEL	Certificate
BM = Blended MOOC	1 Hr	1 CR

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List of Departmental Elective-I	
Sub. Code	Sub. Name
ECSDMCL001T	Machine Learning
ECSDECG001T	Cluster & Grid Computing

§ List of Departmental Skill Enhancement Elective Course - I	
Sub code	Sub. Name
ECSDSDSC001P	Data Science Lab
ECSDSRPG001P	R Programming Lab

List of Departmental Elective-II	
Sub. Code	Sub. Name
ECSDDEF001T	Digital Forensic
ECSDDEMS001T	Embedded System



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Program: Mtech
Semester: IV

Subject wise Distribution of Marks and corresponding Credits

S. No.	Subject Code	Category	Subject Title	Maximum Marks Allotted											Credits	Credits Hours		
				Theory(100 Marks)			Practical/Studio (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		L		T	P	S (only for design)			M/B	NTCC
1	To be Offered ⁵	DSEEC	Departmental Skill Enhancement Elective Course - I					30	20	50	0	0	4			2	4	
2	ECSDPDIS002N		Dissertation Phase -II					40	60	100	0	0	-			15		
Total								70	80	150			4			17	4	

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		
M= MOOC	SWAYAM/NPTEL	Certificate
BM = Blended MOOC	1 Hr	1 CR

NOTE :	GE to be selected from the university list
	WPR is for NTCC
	Assignment / VIVA for NTCC
	Assignment / VIVA / Lab manual for P
	MOOCS will get credits by SWAYAM or NPTEL Certificates

⁵ List of Departmental Skill Enhancement Elective Course	
Sub code	Sub. Name
ECSDSANP001P	Android Programming Lab
ECSDSIOS001P	IOS Lab